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ERRATA

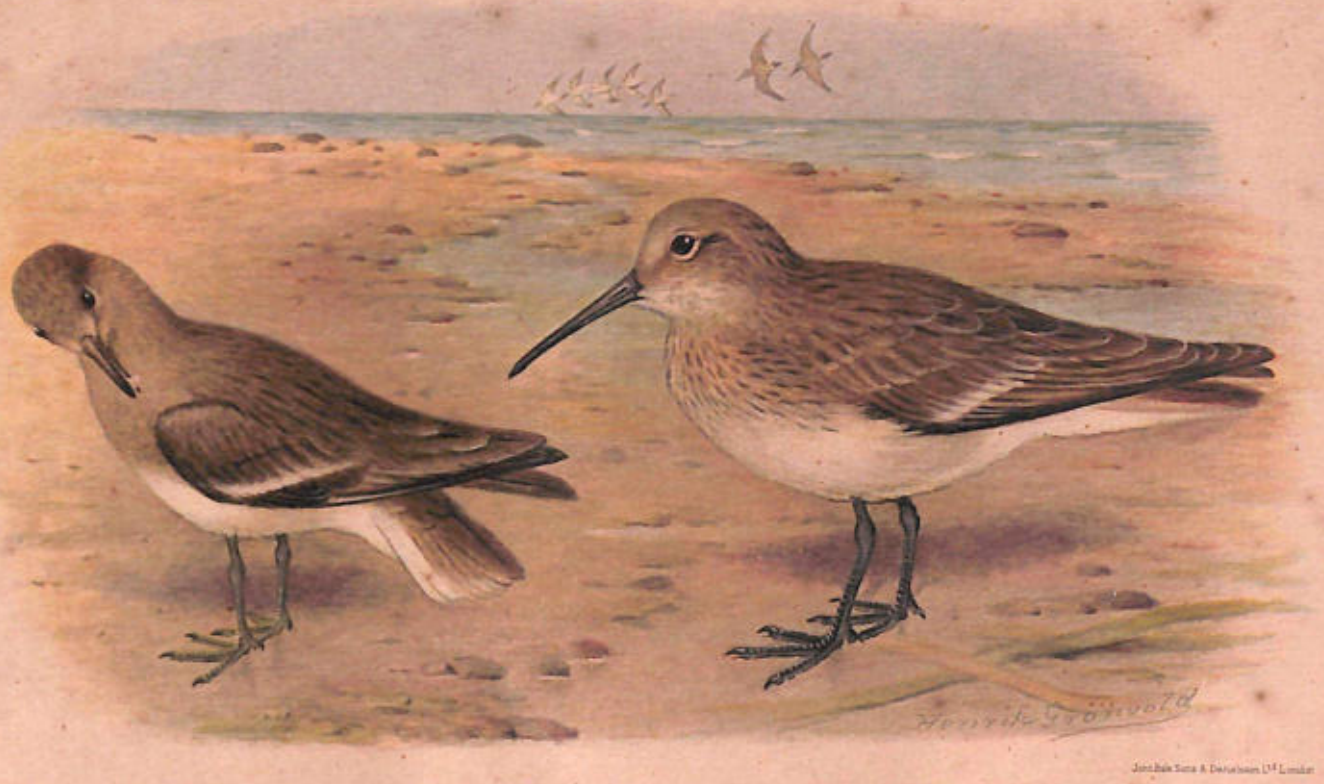
Page ii. line 2 from bottom for fulcata read falcata.
„ ii. „ 3 and 4 for *Sarkidiornis melanotus* read *Tadorna tadorna* and vice versa.
„ 98, „ 21 for Leucocera read Leucocerca.
„ 102, „ 4 from bottom for Dendronothus, read Dendronanthus.
„ 103, „ 11 for campertris read campestris.
„ 106, „ 2 from bottom for coramandus, read coromandus.
„ 111, „ 5 for Hypotaenida, read Hypotaenidia.
„ 114, „ 4 from bottom for Depetro, read Dupetor.
„ 162, „ 15 for Streptopclia, read Streptopoelia.
„ 195, „ 30 for fulcata, read falcata.
„ 196, „ 21 for *Sarkidiornis melanotus*, read *Tadorna tadorna* and vice versa.
„ 297, „ 20 & 45 for Eumiyas, read Eumyias.
„ 386, „ 12 from bottom "The Animal he '*saw*' should read "The Animal he '*shot*'.
„ 387, „ 1 from top for the word '*unknown*' read '*uncommon*.'

Wild Animal Serial

„ 241, line 19 from bottom for the word '*herd*' read '*head*'.

VOL. XXXVII No. 3

„ 733. Misc. Note No. XIV Title.
for *Scolopax r. rusticola*, read *Capella nemoricola*, Hodg.



TEMMINCKS STINT 3/5.
Erolia temminckii.

THE DUNLIN 3/5.
Erolia alpina alpina.

JOURNAL
OF THE
Bombay Natural History Society.

AUGUST, 1935. VOL. XXXVIII. No. 1.

THE GAME BIRDS OF THE INDIAN EMPIRE.

BY

E. C. STUART BAKER, C.I.E., O.B.E., F.Z.S., F.L.S., M.B.O.U., H.F.A.O.U.

VOL. V.

THE WADERS AND OTHER SEMI-SPORTING BIRDS.

PART XXII.

(*With a coloured plate*).

(*Continued from page* 254 *of volume* xxxvii).

EROLIA ALPINA ALPINA.

The Dunlin.

Tringa alpina Linn., Syst. Nat., 10th ed., vol. i, p. 149 (1758) (Lapland).

Erolia alpina alpina Fauna B.I., Birds, vol. vi, p. 241 (1929).

Description.—Breeding plumage. A narrow line next the bill and a faintly indicated supercilium white, streaked with black; upper plumage bright deep rufous, each feather broadly centred black and some of the longer scapulars and innermost secondaries terminally edged with white; hind-neck greyish-white streaked with black; lower back and rump dark grey-brown, showing little rufous or black; sides of rump and lateral tail-coverts white; central tail-feathers blackish-brown, the lateral grey with white edges; wing-coverts grey-brown with darker centres and pale or whitish edges; the greater coverts with broader white edges; primary coverts and primaries blackish, the former narrowly edged whitish, the latter white-shafted, but the bases and tips of the shafts of the second and third primaries brownish; outer secondaries nearly all white with dark centres; sides of head, chin, throat and upper breast white streaked with blackish, often suffused with rufous, especially on the chin and fore-neck; centre of breast and abdomen blackish-brown; flanks, axillaries and under tail-coverts white, the last streaked with black.

Colours of soft parts.—Iris hazel or dark brown; bill and legs black.

Measurements.—Wing 104 to 120 mm.; tail 46 to 51 mm.; tarsus about 21 to 26 mm.; culmen 25 to 31 mm.

In Winter.—Upper plumage ashy-grey, the feathers of the head with darker brown streaks, the remainder with dark shaft-stripes only; innermost secondaries darker and browner with narrow whitish or rufescent-white edges; lores, sides of the head, neck and fore-neck fulvescent-grey with dark brown streaks, remainder of lower plumage white.

Young Birds have the upper plumage like the adult in breeding plumage but are much less richly rufous and have more white edges to the feathers of the mantle, the fore-neck is dull pale rufous and the underparts are white, more or less spotted with brown.

Young in down.—Centre of crown and centre of back deep chestnut surrounded by black; a black line through they eye, becoming chestnut posteriorly; a narrow line on the wings black; a black patch on each side of the europygium and a line across joining the black round the centre of the back, the down ending in little whitish tufts; rest of upper surface rich rufous-buff; below whitish-buff, the chin, throat and breast darker.

Distribution.—Europe, from Lapland to Eastern Russia, but replaced in the south during the breeding season by *E. a. schinzii.* (Northern Asia). In India, it is common during the winter in Sind and the north-west, extending as far south as the Deccan and east to Nepal, Eastern Bengal and Assam, though it is rare east of the United Provinces. All our specimens from India appear to be typical *E. a. alpina* and not the more tawny-headed *schinzii.* I cannot separate *E. a. pusilla*, the supposed Eastern and Indian form, from the typical bird. Within Indian limits this little wader is very common on the coasts of north-western India. Inland it is very much less common, though during migration it occurs on some of the rivers and on some of the larger lakes. In eastern India it is certainly sometimes to be seen on the great tidal rivers running into the Bay of Bengal and I have myself seen them on the Brahmaputra about 700 miles from the sea. On the Megna, Hoogli and Ganges they cannot be said to be rare and I have seen them haunting mud flats in company with other small waders, sometimes singly or in pairs, or, very occasionally, in small flocks. Ticehurst (*Ibis* 1924, p. 111) says that the Dunlin is exceedingly abundant in Karachi harbour and the creeks and mud flats of the coast line, but that he seldom saw it inland, except on the Indus.

Nidification.—The Dunlin breeds over the whole of the northern portions of its summer haunts from the Scandinavian countries to somewhere in central Siberia. We found them breeding on tundras on the shores of the Arctic Ocean in Lapland, where very frequently nesting sites were chosen quite close to the houses of a tiny fishing village. One, indeed, I found within 50 yards of the nearest house. They breed both on the low-lying swamps close to the sea coast and on the wide tundra far inland, and Dr.

Hortling and I were surprised to find birds breeding in swamps almost in the centre of Finland. I do not think they ever breed at any great distance from water and always in swampy ground and in open country. Even in Finland and Lapland, where so many waders breed on the outskirts of forests or even some distance inside them, the Dunlin never seems to choose a site for its nest in any marsh on which trees are growing. The nest itself is a very neat little cup of grass bents, either made from the actual living, growing grass or from bents which have been gathered by the bird for the purpose. This latter is especially the case when, as sometimes occurs, the birds choose a site among the roots of a juniper or creeping birch clump in which to build. Generally the nest is placed in grass, while a very favourite position is the summit of some small hummock in a sea of swamp. Here among the grass and moss on the top, the nest is carefully tucked away and concealed. Another favourite position is in the small patches of short thin grass growing on dry ground in what is otherwise all marsh land. In this, frequently, concealment is very indifferent and I have seen nests in which the eggs were perfectly visible from a distance of some yards. On the other hand, when the bird breeds in thick cover, as it often does, the nest is extremely difficult to find and sometimes even when the bird has risen almost at my feet I have taken some minutes to discover its home.

The eggs are, of course, always four in number and are of the usual rather long peg-top shape, like those of other small waders. They vary very greatly in colour, the majority having the ground of pale yellowish or olive stone and being densely marked with small and large blotches of colour varying from bright reddish brown to deep umber brown. In most eggs the impression given is that of rather greenish eggs, the ground colour almost invariably showing up well and the blotches being most numerous at the larger end and rather scanty elsewhere. The secondary markings are all lavender or rather inky grey but are, as a rule, inconspicuous. Occasionally the blotches at the larger end are much bigger than elsewhere and form indefinite groups, the marks coalescing and running into one another. A few eggs are stippled rather than blotched and in these the stipples are generally numerous all over the egg, a little larger and denser at the big end. The general impression of these eggs is rather bright reddish brown. In a collection of eggs belonging to Dr. Wasenius there are two very beautiful clutches of the Dunlin, one of which is of four eggs, pure pale blue, while in the second clutch the eggs have the same ground with a few faint lavender marks. In Witherby's *Handbook of Birds*, p. 571, Jourdain gives the following measurements for 100 eggs: average 34.3 by 24.4, maxima *38.3* by 25.4 and 35.0 by *25.8*, minima *31.3* by 23.2 and 32.0 by *23.0*. Jourdain also draws attention to the fact that the markings very often show signs of rotary movement in the oviduct. His remarks, it should be noted, refer to both the British form, *schinzii* and to the true *alpina*.

In the more southern portions of the breeding area the Dunlin

commences to breed about the middle of May and in very warm seasons a week earlier than this, while in the extreme north I have taken perfectly fresh eggs up to the end of June.

At the same time it is extraordinary in what difficult circumstances these little birds sometimes breed. A few years ago, when on the shores of the Arctic Ocean, I found a nest of this bird containing four hard-set eggs in the first week of June. At the time it was snowing hard, a bitter east wind was blowing and all round the nest were several inches of snow, yet the eggs seemed to be in no way damaged. The little bird sat until I almost touched it and returned to the nest within a minute of my leaving it. As is well-known, the Dunlin often feigns injury or sickness in order to attract intruders from its nest. Recently it has been asserted that this action is merely due to a sudden fright and uncontrolled emotion and, therefore, quite purposeless. I cannot, however, for a moment believe this to be the case. I remember on one occasion Dr. Hortling and I found a Dunlin's nest in very open ground in a swamp. The bird sat on the nest until we were within two or three yards of it, when she flew quickly off. Then, seeing that we had noticed her, she at once fell to the ground, fluttering her wings as if seriously injured. As we approached she dragged herself away fluttering and continued to perform her antics so long as we followed her. However, directly we returned to the nest, she at once got up and flew perfectly soundly back to within a few yards of us, and seeing she had attracted our attention, she again went through her tricks. She repeated her attempts to attract us away three or four times and it was perfectly obvious that she carried them out with the intention of making us leave the nest and her precious eggs. At other times when disturbed from her nest the Dunlin leaps into flight, starting with three or four twists and little zig-zag motions, then mounting high in the air, she clears off altogether.

Both sexes take part in incubation and I think it is very probable that the male bird does the greater part of incubation by day. Certainly of those we got or shot during the day time at least 2 out of 3 were males. According to Evans the period of incubation is 22 days.

General Habits.—In western India, the first Dunlins arrive in the country very early in August and most of these are birds which have bred very early. They are generally in worn breeding dress and are undoubtedly adults and, according to Ticehurst, the younger birds arrive later. In Siam and Bengal I think few birds arrive in India before the end of August and these seem to be indifferently adults in worn breeding plumage and young birds. From these provinces most birds have left by the end of April, very few being seen in the first few days of May. In Sind, however, the majority seem to depart in the second and third week of May. Ticehurst saw a few as late as the 5th June and he remarks 'odd ones over-summer and unlike most waders are in summer dress'. Those, however, which wintered in eastern India left either in winter plumage or had only partially acquired breeding plumage. In their actions and feeding there is little to distin-

guish Dunlins from other small waders. They may be seen scurrying hither and thither over their feeding ground, generally the coast line or muddy banks of rivers. They feed on the same sort of food, i.e., mollusca, snails, slugs, worms, sand-hoppers and all kinds of insects. They sometimes eat small seeds and various forms of grain, but this is perhaps exceptional. When at rest, the Dunlin sits with its head tucked close into its shoulders but, for the most part, it is constantly running rapidly from one place to another hunting for its food. In winter, its ordinary call note is a prolonged 'wee wee-e-et' and it is said also to have a soft 'purr'. These are the only notes we hear in India. In the breeding season, however, it has a very pretty little trilling love song which it utters fluttering in the air or, very occasionally, when perched on a high post or a bare limb of a tree.

Although its flight is rapid and well sustained, it is usually easy to approach, it cannot be placed among true sporting birds. The only specimen I have ever eaten was very plump and in taste like a dry snipe.

(The end).

REVISION OF
THE FLORA OF THE BOMBAY PRESIDENCY.

BY

THE LATE E. BLATTER, S.J., PH.D., F.L.S.

PART XXVII.

(*Continued from page 779 of volume* XXXVII).

CYPERACEAE.

BY

THE LATE E. BLATTER, S.J., PH.D., F.L.S., and C. MCCANN, F.L.S.

20. CAREX Linn. (Cke. ii, 905).

Species 900.—Cosmopolitan, especially temperate, in marshes.

Cooke gives 3 species: *C. condensata*, *C. mercarensis* and *C. speciosa*. *C. condensata* has to be changed into *C. cruciata* and *C. mercarensis* will be put as var. under *C. Lindleyana*.

We add 9 more species which were not known to Cooke as occurring in the Presidency.

Key:

A. Style 2-fid
  Terminal spike female at base, male at top
    1. Spikes short, ovoid or oblong
      a. Utricle many-nerved on both faces ... 1. *C. nubigena.*
      b. Utricle nerveless on plane face ... 2. *C. foliosa.*
    2. Spikes linear-cylindric, peduncled, inflorescence loose ... ... 3. *C. brunnea.*

B. Style 3-fid
  I. Terminal spike female at base, male at top, or when spikes very numerous, many male at top, terminal spike sometimes wholly male
    1. Spikes short, very numerous
      a. Nut fitting utricle pretty closely, ellipsoid, substipitate, pyramidal at top; style-base scarcely dilated ... 4. *C. cruciata.*
      b. Nut ovate-elliptic. Style-base slightly thickened ... ... 5. *C. filicina.*
      c. Nut ovate, short-stipitate ... 6. *C. Lindleyana.*
    2. Spikes long-cylindric ... ... 7. *C. baccans.*
    3. Not to be placed among a and b ... 8. *C. speciosa.*

  II. Terminal spike wholly male. Spikes not very numerous, occasionally 12. Utricle hairy or minutely setulose ... ...
    1. Glaucous ... ... 9. *C. glauca.*

2. Not glaucous
   a. Rhizome long, creeping, many stolons 10. *C. setigera.*
   b. Rhizome short, stems caespitose ... 11. *C. Halleriana.*
   c. Rhizome creeping, stems caespitose ... 12. *C. breviculmis.*

1. **Carex nubigena** D. Don in Trans. Linn. Soc. xiv (1825) 326; C. B. Clarke in Hook. f. F.B.I. vi, 702.

Description: Stems 15-75 cm., caespitose on a tough perennial rhizome; rhizome short or 0. Leaves long, narrow, incurved when dry. Inflorescence from 1.3 cm., dense, ovoid, to 12.5 cm., linear, interrupted, greenish becoming brown; lowest bract usually much overtopping inflorescence, sometimes not 6 mm. Spikes 5 mm., dense, ovoid, androgynous; male at top forming an ovoid oblong or interrupted linear compound spike. Female glumes ovate, scarcely apiculate, shorter than utricle. Anthers linear-oblong, very shortly apiculate. Style 2-fid, occasionally 3-fid. Utricle small, of thin texture, plano-convex, green or pale brown, 9-11-nerved on plane face, 11-15 on convex; small red glands frequently scattered all over utricle between the nerves; beak not winged, commonly quite smooth, not rarely scabrid, sometimes almost hispid. Nut hardly ½ utricle, compressed, obtuse, brown.

Locality: *Sind*: (Pinwill ex Clarke).

Distribution: Himalaya, 5-13,000 ft., Khasia to Muneypoor, 4-600 ft., Sind, Nilgiris, Anamalais, Pulney Hills, Ceylon, Afghanistan, Malaya, China, Japan.

2. **Carex foliosa** D. Don in Trans. Linn. Soc. xiv (1825) 327.—*C. Wallichiana* Spreng. Syst. iii (1826) 812 (*non* Presc.).—*C. muricata* var. *foliosa* C. B. Clarke in Hook. f. F.B.I. vi, 703.

Description: Rhizome short, woody, caespitose. Stems up to 90 cm., strict, firm, triquetrous, very scabrous above. Leaves shorter or longer, 3-5 mm. broad, flat, sheaths thickened at the mouth, not longer than the base of the lamina; ligule broader than long, with a brown margin. Spikelets numerous, many-flowered, crowded towards the apex, the lower ones remote, compound, often setaceous-bracteate, forming an interrupted, 3-9 cm. long spike. Glumes ovate, acuminate-aristate, pale with a green keel. Utricle much exceeding the glumes, 3.5 mm. long, pale green, glabrous, almost nerveless, ovate or ovate-lanceolate below, narrowed into a slender 2-fid beak, margins scaberulous. Nut oval, filling the utricle. Base of style thickened. Stigmas 2.

Locality: *Sind*: (Pinwill ex Clarke).

Distribution: Himalaya, 6,000-9,000 ft., from Kashmir to Nepal and Sikkim, Khasia, Sind, Nilgiris, Pulney Hills, 6,500-8,000 ft.

3. **Carex brunnea** Thunb. Fl. Japon (1784) 38; C. B. Clarke in Hook. f. F.B.I. vi, 705.—*Ibidem* synonyms.

Description: Rhizome oblique. Stems 30-90 cm., slender. Leaves ⅓ stem, 4 mm. broad. Cauline sheaths somewhat distant, lowest usually above middle of plant. Inflorescence long, lax. Peduncles often several from each sheath, lowest exsert 2.5-20 cm., slender, nodding, sometimes bearing 3-10 spikes, often 2 or more from one sheath. Spikes 3.8-5 cm., slender. Male glumes obtusely triangular, reddish brown; female glumes ovate, acute or scarcely mucronate, apex triangular, ultimately ferruginous-brown. Utricle rather small, not parallel-sided, 9-15-nerved on each face, minutely hairy on nerves, suddenly narrowed into a beak about half utricle; beak linear, shortly bifid, lobes erect; ripe utricle brown ellipsoid, much flattened, pilose (in Indian examples), striate. Nut much flattened, ovoid, suddenly narrowed at top, yellow-brown, nearly filling utricle except beak. Exsert portion of stigmas about as long as utricle. Style 2-fid, about as long as beak, slightly swollen, contracted at base; branches long, very brown.

Locality: *Sind*: (Pinwill ex Clarke).

Distribution: W. Himalaya, Assam, Burma, Muneypore, Sind, Nilgiris, Anamalais, Pulneys, Tinnevelly Hills.—Ceylon, Mascarene Isles, Mauritius, China, Japan, Korea, Australia, Philippines, Sandwich Islands, Yunnan.

4. **Carex cruciata** Wahlenb. in Vet.-Akad. Handl. Stockholm xxiv (1803) 149; C. B. Clarke in Hook. f. F.B.I. vi, 715.—*C. condensata* Nees in Wight Contr. (1834) 123 (*excl. var.*); C. B. Clarke l.c.

Description: Rhizome woody horizontal, over 15 cm. long. Culms 60-90 cm. tall. Leaves linear acuminate, 30-60 cm. long, 6-13 mm. wide, margins at tip scabrid. Panicles narrow, strict, erect, 5 cm. long, branches short pubescent. Spikelets 2.5-6 mm. long; flowers few. Glume ovate acuminate or mucronate, keeled. Utricle longer, ovate, yellow, orange, or olive-coloured, ribbed, beak long curved, margins scabrid entire. Nut ovate-elliptic.

Locality: *Sind*: (Pinwill ex Cooke).—*W. Ghats*: Mahableshwar (Dalzell & Gibson ex Cooke).—Not seen by Cooke.

Distribution: Himalaya from Kumaon to Sikkim and Bhutan, Khasia, Tenasserim and Malacca, Central Provinces, Sind.—Tonkin, China, Yunnan, Formosa, Madagascar.

5. **Carex filicina** Nees in Wight Contr. (1834) 126; C. B. Clarke in Hook. f. F.B.I. vi, 717.—*C. nilagirica* Hochst. ex Steud. Synops. *Cypera*. (1855) 207.

Description: Glabrous, except the minutely hairy panicle branches. Rhizome very woody, short (no long stolons). Stems 30-90 cm. Leaves very long, often as long as stems, flat, thin. Inflorescence elongate of distant pyramidal compound panicles. Panicle usually more than half stem; partial panicles often very dense; branches much slenderer than in *C. cruciata* or *condensata*. Spikes small often very many on slender branches not congested. Female glumes commonly small, not (or scarcely) mucronate, ovate, as long as utricle (without beak), sometimes elliptic-lanceolate, glabrous or minutely hairy, chestnut in South Indian form, often paler or ferruginous in the Khasian. Style 3-fid. Utricle 2.5 mm., trigonous, fitting the black nut very closely, about 15-nerved, glabrous, tapering or suddenly narrowed at top; beak oblique, curved, subrecurved or straight, more or less scabrous-hairy, mouth very small, shortly bifid.

Var. **meiogyna** Strachey Cat. Pl. Kumaon (1854) 73.

Description: Glumes smallish, ovate, mostly paler. Utricles broader, beak shorter.

Locality: *Sind*: (Pinwill ex Clarke).

Var. **minor** Boott Illustr. iii (1862) 106, t. 317-18.

Description: Leaves narrower, inflorescence paniculate, depauperate. Utricles shorter. Othrwise like *meiogyna*.

Locality: *Sind*: (Pinwill ex Clarke).

Distribution of species: Nilgiris, Pulneys, throughout the Himalayas, Assam, Burma.—Ceylon, Tonkin, China, Yunnan, Java, Borneo, Sumatra.

6. **Carex Lindleyana** Nees in Wight Contr. (1834) 121; C. B. Clarke in Hook. f. F.B.I. vi, 721.

Var. **major** Fischer in Flora Madras ix (1931) 1687.—*C. mercarensis* Hochst ex Steud. Syn. Pl. Cyper. (1855) 194, var. *major* Steud. l.c.; Cke. ii, 906.

Description: Cke. l.c.

Locality: Without locality (Dalzell !).—*Konkan*: Ambewadi (Patwardhan 1104 !).—*W. Ghats*: Matheran (Herb. St. X.C. C20 ! C21 !, H.E.B.B. !); Mahableshwar (Ezekiel !, Woodrow 79 ex Cooke), Bombay Point (Fernandez C152 !), Fitzgerald Ghat, 3 miles from Mahableshwar (Blatter C154 !, McCann !); Panchgani (Talbot 4475 !, Blatter & Hallberg B1737 !); common (McCann !); Londa (Woodrow ex Cooke); Castle Rock, 1,700 ft., rainfall 200 in. (Herb. Sedgwick & Bell 5552 !, McCann C23 !, Gammie 15765 ! 15887 !).—*S. M. Country*: Belgaum (Hole 23 !).—*N. Kanara*: Arbail Ghat, 2,000 ft., rainfall 200 in. (Sedgwick 3129 !); Anmod, forest, 2,000 ft., rainfall 200 in. (Sedgwick 3453 !); Devimane Ghat (Hallberg & McCann C24 !); Kilkund (Talbot 3531 !); Yellapur (Talbot 667 !); Jugglepet (Talbot 1564 !); Armhi Ghat (Talbot 1321 !); Guddehulli peak, Karwar (Bell 7737 !).

Flowering & fruiting: March 1918 (Matheran); March 1919 (Castle Rock); March 17th 1917 (Mahableshwar); September 21st 1883 (Yellapur); September 25th 1884 (Yellapur); October 1920 (Panchgani); October 10th 1885 (Armhi Ghat); October 11th 1928 (Mahableshwar); October 28th 1902 (Castle Rock);

October 29th (Panchgani); November 1910 (Kanara District); November 1917 (Arbail Ghat); November 1929 (Fitzgerald Ghat); November 14th 1885 (Jugglepet); December 1917 (Anmod); December 1920 (Guddehulli); December 1st 1895 (Nilkund); December 12th 1896 (Matheran).

Field notes: A monsoon species in deciduous forest, but it lasts longer in evergreens, practically throughout the year. The flowering commences about the middle of September.

A weak looking sedge growing in tufts under the shade of trees. The rhizomes are black and woody. They persist for years.

Distribution: Deccan, S. M. Country, N. Kanara, Mercara, Attapadi, Anamalais, Pulney Hills, High Wavy Mountain, 5,000-8,000 ft.

7. **Carex baccans** Nees in Wight Contr. (1834) 122; C. B. Clarke in Hook. f. F.B.I. vi, 722.

Description: Robust, glabrous. Rhizome very stout, short, horizontal, with approximate stems. Stems often 0.9 m. Leaves often overtopping inflorescence, 8 mm. broad. Inflorescence 30-45 by 7.5-10 cm. (small examples occur); bracts much overtopping inflorescence; lowest peduncle usually distant, exsert; partial panicle often 5-12.5 by 2.5-5 cm. Spikes 3.8 by 0.6 cm., male portion dark red when young. Female glumes ovate or obovate, acute or obtuse, often cuspidate sometimes (even in large examples) muticous. Utricle in the fully developed state 2.5 mm. diameter, nearly globose, wall thickened more or less succulent, red, nearly glabrous rarely obscurely scabrous-hairy near top; utricles in the half-ripe state usually olivaceous with more prominent recurved beak. Nut ellipsoid-trigonous, pyramidal at both ends, black, much narrower than utricle; style-base linear.

Locality: Without locality (Dalzell !).—*W. Ghats*: Mahableshwar (Herb. Sedgwick & Bell 7285 !, Blatter 1594 !).

Flowering & fruiting: November 1919 (Mahableshwar); November 1929 (Mahableshwar).

Distribution: Nepal, Sikkim, Khasia and Naga Hills, Upper Burma, Ganjam District, W. Ghats of Madras Presidency, 3,000-7,000 ft., Mysore.—Ceylon, Cochin-China, Malay Archipelago, Philippines, Formosa, South China.

8. **Carex speciosa** Kunth Enum. ii (1837) 504; Cke. ii, 906.—For synonyms see C. B. Clarke in Hook. f. F.B.I. vi, 729.

Description: Cke. l.c.

Locality: *N. Kanara*: Hulgi, in mixed forest (Talbot 3142 !, 2 sheets, Talbot 2282 ex Cooke).

Flowering & fruiting: April 20th and 28th 1894 (Hulgi).

Distribution: Throughout India.—Tonkin, Borneo.

9. **Carex glauca** Murr. Prodr, Stirp. Gotting. (1770) 76; Kükenth. in Engler's Pflanzenr. iv, 20 (1909) 416.—*C. flacca* Schreb. Spic. Fl. Lips. Append. (1771) 669.

Description: Rhizome producing long stolons. Culm 20-45 cm. high, rigid, obsoletely triquetrous, smooth, leafy below. Leaves shorter than the culm, 2-4 mm. broad, with the margins revolute, keeled, glaucous, patent, the lower sheaths brown-purple. Spikelets 4-5, the upper 2-3 (rarely 1) male, cylindrical, the lower 2-3 female (at the apex often male), thinly cylindrical, 2-3 cm. long, dense-flowered, more or less pedunculate, erect or finally pendulous, peduncles setaceous, scabrous. Bracts foliaceous, the lowest often exceeding the inflorescence, sometimes shortly sheathing. Female glumes ovate or oblong-ovate, slightly acute, black-brown, often very shortly mucronate. Utricles slightly exceeding the glumes, finally membranous, ovate-ellipsoid or subobovate, subinflated trigonous, 3 mm. long, straw-coloured-greenish, nerveless except 2 marginal nerves, truncate at base, on the margins above sometimes sparingly scabrous, beak very short, truncate, often curved outwardly. Nut obovate, trigonous. Stigmas 3.

Var. **cuspidata** (Host.) Aschers. *et* Graebner Synops. Mitteleurop. Fl. ii, 2 (1902-03) 138.—*C. cuspidata* Host. Gram. Austr. i (1801) 71, t. 97.—*C. flacca* C. B. Clarke in Hook. f. F.B.I. vi, 742.

Description: Female spikelets slender, pedunculate, erect. Male glumes narrowed, female mucronate or aristate. Utricles shorter than the glumes, ellipsoid, olivaceous, acute at apex.

Locality: *Sind*: (Pinwill ex Clarke).

Distribution of var.: Mediterranean, North Africa, Western Asia, Orient, Sind.

10. **Carex setigera** D. Don in Trans. Linn. Soc. xiv (1824) 330; C. B. Clarke in Hook. f. F.B.I. vi, 743.

Description: Glabrous, stoloniferous. Rhizome long, creeping, 2.5 mm. diameter. Stems 30-60 cm. Leaves nearly as long as stem, 3-4 mm. broad. Spikes 4-8, 3.8-5 cm. long, cylindric, distant, terminal 1 (or 2-3) male, lowest female, peduncled erect, female up to 8 mm. broad; spike often male at top, rather lax, often interrupted at base. Female glumes as long as utricle, with a bristle much overtopping utricle in the standard form (which is often small or disappears) usually with bright brown sides and scarious margins (but the colour of male and female glumes varies widely). Utricles 2-5.2 mm.; ovoid, hispid, suddenly narrowed into small oblong notched beak, brown-green, very hispid, nerveless, strongly 2-edged, the concave face only obscurely ridged by the angle of nut, margined by the incurved edges. Nut ellipsoid, trigonous, narrowed much at base, dark brown; style slender, glabrous, 3-fid, base not dilated; exsert part of branches about as long as utricle.

Var. **Schlagintweitiana** (Boeck) Kükenth. in Engl. Pflanzenr. iv, 20 (1909) 419.—*C. Schlagintweitiana* Boeck. Cyp. Nov. i (1888) 48; C. B. Clarke l.c.

Description: Leaves narrower. Spikelets narrower, often shorter. Female glumes mostly only mucronate. Utricles small, with a shorter beak.

Locality: *Sind*: (Pinwill ex Clarke).

Distribution of var.: Yarkand, W. Himalaya, Yunnan, Sind.

11. **Carex Halleriana** Asso Synops. Stirp. Arag. (1779) 133. t. 9, fig. 2; C. B. Clarke in Hook. f. F.B.I. vi, 745.—*Ibidem* synonyms.

Description: Rhizome stout, densely caespitose, many-branched. Culm 10-40 cm. high, weak, obsoletely triquetrous, upwards scabrous. Leaves shorter than the culm, 1.5-2.5 mm. broad, with the margins revolute, scabrous above, bright green, subrigid, lower sheaths brown. Spikelets 3-6, the terminal one male, linear-oblong, 1-1.5 cm. long, sessile or shortly pedunculate, lateral ones 2-5 female (at the apex often male), ovate, few and subdensely flowered, 8-10 mm. long, the upper 1-3 spikelets male, approximate, subsessile, the lower 1-2 very long—unequally pedunculate, capillary peduncles decumbent, sparsely scabrous. Bracts scale-like, amplexicaul, the lowest shortly setaceous. Female glumes lanceolate ovate, muticous or mucronate, chestnut or copper-coloured, the margins white-hyaline, on the back greenish 3-nerved. Utricles longer than the glumes, finally obliquely patent, membranous, obovate-oblong, trigonous, 4-5 mm. long, brownish green, minutely and sparsely pubescent, many-costate, long-attenuate into a winged stalk. Nut tightly enclosed oblong-obovate, stipitate; base of style thickened. Stigmas 3.

Locality: *Sind*: (Pinwill ex Clarke).

Distribution: Mediterranean, Europe, N. Africa, W. Asia, Orient, Sind.

12. **Carex breviculmis** R. Br. Prodr. Nov. Holl. (1810) 242; C. B. Clarke in Hook. f. F.B.I. vi, 746.—*C. Royleana* Nees ex Wight Contr. (1834) 127.

Description: Slender, glabrous, except utricles. Rhizome creeping. Stems caespitose, 10-40 cm. Leaves often $\frac{2}{3}$ stem, 3 mm. broad, flat. Spikes 2-5, oblong, rather small, usually approximate, subsessile; terminal one male pale, lowest female sometimes 15 cm. distant on 5 cm. peduncle, with 8-14 utricles. Female ripe spikes 8 by 4 mm. Female glumes with long bristle much exceeding utricles. Style 3-fid, at base dilated green, sometimes forming a button as in the nuts of *Eleocharis*. Utricle small, ellipsoid, trigonous, slightly hairy, tip pyramidal.

Locality: *Sind*: (Pinwill ex Clarke).

Distribution: N.-W. Himalaya, Assam, Khasia Hills, Nilgiris, Pulneys.—Tonkin, China, Japan, Formosa, Korea, Australia, New Zealand.

THE CYPERACEAE IN COOKE AND THE PRESENT PAPER.

		Sp. in Cooke.	Sp. in this paper.	
1.	*Kyllinga*	2	5	
2.	*Pycreus*	9*	10	*under *Cyperus*.
3.	*Juncellus*	3*	3	*under *Cyperus*.
4.	*Cyperus*	27	35	
5.	*Mariscus*	5*	6	*under *Cyperus*.
6.	*Courtoisia*	1	1	
7.	*Eleocharis*	7	8	
8.	*Fimbristylis*	17	18	
9.	*Bulbostylis*	1	3	
10.	*Scirpus*	11	13	
11.	*Eriophorum*	1	1	
12.	*Fuirena*	4	4	
13.	*Lipocarpha*	...	2	
14.	*Rhyncospora*	3	2	
15.	*Schoenus*	...	1	
16.	*Remirea*	1	1	
17.	*Hypolytrum*	1	1	
18.	*Scleria*	6	8	
19.	*Diplacrum*	...	1	
20.	*Carex*	3	12	
	Total ...	102	135	

We have combined *Cyperus tegetiformis* and *C. tegetum* with *C. corymbosus* Rottb.; *C. tuberosus* with *C. rotundus; Scirpus Michelianus* with *Juncellus pygmaeus;* and *Scirpus Kysoor* with *S. grossus.*

We have excluded from the Bombay Flora *Rhyncospora Wallichiana.*

DISTRIBUTION OF GENERA IN THE PRESIDENCY.

	No. of species in the Presy.	Sind.	Cutch.	Kathiawar.	Gujerat.	Khandesh.	Deccan.	Konkan.	W. Ghats.	S.M. Country.	N. Kanara.
1. *Kyllinga* ...	5	1	...	...	1	...	2	4	5	4	4
2. *Pycreus* ...	10	3	1	...	3	1	5	8	9	6	8
3. *Juncellus* ...	3	2	1	1	3	2	3	3	1	3	2
4. *Cyperus* ...	35	17	9	1	16	5	13	21	17	18	22
5. *Mariscus* ...	6	1	...	...	...	..	1	3	5	3	3
6. *Courtoisia* ...	1	...	...	...	...	...	...	1	...	1	1
7. *Eleocharis* ...	8	4	...	...	3	1	1	5	4	5	6
8. *Fimbristylis* ...	18	10	1	1	12	4	9	15	12	15	16
9. *Bulbostylis* ...	3	1	...	...	1	...	1	...	1	2	3
10. *Scirpus* ...	13	10	2	1	8	2	4	6	5	5	8
11. *Eriophorum* ...	1	1	...	...	1	1	1	...	...	...	...
12. *Fuirena* ...	4	...	...	1	1	1	2	1	3	2	3
13. *Lipocarpha* ...	2	...	...	...	...	...	...	...	1	1	2
14. *Rhyncospora* ...	2	...	..	...	...	...	1	1	2	1	2
15. *Schoenus* ...	1	1	...	...	...	...	...	...	...	...	...
16. *Remirea* ...	1	...	...	...	...	...	...	...	...	...	1
17. *Hypolytrum* ...	1	...	...	...	...	...	...	...	1	...	1
18. *Scleria* ...	8	...	...	...	1	...	1	5	3	2	7
19. *Diplacrum* ...	1	...	...	..	...	...	...	...	...	...	1
20. *Carex* ...	12	9	...	...	...	...	...	1	3	1	2
Total ...	135	60	14	5	50	17	44	74	72	69	92

DISTRIBUTION OF SPECIES IN THE PRESIDENCY.

	Sind.	Cutch.	Kathiawar.	Gujerat.	Khandesh.	Deccan.	Konkan.	W. Ghats.	S. M. Country.	N. Kanara.	
KYLLINGA											
1. *triceps* ...	*	...	...	*	...	*	*	*	*	...	Conctd. in the Deccan.
2. *melanosperma* ...	...	...	...	...	...	...	...	*	*	*	
3. *squamulata* ...	...	...	...	...	...	...	*	*	...	*	
4. *brevitolia* ...	...	.	...	...	...	*	*	*	*	*	
5. *monocephala* ...	...	...	...	...	...	.	*	*	*	*	Conctd. in the Konkan.
Total ...	1	...	...	1	...	2	4	5	4	4	
PYCREUS											
1. *flavescens* ...	...	...	...	...	...	*	...	*	...	*	
2. *latespicatus* ...	...	...	...	...	...	*	*	*	*	*	Conctd. in the Deccan.
3. *malabaricus* ...	.	...	...	...	...	...	...	*	...	*	
4. *sanguinolentus* ...	*	...	...	...	...	*	*	*	*	*	Conctd. in the Deccan.
5. *puncticulatus* ...	...	...	...	...	...	...	*	*	...	...	
6. *albomarginatus* ...	...	...	...	...	...	...	*	*	*	*	Conctd. in the Konkan.
7. *globosus* ...	...	...	...	*	*	*	*	*	*	*	Conctd. in the Deccan.
8. *odoratus* ...	*	*	...	*	...	...	*	*	*	*	Conctd. in N. Kanara.
9. *hyalinus* ...	...	...	...	..	...	...	*	...	...	...	
10. *pumilus* ...	*	...	...	*	...	*	*	*	*	*	
Total ...	...	1	...	3	1	5	8	9	6	8	
JUNCELLUS											
1. *alopecuroides* ...	*	...	...	*	...	*	*	...	*	*	
2. *Michelianus* ...	...	*	...	*	*	*	*	*	*	*	
3. *laevigatus* ...	*	...	*	*	*	*	*	...	*	...	
Total ...	2	1	1	3	2	3	3	1	3	2	

DISTRIBUTION OF SPECIES IN THE PRESIDENCY.—*contd.*

—	Sind.	Cutch.	Kathiawar.	Gujerat.	Khandesh.	Deccan.	Konkan.	W. Ghats.	S. M. Country.	N. Kanara.	—
CYPERUS.											
1. *cephalotes* ...	...	.	...	...	...	...	...	...	...	*	
2 *platystylis* ...	...	...	...	...	...	...	...	...	...	*	
3. *castaneus* ...	...	...	...	...	...	...	*	...	...	...	
4. *uncinatus* ...	*	...	...	...	...	...	...	*	...	.	
5. *Meeboldii* ...	...	...	...	...	...	.	...	...	*	...	
6. *difformis* ...	...	...	...	*	*	*	*	*	*	*	Conctd. in the Deccan.
7. *pulcherrimus* ...	*	...	...	...	...	...	...	...	...	...	
8. *flavidus* ...	...	*	...	*	...	*	*	*	*	*	Conctd. in the Deccan and Konkan.
9. *Haspan* ...	...	*	...	...	...	...	*	*	...	*	Conctd. in N. Kanara.
10. *Teneriffae* ...	...	...	...	..	...	*	...	..	*	...	
11. *niveus* ...	*	...	...	*	...	...	...	...	...	...	
12. *leucocephalus* ...	...	...	...	...	...	...	*	...	*	*	
13. *arenarius* ...	*	*	...	*	...	...	*	...	...	*	
14. *conglomeratus* ...	*	*	*	*	...	...	*	...	...	...	
15. *effusus* ...	*	...	...	...	...	...	...	...	...	...	
16. *Atkinsoni* ...	*	...	...	...	...	...	...	...	...	...	
17. *compressus* ...	*	...	..	*	...	*	*	*	*	*	Conctd. in the Deccan and N. Kanara.
18. *glaber* ...	*	...	...	...	...	...	...	...	...	...	
19. *aristatus* ...	...	...	...	*	...	*	*	*	*	*	Conctd. in the Deccan chiefly and N. Kanara.
20. *Iria* ...	*	*	...	*	...	*	*	*	*	*	Conctd. in the Deccan and Konkan.
21. *distans* ...	...	...	...	...	...	...	...	*	*	*	
22. *nutans* ...	...	...	...	...	...	*	*	*	*	*	
23. *eleusinoides* ...	*	...	...	*	*	*	*	*	*	*	Conctd. in the Deccan.
24. *pilosus* ...	...	...	...	...	...	...	*	*	*	*	
25. *procerus* ...	...	...	...	...	...	...	...	...	*	...	
26. *malaccensis* ...	*	...	...	...	...	..	*	...	...	*	
27. *bulbosus* ...	*	*	...	*	...	*	*	...	...	*	
28. *articulatus* ...	...	...	...	*	...	...	*	*	*	*	
29. *corymbosus* ...	*	*	...	*	...	*	*	*	*	*	Conctd. in the Deccan and Konkan.
30. *macer* ...	..	...	...	*	*	...	...	*	...	*	
31. *rotundus* ...	*	*	...	*	*	*	*	*	*	...	Conctd. in Sind, Deccan and Konkan.
32. *esculentus* ...	...	...	...	*	...	...	.	...	...	...	
33. *stoloniferus* ...	*	*	...	...	...	...	*	...	...	*	
34. *exaltatus* ...	*	...	...	*	*	*	*	*	*	*	
35. *digitatus* ...	.	...	...	...	...	*	*	*	*	*	
Total ...	17	9	1	16	5	13	21	17	18	22	
MARISCUS											
1. *blatteri* ...	...	...	...	...	...	...	...	*	...	...	
2. *bulbosus* ...	...	...	...	...	...	...	...	...	*	*	
3. *paniceus* ...	...	...	..	.	...	...	*	*	*	*	
4. *konkanensis* ...	...	...	...	...	...	*	...	*	...	...	
5. *pennatus* ...	...	...	...	...	.	...	*	*	...	...	Concentrated in the Konkan.
6. *compactus* ...	*	...	...	...	...	...	*	*	*	*	
Total ...	1	...	...	...	...	1	3	5	3	3	

DISTRIBUTION OF SPECIES IN THE PRESIDENCY.—*contd.*

—	Sind.	Cutch.	Kathiawar.	Gujerat.	Khandesh.	Deccan.	Konkan.	W. Ghats.	S.M. Country.	N. Kanara.	—
COURTOISIA											
1. *cyperoides* ...	...	...	...	...	...	...	*	...	*	*	Concentrated in the S. M. Country.
Total ...	...	...	...	...	...	...	1	...	1	1	
ELEOCHARIS											
1. *plantaginea* ...	*	...	...	*	...	...	*	...	*	*	
2. *fistulosa* ...	...	...	...	...	...	...	..	*	*	*	
3. *spiralis* ...	...	...	...	...	...	...	*	...	...	*	
4. *atropurpurea* ...	*	..	..	*	...	...	*	*	...	*	
5. *capitata* ...	*	...	...	*	*	*	*	*	*	*	Concentrated in the Deccan and Konkan.
6. *palustris* ...	*	...	..	...	...	...	...	...	...	...	
7. *chaetaria* ...	...	...	...	...	...	...	*	*	*	*	Concentrated in N. Kanara.
8. *congesta* ...	...	...	...	...	...	...	...	..	*	...	
Total ...	4	...	...	3	1	1	5	4	5	6	
FIMBRISTYLIS											
1. *tetragona* R. Br.	...	...	..	...	...	*	*	*	*	*	
2. *acuminata* ...	...	...	...	..	...	...	...	...	*	*	
3. *polytrichoides* ...	...	...	...	...	...	...	*	...	...	*	Concentrated in the Konkan.
4. *schoenoides* ...	*	...	...	*	...	...	*	*	*	*	
5. *argentea* ...	...	...	...	*	...	...	...	...	...	*	
6. *aestivalis* ...	...	...	...	...	...	*	*	*	*	*	
7. *dichotoma* ...	*	...	*	*	*	*	*	*	*	*	Concentrated in Gujerat, Khandesh and Deccan.
8. *spathacea* ...	*	...	..	*	...	...	*	...	*	*	Concentrated in the Konkan.
9. *annua* var. *diphylla* ...	*	...	..	*	...	*	*	*	*	*	Concentrated in the Deccan.
10. *ferruginea* ...	*	*	...	*	*	*	*	*	*	*	Concentrated in the Deccan and N. Kanara.
11. *digitata* ...	...	...	...	...	...	...	*	*	*	*	
12. *Woodrowii* ...	...	...	...	..	...	...	*	*	...	*	
13. *tenera* ...	...	...	...	*	*	*	*	*	*	...	Concentrated in the Konkan.
14. *junciformis* ...	*	..	...	*	..	*	*	...	*	*	Concentrated in the Konkan.
15. *miliacea* ...	*	...	...	*	...	...	*	*	*	*	
16. *quinquangularis*	*	..	...	*	...	...	*	*	*	*	
17. *complanata* ...	*	...	...	*	*	*	...	*	*	...	
18. *monostachya* ...	*	...	...	*	...	*	*	...	*	*	
Total ...	10	1	1	12	4	9	15	12	15	16	

DISTRIBUTION OF SPECIES IN THE PRESIDENCY.—*contd.*

	Sind.	Cutch.	Kathiawar.	Gujerat.	Khandesh.	Deccan.	Konkan.	W. Ghats.	S. M. Country.	N. Kanara.	
BULBOSTYLIS											
1. *barbata*	*	...	...	*	...	*	...		*	*	
2. *capillaris* var. *trifida*	..	...	...	...	...	...	...	*	*	*	
3. *puberula*	...	...	...	...	...	...	...	...	...	*	
Total ...	1	...	...	1	...	1	...	1	2	3	
SCIRPUS											
1. *Holoschoenus* ...	*	..	...	...	...	..	...	...	.	...	
2. *supinus* ...	*	...	...	*	...	*	*	*	*	*	Conctd. in the Deccan.
3. *articulatus* .	*	...	*	*	...	...	*	*	*	*	Conctd. in the Konkan.
4. *quinquefarius* ..	*	*	...	*	...	*	*	...	...	...	
5. *corymbosus* ...	*	...	...	*	*	...	..	*	...	...	
6. *maritimus* ...	*	*	...	*	*	*	*	...	*	*	Conctd. on the sea coasts.
7. *triqueter* ...	*	...	..	...	...	..	...	...	...	...	
8. *grossus* ..	*	...	...	...	...	*	*	...	...	...	Conctd. in the Konkan.
9. *littoralis* ...	*	...	*	*	...	...	...	...	...	*	Conctd. in Gujerat.
10. *mucronatus* ...	...	...	...	*	...	...	*	*	*	*	
11. *erectus* ...	...	..	...	...	..	...	...	...	*	*	
12. *kyllingoides* ...	..	...	...	...	...	...	...	...	...	*	
13. *squarrosus* ...	*	...	*	*	..	...	...	*	...	*	
Total ...	10	2	1	8	2	4	6	5	5	8	
ERIOPHORUM											
1. *comosum* ...	*	...	...	*	*	*	...	...	...	...	
Total ...	1	...	...	1	1	1	...	...	...	...	
FUIRENA											
1. *wallichiana* ...	...	..	...	...	*	*	...	*	*	..	Concentrated in the Deccan.
2. *ciliaris* ...	...	...	*	*	...	...	*	*	*	*	Concentrated in the Konkan and S.M.C.
3 *uncinata* ...	...	...	...	...	...	...	...	...	...	*	
4. *umbellata* ..	...	...	...	.	...	*	...	*	..	*	Concentrated in the S. M. Country.
Total ...	...	...	1	1	1	2	1	3	2	3	
LIPOCARPHA											
1. *argentea* ...	...	...	.	...	...	...	...	*	..	*	
2. *triceps* ...	..	...	...	...	...	...		..	*	*	
Total ...	...	...	...	...	...	..	...	1	1	2	

DISTRIBUTION OF SPECIES IN THE PRESIDENCY.—*contd.*

—	Sind.	Cutch.	Kathiawar.	Gujerat.	Khandesh.	Deccan.	Konkan.	W. Ghats.	S.M. Country.	N. Kanara.	—
RHYNCOSPORA											
1. *wightiana* ...	..	...	...	...	...	*	*	*	...	*	Concentrated in the Deccan and Konkan.
2. *corymbosa* ...	...	...	...	...	...	...	...	*	*[1]	*	[1] Locality doubtful.
Total ...	...	...	..		..	1	1	2	1	2	
SCHOENUS											
1. *nigricans* ...	*	..	...	...	...	...	...	...	...	...	
Total ...	1	...	.	...	...	...	..	...	..	...	
REMIREA											
1. *maritima* ...	.	...	...	..	...	...	...	...	...	*	
Total ...	...	..	...	...	...	...	...	...	...	1	
HYPOLYTRUM											
1. *latifolium* ...	...	..	...	...	...	.	...	*	...	*	
Total ...	...	...	...	..	...	...	...	1	..	1	
SCLERIA											
1. *tesselata* ...	...	..	...	...	...	...	*	...	...	*	Conctd. in N. Kanara.
2. *lithosperma* ...	...	..	...	...	...	...	*	*	...	*	
3. *corymbosa* ...	...	...	...	...	...	..	...	...	*	...	Conctd. in N. Kanara.
4. *hebecarpa* ...	...	...	...	...	...	..	*	...	...	*	
5. *poaeformis* ...	..	.	...	...	...	...	...	...	...	*	
6. *cochinchinensis.* ...	...	...	...	...	...	...	...	*	...	*	
7. *annularis* ..	...	...	...	..	...	...	*	...	...	*	
8. *Stocksiana* ...	...	...	...	*	...	*	*	*	*	*	
Total ...	..	...	...	1	...	1	5	3	2	7	
DIPLACRUM											
1. *caricinum* ...	...	...	...	...	...	...	...	...	...	*	
Total ...	...	...	...	..	...	...	...	...	...	1	

DISTRIBUTION OF SPECIES IN THE PRESIDENCY.—*contd.*

	Sind.	Cutch.	Kathiawar.	Gujerat.	Khandesh.	Deccan.	Konkan.	W. Ghats.	S. M. Country.	N. Kanara.	
CAREX											
1 *nubigena* ...	*	...	...	...	...	...	...	...	...	...	
2. *foliosa* ...	*	...	...	...	...	...	...	...	...	...	
3. *brunnea* ...	*	...	...	...	...	...	...	...	...	...	
4. *cruciata* ...	*	...	..	...	..	...	...	*	...	...	
5. *filicina* var. *minor et* var. *meiogyna* ...	*	..	...	...	...	...	...	...	...	...	
6. *Lindleyana* var. *major* ...	...	...	...	...	...	...	*	*	*	*	Conctd. in the Deccan and N. Kanara.
7. *baccans* ...	...	...	...	...	...	...	...	*	...	...	
8. *speciosa* ...	...	...	...	...	...	...	...	...	...	*	
9. *glauca* var. *cuspidata* ...	*	...	...	...	...	...	...	...	...	...	
10. *setigera* var. *Schlagintweitina* ...	*	...	...	...	...	...	...	...	...	...	
11. *Halleriana* ...	*	...	...	...	...	...	...	...	...	...	
12. *breviculmis* ...	*	...	...	...	...	...	...	...	...	...	
Total ...	9	...	...	...	...	...	1	3	1	2	

SOME NOTES ON THE GEOGRAPHICAL DISTRIBUTION OF THE CYPERACEAE IN THE PRESIDENCY.

Of the 135 species recorded so far from the Presidency 16 are peculiar to Sind, viz.:

Cyperus pulcherrimus Willd.
Cyperus effusus Rottb.
Cyperus Atkinsoni C. B. Clarke
Cyperus glaber Linn.

Eleocharis palustris R. Br.
Scirpus Holoschoenus Linn.
Scirpus triqueter Linn.
Schoenus nigricans Linn.

Carex nubigena D. Don.
Carex foliosa D. Don.
Carex brunnea Thunb.
Carex filicina Nees var. *meiogyna* et var. *minor*.
Carex glauca var. *cuspidata*.
Carex setigera var. *Schlagintweitiana*.
Carex Halleriana Asso.
Carex breviculmis R. Br.

One to Gujerat: *Cyperus esculentus* Linn.
2 to the Konkan: *Pycreus hyalinus* Don, and *Cyperus castaneus* Willd.
2 to the W. Ghats: *Mariscus Blatteri* McCann, and *Carex baccans* Nees.
3 to the Southern Maratha Country: *Cyperus Meeboldii* Kükenthal, *Eleocharis congesta* Don, and *Scleria corymbosa* Roxb., and 9 to N. Kanara.

Cyperus cephalotes Vahl.
Cyperus platystylis R. Br.
Bulbostylis puberula Kunth.
Scirpus kyllingoides Boeck.
Fuirena uncinata Kunth.

Remirea maritima Aubl.
Scleria poaeformis Retz.
Diplacrum caricinum R. Br.
Carex speciosa Kunth.

How are we to explain this peculiar distribution? The large number of species peculiar to Sind may be accounted for by the presence of the Indus River as it may be responsible for the introduction of some of the species from the northern part of India. But this alone does not seem to account for this

distribution. Sind is the wintering ground for many wild fowl such as ducks and waders, some of which never descend lower down into the Presidency. A great number of these migrant birds come from the North, North-West and West and in so doing bring along the seed of various plants in the mud that frequently adheres to their bills, feet and plumage, and have in this way added to our Cyperaceous flora especially as this order comprises plants that are inhabitants of marshes and stretches of water. For example *Cyperus glaber* is so far only recorded from Sind, the distribution is given as 'Westwards to Sicily'; similarly *C. effusus* has also only been recorded from Sind the distribution being given as westwards to N. Africa. Is it not possible that these two species were introduced by aquatic birds? Some of these records are over thirty years old and it appears strange that since that time (Pinwill) they have not been obtained again. It seems very probable that these were just chance specimens which happened to survive for a short time in the new locality and then died out. Sind is poorly explored, and this may also account for the absence of further data.

Khandesh is in a similar position as Kathiawar, but for the few records places are unexplored from a Cyperologist's point of view as is easily seen from the records we have at hand. Fr. Blatter collected in Cutch during the winter of 1907-08, but as these plants are so much dependent on water it was an unsuitable time. Kathiawar is almost a blank; there is not the slightest doubt that it still remains a closed book as there has never been any serious collecting done in the area.

Khandesh is in a similar position as Kathiawar but for the few records from the West and along the Tapti River made by Fr. Blatter, the late Prof. Hallberg and Mr. McCann during the winters of 1916-17 and 1918-19. Both these trips were of short duration and the time was most unsuitable for *Cyperaceae*. We are sure that with the further investigation of these areas the distribution of some of the species will be extended.

Coming down to the W. Ghats 2 of the 3 species are from the Mahableshwar ranges, whose heavy rainfall might well be compared with that of N. Kanara. The demarcation between the W. Ghats and the Konkan is very vague and it is difficult to attribute this or that species to one or the other of these areas. Two species are peculiar to the Konkan. The Southern Maratha Country yields three species peculiar to it but as there is no saying where the S. M. Country ends and Kanara begins perhaps a few more species might as well be added to those already mentioned for Kanara.

How are we to account for the large number of species peculiar to Kanara? Kanara was well explored by Talbot, whose large collections testify to this, and also by subsequent collectors. This may be one of the reasons but the Konkan has also been well explored and yet the number is small compared with that for Kanara. It is possibly due to the heavy rainfall Kanara receives and also to the dense evergreen forests. The Nilgiris hold some of the species and perhaps also the adjoining country which is still unexplored. Is it possible that some of these plants have come with wandering animals, such as elephants, bison and deer? But we know very little on this point to draw any definite conclusions. Most of the species that occur in Kanara are forest species, *Remirea* alone occurring on the sandy seacoast.

(To be continued).

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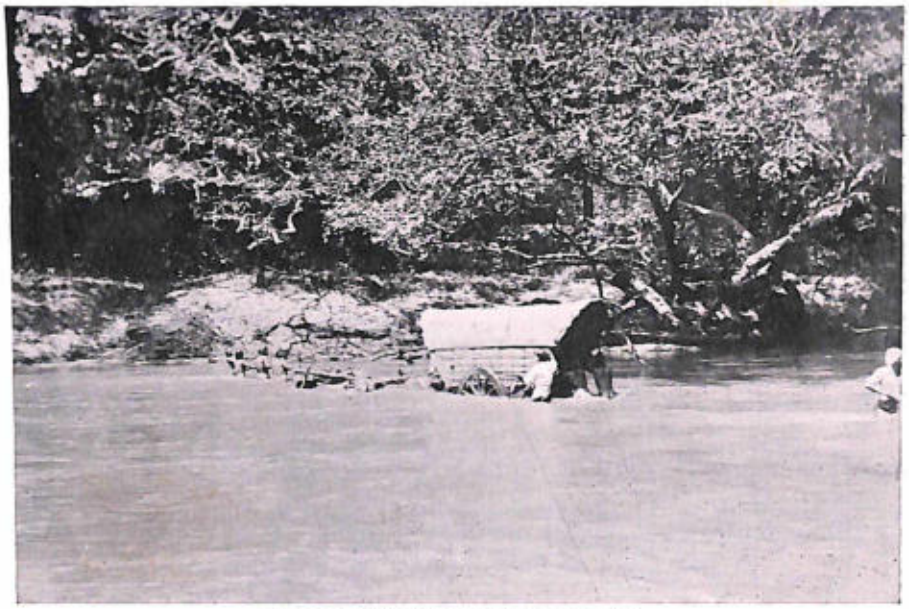
(To be continued).



Crossing the Menik Ganga, Ceylon.

Spotted Deer (*Axis axis*) at margin of forest.

A GAME SANCTUARY IN CEYLON.

BY

LIEUT.-COL. R. W. BURTON,

Indian Army (retired).

(With a plate).

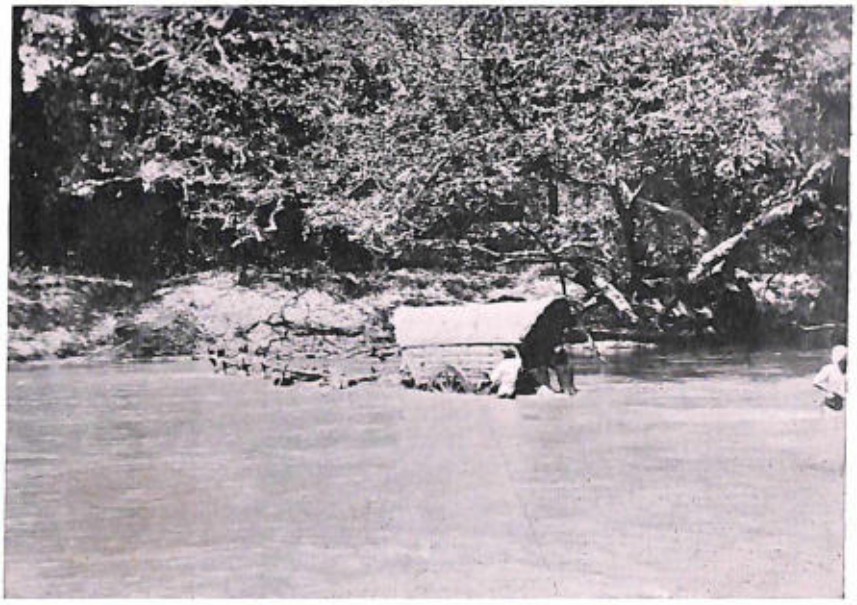
It was with the kind permission of the Minister for Agriculture and Lands, and in the company of the Government Agent for the Southern Province (Mr. J. D. Brown), and his Assistant for the District of Hambantota (Mr. F. L. Leach), that the writer had the privilege to visit the Yala Game Sanctuary in February 1933.

This Sanctuary came into existence in February 1899, the area set apart being bounded on the east by the Kumbukkan-oya, on the south by the sea, the west by the river Menik Ganga, and the north by a demarcation line cleared through the jungle. In length about 16 miles by 10 miles wide the Sanctuary has an area of approximately 170 square miles which is under the supervision of a Ranger, with twelve watchers under his control. The area is further protected on three sides by Reserved Forests patrolled by game watchers.

Having been furnished with letters of introduction to the President and to the Honorary Secretary of the Ceylon Game and Fauna Protection Society, also to Mr A.C.Tutein-Nolthenius, F.Z.S., of the Executive Committee, by our late Honorary Secretary Sir Reginald Spence, it was under very favourable auspices that the visit was made.

On the evening of the 9th February 1933 we all met together at the Tissamaharama Rest House, the party of five including Mr. A. R. Hughes, ornithologist and expert amateur photographer. The care with which all Rest Houses in Ceylon are provided with a mosquito-proof room and a full supply of mosquito curtains was much appreciated, for we all enjoyed a good night's rest undisturbed by the singing whine of the myriads of these pests for which Tissa is famed.

On our way through the Palatupane Reserve on the following day the country was verdant from the recent unusually prolonged monsoon rains; many pretty wild flowers bordered the paths; and the sweet scent of flowering shrubs and creepers was in the air. A skylark enchanted us with his aërial song so reminiscent of the home land; in and around the open sheets of water were a number of birds—redshanks, sandpipers, stints, godwits, golden-plover, cattle egrets, terns, painted storks, and many others. Green bee-eaters hawked the air 'chasing the purple butterflies', a pied crested cuckoo was seen jumping after insects in the grass; while kites and hawks circled in the clear blue sky. All nature seemed to smile in approval of our peaceful mission.



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A few miles beyond the Palatupane Rest House we emerged into a large open space in the centre of which was a pool of water. The scene was reminiscent of an African game country. Buffalo and spotted deer lay peacefully about or grazed on the short herbage; sambur rested or fed along the edge of the forest; sounders of wild pig rooted in the grass; and some jackals were observed returning from a drink at the pool.

These jackals were fine dark-coloured animals, seemingly larger and more handsome than the Indian species. There are no wild dogs in Ceylon. Jackals have been seen hunting in packs to pull down the smaller deer, but now the animals took no notice of them.

Other similar scenes were observed further on—good augury for what we would enjoy in the Sanctuary—and as the sun sank behind the sand-hills separating us from the sea, we arrived at the Yala Ranger's Bungalow on the bank of the Menik Ganga. Soon the full moon soared above the trees on the further side to flood our camp with its welcome light; a sambur hind voiced her alarm at the scent of a prowling leopard; the nasal croaking of the barbets was unceasing.

We looked apprehensively upon the turbid flood of the river rolling toward the sea and wondered whether the carts could make the crossing in the morning. All of us, men and cattle alike, had earned a night's rest after the long march of some twenty-six miles, and lulled by the ceaseless surge of the waves upon the shore were soon soundly sleeping.

The camp was early astir as the crossing of the river might be a lengthy business, and there would be twelve miles of mostly sandy track before tents could be pitched.

The ford is about half a mile up stream. One of the game watchers entered the water, found the end of the wire hawser broken by some tree trunk hurled down the river in a recent flood. Gaining the further bank he quickly procured a length of liana, strong as any hawser, to make the necessary connection to the other side. It was a relief to see that the depth would not prevent the passage of the carts.

We all stripped and crossed to watch the baggage being carried over on the men's heads. Then the empty carts were driven down the steep bank to be hauled through the strong stream by the diminutive bullocks sometimes swimming and sometimes wading and all the time encouraged by much noise as is the custom in the East. Safely across, the seven carts were soon again plodding along beneath the shade of the fringe of tall evergreen trees bordering the river banks to emerge under a hot sun into the more or less open country which was our first view of the Sanctuary, and through which the cart track leads to Pahala Potana.

Roaming about in advance of the carts, I failed to get a snapshot of a bull buffalo in a wallow; but by careful stalking managed to photograph a small herd feeding close to a reedy pool, obtaining a second 'shot' as they moved off.

The open spaces were alive with parties of buffalo, while all along the fringe of the jungle were groups of spotted deer. The

animals merely moved quietly away on the appearance of the long string of carts and men; but only with a telephoto lens would it have been possible to obtain effective pictures. We hoped that those taken by Hughes would prove successful.

The heat was considerable, and as the day drew to a close these spaces would be covered with animals. Pig we saw, and signs of elephant; the sambur were all in the shade of the trees along the sand dunes, the area in the Sanctuary to which many of them are particularly partial.

At the place where we stopped for lunch was the skull of a long-defunct elephant which afforded a seat, and by the side of the path were the leg bones which had been used as a fire-place. During the wanderings in these jungles the remains of four elephants were seen, but of buffalo and other animals no bones were found.

It was when the shadows were fast lengthening that we neared the camping ground. Many herds of spotted deer scattered before the rumbling carts, and on emerging from the forest we gazed in astonishment at the scene before us. All about the plain, through the mile-long length of which meanders a running stream, were scattered herds of buffalo; along the further side were large herds and parties of spotted deer numbering perhaps seven hundred, while within the fringes of the forest were more animals. Probably there were a thousand deer, but the failing light prevented a more accurate computation. Sounders of pig wandered about, the tiny porkers scuttling to and fro, fencing with one another on their hind legs, and generally behaving like playful puppies; jackals roamed unconcernedly among the beasts whose bones they would some day pick when they fell victims to leopards or disease, for in Ceylon there are no vultures to dispute the feast.

It was only the centre part of the long plain which was in view as the ends curled out of sight. It was realized that the stock of game is very abundant, and this was confirmed by similar sights observed by the Government Agent, and other members of the party, who went further east on the following day to Uda Gajabawa and other open spaces. Everywhere roamed herds of buffalo and deer.

The night passed quietly. There were no alarm calls of sambur or spotted deer, no trumpetings of elephant, yet leopard and elephant must have been in the vicinity. The hours of darkness seemed to brood and be expectant, for one peoples the night with one's fancies. Lying awake I called to mind many forest vigils when the quiet of the jungle had sunk to night's absolute stillness and the ear was cocked to hear the sound of heavy footsteps. I could picture the deer moving fearfully, peering, sniffing, treading delicately lest a twig should snap, a branch rustle, ears moving to catch every little sound. Later in the night there would be absolute stillness, but in the early hours there is always the noise of little things on the prowl; quick stealthy noises, little rustlings and patterings, little sudden pouncings. Ah! the delight of those forest vigils! And so came dreamless sleep.

It was most interesting the next morning to see the cameras

set for flashlight pictures, and I learnt from Hughes much of this fascinating pursuit. On our way to find a suitable 'run' a fine leopard was seen lapping at a pool. Buffalo and deer stared, but little perturbed by the unwonted sight of human beings. Were the Sanctuary more accessible to visitors— as it will be some day when it is a National Park—the animals would be less timid, for with familiarity would come the confidence born of the knowledge that man is not an enemy.

On our way back to camp a fine bull was spied in his wallow in the open plain. Stooping low and stepping warily in light rubber shoes I got to within fifteen feet of the recumbent form. He was not asleep, but did not hear the slight click of the shutter. The film wound off ready for another 'shot', a small piece of mud roused the old fellow from his siesta. Up he got with astounding agility for so bulky an animal and was twenty yards away in a second. Then he wheeled around to stare at the intruder and afforded a second 'shot'. Now Hughes advanced on him to take his picture with the telephoto lens, but even then he only walked slowly off to stand disgruntled with the stolid bovine stare of his species. On return to camp one of the servants, hearing the story related, enquired, 'Did he come to bite you?' at which there was much amusement.

In the open plain were two big bulls who appeared to have fixed a bend in the stream as the dividing line of each other's territory. One of them had his left horn broken off about a foot from the tip, no doubt in one of the terrific battles they have from time to time. They appeared to be surly brutes, and the Ranger begged me not to try and take a close 'shot', so I left them alone.

In the evening another camera was set for flashlight, and on return of the Government Agent at sunset we heard of all that had been observed towards the eastern boundary. Tutein-Nolthenius, keen naturalist and expert collector of the smaller mammals, related much that was of interest concerning the fauna of Ceylon. Recently he had obtained most rare and interesting specimens of wild cats in the coastal area near Hambantota.

As the shades of evening deepened animals began to come into the open, but not in such numbers as were seen on our arrival. No doubt the sight of the tents, the voices of the camp, and the light of the fires had scared the beasts accustomed to solitude. Watching with field-glasses, until the darkness descended and night stretched its smooth veil over the magic scene, it could be observed that more and more shadowy forms were advancing into the open. The buffaloes loomed as large as elephants.

It was dark now and the sky unclouded, but soon the round disc of the moon appeared, the trees threw queer shadows, and the camp fires blazing up spouted arrows of gold and scarlet against the dark background of the forest.

When living close to Nature one is early awake. The gentle wind that ushers in the dawn of day came scent-laden with the freshness of the blossoming forest trees and the camp was quickly astir. On this, the last day of our stay, three of us were to go to a small range of hills some five miles to the north, while Messrs.

Brown and Hughes stayed to attend to camera work and complete the list of birds observed in the Sanctuary, which is appended to this article.

That expedition through the forest has unforgettable memories. Of all the party—which included the Ranger and four of his watchers—none had been there, and it seems that no one has visited those hills for many years.

About a mile from camp we came upon the Nabbadagas Wewa, a reed-bordered tank in which grow a number of thorn and other trees. Here was a colony of snowy white egrets, while in and around this jungle lake were many species of birds: a paradise this for the ornithologist and the wild life photographer for here we saw sambur and spotted deer, and all the animals of the Sanctuary visit the place.

Proceeding on our way a herd of spotted deer afforded a photograph; then a fine bull buffalo, stalked to within fifteen feet, was alarmed by some movement of one of the party peering behind to see the fun and away in that unexpectedly rapid manner before his picture could be taken; for it is not easy to retain such quick-moving objects in the small view-finder.

More buffalo were seen, also pig and deer, and a cow elephant moved quickly across an open space. I was just too late to 'shoot' her before she gained the shade of a tree, so we all sat down and watched, not twenty yards away, secure from detection as the steady wind was in our favour. A herd was somewhere about but time did not permit of delay so its picture is not with me.

More animals we met, and a leopard was seen by one of the men. Then came the struggle up the steep hillside through the weeds and undergrowth and the finding of a game track to take us to the summit of Mandagala, as the hill is called. The highest point is 523 feet above sea level and on it is a cairn of stones erected by the Survey Department.

Seated on the top of the hill we had a grand view of all the Sanctuary. The long plain of Pahala Potana, the line of the sea coast, the Little Basses light-house, a great passenger liner bound for Colombo, the trees marking the course of the Kumbukkan-oya to the east, the darker greenery marking the extensive but now empty bed of the Mandagala tank just below the hill, and the similar indication to the west of the Athurumithuru Wewa the drainage from which forms the streams which run to the Pahala Potana; all these we saw, and also a few small open spaces in which were buffalo in their wallows and sambur and deer in the shade of trees.

One's thought naturally turned to the needs of the Sanctuary. These will be ably set out in the Official Report of the Government Agent but can be confidently anticipated to include:—an improvement to the water supply of the area by repair of such tank embankments as can be carried out; the opening up of the country by means of 'rides', after the manner of fire lines of Indian forests, to facilitate proper watching and inspection; the clearing of more open spaces to improve the grazing.

The thirty-six years of protection has evidently permitted the animals to greatly increase, and now they ask for more grazing and more water so that they can spread more widely through the forests. The photographs taken show how poor in condition are the buffalo in comparison to the wild animals of the Central Provinces of India, and this at a season when they have had the fortune of a North-East Monsoon far in excess of the average and extended much beyond the usual date. In this, the dry zone, where the rainfall is but 20 to 50 inches, the animals must suffer much during the hot months from overcrowding at the water pools.

Reluctantly we made our way down the hill to retrace our steps to camp. All the time we saw animals, and close to the egret pond there was a crocodile basking on the grass. He wasn't as fast asleep as he seemed, for he made off just as he had been satisfactorily posed in the view-finder. The two surly buffaloes were still eyeing one another; a fine bull was making affectionate demonstrations to a ponderous spouse at the lower end of the plain; a large snake swished away in the grass; and then, wading through the warm waters of the stream, we arrived at camp as the declining sun turned the leaves of the trees into glowing copper. So ended a glorious day and we slept wrapped in the mystery of the tropic night.

When leaving the camp next day on our return journey, a herd of some twenty elephants was close to the path. The cover was too thick to admit of an attempt at photography so two of our party crept quite close to see the shadowy forms of big mothers and small calves. Further on many deer were viewed, and an elephant hurried to cover on the approach of the carts to the lake and open space of Uda Potana. It was sad to know that all the water we were seeing would be soon dried up, and the herds forced to congregate along the banks of the river the waters of which would have dwindled to scattered pools.

The crossing of the Menik Ganga presented no difficulty. Then came lunch and a bathe and so to camp, where the buffalo grazed unconcerned a couple of hundred yards away.

The morning of the 15th February I set out in company with Mr. Brown to work through the jungle and see the Elephant Rock, that conspicuous landmark so well known to many Ceylon sportsmen, and with this further insight into the forests of Ceylon my most interesting visit came to an end.

With all the memories of those five days, followed by three days at the Wirawila Bird Sanctuary in the charming company of Mr. Charles Northway, renowned elephant hunter and sportsman (since deceased and greatly regretted by all who knew him), and our xpert ornithologist Mr. Hughes who drove me the 167 miles to Colombo along the picturesque coast road, there is a deep debt of gratitude to all those who made the visit possible and so enjoyable in every way.

I have had the good fortune to see a number of game preserves and sanctuaries. The Pidoung Sanctuary in Upper Burma; the wonderful herds of swamp deer in the Kheri forests of Oudh; the Sanctuary in the Orrcha State where you may almost stroke the

noses of the sambur; that now unique herd of some 5,000 antelope in the Punjab; the hundreds of Urial in the preserve of a Punjab Landowner; the elephant and bison around the Peryar Lake in Travancore; but nowhere have I seen so much varied wild life in its natural state as in the Yala Sanctuary.

I shall live in hope of an opportunity to again see, not the Yala Sanctuary, but the YALA NATIONAL PARK renowned through the East for the wonders of the Wild Life it contains.

Since the above was written some commencement has been made as to clearing inspection paths, but without an allotment of funds by the Ceylon Government the increased grazing and water which the herds require cannot be provided and the unfortunate animals must inevitably greatly suffer during those blazing months when the whole country is parched and dry. It is not difficult to picture to oneself the terrible sufferings of the thronging herds—insufficient water, no grazing; horrible.

For thirty-six years the Yala Sanctuary animals have multiplied in peaceful security and it is now the obvious duty of the Government to allot funds for the conservation of the poor beasts which, in the absence of speedy action, had better have been left to the more tender mercies of the meat poachers and the purveyors of hides!

THE VERNAY SCIENTIFIC SURVEY OF THE EASTERN GHATS.

(Ornithological Section).

BY

Hugh Whistler, m.b.o.u., assisted by N. B. Kinnear, m.b.o.u.

Part XI.

(*Continued from page 763 of volume* xxxvii).

Dichoceros bicornis (Linnæus).

Buceros bicornis Linn., Syst. Nat., ed. x, vol. i (1758), p. 104—China *errore*, Travancore.

The Great Hornbill is not found on the eastern side of the Presidency. On the west it is well distributed. William Davison states that he found it not uncommon in the forests of the Wynaad, once seeing as many as 50 together in the cardamom forests of the Peria Ghat. On the slopes of the Nilgiris it is less common. Davison never saw it above Burliar; Jerdon says it occurs up to 5,000 ft. on the eastern slopes; and Mr. Betts tells me that the only one he saw was at 4,500 ft. in the Ochterlony Valley.

Kinloch considered it very common in the Nelliampathies. Fairbank does not seem to have met it in the Palnis but Terry found one in the Pittur Valley.

The Great Hornbill occurs, according to Bourdillon, throughout the whole range in Travancore, a pair or so being found in every glen or valley of any size, the bird being numerous nowhere except perhaps in some of the wilder jungles on the lower slopes of the hills. Here the breeding season is said (Stuart Baker, *Nidification*, iii, 430) to be in February, March and April. According to Bourdillon (*N. & E.*, iii, 70) the old birds pair in January and the young first show themselves in May, shortly before the rains of the S.-W. Monsoon commence.

As no specimens of this and the next species were obtained by the Survey I have not attempted to check their systematic status or possible races.

Hydrocissa coronata (Boddaert).

Buceros coronatus Boddaert, Tabl. Pl. Enlum. (1783), p. 53 based on Pl. Enlum., pl. 873—Philippines *errore*—Malabar.

The Malabar Pied Hornbill was not observed by the Survey and on the eastern side of the Presidency it is only recorded as occurring at Gumsoor in Ganjam (Jerdon, *B. of I.*, i, 246) on the southern boundary of its range in the Chota Nagpur area.

On the west it occurs, according to William Davison, in the evergreen forests of the Wynaad and on the lower slopes of the Nilgiris. Kinloch says that it is very common in the Nelliampathies. In Travancore, according to Ferguson, it is by no means common and is locally distributed in forest land about the foot of the hills.

The breeding season in the Presidency is not recorded.

Tockus birostris (Scopoli).

Buceros birostris Scopoli, Del. Flor. et Faun. Insubr., vol. ii (1786), p. 87—Coromandel.

Specimens collected:—252 ♂ 19-5-29 Shevaroy Hills 4,000 ft.; 289 ♀ 29-5-29 Chitteri Range 2,000 ft.; 732 ♂ imm. 22-8-29 Palkonda Hills 1,000 ft.

Measurements:—

	Bill.[1]	Wing.	Tail.	Tarsus.
♂ ad.	104	209	254	42 mm.
♂ imm.	84	204	246	44 mm.
♀	97	203	252	42.5 mm.

The Common Grey Hornbill has not been recorded in the Presidency north of the Palkonda Hills where the above specimen was obtained by the Survey. Captain Bates informs me that, though he has never seen it in the vicinity of Madras in spite of the well-wooded character of the country, it occurs commonly in the hilly country between Ranipet and Chittoor. There is a specimen from Udayagiri in the Madras Museum.

In Salem District, LaPersonne reports that it was not common in the Shevaroys at 4,000 ft. and that isolated pairs were met in the forest tracts of the Chitteri range. At Kurumbapatti it was fairly common.

On the western side there are only two records. A male, now in the British Museum, was obtained on the Coonoor Ghat by Wardlaw Ramsay on 12 September 1876 and Fairbank obtained a specimen in the avenues of the town of Palni in October 1876.

This species has no races.

Tockus griseus (Latham).

Buceros griseus Latham, Index Orn., vol. i (1790), p. 147—New Holland *errore*—Malabar.

In the Presidency, the Malabar Grey Hornbill is confined to the western side. There, according to William Davison, it occurs throughout the Wynaad and all about the base of the hills though it does not ascend their slopes. In the Nelliampathies it is very common (Kinloch). Fairbank records (*S.F.*, v, 395) that he obtained a specimen from a flock at the eastern base of the Palnis in 1867 though he seemed afterwards to have some doubt about the correctness of his identification. In Travancore, Bourdillon says (*S.F.*, iv, 387) that it is common in heavy jungle from 1,000 ft. to 3,000 ft., but Ferguson says that it is commonest at about 3,000 ft. especially on the Cardamom Hills. The latter shot it as high as 5,000 ft. on the High Range and at 4,000 ft. on Chimunji. In *Nidification*, iii, p. 441, however, Bourdillon is quoted as saying that it is more common below than above 2,000 ft. and actually sometimes occurs and breeds in the plains. The breeding season is said (*loc. cit.*) to be from January to early April, most eggs being laid in February.

Tockus gingalensis Shaw of Ceylon is very close to the Malabar Grey Hornbill, but may perhaps be considered to have attained the rank of a full species.

Upupa epops ceylonensis Reichenbach.

Upupa ceylonensis Reichenbach, Handb. Spec. Orn., Scans. (1851), p. 320—Ceylon.

Specimens collected:—533 ♂ 8-7-29 Vyampatti, Trichinopoly; 573 ♀ 21-7-29 Gingee; 1018 ♂ 19-11-29 Nallamalai Range 2,500 ft.

Measurements:—

	Bill.	Wing.	Tail.	Tarsus.
2 ♂	58.5-60.5	132-132.5	92.5-95	21-21.5 mm.
1 ♀	46	126	87	18.5 mm.

There is little on record about the status of the Hoopoe on the eastern side of the Presidency. With the exception of the above specimens and Mr. LaPersonne's note that in Salem District it ascends the hills to 4,000 ft. and is common on the Chitteri Plateau as well as in the open forests round Tirthamalai, we only know that it is common round Madras (Dewar).

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[1] From base of casque to tip of bill in a straight line.

In Coorg, Mr. Betts considers it uncommon, to be seen occasionally in the cold weather on dry open maidans. William Davison says that it is a not uncommon resident in the Wynaad and on the Nilgiris and their slopes.

Kinloch says that it is uncommon on the Nelliampathies, but may be found in pairs in certain favoured localities. In the Palnis it is generally distributed.

In Travancore, according to Ferguson, it is most common in the drier regions of the south in the low country. He adds that during the hot weather about March it may be found in the hills, even ascending the High Range.

The breeding season in the Nilgiris is said to be in April and May (Cockburn and Davison, *N. & E.*, ii, 334), but Major Phythian-Adams considers that it nests chiefly in February (*Birds of S. India*, p. 188).

All the Hoopoes that I have examined from the Presidency undoubtedly belong to the richly coloured form which is found in Ceylon. This is a small bird. Six specimens from Ceylon (♂ ♀) have wings measuring 120.5-134 mm., and Presidency specimens measure:—11 ♂ wings 131.5-138.5 mm., 5 ♀ wings 123-130 mm. This race Mr. Stuart Baker (*New Fauna*, iv, 312) considers to extend up to about the Deccan and the Bombay Presidency, intergrading on a line roughly about the latitude of Khandesh with a paler and larger race *E. e. orientalis*. This however does not agree with the results of my examination of the group. I can see no constant difference in colour in the resident Hoopoes anywhere from Cape Comorin up to Futtehgarh and Etawah in the Western United Provinces and two birds labelled Naini Tal (but perhaps from the terai below) in the Hume Collection also agree with them. As to size sixteen specimens from Futtehgarh and Etawah in the British Museum measure 119-140 mm., the sexed birds being as follows:—

6 ♂ wings 131-140 mm., 5 ♀ wings 119-132 mm.

In the Punjab grading into the typical race begins. Punjab breeding birds are pale in colour, approaching the typical race, and in size they are small approaching *ceylonensis*. The wings of 5 males in my collection measure 133-143.5 mm., of 3 females 128-130 mm. For this intermediate race—if it is worth recognition—we may use Stuart Baker's name *Upupa epops orientalis* [*Bull., B.O.C.*, xlii (29 November 1921), p. 29] which is merely a new name without description for *Upupa indica* Reichenbach (*Handb. Spec. Orn., Scans.* (1853), p. 320—India). This name I now restrict to Ambala, as Stuart Baker evidently had in mind (*New Fauna*, vol. iv, p. 311). His measurements (wing 128-160 mm., average 135 mm., practically all sexed males have a wing of over 150 mm.) are far too large whether for his or my use of the name and must be due to confusion with immigrants of the typical race. I accept Madame Koslov's view (*Ibis* 1932, p. 589) that *Upupa epops saturata* is not a good race.

[Upupa epops epops Linnæus.

Upupa epops Linnaeus, Syst. Nat., ed. x, vol. i (1758), p. 117—Europe, restricted to Sweden.

Although I have examined no Hoopoe from the Presidency which can be attributed to the typical race there can be little doubt that it occurs as a winter visitor. Ball records it from Jeypore (*S.F.*, vii, 209) and Fairbank definitely states (*S.F.*, v, 399) that he shot a specimen in the Palnis. It has in any case been obtained just on our borders for two specimens were collected by Mr. Salim Ali during the Hyderabad Survey at Paloncha 300 ft. on 21 November 1931.]

Harpactes fasciatus malabaricus (Gould).

Trogon malabaricus Gould, P.Z.S., 1834 (June 9), p. 26—Malabar Coast.

No specimens of the Malabar Trogon were procured by the Survey though Mr. LaPersonne reports that a pair were seen at Sankrametta at 4,000 ft. It had already been reported in this area by Ball who states that he met it on two occasions at Jeypore (*S.F.*, v, 413). Blanford obtained a male north of Ellore on 7 April 1871 and this specimen is in the British Museum.

In the west of the Presidency it is much better known. A pair from Calicut are in the Hume Collection. William Davison says that this Trogon, though nowhere abundant, occurs all through the Wynaad and up the slopes of the Nilgiris to at least 6,500 ft. He observed it in the forests of the Droog, at Coonoor, at Pykarra and Neddivattum. Phythian-Adams (*Birds of S. India*,

p. 190) considers it distinctly uncommon in the Nilgiris, remarking that in the past three years he had only seen one, at Madumalai at 3,000 ft.

Kinloch considered it common in the Nelliampathies. Fairbank met with three in his visit to the Palnis and secured a female at Vengayam (east base) on 28th May and a male at Shemiganur 5,000 ft. in June (*S.F.*, v, 393). The latter is in the British Museum.

In Travancore the Trogon is said to be not uncommon at heights above 1,000 ft. in heavy jungle. A nest with two slightly incubated eggs was obtained by Bourdillon on 22 March 1878 and is described in *S.F.*, vii, p. 172. The breeding season in Travancore is said to extend from February to May (Stuart Baker, *Nidification*, iii, p. 448).

I have not been able to examine any specimens of this Trogon from the Chota Nagpur-Vizagapatam area to verify this subspecific agreement with birds from the Malabar Coast. The typical race from Ceylon is distinctly smaller though the difference in colour is not very marked except in the female. The *New Fauna* does not make it quite clear how far north the Malabar race extends. Although James Davidson does not include it in his list of species from Western Khandesh (*S.F.*, x) there are specimens from Khandesh in both the Tweeddale and Hume Collections and after the date of his list Davidson himself procured a male (now in the British Museum) on 25 April 1886 in the Dangs, Khandesh. Three of these Khandesh specimens are markedly paler than Malabar birds but I am not yet satisfied that the difference is subspecific.

Micropus melba bakeri (Hartert).

Apus melba bakeri Hartert, Nov. Zool., vol. xxxiv (1928), p. 363—Catton Estate, Ceylon.

No specimen of the Alpine Swift was procured or reported by the Survey. It is very difficult to unravel the meaning of the movements of this Swift as we have no accurate conception of the distances it may fly during the day from its roosting places. These may well be very great. There is a well known roosting place—and probably also breeding place—in the cliffs of the great waterfall at Gairsoppa in North Kanara, described by Jerdon (*B. of I.*, i, 176) and by James Davidson (*J.B.N.H.S.*, xii, 47). Here vast numbers arrive nightly and Vidal (*S.F.*, ix, p. 43) suggests, with the greatest probability in my opinion, that this is the roosting place to which the numbers he saw flying southwards every evening in the South Konkan were bound, to which stream are also probably added the birds that pass over Belgaum (Butler, *S.F.*, ix, 379). This roost doubtless draws the birds also from the south as Jerdon remarks that at Tellicherry he frequently saw the birds flying southwards early in the mornings.

All the Presidency birds do not however come from Gairsoppa. H. R. P. Carter saw parties flying from S.-E. to N.-W. near Coimbatore in the early morning of 5 October (*S.F.*, i, 474). William Davison (*S.F.*, x, 347) says that there is apparently a permanent colony at St. Catherine's Falls at Kotagherry[1] and a few are generally to be seen at the falls at Kartary (Karteri) and Pykarra. Terry also suggests that there is a roosting or breeding place on one of the cliffs near Pittur in the Palnis (*S.F.*, x, 469). It is not clear why Kinloch suggests that it is only common during the cold weather on the Nelliampathies, and Ferguson's statement that Alpine Swifts are to be seen in numbers at grass fires on the High Range of Travancore is very inadequate.

Jerdon says that occurring all along the line of the Western Ghats down to Cape Comorin, being at times very abundant on the Nilgiris, this Swift extends its daily flights often to the western seacoast and occasionally eastwards to Salem, Madura and even Madras. He adds that on several occasions he saw large flocks flying eastwards towards the sea from the rocky hills near Madura about sunset. On another occasion he saw an enormous flock flying eastwards from the same range a little south of Madura. The eastward movement at sunset suggests that the big colonies in Ceylon mentioned by Legge and more recently by W. W. A. Phillips (*Ceylon Jour. Science*, Section B, vol. xviii, p. 252) supply their quota of daily visitors to the Presidency.

The small number of Presidency specimens available for examination all belong to the small form separated by Hartert. Eleven specimens from the

[1] According to Mr. Salim Ali who investigated the neighbourhood in 1932, this colony has now disappeared—Eds.

Presidency and Ceylon measure: bill 16-17.5 mm., wing 193-213 mm., tail 70-78.5 mm. as compared with a series from Europe and Upper India wing 206-224.5 mm., tail 68-87 mm. In colour they tend to be darker. The two specimens from Ceylon in the British Museum are very dark indeed, being very close in colour to *M. a. africana*, though this latter usually has the white parts black shafted. The Presidency birds vary in colour and some are no darker than birds from Northern India, but no doubt sun and air pressure bleach the plumage very rapidly. I have at any rate seen no specimens that I could unhesitatingly refer to the typical form south of Belgaum and Raipur.

In *Nidification*, iii, 452 Mr. Stuart Baker can only record reputed breeding places of the Alpine Swift in India. It is well to emphasise therefore that James Davidson took a half-feathered chick, now in the British Museum, at Saptashring, Nassik, on 11 April 1887, while Rattray caught a young bird at a nest near Dunga Gali (*J.B.N.H.S.*, xvi, p. 660).

[**Micropus pacificus leuconyx** (Blyth).

Cypselus leuconyx Blyth, J.A.S.B., vol. xiv (after July), 1845, p. 212—Deccan.

Jerdon states that he obtained a specimen of the White-rumped Swift in the western part of the Deccan and several in Malabar (*B. of I.*, vol. i, p. 180). This record was viewed with some suspicion in both the *Old* and *New Faunas*, but there seems no reason to discredit it in view of John Davidson's experience of its abundance along the coast in North Kanara (*J.B.N.H.S.*, xii, p. 47). It is therefore not unlikely to visit the Presidency and Baker and Inglis (*Birds of S. India*, p. 192), indeed, state that it occurs in the Nilgiris where it may sometimes be seen in company with *M. affinis* and *M. melba*. It should not however be definitely admitted to the Presidency list until specimens have been procured for proper identification.]

Micropus affinis affinis (Gray).

Cypselus affinis Gray, Illustr. Ind. Zool., vol. i (March 1830), pl. 35, fig. 2—Ganges.

Specimens collected:—589 ♂ 23-7-29 Gingee; 811 ♂ 12-9-29, 819 ♀ 27-9-29 Kodur; 872 ♂ 3-10-29 Seschachalam Hills 2,000 ft.

Measurements:—

	Bill.	Wing.	Tail.	Tarsus.
3 ♂	8-10	122-125.5	39-40.5	9 mm.
1 ♀	8.5	123	37.5	— mm.

The Common Indian Swift has not been recorded in the Presidency from anywhere north of the Krishna River. South of that it occurs at Bellary where Captain Horace Terry wrote about a possible connection between its breeding habits and the rains in June and later (*N. & E.*, iii, 23). The above Survey specimens and Dewar's remark that it is not very frequently seen at Madras complete the records for the eastern side.

In Coorg, according to Betts, it is fairly common but its numbers vary greatly. One day it may be seen in large flocks and then it disappears for several weeks. It apparently does not breed in Coorg.

William Davison records (*S.F.*, x, 347) that he saw it at Ootacamund on several occasions in January as also Baker (*Birds of S. India*, p. 192). Betts informs me that in his experience it is not common in the Nilgiris though flocks may be seen occasionally along the edge of the Ghat, especially in the evening.

In the Nelliampathies Kinloch only found it on the Lily downs where it was fairly common (*J.B.N.H.S.*, xxix, 565).

As regards the Palnis, Fairbank tells us that he saw a dozen hawking at 3,000 ft. Terry, however, found it not uncommon at Pittur and Kukal.

In Travancore Ferguson says that he did not meet it himself though his collectors found a colony breeding in January 1903 in the Registrar's office in N. Parur.

The only breeding records for the Presidency are mentioned above and here, as in many other parts of India, there is considerable difficulty in understanding the status of this Swift.

There are few birds which have given more trouble to the taxonomist than this Swift. The questions of the identity of Indian and African birds and of the division of Indian birds into races have been discussed on many occasions. Unfortunately the Survey did not profit by the chance of obtaining a good series in the south from whence birds are most needed.

In the *New Fauna* (vol. iv, pp. 332-335) Stuart Baker divides Indian birds as follows (the wording of the distributions is his):—

Micropus affinis galilejensis—Sind and portions of North-West Provinces.

M. a. affinis—North-West Provinces except along the Afghan and Baluchistan boundaries: Punjab, United Provinces, Bihar, extreme Western Bengal, south to Belgaum, Rajputana, Deccan and Central Provinces.

M. a. nipalensis—Nepal, east to Kamrup in Assam and Bhutan; Bengal, Duars, Orissa to Madras; South Deccan, Southern Bombay Presidency from a little south of Belgaum, Mysore and Travancore.

M. a. subfurcatus—Assam; Chittagong and Comilla in Eastern Bengal, Manipur.

This division is certainly not satisfactory as a whole.

M. a. affinis and *M. a. subfurcatus* are of course two perfectly good and recognisable races and they were in fact regarded as two species in the *Old Fauna* (vol. iii, pp. 168-170). *M. a. subfurcatus* differs from the typical race in having the head, nape, wings and tail and the tail-coverts blacker so that there is less contrast between them and the mantle and back. The tail is longer and distinctly subfurcate.

M. a. galilejensis (type-locality Galilee, Palestine) is very similar to *M. a. affinis* in that the tail is short and there is a distinct contrast between the head and nape and the mantle. It is merely a paler and larger form of it. The palest parts of the head, namely the forehead and a short connected superciliary streak, may become almost white. Wing 132-137.5 mm., tail 40-45.5 mm.

This form is however only recognisable if a series of Palestine birds is compared with a series of South or Central Indian birds. Individual specimens cannot always be recognised and I certainly cannot find any value in attempting to maintain a distinguishable distribution of *M. a. galilejensis* in N.-W. India.

A series from the Punjab in Mr. Waite's and my own collections measures:—

	Wing.	Tail.
9 ♂	125-133.5	39-44
13 ♀	127.5-132.5	38-43

This series is quite indistinguishable in colour from the Survey series and other birds from Central and Southern India. It is however slightly larger. Mr. Bannerman (*Ibis* 1932, p. 687) measures 22 examples of *affinis* as having wings 112-134 mm., seldom over 130 mm. In 11 examples of *affinis* measured from Bombay southwards—leaving aside the Survey series—I find a variation of wing 124-130.5 mm., tail 38-41.5 mm. except for one bird with a wing of 116 mm. We may accept the fact that a slight grading in size from north to south exists but it is not marked enough for racial recognition. Southern Indian birds are as much smaller than Northern Indian birds, as these latter are than true *galilejensis* from Palestine. They are as close in colour to North Indian birds as these latter are to true *galilejensis*. The intergradation between the three areas is complete and it is therefore as illogical in theory as it is in practice valueless to place the division between the two forms somewhere in N.-W. India instead of between Palestine and India. In my opinion *galilejensis* may be removed from the Indian list.

There remains the question of *M. a. nipalensis*. This form is the intermediate between *M. a. affinis* and *M. a. subfurcatus* both in colour and size (Nepal wing 127.5-133 mm., tail 44-48 mm.). It may be recognised if desired in this sense but I find no evidence whatever for including with it birds from Orissa, Deccan and the Madras and Bombay Presidencies, which in my opinion are quite indistinguishable from *M. a. affinis*.

Stuart Baker has however commented on the fact that birds from Ceylon are dark. This is correct. The three specimens in the British Museum are alike in having the head, tail and upper tail-coverts all practically black, almost the same colour as the mantle. In other words they agree in colour

with *subfurcatus* rather than *affinis*, though they differ from the former in their smaller size (wing 128-132.5 mm., tail 42-43.5 mm.). They certainly cannot be included with *M. a. affinis*. It would be dogmatic to pronounce on their identity until a better series is available but the probability is that they are identical with the African *M. a. abessynicus*. The only two specimens which I have examined from Travancore agree with Ceylon birds rather than true *affinis*.

Cypsiurus parvus batassiensis (Griffith).

Cypselus balassiensis (error for *batassiensis*) Griffith in Cuvier's Animal Kingdom, vol. vii (*Aves*, vol. ii), 1829, p. 60—India, restricted to Calcutta.[1]

Specimens collected:—5-6 ♂ ♀ 9-4-29 Kurumbapatti; 1722 ♂ 23-4-30 Jeypore Agency 2,000 ft.

Measurements:—

	Bill.	Wing.	Central tail.	Outer tail.	Tarsus.
2 ♂	7.5-8.5	115-120	30.5-32	60-61	28-30.5 mm.
1 ♀	8	114.5	31	61	28 mm.

The Palm-Swift is doubtless generally distributed throughout the Presidency wherever the *Tad* Palm (*Borassus flabellifer*) is found. Where that may be I find but few details. Jerdon's statement that the Swift is common in the Northern Circars and Carnatic and Dewar's statement that it is very common at Madras furnish the only records for the eastern side in addition to the three Survey specimens.

On the west, Hume stated that he had received a specimen from Sultan's Battery, Wynaad (*S.F.*, x, 348). Fairbank observed it about *Tad* Palms in Periakulam near the eastern base of the Palnis. It is very abundant in South Travancore where its host palm takes the place of the cocoanut in the low country about Cape Comorin, extending in smaller numbers as far north as Trivandrum and Quilon. In this last area it is said to breed from February to June. It is evidently a strictly resident species.

Stuart Baker has divided the Palm-Swift into two Indian races, the typical race in his opinion occurring from Bengal and Upper Assam, through Orissa and Madras to Ceylon, whilst the rest of the Indian range (which as Ticehurst has pointed out, *J.B.N.H.S.*, xxxiv, 473, is more restricted than Stuart Baker realises) is given to a paler race *palmarum*. Specimens of this Swift are not numerous in collections and a large proportion are poor and greasy so that I have had great difficulty in assuring myself that this division is correct. One would hardly expect it. In the first place this Swift is so definitely a parasite[2] on the *Borassus* palm that its limited habitat and the restricted range of the palm in India, which is no doubt based on uniformity of certain ecological conditions, would hardly be expected to allow the formation of races. While, secondly, birds which have a very wide range outside India do not as a rule tend to break up into races in India. In my opinion we can only consider *batassiensis* and *infumatus* as races of the widely spread African Palm-Swift *Cypsiurus parvus*, which is also a parasite on certain palms and particularly on *Borassus flabellifer*.

Chaetura giganteus indicus Hume.

Chaetura indica Hume, Stray Feathers, vol. i (1873), p. 471—Andamans.[3]

The Brown-throated Spine-tail was not reported by the Survey. It is however very numerous in parts of the Presidency, though its movements are not easy to understand.

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[1] Stuart Baker, *New Fauna*, iv, 336.

[2] A slight misuse of this term may perhaps be forgiven. The Swift does not of course feed on the palm.

[3] For the use of the generic name *Chaetura* and not *Hirundapus* see Steinbacher Die Vögel der paläark. Fauna, Ergänzungsband Heft. iv, p. 356. The type-locality for *indica* was restricted to Aneichardi, Travancore by Stuart Baker (*J.B.N.H.S.*, xxviii, p. 322) but unnecessarily as Hume (*loc. cit*) clearly mentions the Andamans as his first locality.

In Coorg it is not very common, according to Betts, being found in small parties. Jerdon says that he met with it very frequently in the Wynaad and at times on the seacoast of Malabar. Once, sometime after sunset he saw an enormous flock pass over the bungalow at Canote, about 14 miles from the coast at Tellicherry. They were flying nearly due west towards the sea (*B. of I.*, i, 172). He first met with it at the foot of the Nilgiris near Metapolliam and again at Goodalore on the western side of the hills. Vipan (*S.F.*, i, 496) reports that he shot it on the Coonoor Ghat. William Davison (*S.F.*, x, 347) is more detailed. On the Nilgiris and their slopes, according to him, this Spine-tail occurs at odd intervals, in parties of 12 to 50 individuals. They generally arrive from the east and disappear westwards. This statement agrees with the experience of Mr. H. R. T. Carter at Coimbatore (*S.F.*, i, 474), who found that the Spine-tails were accustomed to pass over in a line from the Anamallais over the Palghat gap to the Nilgiris, travelling very fast. His account is too long to be quoted here and it is not altogether clear but he evidently considered that the passage was seasonal and apparently dependent on the S.-W. Monsoon. June, July and October are mentioned and birds collected in those months are in the British Museum.

In the Nelliampathies Kinloch says that this species is common in the cold weather. In spite of this statement and Mr. Carter's experiences I do not think that the bird is a migrant in the true sense and its spectacular movements are probably dependent on meteorological conditions. North Kanara is the northern limit of its recorded distribution in Southern India (*J.B.N.H.S.*, xii, 48). James Davidson considered it a resident and in Travancore, Bourdillon (*S.F.*, vii, p. 34) clearly says that it is abundant at all times of the year when the weather is fine and clear though during the early showers of April a flight of Swifts is a pretty sure indication of the approach of a storm. The breeding season in Travancore is almost confined to March and April (see Stewart, *J.B.N.H.S.*, xxii, p. 393 and *apud* Stuart Baker, *Nidification*, iii, pp. 465-467) and most nests are to be found at elevations between 1,000-2,000 ft. in thick forest. These Swifts roost in colonies in trees but the circumstances of their breeding in the base of hollow trees separates the pairs at that period.

Although largely confined to the rain forests of the western hills it is not surprising that this Swift travels to the east of the Presidency on occasion, as Carter mentions (*loc. cit.*) that he had seen it at Salem and further north Hume mentions specimens from Bangalore (*S.F.*, x, 347).

The statement in the *New Fauna* (iv, 343) and *Nidification* (iii. 465) that the northern limit of this Swift in Southern India is latitude 12° is of course a slip. It is common in North Kanara.

Indicapus sylvaticus (Blyth)

Acanthylis sylvatica Tickell, J.A.S.B., vol. xv (1846), p. 284—Central India —restricted to Maunbhum.

Not obtained by the Survey. Very little is known about the White-rumped Spine-tail in our area. William Davison met a party hawking about over a stream on 1st May in the Peria forests of the Wynaad and a specimen that he obtained on that occasion is in the British Museum. It has been recorded from Coonoor (*Old Fauna*, iii, 175) but it must have been only a straggler there as no one appears to have met it again in the Nilgiris. I cannot trace the authority for the statement in the *New Fauna* (iv, 345) that it occurs in the Palnis.

In Travancore this Spine-tail was apparently overlooked by the Bourdillons and Ferguson and it was first recorded by Mr. J. Stewart (*J.B.N.H.S.*, xxii, 394) who says 'breeds on the Travancore Hills in open forest at elevations of about 2,000 ft. It hawks about during the day in parties of about a dozen birds, but does not breed in colonies'. Mr. Stewart was also successful in obtaining nests and accounts of the breeding habits in Travancore will be found in the *New Fauna*, iv, 146 and *Nidification*, iii, 345. The breeding season is in March and April and Stewart obtained a few eggs in the first half of May.

There are no races of this bird in India and the very similar *Rhaphidura leucopygialis* (Blyth) can hardly be considered a race of it owing to the

elongated upper tail-coverts, which are paralleled by *Chaetura sabini* of West Africa. Mention should however be made of the fact that *Chaetura thomensis* Hartert, restricted to the island of Sao Thomé in the Gulf of Guinea, would certainly pass on its characteristics as a race of our Indian bird. The genera of these Swifts are evidently in need of revision.

Collocalia fuciphaga unicolor (Jerdon).

Hirundo unicolor Jerdon, Madras Jour. Lit. Sci., vol. xi (1840), p. 238—Coonoor Pass.

Not procured by the Survey as in the Presidency it is confined to the western side. The Indian Edible Nest Swift is the commonest Swift on the western hills where it is evidently a resident. In Coorg according to Betts it is always present in large numbers. William Davison mentions it as very abundant in the Brahmagherries while Jerdon includes the Wynaad in its range. In the Nilgiris it is of course very well known, especially about Ootacamund. It must occur between all these hills and the coast as Jerdon has left an account of the breeding colony on Sacrifice Rock, 20 miles south of Tellicherry, which he visited in March 1849 (*N. & E.*, iii, 29).

It is found in large numbers in the Palnis, especially about the lake at Kodaikanal and Foulkes (*J.B.N.H.S.*, xv, 727) gives an interesting account of how these Swifts dip into the water as they fly, occasionally with sufficient violence to be upset and drowned.

It is similarly abundant on the hills of Travancore.

The breeding season is somewhat extended from March to June and we have more detailed accounts of the breeding of this Swift than of almost any bird in the Presidency. The chief references for it are *Stray Feathers*, iv, 374 (Bourdillon), *Nests and Eggs*, iii, 28-33 and *Nidification*, iii, 468.

Dr. Stresemann has devoted special attention to the difficult group of these Swiftlets and his latest conclusions will be found in *Bull. Raffles Museum*, No. 6, December 1931. I do not therefore propose to go into the affinities of this species in any detail. I should however like to remark that in my opinion it is quite incorrect to attribute the Himalayan and the South Indian forms to two different species. They are evidently two races of one species. In colour they are identical except that the Himalayan bird *C. f. brevirostris* (McClell.) is a shade darker and more glossy on the upper plumage and it is also slightly larger:—

		Wing.	Tail.
C. f. brevirostris	7 ♂	121-131.5	51.5-58 mm.
C. f. unicolor	6 ♂	113-117	47.5-54.5 mm.

It is commonly stated that *unicolor* has the tarsus naked and *brevirostris* feathered. If this is correct—and I am aware that Hume believed in it (*S.F.*, ix, 289 and xi, 33)—the difference is certainly not appreciable in skins and at best is so slight that no great importance need be attached to it. It is valueless for a key.

The reason for keeping *unicolor* as a separate species to *brevirostris* has no doubt been the belief that both forms occur in the Western Himalayas. This is based solely on a small series of *unicolor* in the British Museum, labelled Koteghar 1868. These skins are not very satisfactorily labelled and one of them has had Koteghar substituted for Etawah. It may be that Koteghar has somehow been confused with Kotagiri or the skins have been wrongly labelled for some other reason. At any rate I am personally quite satisfied that only one form of Swiftlet occurs in the Western Himalayas and it is undoubtedly *brevirostris*. This point should materially assist Dr. Stresemann's further studies of the group.

Attention may be directed to the remarkable development of the salivary glands in the breeding season, connected with the curious nesting habits.

Hemiprocne coronata (Tickell).

Hirundo coronata Tickell, J.A.S.B., vol. ii (November 1833), p. 580—Borabhum.

Specimens collected:—269 ♂ 23-5-29, 279 ♀ juv. 24-5-29 Shevaroy Hills;

735 ♀ 23-8-29, 744 ♀ 24-8-29 Palkonda Hills 1,000 ft.; 1667-8 ♂♀ 6-4-30 Sankrametta 3,500 ft.; 1691 ♂ 17-4-30 Jeypore Agency 3,000 ft.

Measurements:—

	Bill.	Wing.	Central tail.	Outer tail.	Tarsus.
3 ♂	12-13	141-156	41-45.5	119-135.5	7-8.5 mm.
3 ♀	11	150.5-159.5	40.5-45	126.5	7-8 mm.

The Indian Crested Swift has not been recorded from the eastern side of the Presidency except for the above Survey specimens and Jerdon's remark that he had got it from the Nellore Ghats. It is not very common on the west either. Mr. Betts did not include it in his Coorg list, though he later informed me that a pair had been seen about some paddy fields on several occasions until the monsoon apparently drove them away. William Davison met them occasionally in the Wynaad but not in the Nilgiris. They occur there however as Jerdon says that they extend up to 4,000 ft. and Hume (*N. & E.*, iii, 36) mentions that he received eggs from the Nilgiris.

Kinloch found the Crested Swift in the Nelliampathies in the cold weather. In the Palnis Fairbank says he only met with a single immature specimen at the eastern base and this specimen (♂ juv. 25-6-1877) is now in the British Museum. Terry, however, considered it pretty common on the slopes of the Palnis and at Pulungi, and he obtained a single much incubated egg in the Pittur Valley on 7 April. The taking of this nest is described at length in *N. & E.*, iii, p. 37.

In Travancore Ferguson considered it by no means common, remarking merely that the museum contained a few specimens without locality and that he had only had one brought in by his collector.

Terry's nest furnishes the only breeding record for the Presidency and the bird's status does not appear very clear.

The Crested Swift has no races in India. Nothing is known about the meaning of the patch of silky downy feathers on the flank or of the curious decomposed edges to the tertiaries which in some specimens make a conspicuous patch.

Caprimulgus macrourus atripennis Jerdon.

Caprimulgus atripennis Jerdon, Illus. Ind. Orn. (March 1845), letter press, pl. 24—Eastern Ghats to west of Nellore.

Specimens collected:—335 ♀ 5-6-29, 439 ♀ 18-6-29 Chitteri Range 2,000 ft.

Measurements:—

	Bill.	Wing.	Tail.	Tarsus.
2 ♀	20-21.5	174.5-179	123.5-127	16-18.5 mm.

Very little is accurately known about this race of Horsfield's Nightjar in the Presidency. Jerdon obtained his type, which is still in the British Museum, from the Eastern Ghats, west of Nellore, and Roscoe Allen met with the species at Horsleykonda in April (*J.B.N.H.S.*, xviii, 905). LaPersonne reported some species of Nightjar to be very common throughout the district of Salem and the two specimens procured, one of which was killed from a nest with one egg, both belonged to this species.

In Travancore Ferguson only procured two specimens, both of which were shot on the High Range. Kinloch took a clutch of eggs in the Nelliampathies in February, according to Stuart Baker (*Nidification*, iii, 479), but the species is not included in Kinloch's published list of the birds of those hills and as on p. 482 Kinloch is also credited with having obtained the eggs of the large Northern race *C. m. albonotatus* in the same hills it is evident that these records require some confirmation.

Further north William Davison says that he only met with it at Manantoddy, Wynaad, and in that immediate neighbourhood and this record is verified by two skins in the British Museum. He adds that it does not seem to occur on the Coonoor, Neduvattum or Seegore side of the Nilgiris, but that it occurs below Kotaghery. A female obtained in the last locality by Miss Cockburn on 15 April 1871 is in the British Museum.

Nothing appears to be known accurately about the breeding season in the Presidency.

Further northwards this race may be accepted as reaching to N. Kanara and the Godavery Valley. On the eastern side it gradually grades into the larger *albonotatus*.

In the *New Fauna* Mr. Stuart Baker accepts Ceylon birds as belonging to *C. m. atripennis*. This, however, does not appear to be correct. There is a good series of specimens from Ceylon in the British Museum and they are definitely darker in tone throughout the whole upper surface, this being particularly marked on the collar, which is chocolate as opposed to rufous brown, and on the tails.

The series from Java in the British Museum is very poor but so far as it goes I am unable to see any difference between Ceylonese and Javan birds and, therefore, attribute the former to the typical form, thus providing another example of the close connection between the Cinghalese and Malaysian faunas.

The only description[1] which I can find of the call of this race is by James Davidson (*J.B.N.H.S.*, xii, 50) who says it is an almost metallic cry of four notes. This would seem to be confirmed by Butler's remark (*J.B.N.H.S.*, xii, 423) that the Ceylon form has also a call which is 'invariably a low liquid chuckle of three or four notes'. But there may be some mistake as Legge says that the call of the Ceylon bird resembles the sound of striking an axe on a thin plank, a call which is very definitely known to belong to other races of this species.

It should be remarked that an important difference between birds from Northern India (*albonotatus*) and birds from Southern India (*atripennis*) and Ceylon (*macrourus*) appears to have been overlooked. In the first named the females have the tips of the outer tail feathers pale yellowish buff, so that they are easily distinguished from the male. In the other two races the tips are normally white as in the males.

Caprimulgus macrourus albonotatus Tickell.

Caprimulgus albonotatus Tickell, J.A.S.B., vol. ii (after December 1833), p. 580—Borabhum.

Specimen collected:—1771 ♂ 5-5-1930 Anantagiri 3,000 ft.

Measurements:—

Bill.	Wing.	Tail.	Tarsus.
22.5	210	169	20.5 mm.

This specimen provides the first record of this race of Horsfield's Nightjar in the Presidency and, according to LaPersonne, it was common throughout the hills of the Vizagapatam district. The testes were very greatly enlarged, so it is evident that the breeding season here includes May.

I am not able to follow Stuart Baker (*New Fauna*, iv, 364-365) in his division of this Nightjar in Northern India into two forms. Birds from the Eastern and Western Himalayas appear to me to be identical in colour and size and with them must be grouped the winter series from the United Provinces. They run only slightly larger than the small series of birds available from the Chota Nagpur area. These topotypical birds are in truth intermediates between the large pale birds of Northern India and the small dark *atripennis* of the south, but as they are far closer in size to and agree in colour with the northern birds they may well give their name to the whole area. I have seen no evidence for the extension of the range of this race, or indeed any race, to the Northern Bombay Presidency.

The note of Horsfield's Nightjar is well established. Long ago I wrote (*Ibis* 1926, 747) 'the call of this bird is a very loud resonant *chaunk* freely repeated, like the blows of an adze on a plank, or even the sound of felling a tree. It is audible a great distance away and when heard close at hand emits a great volume of sound. It is uttered from the bare branch of a tree.' B. B. Osmaston says 'its loud reverberating call *chounk chounk* . . . repeated any

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[1] There has been and still is so much confusion over the calls of the various Indian Nightjars that it has seemed to me useful to summarise such accurate information that I can find on the call of each species.

number of times from 1 to 50 . . . This call is repeated at the rate of 5 in 4 seconds' (*J.B.N.H.S.*, xxvii, 949). Mr. A. E. Jones considers it a rich double call note *chaunk-chaunk* which reverberates through the jungles. He confirms that the call is only given from a bush or tree (*J.B.N.H.S.*, xxix, 286).

Caprimulgus indicus indicus Latham.

Caprimulgus indicus Latham, Index Orn., vol. ii (1790), p. 588—India.

The Jungle Nightjar was not procured by the Survey and in the Presidency it is as yet only recorded from the western side except for Jerdon's statement that he procured it in the Carnatic.

In the Wynaad it occurs sparingly according to William Davison who considered it common on the Nilgiris. Here Jerdon says it occurs on the summits but Mr. Betts informs me that it occurs all over the hills. Kinloch is said to have taken eggs in the Nelliampathies (*Nidification*, iii, 484). Terry says that it is common in the Palnis, especially at Pulungi and Pittur; at the latter place their calling was a positive nuisance to the camp.

In Travancore it is common and Bourdillon considered it a winter visitor but Ferguson has corrected this. In his opinion it is a winter visitor to the lower slopes of the hills, apparently retiring about May to the High Range.

In the Nilgiris William Davison gives the breeding season as the latter end of February and the earlier part of March. At Kotaghery Miss Cockburn considered it February, March and April. In the Nelliampathies Kinloch's eggs were taken in February. In Travancore Bourdillon says it breeds from January to March.

There are two points on which I am unable to agree with Stuart Baker (*New Fauna*, vol. iv, pp. 366-369). First of all I cannot agree to the extension of the Ceylon race *C. c. kelaarti* to Southern Travancore. There are only three specimens from Ceylon in the British Museum and these may just be separable from the typical race on their smaller size (2 ♂ wing 174-180 mm., tail 126 mm.; 1 ♀ wing 174 mm., tail 116 mm.) and on having the tail darker with heavy barring, though a better series may prove that this distinction does not hold good. Travancore birds however—and of these I have examined quite a good series—do not appear to me to be separable from those throughout the rest of Peninsular India either in size, in the prevailing grey tint of the plumage, the finer streaking of the back or in the finer barring of the tail. There is of course a good deal of individual variation but as Hume showed long ago (*S.F.*, iv, 381 and vi, 56) it is not consistent with distribution.

Himalayan birds are, however, separable from those of the Peninsula. In a series the general tone of colouration is warmer and browner, the markings on the back are heavier and the barring of the tail is broader. Whilst not absolutely larger in a series, as individuals they tend to average larger.

These Himalayan birds Stuart Baker attributes to *Caprimulgus indicus jotaka* Temm. & Schl. (Japan) and this is the second point on which I differ from him. In my opinion Japanese birds—if Himalayan and Japanese are compared in a good series—are a much colder, more smoky grey in colour, with the upper parts more uniform and less heavily marked especially on the mantle and tertiaries. The lower tail-coverts are usually unbarred and the white patch on the outer tail feathers is usually further from the tip of the tail. There appears to be no existing name applicable to Himalayan birds and so I propose to call them

Caprimulgus indicus hazarae subsp. nov.

Type in the British Museum. ♂ 3 May 1871 Abbottabad, Hazara (A. O. Hume).

East and West Himalayan birds are identical.

There are three specimens from Hazara in the British Museum as well as specimens from the Simla and Mussoorie Hills so Stuart Baker is wrong in giving Kumaon as the western limit in the Himalayas. It is doubtless a slip that in *Nidification* (iii, 483-484) *indicus indicus* is given as breeding round Naini Tal, while *indicus jotaka* is said to breed in Kumaon.

There seems to be little doubt about the call of this species which is very noisy and a good idea of it will be obtained from the different versions that

have been given. Butler (*S.F.*, iii) says it is 'loud and peculiar, resembling the words chuck chuck chur-r-r repeated several times continuously. James Davidson says that it is either 'tuk' 'tuk' constantly repeated or this with an occasional 'tukkoo' 'tukkoo' (*J.B.N.H.S.*, xii, 50). Whitehead considered it 'cuckoo' (the *u* pronounced like the *u* in luck) and said that it was used by both sexes (*J.B.N.H.S.*, xxi, 166). B. B. Osmaston goes into more detail:—'its call is of two kinds. Firstly a monosyllabic, chuck, chuck, chuck . . . repeated about half a dozen times at the rate of 5 'chucks' in 2 seconds. It has a second call, not so commonly heard, which is made up of dissyllables 'chucker-chucker-chucker'—repeated at the same rate as the first call (*J.B.N.H.S.*, xxvii, 949). With this description A. E. Jones concurs, adding that the males utter a soft not unmusical note 'you-you-you' while chasing another bird, probably the mate (*J.B.N.H.S.*, xxix, 286). Finally Mr. Salim Ali (*J.B.N.H.S.*, xxxvii, 138) says that 'the call is usually uttered from the branch of a tree on which the bird crouches lengthwise. The notes I have likened to water dripping on water (but much louder) at the rate of about 2 drips, a second, connected as it were by the echo of the dripping; *chuck-ko, chuck-ko, chuck-ko* and so on'. This recalls Legge's version of long ago *chump-pud, chump-pud*, repeated for several minutes.

Caprimulgus monticolus monticolus Franklin.

Caprimulgus monticolus Franklin, P.Z.S. 1830-31 (October 25, 1831), p. 116—Ganges between Calcutta and Benares and in the Vindhyian Hills between the latter place and Gurra Mandela on the Nerbudda.

Franklin's Nightjar was not observed by the Survey and there appear to be only three records of it in the Presidency. There is a male in the British Museum collected by Blanford fifty miles north of Ellore on 11 February 1871. Jerdon (*B. of I.*, i, 199) says that he obtained a specimen at Nellore. A female collected by Surgeon-General Fry in Travancore is in the British Museum. The status is of course unknown. So far as I can see there is only the one race of this Nightjar in India. Stuart Baker [*Bull. B.O.C.*, li, No. ccci (April 1931), p. 102] separated birds from Sikkim to Eastern Assam, Burma, etc. as *Caprimulgus monticolus burmanus* but he has presumably since given up this race as it does not appear in *Nidification*, vol. iii.

There need be no difficulty in identifying the call of this Nightjar which is very distinctive and once heard cannot be mistaken. Osmaston (*J.B.N.H.S.*, xxvii, 949) described it as a 'rather sharp penetrating note like "choo-ee" uttered on the wing'. I considered it 'like a loud grating chirp, which close at hand resolves itself almost exactly into the sound of a whiplash cutting through the air' (*J.B.N.H.S.*, xxviii, 284). Jones calls it 'a loud piercing "chweep" ' (*J.B.N.H.S.*, xxix, 286), and Waite repeats Mr. Osmaston's description (*J.B.N.H.S.*, xxxi, 821). Salim Ali (*J.B.N.H.S.*, xxxvii, 138) calls it a 'loud penetrating call of a single note "sweesh" '. It is uttered both from the ground and on the wing and sometimes from the top of a bush. In the pairing season it may be heard all night long, before dark and after dawn. When flushed during the day the bird gives a low chuckle.

In the interests of accuracy it may be as well to leave on record the fact that the specimen of *Caprimulgus mahrattensis* recorded from Gorakhpur (*J.B.N.H.S.*, xxii, 541) is really a juvenile of *Caprimulgus monticolus*. It is in my collection together with the rest of Mr. A. E. Osmaston's skins.

Caprimulgus asiaticus asiaticus Latham.

Caprimulgus asiaticus Latham, Index Ornith., vol. ii (1790), p. 588—India, Bombay.

Specimen collected:—876 ♂ 5-10-29 Seschachalam Hills 2,000 ft.

Measurements:—Bill 19 mm., wing in moult, tail 105 mm., tarsus 19 mm.

The above specimen provides the only reliable record of the Little Indian Nightjar on the eastern side of the Presidency. On the west there are more records. Betts tells us that in Coorg it is very common and that numbers may be seen sitting on the roads at night, their eyes showing up in the headlights of cars as ruby specks. As, however, he mentions no other species this record no doubt refers in part to other species as well.

Fairbank obtained a single specimen, now in the British Museum on 5 June 1877 at the eastern base of the Palnis and remarks that it was the only Nightjar seen or heard in five weeks.

In the low country of Travancore it is very common according to Ferguson. Nothing has been recorded about the breeding season in the Presidency.

I have not been able to understand the division of this Nightjar into races satisfactorily. There are at any rate three colour phases, pale sandy, brown and grey and there appears to be some correlation of these phases with locality, the pale sandy birds coming from the North-West, the grey birds from the Deccan and the brown birds from other localities. The phases, however, so grade into each other and there seem to be so many exceptions to their connection with special localities that I hesitate to consider these colour phases as definitely subspecific.

Parrot, *Orn. Monatsb.*, 1907, p. 170, separated birds from Ceylon as *Caprimulgus asiaticus minor* on the ground of size. Ceylon birds are very small; wing in males 141.5-145 mm. whereas males from North-Western India measure 144-156 mm. There is complete intergradation between these two extremes though birds from Travancore and Mysore appear to be as small as those from Ceylon. Until I have seen more specimens, to determine these questions of colour and size, it seems more satisfactory to attribute all Indian birds to the typical race, accepting *minor* as the insular race.

The call of this species is well known and fully authenticated. It is often compared to the sound of a stone skidding quickly across ice. James Davidson (*J.B.N.H.S.*, xii, 50) syllabilises it as *tuk tuk tuk tookmaluk* but I think most people would prefer the rendering *chak chak chak char-r-r-r* (B. B. Osmaston, *J.B.N.H.S.*, xxvii, 949) or *tuk tuk tuk tukeroo* of the *Fauna*.

Lyncornis macrotis bourdilloni Hume.

Lyncornis bourdilloni Hume, Stray Feathers, vol. iii (1875), p. 302—Kalland Khauni, S. Travancore.

In Southern India the Great Eared Nightjar is entirely confined to Travancore and there is really very little on record about its actual distribution. The type was obtained on the 15th January at Kalland Khauni on the banks of the Peenaven-aur, about 15 miles north of Mynall at 600 ft., and Bourdillon then gave some note of its habits. His next communication on the subject in a letter to William Davison will be found in the *Ibis* for 1888, pp. 146-7 with reference to meeting it at Konegur. Ferguson's account appears to have been merely taken from Bourdillon and what little more we know about it is due to Stewart (apud Stuart Baker, *New Fauna*, iv, 375 and *Nidification*, iii, 490). It is there said to be confined to Central and South Travancore and to be moderately common from sea-level up to 2,000 ft.

The principal nesting months are February and March, but Stewart took eggs from the first week in January to the 1st of May.

In Tenasserim, William Davison found that this Nightjar spent the day in caves (*S.F.*, ix, 151), but this habit has not yet been noted in Travancore.

The 'wailing call' of the male as mentioned in the *New Fauna* is probably that described by Davison (*loc. cit.*)—'a full clear whistle which can be heard a very long distance off; it might be syllabilized two-wee-oo, each syllable lengthened out but specially so the middle one. Occasionally the first syllable is double and shortened too-too-wee-oo; this whistle the bird repeats at irregular intervals, one calling and another answering.'

The Indian forms are evidently subspecies of *Lyncornis macrotis* (Vigors) of the Philippines as pointed out by Hachisuka (*Birds of the Philippines*, Pt. III, p. 114).

Batrachostomus moniliger Blyth.

Batrachostomus moniliger Blyth, J.A.S.B., xviii (1849), p. 806—Ceylon.

The Ceylonese Frogmouth was not met by the Survey as it is confined to the South-Western Ghats and Ceylon. The distribution given in the *New Fauna* (iv, 382) and *Nidification* (iii, 494) is not extensive enough. This species is common in North Kanara (James Davidson, *J.B.N.H.S.*, xii, 50).

In the Presidency it was seen in Coorg by Jerdon (*J.A.S.B.*, xiv, 209) who also tells us (*B. of I.*, i, 189) that Capt. Roberts of the 36th N. I. obtained it on the Peria Pass leading from Malabar into the Wynaad.

In Travancore according to Bourdillon (*S.F.*, iv, 376) it is not uncommon about 2,000-3,000 ft. elevation in the hills. Stewart (apud *Nidification*, iii, 494) says that it is most common at about 2,000 ft., occurring also up to 4,000 ft. and nearly down to the level of the plains. The normal breeding season is according to him from January to April, but odd eggs were taken from June to September.

The call does not yet seem to be properly identified. James Davidson (*loc. cit.*) attributed 'a wailing cry' to it. Bourdillon on the other hand (*S.F.*, iv, 376) considered it had a 'loud chuckling cry, with somewhat the tone of a Goatsucker and not unlike the laugh of some Kingfishers, a difficult cry to describe'. Legge agrees with this description as representing a call which he also attributed to this species. In the *New Fauna* the ordinary call is said to be a soft *kooroo-kooroo* repeated several times.

I have at present no reason to separate Indian and Ceylonese birds as the plumage is variable and I have only seen a poor series. The whole group appears to be in need of revision as regards the specific and subspecific arrangement of the various recognised forms.

(*To be continued*).

THE PAPAW TREE.

BY

J. F. CAIUS, S.J., F.L.S.

The CARICACEAE, natives of tropical America and Africa, are a small family of plants, including 4 genera and 45 species.

The family has been named after one of its genera, the genus CARICA. This generic name is derived from the Greek word *Karikos* which means *of* or *from Caria*, a province of Asia Minor, erroneously supposed at one time to have been the habitat of the papayads. The genus Carica numbers 30 species, inhabiting warm America.

The papayads are small trees, generally without branches. They have large palmately-lobed leaves, and on being wounded in certain parts they exude an acrid milky juice. Their flowers are borne in racemes proceeding from the bases of the leaf-stalks, the male and female flowers being usually on different trees. The male flowers have a funnel-shaped corolla, into the throat of which the ten stamens are inserted in two rows of five, one above the other; and the female flowers have a corolla of five distinct petals. The fruit is fleshy, and does not split open when ripe.

The most remarkable species is the PAPAW TREE, known to botanists as: *Carica Papaya*, Linn. Sp. Pl. 1036; *C. hermaphrodita*, Blanco, Fl. Filip., ed. i, 205; *Papaya Carica*, Gaertn. Fruct. ii, t. 122; *P. communis*, Noronha, in Verh. Batav. gen. v (1790), ed. i, Art. iv, 23; *P. cucumerina*, Noronha, loc. cit.; *P. sativa*, Tuss. Fl. Antill., iii, 45; *P. vulgaris*, DC. Poir. Encycl., v, 3.

OCCURRENCE.

Carica Papaya Linn. is considered a native of the West Indies, the shores of the Gulf of Mexico, and perhaps of Brazil. Its specific name 'papaya' is evidently American, whether derived from the Carib 'ababai' or not. The tree has now become acclimated in the hot regions of three continents; and the zone of most abundant growth seems to lie on either side of the Equator where the mean annual temperature is 77°F., provided soil and rainfall are favourable. It is grown by cultivation north and south of that zone. It is to be found throughout India, from Delhi to Ceylon; but it cannot be cultivated on the hills, except in the south where it is productive up to 4,000 ft.

It is quite common for numerous papaw plants to spring up from seeds scattered by birds over a portion of land which, according to tropical custom, has been cleared by burning away the trees and undergrowth. There are, however, no forests of papaws because the plants need sun and room. They are seldom seen among dense growths, nor do they propagate in clusters.

The papaw seems to be at its best in the rich humus of a hillside, and rarely takes to a swampy or sandy soil. It grows at the edge of the sea with the waves washing its roots; it prospers on

the high mountain plateaus of all the windward and leeward islands; it flourishes—but does not attain to any great height—on the bare coral rocks of Yucatan; it thrives in the sandy soil of Venezuelan ravines, where rain averages one metre per annum and the climate is very equable; it grows prolifically without much cultivation or care in Peruvian valleys; it shoots up to a height of over one hundred feet in the trans-Andean regions; it appears spontaneously in waste places on the islands of Guam, where it receives but scant attention from the natives. However, those places seem best suited to the papaw where it does not rain but always pours, where daily rains abound throughout the year—pouring, soaking rains with a fierce bright sun shining all through the downpour.

Characteristics.

Papaw trees present a striking appearance with their straight slim shiny trunks, and their bright green umbrella tops; but whether they are a thing of beauty is a matter of personal taste. 'This well known tree', says Woodrow, 'has been subjected to ill-merited abuse, described as ugly and everything that is disagreeable, yet it may be questioned if there is a more handsome or generally useful tree in Indian gardens.'

The Papaw tree suggests a palm in its habit of growth. It has a single, supple, slim, straight stem, terminating in a crown of large leaves, and branching only when its growth is interfered with. Cultivated plants attain a height of from 10 to 30 ft.; wild varieties push up to 60 or even to 100 ft. Near the base of mature trees the diameter ranges from 6 in. to 1 ft., the stem tapering gradually to about 4 or 5 in. at the summit. In a young plant the stem consists of a cellular pith filled with water; in a matured tree that portion of the trunk immediately under the bark is fibrous for a few inches, followed by a soft inner layer one inch or more thick terminating in the central portion which is hollow. At intervals through the hollow centre are to be seen membranous tissues dividing the cavity into sections, and in the rainy season, for a considerable height up the trunk, this central cavity is filled with water. The wood is soft, white and spongy; it cuts easier than a potato, so that the trunk can be chopped through by a single stroke of a cutlass; it is full of water, decays rapidly, and does not serve any useful purpose. The trunk is covered with a grey (green at the top) smooth, tough bark laid on in folds, which at intervals form ridges.

A large turnip-shaped tap root reaches deep down into the earth to seek nourishment and to give stability to the tree. This root is similar in structure to the trunk, except for a white bark, and possesses an odour of cabbage and a peculiar taste suggesting radishes.

The leaf-stalks diverge almost horizontally from the trunk; they are large and hollow, cylindrical toward the leaf and flattened at the point where they join with the stem. The leaves are frequently as much as two feet in diameter, deeply cut into broad lobes terminating in sharp points and having their margins irregularly waved or gashed; they are dark green on the upper and

light green on the under side; they are shortlived and, as the tree shoots upwards, they drop off, leaving scarry marks on the bark of the tree trunk.

Pitcher formation was observed by Miss Mozelle Isaacs in the leaves of trees growing in the grounds of the Dadar Parsi Colony and of St. Xavier's College, both in Bombay. Pitchers may be best described as modified leaves; and as they only show during the monsoon, it has been surmised that they are due to the vigorous growth of plant life during that period and to the lack of the necessary space for them to develop into ordinary leaves. For in the process of pitcher formation, always found in female plants which usually have larger leaves than the male plants, new veins find themselves impeded from developing normally in the plane of the old leaf as all the available space is already occupied by many strong veins issuing from the same point; these new veins are consequently pushed upwards, and they develop into stalked simple leaves with a basal pocket.

Circumstances of climate, soil and cultivation may, however, so modify the characteristic features of the plant that discrepant descriptions and statements are on record. Among the notable varieties are the green and the violet papaw. This latter variety, which exhibits a purple stem and purple leaf-stalks, has had considerable attention paid to it and is more highly esteemed for cultivation. While young the trees are kept in the shade and pruned to prevent their growing tall; portions of the flowers are picked off to favour fruiting; and the smaller fruits are removed when green, so that the remainder may grow larger and stronger—indeed a fruit weighing 20 pounds is no rarity. The violet papaw is such a pliant plant that horticulturists boast of having produced a dwarf variety. But the green papaw is less adaptable; though it grows to a greater height, its fruit is smaller and possesses a less pleasant flavour.

The male tree produces long hanging clusters of narrow trumpet-shaped flowers having 10 anthers inserted on the throat of the corolla. The female tree bears single flowers with a white, yellow, or purple corolla of 5 sessile petals, and one pistil bearing a 5-rayed stigma. The female flowers grow in considerable numbers at the apex of the stem, which pushes rapidly upwards and puts out new leaf-stalks. Occasionally, bisexual flowers are produced by either male or female trees.

There is no definite flowering season, and the tree bears fruit all the year round. The fruit develops so rapidly that buds of flowers and ripe fruits are often found on a tree at the same time.

The fruit grows from the axils of the lower leaves, the normal fruit from the female flowers being sessile while that from the hermaphrodite flowers is borne on long pedicels. It varies considerably in form as well as in size, resembling an orange, or a gourd, or a cocoa pod, or a musk melon, or even a water melon. It is of a green or purplish colour turning yellow when ripe:

'The slim papaya ripens its yellow fruit for thee'—(Bryant).

Its skin is smooth and thin. The flesh of the green fruit is white, tough and watery; but as the fruit ripens its flesh becomes

juicy and assumes a pinkish or orange hue, or turns to musk-melon yellow. The fruit has a central cavity which contains the seeds arranged in five lines along the whole length of it, and attached to, and held together by, a delicate membrane which constitutes the inner skin of the fruit. The fruit does not last long after ripeness sets in.

Miss Mozelle Isaacs has noted the presence of large white parenchymatous masses in the fruit of the papaw tree. She has also recorded the occasional appearance of long leafy structures: 'in some cases the funiculus is elongated, the integuments of the ovule absorbed in the elongation of the stalk, and the cotyledons and plumule of the seedling inside exposed giving the appearance of vivipary inside the fruit.'

Different names are sometimes employed to distinguish various forms of the fruit, as 'Ceylon', 'Madagascar', 'West Indies', etc.; these names are, however, misleading, for nowhere in the Eastern Tropics is the tree indigenous, and everywhere, as already stated, there occurs a good deal of variety as regards size and shape.

The seeds are of the size of small peas; about 230 when fresh go to an ounce, or 500 when partly dried. When fresh, they are dark brown changing to black on drying. Before desiccation their outer membranous coating is transparent and slimy; the inner coating is hard, horny and wrinkled; and between the two coatings there is a mucilaginous substance containing myrosin. The inner shell contains the leaf-like cotyledons, veined at the base with an albuminous homotropal embryo with a roundish radicle easily distinguished when slightly magnified. The seeds when dried resemble pepper-corns; they are aromatic, pungent, piquant—but not so sharp as mustard—and their taste slightly suggests water cress.

All the parts of the plant abound in milky juice or latex, which is found most abundantly just under the skin of the fruit before ripening.

Hermaphroditism.

It is a common belief in the Gold Coast Colony that a male papaw can be made to bear fruits. This is done sometimes by cutting off the top of the male tree, which is then believed to produce fruit-bearing stalks. Another method is to make one or two holes right through the stem below the flowers, a stone or piece of wood being occasionally inserted to keep the hole open.

As a matter of fact the papaw plant is extremely variable in regard to its sexual characteristics. There are two extreme types —one strictly dioecious, the other monoecious—and many intermediate forms. In the strictly dioecious type, the fruit-bearing plant has pistillate flowers only, while the male plant produces almost exclusively staminate flowers in bunches towards the end of long peduncles: each flower has a rudimentary ovary and a style without stigma, being thus incapable of bearing fruit.

It sometimes happens that male trees produce hermaphrodite and pistillate flowers abruptly and unexpectedly. This monoecious type of plant bears fruit in every case; but the trees look from a distance as if they were female plants of the dioecious type. They generally produce two kinds of flowers, the one staminate and the

other perfect. The perfect flower is quite different in shape from the pistillate flower of the dioecious type. Its ovary is much more elongated, being almost cylindrical. The stamens are usually placed on the inner walls of the petals midway down, with the anthers surrounding the lobes of the stigma. The fruit of this type differs from that of the dioecious type in the same way as the ovary, and is often called a 'long papaw'.

Another monoecious form is the plant in the process of changing its sex. It is not at all uncommon for a male plant, after producing staminate flowers for some time, to bear hermaphrodite flowers which in their turn are succeeded by pistillate fruit-bearing flowers. Miss Mozelle Isaacs has, moreover, witnessed the process of change exhibited by a female plant at Santa Cruz, near Bombay. She observed a fruit-bearing tree growing near a drain, changing its sex subsequently on the closing of the drain: the flowers became gradually smaller, lost their ovary, and began to appear in bunches on longer and longer branched inflorescences instead of singly in the axils of the leaves.

It has been repeatedly stated that the removal of the terminal bud causes male papaws to change their sex, and that trees treated at definitely recurring periods are the ones that exhibit this phenomenon. It is suggested that the plant has definite short cycles of growth and that it may be necessary to remove the top at some definite phase of this cycle in order to foster the development of fertile flowers.

To test the correctness of this statement L. B. Kulkarni selected a dozen male plants in the Ganeshkind Botanical Gardens, near Poona, and 'had their growing tips nipped off at the time of flowering. In a fortnight, there appeared a cluster of flowers round the cut portion; on examination eleven trees showed all male flowers, and one plant was found to have produced one hermaphrodite flower among clusters of male flowers. The male flowers on all plants were normal. The one hermaphrodite flower that was produced had five stamens attached to the base of the petals and placed round the syncarpous ovary. The fruit formed was a little oblong. This fruit dropped before ripening. The rest of the trees continued to produce male flowers on long peduncles as usual. The only effect of the pruning of the top was that the trees produced three or four branches.'

This finding supported that of the Hawaii Agricultural Experiment Station: 'It has been reported that staminate trees have been caused to produce pistillate flowers and fruit by beheading them. None of these means have proved to be successful from a practical standpoint.' It may, therefore, safely be concluded that the change of sex displayed by the male papaw does not appear to be in any way connected with the removal or retention of the terminal bud.

It would be puerile to attempt to describe all the intermediate forms which have been observed, for their name is legion and the difference among them is often trivial. However, mention ought to be made of two forms which, strangely enough, have been reported from such widely separated places as Ganeshkind and Hawaii. In the words of L. B. Kulkarni: '(*a*) One plant

produced four types of flowers, namely: (1) staminate flowers, (2) and (3) two forms of perfect flowers, and (4) one form of pistillate flowers. The staminate flowers were exactly like those of the second or monoecious type above described. Of the two perfect flowers, one form corresponded precisely with that of the monoecious type, while the other had an ovary in shape like that of the pistillate flowers of the dioecious type. There were usually ten stamens attached to the base of the petals round the ovary in the first form—and only five stamens similarly attached in the second form. The pistillate flowers were exactly like those of the dioecious type.' '(*b*) Two plants bore only staminate flowers, but these flowers were carried close to the stem in the axil of the leaf. This is peculiar, as the trees usually producing staminate flowers have their flowers on long peduncles.'

There is, nevertheless, no doubt that the wild papaw in its natural habitat is unisexual. Sex perversion is one of the effects of migration and cultivation.

Cultivation.

Rusby has stated that this tree 'can be propagated and grown with great readiness, that its vitality is so great that it is with difficulty destroyed until its natural course has been run.' On the other hand six years' observation has convinced Kilmer that the papaw is exceedingly difficult of cultivation, and that the cultivated trees are most easily destroyed by adverse conditions.

The wild plants do not seem to be attacked by disease except after injury, but the cultivated plants are very susceptible to every sort of malady. Insects attack the tender leaves of the young plants and they wither. Fungi and bacteria find in the papaw suitable conditions for growing and multiplying, and they do grow and multiply at the expense of their host's vitality. After fruiting, and especially if the fruits are bled, the tree will suffer from general debility and become the prey of every adverse circumstance. And the trouble, whatever its nature, may be said always to arise from the inherent weakness of the cultivated plant in its altered environment.

It is, nevertheless, reported that in Ceylon, in Brazil, in Algeria and in the islands of La Reunion and the West Indies, successful and extensive cultivations have been carried out.

It is mentioned in the *Hawaii Agricultural Experiment Station Report* for 1911 that 'there is no means available for the propagation of the papaya by asexual parts, as cuttings, buds, scions, etc., hence seed varieties must be established by methods probably similar to those used in breeding varieties of vegetables and flowers which are not propagated by budding and grafting.' But Burns wrote in 1918: 'This excellent fruit is easily grown. It is propagated by seeds, but may also be propagated by cuttings.' And propagation by grafting has been tried with some success at Lucknow, at Ganeshkind, and also in the United States of America.

Propagation by cuttings or by grafting may perhaps not have yielded results which would commend it to the cultivator as a means to increase his harvest. Nevertheless this propagation is

not without its experimental value; for, if persistently carried on, it may contribute towards the solution of a problem which has hitherto baffled scientists and cultivators alike. One never knows what a seedling is going to develop into, and the question of the inheritance of characters in the papaw is one which needs answering very badly; for there happen to be such differences between papaw and papaw that no two trees resemble each other—which is a source of constant anxiety to the cultivator as will be presently shown.

To begin with, the seeds vary considerably in number: in some fruits there are five; in others, over five hundred. But this does not mean five or five hundred potential trees. Thus, for example, when in the West Indies a native wishes to grow a single tree he buries two or three such fruits in the ground; for he knows by experience that at most two or three plants will result. Nothing could show more clearly that very few seeds are fertile, so that a discriminate selection becomes imperative. Experiments were, accordingly, carried out and it was found that seeds taken from the central portion of the largest and finest fruits were the most likely to be fertile. Seeds selected with extreme care from strong and healthy trees, the fruit of which would weigh fifteen pounds, were then sown: only a portion of the plants took after the parent stock, the other portion reverted to the wild prototype and yielded fruits the size of a hen's egg. In another series of plantings conducted with thorough preparation of the ground and selection of seeds, together with care for the young plants, only a small proportion came to maturity, and of these only a few bore fruit: none of the plants or their fruits was as large as those of the parent stock.

But still more perplexing are the vagaries of sex relation, which make the proper adjustment of the sexes difficult and exasperating. It is generally agreed that for fertilization one male to ten female plants is the proper ratio; but Kilmer speaks of numerous instances where acres of land were planted with thousands of papaw plants in which the males were in the majority of over fifteen to one. And as it is not until the flowers appear that the two kinds of tree, male and female, are distinguishable, one can imagine the cultivator's dismay when he finds at the end of all his toil and waiting—which may be as much as twenty months—that he has a plantation of unprofitable male plants.

It is best to sow the seeds in well-drained porous soil covering them about half an inch deep. In from two to six weeks the seedlings appear, germination being hastened by heat. In about a month after germination the seedlings are large enough to be transplanted to pots in which they remain for another month before being placed in the orchard where holes four feet deep and four feet wide were dug previously. The distances between trees should be about ten feet in each direction. Seeds may also be sown at stake, allowing five or six to each hole, leaving afterwards one good seedling to each hole.

The papaw tree likes deep humous or loamy soil, and flat or gently sloping well-manured land. The following fertilizer has been

successfully tried at the Hawaii Experimental Station on young plants: superphosphate, 800; sulphate of potash, 315; nitrate of soda, 250; sulphate of ammonia, 190; and black sand (volcanic ash), 445 parts. This has been applied at the rate of one pound per tree at planting time. In the Bombay Presidency, house, farm, or stable refuse, twenty cartloads per acre, has been used with success. It has also been found that two ploughings and two harrowings just before sowing the seed improve the growth.

Once established, the plant is capable of enduring a wide range of moisture variations in the soil, but it is very sensitive to water-logging. Until the blossoming stage is reached the two kinds of tree are indistinguishable, and hence twice the desired number of seedlings must be planted, and all the males, except four per acre, cut out when they are recognisable. In some localities the plant begins to grow fruit in seven months; in others, eighteen to twenty months from the seed. The fruiting is abundant and continuous. In the course of one season a wild tree has been known to yield from two to three hundred fruits varying in size from a golf ball to a cricket ball. The cultivated plants may be made to yield from twelve to sixty fruits, weighing from five to twenty pounds each.

The fruits of the papaw are borne round the stem in such a way that they interfere seriously with one another's growth. It is, therefore, advantageous to remove a certain number of them to allow the rest to develop better. The difficulty is to hit on exactly the right amount of thinning to get the greatest weight compatible with the greatest number of fruits. This can only be obtained by practice and in the meantime it is advisable to remove only such fruits as are obviously going to be badly squeezed.

It is also a good thing to cut off the top of the young tree, thus forcing it to branch. Each branch bears fruits, and the bearing capacity of the tree is multiplied. It has also been observed that the branched plants were less frequently damaged by winds, and that the fruit was easy to watch and to harvest. The system of branching is very beneficial in places where the nights are cold, since the plant is protected from frost, and the fruit is produced near the ground.

The fruits on the tree must be protected from the direct rays of the sun or they scorch and split. The dead leaves of the tree should be removed as they dry up. The fruit is to be cut from the tree when full sized, but green, and is laid on soft straw to ripen. The even ripening of the papaw is a matter of considerable practical difficulty.

As a rule the tree is played out after five years' continuous cropping. Kilmer reports that a rare specimen was observed which was eighteen years old, and was bearing one to two fruits each year.

Domestic Uses.

In Africa, America, and the West Indies the bark of the stem is used in the manufacture of ropes.

The hollow leaf-stalks are often used as trumpets by the natives of Guam, some of whom excel in sounding military bugle calls upon them.

The property of the papaw to render meat tender is commonly made use of by cooks, who wrap the leaves round fresh meat, or place a piece of the green fruit in the water in which the meat is being boiled, or drop a little of the fresh juice in the vessel in which the meat is being cooked. In its tropical home the papaw is put into the pot with meat, and enters into cereals, soups, stews and other dishes. Most of the half-breeds in South America and the adjacent islands are particularly given to meat diet; many of them eat it raw, sometimes in a state of partial decay; and here the papaw is brought into use, being eaten with the flesh or rubbed over it before it is eaten.

In the Gold Coast Colony the leaves are added to the water when washing clothes to remove stains. In the Philippine Islands water in which the leaves have been boiled is used to wash off blood stains. In the West Indies the green leaves or slices of the green fruit are rubbed over soiled and spotted clothes, and its power of dissolving stains has earned for the papaw the name of 'melon bleach'. Elsewhere water in which a portion of the fruit has been steeped is used in washing dyed (especially black) clothes without in any way discolouring them.

Again, women in Brazil and the West Indies use the juice of the unripe fruit as a cosmetic; they apply it for freckles and for making the skin smooth and delicate. Says Kilmer: 'The strange and beautiful races of the Antilles astonish the eyes of the traveller who sees them for the first time. It has been said that they have taken their black, brown, olive and yellow skin tints from the satiny and bright-hued rinds of the fruit which surround them. If they are to be believed, the mystery of their clear, clean complexions, and exquisite pulp-like flesh arises from the use of the papaw fruit as a cosmetic. A slice of the ripe fruit is rubbed over the skin and is said to dissolve spare flesh and remove every blemish. It is a toilet requisite in use by the young and the old, producing according to the words of a French writer "the most beautiful specimens of the human race".'

When the natives of New Caledonia run short of tobacco they smoke the leaf of the papaw as a substitute. Writing from Nukahiva in 1879, M. Jouan, *capitaine de vaisseau*, tells of the trouble he experienced to keep donkeys away from his papaw trees, such was the attraction of the leaves for those animals! On the other hand, the French sailor says that the smell of the seeds was too much for the cats which turned up their noses and beat a hasty retreat.

That asses, however, are not the only members of the equine family that have a craving for the papaw, was observed by a most reliable witness, Brother Joseph Pascual, now residing in St. Xavier's College, Bombay, and from 1922 to 1923 in charge of Gayaba, a plantation situated ten miles from Madang in pre-war German New Guinea. According to the witness, Mauritz, a small long-tailed chestnut horse, imported into New Guinea from one

successfully tried at the Hawaii Experimental Station on young plants: superphosphate, 800; sulphate of potash, 315; nitrate of soda, 250; sulphate of ammonia, 190; and black sand (volcanic ash), 445 parts. This has been applied at the rate of one pound per tree at planting time. In the Bombay Presidency, house, farm, or stable refuse, twenty cartloads per acre, has been used with success. It has also been found that two ploughings and two harrowings just before sowing the seed improve the growth.

Once established, the plant is capable of enduring a wide range of moisture variations in the soil, but it is very sensitive to waterlogging. Until the blossoming stage is reached the two kinds of tree are indistinguishable, and hence twice the desired number of seedlings must be planted, and all the males, except four per acre, cut out when they are recognisable. In some localities the plant begins to grow fruit in seven months; in others, eighteen to twenty months from the seed. The fruiting is abundant and continuous. In the course of one season a wild tree has been known to yield from two to three hundred fruits varying in size from a golf ball to a cricket ball. The cultivated plants may be made to yield from twelve to sixty fruits, weighing from five to twenty pounds each.

The fruits of the papaw are borne round the stem in such a way that they interfere seriously with one another's growth. It is, therefore, advantageous to remove a certain number of them to allow the rest to develop better. The difficulty is to hit on exactly the right amount of thinning to get the greatest weight compatible with the greatest number of fruits. This can only be obtained by practice and in the meantime it is advisable to remove only such fruits as are obviously going to be badly squeezed.

It is also a good thing to cut off the top of the young tree, thus forcing it to branch. Each branch bears fruits, and the bearing capacity of the tree is multiplied. It has also been observed that the branched plants were less frequently damaged by winds, and that the fruit was easy to watch and to harvest. The system of branching is very beneficial in places where the nights are cold, since the plant is protected from frost, and the fruit is produced near the ground.

The fruits on the tree must be protected from the direct rays of the sun or they scorch and split. The dead leaves of the tree should be removed as they dry up. The fruit is to be cut from the tree when full sized, but green, and is laid on soft straw to ripen. The even ripening of the papaw is a matter of considerable practical difficulty.

As a rule the tree is played out after five years' continuous cropping. Kilmer reports that a rare specimen was observed which was eighteen years old, and was bearing one to two fruits each year.

Domestic Uses.

In Africa, America, and the West Indies the bark of the stem is used in the manufacture of ropes.

The hollow leaf-stalks are often used as trumpets by the natives of Guam, some of whom excel in sounding military bugle calls upon them.

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of the neighbouring islands, was always inclined to leave the beaten track and to make a bee line for the nearest papaw tree—papaws grow wild in those parts—and Mauritz's rider could neither doze nor daydream, else he would be brought back to the stern reality under a papaw tree with Mauritz greedily devouring the leaves. But it was not only the leaves that Mauritz ate; he also sampled the fruits which he took whole—skin, flesh and seeds. And if the fruit happened to be somewhat over-ripe it was a sight to see Mauritz gobbling up the dainty with his heart in his mouth, and with the golden coloured juice and squash dripping from the corners of his lower lip.

It would also seem that in South America the younger generation makes use of the seeds to indulge their sporting propensities. As the seeds are encased in a slimy coating advantage is taken of this by playful youngsters who spread them out on a board, and by this means form a 'slide', the counterpart of the frozen gutter so agreeable to northern urchins!

In Upper Tongking, among the Tho and Man hill tribes, the fruits are fed to pigs. Throughout the West Indian islands the fruits and the leaves are fed to old hogs or poultry in the belief that their flesh will without fail become tender.

Food.

The papaw is not everywhere held in like esteem. The natives of Guam and the Marquesas do not seem to set any store by it, they only eat it when there happens to be a scarcity of other kinds of fruit. This is all the more strange because the inhabitants of the Loyalty Islands and of the other coral islands in the Pacific relish the papaw as a welcome addition to their otherwise scanty fare.

Elsewhere the papaw is considered a wholesome and nutritious food, and consumed in large quantities at all stages of its development. In every West Indian and South American village one will find a place where the native products are bought and sold, and where the wayfarer is sure to come upon an abundant supply of papaws.

As an article of food the papaw is prepared in a score of ways and made into a variety of edible dishes and delicacies.

The green fruit is cooked in curries, and is made into plain and spiced pickles which are highly esteemed. It is also boiled or stewed, and served as a vegetable. In this form it makes a splendid addition to poultry mash; and, if mixed with lime juice and sugar, is an excellent substitute for apple sauce. Europeans in Indo-China prepare it as they would salsify or artichoke.

In Malaya the green fruit, peeled, boiled, cut into small pieces, and dressed with oil, vinegar, salt and pepper is served as a vegetable. It is said to be very palatable and very similar to squash in taste.

The half-ripe fruit lightly fried in butter is a good addition to meat *à la jardinière*, and also a good ingredient in chicken or lobster salad.

The following is a useful recipe for the preparation of papaw

jam: 'Choose fruit three-quarters ripe; remove all skin and seeds, chop up the fruit into small pieces; weigh; add equal weight of sugar, also some green ginger (cut into small pieces), 2 oz. of the latter being sufficient for 6 lb. of fruit; cover up the fruit and sugar, and let the latter dissolve during the night; boil up the next morning until done.'

When not quite ripe the fruit makes a good salad if cut into slices, dressed with oil, vinegar, salt and pepper, and prepared one hour before it is served. In combination with lettuce and sliced cucumber, papaws make a wholesome and nourishing salad.

The fruit, just before ripening, is peeled and sliced, macerated in cold water, with frequent changes of water for some hours; the macerated fruit is then dropped into boiling water, boiled sharply, and served as a vegetable.

The ripe fruit is generally esteemed as a table fruit, and is then eaten uncooked. It has been described as sweet, refreshing, and agreeable; but, every one will admit that it may be sickly, sweet, and insipid. The sweetness of its resinous, pulpy juice often clings to the tongue and remains prevalent for hours. In fact the stranger has first to develop a taste before he can enjoy the flavour of the fruit, and acquire a liking for it. Some people prefer to eat the papaw with salt, with salt and pepper, with a little sugar, with fresh lemon or lime juice, with sherry and cream.

In the Gold Coast Colony the ripe fruit is sometimes cooked together with corn and palm oil. In the West Indies and South America it is combined with some acid fruit and made into tarts; and at the sugar houses slices of the papaw are often seen seething in hot syrup, and pies, shortcakes, sherbets, and pickles from the fruit are greatly relished.

Excellent preserves are made of the ripe fruit, which, for this purpose, is boiled down in sugar and candied. In Indo-China the preserves are flavoured with kirsh or marasquino.

The ripe papaw is also made into jam, marmalade, jelly; it is candied, iced, crystallized and made to rival the best products of the confectioner's shop. 'Le fruit du papayer se transforme, par la confiserie, en un fruit confit d'un goût très fin et délicat rappelant celui du marron glacé associé à celui de la noisette.'

The seeds are eaten as a delicacy. They have an agreeable taste somewhat like water cress; and a piquancy suggestive of mustard. Macerated in vinegar they are served as a condiment. The natives of the tropics quite often chew them to quench their thirst.

In Malaya the small fragrant flowers of the male plant are used in the manufacture of a syrup.

Finally, when a tree has become unproductive and is cut down, the soft, pithy heart is carefully removed and grated and served in just about the same manner as a cocoanut.

Popular Beliefs.

The papaw is credited to be possessed of latent and strange powers, some of them so strange that they are here set down under the heading of popular beliefs.

In Barbados the flesh of animals is reported to be hung in the papaw tree overnight in order to soften it. The same idea prevails all over India and this practice is no doubt resorted to by domestic servants and meat and fowl are often hung in the branches of a papaw tree to make them soft and tender.

The statement has likewise passed current that the emanations from the papaw tree will dissolve and digest albumin. Another statement has it that if male animals browse under the papaw tree, they thereby become emasculated.

In Africa the odour emitted by the flowers is believed to be a cause of disease.

A popular belief prevails amongst all classes of women in Southern and Western India that if a pregnant woman partake of even a moderate quantity of the fruit or of the seed, abortion will be the probable result.

In Tongking people suffering from fever are told not to eat of the papaw fruit.

In Kelantan the milky juice of the unripe fruit, mixed with the juice of the immature capsules of the horse-radish tree and the white of a lizard's egg, is used as a poison; when taken internally this is said to be followed by great abdominal pain and the presence of blood in the urine.

The papaw has been alluded to as the mustard tree of the Scriptures.

Medicinal Uses.

A plant so universally distributed and possessed of such varied properties, naturally occupies an important place in native materia medica. Though of relatively recent introduction into India it is, nevertheless, a part of the armamentarium of Ayurveda and Yunani practitioners alike. Medicinal properties are ascribed to practically every part of the tree: the root, the leaf, the seed, the fruit, and the milky juice.

To begin with the root, it is said to be a generative tonic. In Cambodia it is considered diuretic, and it is given internally to arrest the flow of blood in abnormal uterine haemorrhage. In French Guinea it is credited with anthelmintic properties, and as a vermifuge a preparation is recommended consisting of leaves and twigs of purslane 2.8 gram, fresh papaw root 0.75 gram, water 48 oz., the whole boiled down to 32 oz. In the Gold Coast Colony it is said to cure yaws and also piles: the root is ground up and mixed with salt forming a paste which is then treated with water, and the resulting solution is used as an enema; this is supposed to cause abortion in pregnant women, and its use is probably restricted to educated native women of social standing. In Mauritius the dry root has been used successfully in the treatment of kidney trouble.

As regards the leaves, they are used as a worm remedy in French Guinea. A decoction is given as a purgative to horses, and has been recommended for the treatment of bots; but Steyn in South Africa has experimentally disproved its efficacy for this purpose. In the Gold Coast Colony the dry leaves are steeped in

water and the yellowish-red liquor is drunk to cure stomach trouble. In the Philippine Islands a decoction of the leaves is applied as a lotion to wounds and atonic ulcers, or the boiled leaves are crushed and made into a poultice. In the Santal Parganas of India the leaves are reputed to promote the secretion of milk: they should be gently bruised and heated in a pan and applied warm to the breast. In Western India the leaves are used externally for nervous pains; the leaf may be either dipped in hot water or warmed over a fire and applied to the painful part. In Southern India the bruised leaves applied as a poultice are said to have an excellent influence in reducing elephantoid growth. They are also used to extract guinea-worms: an ounce of the leaf is rubbed with sixty grains of opium and sixty grains of common salt, and the paste applied to the affected part—'of course the worm has to be wound out in the usual manner, but it always comes out more quickly and easily when treated in this way'.

To come to the seeds, wherever the papaw tree is found growing its seeds are used as anthelmintic and emmenagogue. In India their juice is made into pessaries to procure abortion. The juice, or a paste obtained by grinding the seeds with glycerin, is used as a cure for ringworm and psoriasis. Mixed with honey the seeds are given to expel roundworms; they are also said to be useful in dyspepsia and in enlargement of liver and spleen. In Cambodia they are prescribed in bites and stings of poisonous insects. In Central and South America they are given as a thirst quencher, and they form a component part of a drink used in fever; they are also used as a carminative.

Furthermore, the ripe fruit is alterative. It acts as a mild laxative and, if regularly eaten every morning, corrects the habitual constipation so common in India. It also acts as a mild cholagogue; hence its use for piles, and for enlarged liver and spleen; to reduce an enlarged spleen the fruit is preferably taken dry and salted. In some parts of India the ripe fruit is said to be useful in chronic diarrhoea, and in some of the Malay islands it is given in dysentery. Syrups, wines, elixirs made from ripe fruit are said to be expectorant, sedative and tonic. The green fruit is a mild laxative and diuretic; when made into a curry it is eaten by women to excite secretion of milk; it possesses ecbolic properties and is often resorted to by natives to induce criminal abortion. The mature green fruit, sliced, dried and powdered, is given in doses of from 5 to 20 grains for dyspepsia. In the Philippine Islands, more especially in the province of Bulakan and in Pampanga, a decoction of the green fruit is a popular remedy for indigestion. In the West Indies a slice of the green papaw is rubbed over the pimples which accompany the first stages of the yaws, to abort them; and it is claimed that the ulcers which follow the pimples may also be cleaned in a similar manner. In one instance apparent clinical benefit from eating the fruit was claimed by a diabetic patient; but Bischoff, Long and Sahyum failed to discover any hypoglycaemic action when feeding the fruit to rabbits.

Finally the milky juice or latex has among others a well known medicinal property, for the discovery of which the world is in

the first instance indebted to an old negro woman. Cossigny relates that on her master's farm this woman was entrusted with the humble task of feeding the pigs. Now it happened that she was suffering from worms and had tried many a remedy, but thus far without any success. In course of time she noticed that whenever she fed her charges with slices of green papaw, the animals passed worms. Putting two and two together she started eating sliced green papaw and was relieved of her trouble. On hearing of this unexpected cure the men of science attributed it to the milky juice or latex contained in the green papaw; and a series of experiments afterwards proved that their surmise was correct.

The milky juice of the unripe fruit has ever since been considered anthelmintic and used as such, especially against roundworms. The following mode of administration is still adopted in Mauritius: 'Take of the fresh papaw milk and honey, of each a tablespoonful; mix thoroughly; gradually add three or four tablespoonfuls of boiling water, and when sufficiently cool take the whole at a draught, following its administration two hours subsequently by a dose of castor oil to which a portion of lime-juice or vinegar may be added. This may be repeated two days successively, if required. The above is a dose for an adult, half the quantity may be given to children between seven and ten years of age, and a third, or a teaspoonful, to children under three years. If it cause griping, as it occasionally does, enemas containing sugar have been found effectual in relieving it.' In Brazil the juice is given in very small doses to avoid intestinal inflammation.

The medicinal uses of the latex are not however limited to the removal of worms. The author of the *Makhzhan* mentions it as a remedy for haemoptysis, bleeding piles, and ulcers of the urinary passage; it is also useful in dyspepsia; rubbing the milk in, two or three times, cures ringworm or psoriasis causing a copious exudation attended with itching. The juice is often used externally to prevent suppuration. Kilmer writes: 'A malady which the natives call the "cocoa bag" is a troublesome tropical disease, reputed to be hereditary and contagious; at all events it seems to lurk in the blood of persons of otherwise apparently good health and habits. Suddenly the victim becomes a mass of offensive sores, debilitated, etc. The native doctors add the papaw fruit to the diet drinks used in this disease, and succeed in moderating its violence at least. To the sores a paste made with the papaw milk as one of the constituents is also applied.' Again: 'I witnessed a most striking cleansing of a black foot in which the chiga had bored and laid its eggs, producing a mass of foulness beyond description. Here a paste of the papaw milk was pushed into the seething mass and kept for forty-eight hours. It was then flushed, curetted, and antiseptics were applied. A clean wound which readily healed resulted.' The juice will remove pimples and thickened skin as in eczema and corns. It has been used successfully for stomach trouble; it is a reliable stomachic, and is slightly laxative; but it should not be given to pregnant women, as it is emmenagogue. It is applied locally to the *os uteri* to procure abortion. It is also said to be a certain remedy in cases of scorpion

sting, a statement which has been experimentally disproved by Caius and Mhaskar. The milk has been employed in splenic and hepatic enlargements with good results; a teaspoonful with an equal quantity of sugar divided into three doses was administered daily.

The latex is slightly caustic and irritating to the skin, so much so that the collectors get blistered fingers. It has great digesting properties; if dropped on raw meat it dissolves it in a few minutes, and it is, no doubt, to this property that it owes its reputation as a digestive. It has long been used for whooping-cough in Honolulu. It has also been given with good results in diphtheria. A solution of 10 to 30 drops, applied as a paint, rapidly dissolved the false membrane. A number of cases in a hospital for children were cured by this treatment.

The milky juice is extracted by making shallow incisions with a bone or ivory knife, or a wooden splinter, in the rind of the mature but unripe fruit; the juice rapidly exudes from the cuts and is collected in a cup held beneath, then spread on glass to dry in the sun or, if the weather be wet, over a stove or in a hot-air chamber. Drying should be effected without delay but should not be too rapid, a temperature of about 100°F. being the best. The process should be completed in about 24 hours. When the material is crisp-dry, it is reduced to a fine powder, or made into a granular form, and marketed as 'papain'. About 5 to 8 oz. dried papain may be obtained per tree in a year, or an average of about 150 lbs. per acre. The fruits may be tapped at intervals of two or three days, and are not removed from the tree until they cease to yield. Good quality papain may fetch from 7 to 15*s*. per lb.; but the demand is limited and irregular.

Papain.

The term 'papain' is unfortunately applied both to the dried juice of the papaw and to an albuminous digestive ferment obtained from this by precipitation with alcohol. In commerce there are a number of preparations claiming to be the ferment of the papaw, sold as *papain*, *papayotin*, *papoid*, *caroid*, *vegetable pepsin*, etc. On examination several of these substances were found to be merely the dried and powdered latex of the papaw, bearing the same relation to the true separated ferment as the dried mucous membrane of the stomach might bear to purified pepsin. As confusion reigns supreme in the literature referring to this subject, and as, except for a possible question of degree, the properties and uses of the latex and the ferment are the same, no attempt has been made here to treat the two separately.

As it occurs in commerce, papain is a greyish, fine powder, which in appearance, odour, and taste strongly suggests pepsin. Its natural colour is light brown; but bleaching is commonly practised by manufacturers. In fact much sophistication obtains in the preparation of papain. The French product is usually mixed with starch which is added as a preservative. As starch, however, is not naturally present in the fruit, it rightly figures in the list of adulterants which also includes bread, arrowroot, the milk of

the wild cactus, the milk of gutta percha, boiled rice, etc. Adulteration with boiled rice, to the extent of 10 per cent, is a clever Indian adulteration difficult to detect.

Papain, which acts as a digestant in acid, alkaline, and neutral media, is used to prepare foods for assimilation, and figures largely and prominently in foods for invalids and children, in chewing gums, etc. It is extensively used as a digestive in France and Germany, and has been given with good results to children. Nevertheless, the digestive power of the papaw falls greatly short of the claims made for it. It is commonly asserted that, when the stomach is acid, it is much superior to pancreatin, because its action is not markedly affected by contact with the acid; but in experiments made by Wood with a papoid from one of the most renowned manufacturers no digestion occurred, and it is probable that most of the article of commerce is inert. As a matter of fact many practitioners prefer to papain the milky juice fresh from the tree, which is not only more efficacious as a digestive, but is in addition a good taeniacide. It has been, moreover, shown that the bleaching of papain is a great mistake and that in a representative preparation the ferment action is most marked when all the proteins are associated together in the natural form.

'Acid glycerole of papain' is largely used in dyspepsia as it dissolves mucus in the stomach, which prevents the absorption of food in cases of indigestion, colic, flatulence, gastric ulcers; and it is also greatly recommended as an aid to the nutrition of patients suffering from phthisis. The liquid preparations are said to be suitable to reduce enlarged tonsils and adenoids, but unless there is some contra-indication to thorough surgical procedure, the practice is not particularly good. For this purpose a solution of 1 to 2 of papain in 10 each of glycerin and water is swabbed over the parts. A solution of this strength is used as an application to fissures and ulcers of the tongue; though lozenges are usually preferred for syphilitic ulcers of the tongue and throat. A stronger solution, 1 part of papain in 2 parts each of glycerin and water, is sprayed into the throat to dissolve false membrane, and is applied in compresses to warts to effect their dispersion and to malignant ulcers to cleanse them. It has even been used as a local application in epithelioma; but papain as a curative agent in cancerous affections has been unanimously found wanting. A 5 per cent solution with 2½ per cent of sodium carbonate is used as drops into the ear in chronic otorrhoea. For thread-worms papain, 5 or 10 grains in a half pint of water, may be thrown into the colon as high as possible. A pigment well rubbed is used to remove corns, warts, or any hardness of the skin, and in chronic eczema.

The proteolytic power of papain is exerted on living as well as on dead proteins, and injections into the tissues bring about topical destruction. Intravenously administered it destroys the blood cells and acts as a powerful poison. Injections into tumours have been made in the vain hope of destroying their vitality, but it has been used with more or less success for the removal of false membrane from the pharynx. Hypodermic injections in cases of elephantoid

growth usually results in fever and intense local irritation pointing to the unadvisability of adopting such a mode of treatment.

For internal use papain may be encapsulated or dissolved or emulsified with glycerin and aromatics, a solution of this kind making an admirable vehicle for salicylates, mercurials, iodides, iron salts, and other medicaments that might irritate the stomach. It may likewise be associated with diastase or pancreatin and given about two hours after meals, or sooner if distress be felt. Like all the digestive ferments, it must be withdrawn after a short course, except in cases in which there exists some organic lesion from which recovery cannot be expected, and artificial digestion has become a constant necessity. It has no antiseptic power and even strong solutions will putrefy.

Pa-pay-ans.

In the words of Kilmer, 'the papaw has been brought to America as a cure for the national disease, dyspepsia'. Indigestion, to call it by its name, is one of the most unpleasant joy-killers to which the normally healthy man is subject. Unless it becomes too obnoxious, it is usually endured as an annoyance, and treated as a natural consequence of the daily routine. The sufferer means to reform his habits some day. His intentions are determined while an attack is on; but when the discomfort passes and temptation again beckons, forgetting all his good resolutions he fills himself with what Shakespeare calls 'the perilous stuff that weighs about the heart'. Hence the shelves of the chemists are replete with brands of pills, lozenges, tablets, powders, wines, and elixirs without end for 'removing flatulence, vertigo, weakness, and other symptoms of indigestion quickly and pleasantly' . . . and for 'promoting appetite, digestion, and the elimination of toxic and waste material'.

One such a drug is 'Pa-pay-ans (Bell)', the selling point of which was the supposed presence of papain. This ferment, Bell and Company alleged, was present in their tablets and they claimed it to be 'the digestive principle obtained by our own exclusive process from the fruit of *Carica papaya*'. As long ago as 1909, the Council on Pharmacy and Chemistry endeavoured to detect the presence of papain and to determine the digestive power of the tablets, but with negative results. The efforts of other chemists proved equally futile. Pa-pay-ans was essentially: charcoal, baking soda, ginger, and oil of wintergreen. And, consequently, the drug possessed the virtues—and they are few—and the limitations—and these are many—inherent to a mixture of baking soda, ginger, and charcoal.

In January 1914, Bell and Company changed the name of the product 'Pa-pay-ans (Bell)' to 'Bell-ans'. As the *Journal of the American Medical Association* remarked soon after, it seemed probable that, as the name of a nostrum of this kind is the manufacturer's most valuable asset, the name was hardly changed, as was alleged, for purely euphonious reasons. It seemed more likely that as analyses had indicated there was not, and probably never had been, any appreciable amount of papain in the product, the

change of name might be due to the fear that some day the misleading name might bring the preparation in conflict with the Federal Food and Drugs Act.

Chemical Composition.

Upon standing for a few minutes the juice separates into two parts, an aqueous liquid and a white somewhat coagulated pulpy mass. In the aqueous portion is an albuminous substance possessed of enzymic properties, papain. According to the researches of Martin—and others—papaw juice contains besides papain, a water-soluble lipase, a lab or milk-curdling ferment, globulin, albumin, and two phytalbumoses. No peptones occur in the juice, but leucin and tyrosin are present.

The seeds contain a glucoside, caricin, which resembles sinigrin. They also contain the ferment myrosin, and by the reaction of the two a volatile pungent body is produced, smelling like oil of mustard.

The leaves have been reported to contain a glucoside, carposide.

The fruit contains vitamin C in abundance, with less of vitamin A, and still less of B.

An alkaloid, carpane, was obtained by Greshoff from the fruit and seeds, but especially from the leaves, of the papaw tree, and was afterwards studied by Merck, van Rijn, and Barger. According to Plugge, the alkaloid depresses the action of the heart and adversely affects respiration; whilst von Oefele recommends its application by subcutaneous injections as a substitute for digitalis in cardiac diseases. Chopra records that 'from the data already in hand, it is evident that it is not very toxic. A dose of 5 mgm., when injected intravenously in experimental animals, causes only a slight fall of blood pressure which, however, returns to the normal level within a very short time. The action of the heart is depressed and both the ventricles and auricles show evidence of slight depression. The respiration is not depressed to any great extent. The volumes of the different organs are very slightly affected, if at all. The alkaloid has not been used in therapeutics.'

Merck list carpaine hydrochloride as a cardiac tonic, and diuretic; for use in mitral insufficiency and aortic stenosis.

Commercial Possibilities.

By way of conclusion a few words may be said about the commercial and tradal prospects of either the papaw or papain. As far as the fruit is concerned its marketability depends evidently on three factors: transportation, demand, and supply.

The transportation question should not offer any difficulty as long as sufficiently large quantities can be procured for exportation from the plantation to the consumers. The art of transporting all kinds of fruit has reached such a degree of perfection, that there is no reason why the papaw should prove an exception to the rule as far as its preservation on board ship is concerned. In fact, successful experiments have already been made in this line between Honolulu and San Francisco.

A far more doubtful factor is the creation of a market for the papaw from a consumer's point of view. The papaw is in no way superior, and perhaps not even equal, to the home-grown fruits of those continents where it would have to be marketed. In America, Australia, and Europe apples, pears, peaches, plums, cherries, apricots, and so on are more tasty than the papaw; and this would really be a case in which a liking for the fruit would have to be gradually developed among would-be consumers. Such an experiment is likely to prove expensive; its success may be slow in coming, if it comes off at all.

Besides this, suppose a demand for the papaw should eventually materialise, there is no guarantee that the grower could be able to provide the needed supply. This brings us to consider the question whether by any means the growers can increase their harvest of papaws according to the need of the market. From what has been said when describing the fruit-bearing capacities of the tree it follows that the grower is for ever facing the unknown. It seems to be all a question of luck whether the growing plant will prove useless or fruit bearing; and, as long as these circumstances prevail, the very idea of creating a market for the papaw is somewhat in the nature of a wild goose chase.

Finally as regards the commercial prospects of papain; the latter article being a medicinal drug with well defined therapeutic properties, it stands to reason that the market for papain will mainly be determined by the needs of manufacturers of pharmaceutical products. As was already pointed out, the demand for papain has, in fact, been both limited and irregular; and there is no likelihood of its ever becoming a widespread constantly used commercial commodity.

The United States of America, the largest consumer, import annually to the value of from £15,000 to £16,000. Ceylon is one of the principal exporters: from 1911 to 1913 the exports amounted to 6,111; 12,920, and 18,548 lbs. representing a value of 34,221; 50,668, and 71,849 rupees—numbers which in respect to quantity and value bear no comparison with other commercial commodities.

There is, therefore, very little hope of a prospective boom either in papaws or in papain.

Vernacular Names.

Adang: Adiba—; *Annam*: Du du, Phan qua thu, Trai du du—; *Arabic*: Aanabahe-hindi, Amba hindi—; *Ashanti*: Bororfere, Brorfenini, Brosownini—; *Awuna*: Adiba, Aduba, Yevudiba—; *Bengal*: Papeya, Pappaiya, Pepiya—; *Betsimisaraka*: Papay, Voapaza—; *Bombay*: Papai—; *Brazil*: Mamamoeiro, Mamao, Mameo, Mamerio, Mamoeiro, Papai—; *Burma*: Pimbosi, Simbosi, Thimbaw, Timbosi—; *Cambodia*: Lohong si phle, To hong phle—; *Canarese*: Goppe, Pangi, Pappayi, Parangi—; *Carib*: Ababai—; *Cochin-China*: Du du, Kay du du—; *Cutch*: Papaya—; *Deccan*: Popai—; *Egypt*: Babas—; *English*: Melon Tree, Papaw, Papaya, Papeta, Pawpaw, Tree-melon—; *Ewe*: Adiba—; *Fanti*: Borosow, Borosownyin—; *French*: Figuier des îles, Figuier des nègres, Melon

des tropiques, Papayer, Papou—; *Fulah*: Budibaga—; *Ga*: Akpakpa—; *Gujerat*: Chibda, Erandakakdi, Jhadchibhadi, Kath, Papayi, Papia—; *Hausa*: Gwanda, Gwanda masar—; *Hindi*: Andakharbuja, Papaya, Pepiya, Popaiya, Urunkhurbooza—; *Konkan*: Popai—; *Krobo*: Gor—; *Kwang Tung*: Mou Koua—; *Laos*: Mak hung—; *Madagascar*: Mapaza, Paza—; *Malaya*: Papaya, Pohunbetek—; *Malayalam*: Kappalam, Karmmosu, Pappayam—; *Marathi*: Papaya—; *Maya*: Put—; *Mexico*: Chakarateca, Jacarata, Lechoso, Melon zapote, Papaya, Papaya los pajaros, Papayo—; *Mundari*: Ambritdaru, Amritdaru, Dindapabita, Jomejaradaru, Pabitadaru—; *Paraguay*: Mamon—; *Persian*: Aanabahe-hindi, Ambahindi—; *Philippines*: Capayo, Kapayo, Papaya—; *Portuguese*: Papaia—; *Punjab*: Arandkharbuza, Kharbuza—; *Samoa*: Esi, Esi fafine, Esitane—; *Sanskrit*: Chirbhita, Erandachirbhita, Malikadala—; *Sinhalese*: Copal, Cucaracho—; *Sind*: Chilbhado, Katha, Katha chibhadu, Paputa—; *Sinhalese*: Papaw, Pepol—; *Spanish*: Papaya—; *Tagalog*: Capayas—; *Tamil*: Pappali, Pappayi, Parangiyamanakku, Pasalai—; *Telugu*: Boppayi, Madannaba, Madhurnakamu—; *Tongking*: Du du—; *Tulu*: Bappangayi—; *Twi*: Brorfre—; *Urdu*: Erand-kharbujah—; *Uriya*: Omrytobhonda, Popoya—; *Visayan*: Capayas—; *Yemen*: Amba hindi—; *Yucatan*: Chich put, Put—.

THE ORNITHOLOGY OF TRAVANCORE AND COCHIN.

BY

SÁLIM ALI.

With Notes by HUGH WHISTLER.

PART II.

(*With two plates*).

(*Continued from page* 843 *of volume* XXXVII).

SYSTEMATIC LIST.

FAMILY: CORVIDAE.

Corvus macrorhynchos culminatus Sykes. The Southern Jungle Crow.

Not collected by the Survey, but 9 specimens were kindly procured from the Trivandrum neighbourhood by the Superintendent of the Museum in connection with the revision of this form in the Eastern Ghats Survey. Mr. Whistler measures these as follows:

	Bill.	Wing.	Tail.
5 ♂♂	54.5-59	273-294	157-169.5 mm.
4 ♀♀	52-62	264-270	152-169 mm.

(The above measurements include adults and first year birds.)

Noted at: Santhanpāra (3,500 ft.—only once !), Thattākād (200 ft.), Neriāmangalam, Kotāmangalam, Kottāyam (ca. S.L.), Peermade (3,200 ft.), Kūmili (3,000 ft.), Periyār Lake Environs, Camp Derāmalāi (3,000 ft.), Rājampāra (1,350 ft.), Tenmalāi (500 ft.), Trivandrum (ca. S.L.), Cape Comorin (ca. S.L.), Arāmboli (250 ft.), Chālakūdi, Wadakkāncheri (400 ft.), Nemmāra (300 ft.), Trichūr, Karūpadanna (ca. S.L.), Ernakulam, Cochin Town.

The species was absent at Mūnnār (5,000 ft.), Balamore Estate (2,000 ft.), Kūriārkūtti (1,600 ft.) and Pādagiri (3,000 ft.). The last agrees with Kinloch's statement that it does not occur in the Nelliampathies at all. It was exceedingly rare at Marāiyūr (3,500 ft.), Santhanpāra (3,500 ft.), Peermade (3,200 ft.), Kūmili (3,000 ft.), Camp Derāmalāi (3,000 ft.) and Rājampara (1,350 ft.), only one or two examples being noted at each of these camps. It appears to avoid the hilly tracts and prefers the low country where it frequents the neighbourhood of towns and villages and is abundant, often to the point of being an unmitigated nuisance as any one who has had the pleasure of staying in the Trivandrum Dak Bungalow can testify. According to Ferguson (*J.B.N.H.S.*, xv, 255) the Jungle Crow does not frequent the hills in South Travancore, but is common at Peermade. During my camp at this place between 20 and 26 February I only saw a single example which also appeared as if it had urgent business elsewhere! It arrived from nowhere, perched on a tree-top for a few minutes and then disappeared.

In the Pālni Hills, Fairbank (*S.F.*, v, 407) does not appear to have seen it above Vilpati village, ca. 5,500 ft.

The race *culminatus* occurs throughout Ceylon, and birds from that island and from the Travancore-Cochin area appear identical in all respects.

Breeding: On 4 March (Periyār Lake Environs) an individual was observed carrying a twig in its bill, and another on 30 March was similarly occupied.

Ferguson gives the nesting season 'in the hills and also in the low country' as April to June. 'Bourdillon and others took eggs from 27 February to 20 May in Travancore' (*Nidification*, i, p. 9).

In Ceylon Legge gives the breeding season as 'May, June and July, most nests being built in May' (*Birds of Ceylon*, p. 348). Wait on the other hand says the breeding season is 'from June till August' (2nd ed., p. 12).

Corvus splendens protegatus Madarász. The Ceylon House-Crow.

Specimens collected: 506 ♀ 2-4-33 Trivandrum (S.L.); 567 ♂ 11-4-33 Cape Comorin (S.L.); 737 ♂ 28-7-33 (Mārūthānkūzhi 50 ft.) Trivandrum Environs.

Elsewhere noted at: Thattākād (200 ft.), Neriāmangalam, Kotāmangalam, Kottāyam (S.L.), Wadakkāncheri (400 ft.), Nemmāra (300 ft.), Trichūr, Karūpadanna (S.L.), Ernakulam, Cochin Town.

Absent at: Marāiyūr (3,500 ft.), Mūnnār (5,000 ft.), Peermade (3,200 ft.), Kūmili (3,000 ft.), Camp Derāmalāi (3,000 ft.), Balamore Estate (2,000 ft.), Kūriārkūtti (1,600 ft.), Pādagiri (3,000 ft.). According to Kinloch (*J.B.N.H.S.*, xxvii, 939) it does not occur in the Nelliampathies at all.

Colours of bare parts: Iris brown; mouth brownish-slate; bill, legs, feet and claws black. Gape in juvenile pink.

[The series obtained by the Survey consists of one adult ♂ and two immature birds, and unfortunately I have been unable to supplement these with other Travancore specimens. There are none in the British Museum which has a very poor series of this common bird. The specimens measure:

	Bill.	Wing.	Tail.
567 ♂ ad.	55.5	284	169 mm.
737 ♂ imm.	53	253	146.5 mm.
506 ♀ imm.	46.5	250.5	156 mm.

The available series of *C. s. protegatus* in the B.M. consists merely of one pair of adults and one pair of immature birds. These measure:

	Bill.	Wing.	Tail.
♂ ad.	50.5	268	163 mm.
♂ imm.	49	235	131 mm.
♀ ad.	46.5	251	152.5 mm.
♀ imm.	45	220	130 mm.

In a variable species like the Crow—and the adult ♂ is much larger than the average of the House-Crows which I have measured—this series is not sufficient to settle whether Travancore and Ceylon birds are the same in size, though it suggests that the Ceylon bird is really smaller. In colour both series agree, and if the Travancore specimens are compared with specimens from the centre of the Peninsula, the difference in colour is most marked. Our Travancore specimens must therefore be considered to be *protegatus* unless and until evidence is forthcoming that Travancore birds definitely differ in size from those of Ceylon.—H. W.]

The House-Crow is a common and abundant species throughout the low country especially about towns and villages and in the neighbourhood of the homesteads and 'Kopra' depots along the backwaters. 'I found it most abundant in Trivandrum town, where its numbers are about equal to those of the Jungle-Crow. At Arāmboli it was noted as less numerous than the latter.

It is absent in the hills as will be seen from the above list of localities. In the Pālni Hills also, Fairbank (*S.F.*, v, 407) found it only at the base.

Breeding: As early as 31 January (Karūpadanna) a bird was observed feeding two full-fledged young with pink gapes, evidently lately out of the nest. On 15 February (Kottāyam) a nest containing 3 eggs was located at the base of the leaves of a small coconut palm, about 14 ft., standing on a bund among submerged backwater paddy-fields. Apparently brooding had not yet commenced. On 9 April (Cape Comorin) an individual was observed carrying a thorny twig into the top of a *Borassus* palm.

Specimen No. 567 (11 April) had one testis measuring 24×13 mm., the other being aborted and discoloured. It was observed that the bird had the leg on the side of the aborted testis missing from the tarsal joint.

On 14 April (Cape Comorin) a nest was noted in a *Borassus* palm at about 25 ft. in which the young could be seen moving.

House Crows (*Corvus splendens*) bathing.

Jungle Crows (*C. macrorhynchos*) at a backwater fish yard.

Photos by Author

T. F. Bourdillon was of opinion that in Travancore although they built in May and earlier, they hardly ever laid before June. The evidence obtained by the Survey does not bear him out; Ferguson also mentions taking eggs in the Public Gardens at Trivandrum as early as February, and it seems more than likely that the majority of young, at any rate, have left the nest before the first furious onslaughts of the S.-W. Monsoon in June.

According to Legge (*Birds of Ceylon*, p. 352) the breeding season in Ceylon is from May until July. Wait (2nd ed.) gives it as 'May to August, but mainly in May and June' (p. 13).

Dendrocitta vagabunda parvula Kinnear and Whistler. The Tree-Pie.

Specimens collected: 30 ♀ 7-1-33, 87 ♂ 13-1-33 Marāiyūr 3,500 ft.; 265 ♀ 11-2-33 Thattākād 200 ft.; 291 ♀ 16-2-33 Kottāyam 100 ft.; 411 ♂, 412 ♀ 6-3-33 Kūmili 3,000 ft.; 643 ♂ 21-4-33 Arāmboli 250 ft.; 706 ♂ 22-7-33 Trivandrum 100 ft.; 760 ♂ 31-7-33 (Marūthānkūzhi 50 ft.); 836 ? 11-8-33 (Pūlayanārkotta 200 ft.) Trivandrum Environs; 906 ♀ 26-11-33 Wadakkāncheri 400 ft.; 1026 ♂ 27-12-33 Karūpadanna ca. S.L.

Elsewhere noted at: Rājampāra (1,350 ft.), Cape Comorin (ca. S.L.), Chālakūdi, Nemmāra (300 ft.), Trichūr.

Absent at: Mūnnār (5,000 ft.), Santhanpāra (3,500 ft.), Peermade (3,200 ft.), Camp Derāmalāi (3,000 ft.), Balamore Estate (2,000 ft.), Kūriārkūtti (1,600 ft.), Pādagiri (3,000 ft.).

Colours of bare parts: Iris orange- to reddish-brown; bill slaty-black, paler at gape and chin; mouth slate colour; legs and feet brownish-slate; claws horny-brown or horny-black.

[Measurements:

	Bill.	Wing.	Tail.
6 ad. ♂♂	31-33.5	137-150	209-221 mm.
5 ad. ♀♀	29-31.5	131-144	196-204 mm.

With the exception of Nos. 411 and 412, the pair from Kūmili, which are rather pale, this series supports the division of South Indian birds into a pale race on the east and a dark race on the west, and the race *parvula* must undoubtedly be recognised. It only differs from the typical race in size, and of course intergrades with it.—H. W.]

The Tree-Pie is a common species in the low country, in open deciduous forest, and as Ferguson remarks, it does not (as a rule) ascend the hills, although at Marāiyūr (3,500 ft.) it was present in small numbers. Kinloch also found it in the Nelliampathies, but very rare (*J.B.N.H.S.*, xxvii, 939-44). In the hills this species is usually replaced by *D. leucogastra* as was the case in most of the localities where I have marked it absent. In localities like Thattākād and Rājampāra, where rubber plantations were surrounded by or alternated with tropical evergreen forest, both the Pies were met with side by side.

A favourite resort is rubber plantations of which there are several near Thattākād, between Kottāyam and Mūndakāyam, and elsewhere. The birds are also partial to the gardens of cocoanut, jack-fruit, mango, plantain and cashew which usually surround the homesteads by the backwaters and are such a feature of the countryside here.

Tree-Pies are invariably present among the localised associations of mixed bird species that move about in the deciduous forest in search of food, principally insects. In the evergreens their place is filled by *Dendrocitta leucogastra*, whose constant association with *Dissemurus paradiseus* has often been commented upon, e.g. by Kinloch in the Nelliampathies (*J.B.N.H.S.*, xxix, 294). As I have already pointed out in the report of the Hyderābād Survey (*J.B.N.H.S.*, xxxvi, 370) there is nothing mysterious about this association. It is merely the result of a convergence of interests which, as a rule, involves many other but perhaps less conspicuous species as well. The largest and most prominent members of such associations in dense evergreen jungle are usually the South Indian Tree-Pie and the Racket-tailed Drongo, and these two have naturally attracted the most attention from observers.

Peepal figs (*Ficus religiosa*), when available, form an important item in the dietary of these birds, and they unfailingly resort to the trees to feed in mixed avian company. At Marāiyūr they were noted as partial to plantain (*Musa*) gardens, singly or in pairs, tearing off and feeding on the inflorescence and doing considerable damage.

Fairbank (*S.F.*, v, 407) obtained it at 5,000 ft. in the Pālni Hills.

Breeding: Specimen No. 291 (16 February) had a clearly granulated ovary with the follicles measuring 1 mm. in diameter.

Nos. 411 and 412 (6 March), a pair, were both carrying twigs for a nest in leafless deciduous jungle, and were obviously ready to breed. The testes of the male measured 9×5 mm. (slaty pigmented) while the largest ovarian follicle of the female was about 2.5 mm.

On 18 April (Arāmboli), H. took a clutch of 4 fresh eggs from a nest in a Neem tree at about 25 ft., in the Camp Shed compound. The nest was a flimsy structure of Babool and other twigs surrounding a shallow cup of finer twigs and rootlets through which the contents were visible from below. The eggs were very pale reddish-white in ground colour, sparsely speckled with light brown, and measured 27×21 (2), 26×21 and 26.5×21 mm.

The male of this pair, which had the central tail feathers missing (No. 643) was shot on 21 April. Its testes measured 9×5 mm. By 28 April, when the place was re-visited, the female had apparently provided herself with another mate and laid again (?), as one of the birds was observed to leave the nest on which it had been sitting!

On 21 April—by which date only pairs were in evidence and everywhere chivvying and chasing off Jungle Crows etc. from the neighbourhood of their territories—another nest was found in a *Thespesia populnea* tree, at about 12 ft., growing on a bund in a coconut plantation. It was similar in structure to the first and contained 5 eggs, also of the same type.

None of the other specimens showed any genital development.

From the evidence it appears that it is perhaps an earlier breeder on the whole than suggested by Ferguson's 'It breeds during the S.-W. Monsoon', i.e. between the middle of May and the middle of September, though some birds may of course do so during that period. It is significant also that none of the 3 specimens collected in the environs of Trivandrum in July and August show any departure in their gonads from the normal non-breeding condition, while two of the birds are even undergoing complete post-nuptial moult. The third (11 August) is immature in post-juvenal body moult. 'Bourdillon and Stewart found it breeding almost entirely in March and April, though a few birds continued to lay until the end of June' (*Nidification*, i, 33).

Dendrocitta leucogastra Gould. The Southern Tree-Pie.

Specimens collected: 200 ♀ 3-2-33, 266 ♂ 11-2-33 Thattākād 200 ft.; 456 ♂ 17-3-33 Rājampāra 1,350 ft.; 672 ♂ 26-4-33 Balamore Estate (2,000 ft.).

Elsewhere noted at: Santhanpāra (at 4,500 ft.), Kūmili (3,000 ft.), Camp Derāmalāi (3,000 ft.), Kūriārkūtti (1,600 ft), Pādagiri (3,000 ft.).

Colours of bare parts: Iris dark crimson; bill horny-black; mouth dark slate; legs, feet and claws blackish-brown.

[Other specimens examined:

Sparrow Coll.: ♀ 20-3-14 Cardamom Hills. Wings albinistic.

Brit. Mus. Coll.: ♀ 7-12-78, ♂♀ 18-10-78, ♂ no date, ♂ 27-11-74 Mynall, Travancore (Bourdillon); ♂ no date, Travancore (Bourdillon).

Bom. Nat. Hist. Soc. Coll.: ♂♀ 14-8-93 Thekadi, Travancore (J. P. Cook), ♂ 30-12-94 Ponnalore, Travancore (F. J. Inglish), ♂ -12-90 Ponmudi.—H. W.]

The Southern Tree-Pie is essentially a bird of evergreen rain forest and sholas, and completely replaces *D. vagabunda* in such biotope. In localities like Thattākād and Rājampāra, however, where there is a mixture of the two types of forest, with either preponderating in adjacent areas, both the species may occur side by side. Cardamom sholas are a favourite haunt; the birds—pairs or small parties—are very regular components of the localised bird associations in forest, of which *Dissemurus paradiseus* is another constant member, and *Tchitrea*, *Hypothymis*, *Culicicapa*, *Phylloscopus occipitalis*, *Sitta frontalis* and *Machlolophus* some of the usual but less obtrusive partners.

The call-notes of this species are loud and more metallic than those of *D. vagabunda*, and often closely resemble those of its habitual companion the Racket-tailed Drongo. The bird has a habit of raising its tail and depressing the forepart till the body assumes a horizontal stance, and then of ludicrously bobbing or 'jumping' up and down on its perch as it utters a throaty 'chough-chough-chough' like some Japanese clockwork toy!

This Tree-Pie does not occur in Ceylon.

Breeding: In specimen No. 200 (3 February) the ovary appeared to be maturing, some of the largest follicles being about 2 mm. in diameter. No. 266 (11 February) had testes measuring 9×6 mm. and it was in freshly moulted immaculate plumage. No. 456 (17 March) from its narrow central tail feathers was apparently a first year bird with testes in normal non-breeding condition. No. 672 (26 April) had its testes enlarged to breeding size—8×6 mm.—and it had a prominent incubation patch.

Bourdillon states that its eggs may be obtained in March and the beginning of April at elevations of 2,000-3,000 ft. above sea-level. My notes tend to confirm this statement in the main, though perhaps February to April would be more correct. In suitable localities (cf. Thattākād, Rājampāra) however, it doubtless breeds at considerably lower elevations.

According to J. Stewart (quoted by Baker, *Fauna*, i, 52) it breeds in Travancore again in August, but of this I have no confirmation.

On p. 38, vol. i, *Nidification of Indian Birds*, Stuart Baker remarks on the similarity of the eggs of this Tree-Pie to those of the *formosae* and not the *vagabunda* group. Its closer relationship with the former is also confirmed by the immature plumage. First winter birds, which of course retain juvenile wings and tail, can only be distinguished from adults by the narrower, less spatulate tail feathers as in *formosae*, lacking the pale rufous tips of *vagabunda*. Mr. Whistler describes the juvenile plumage from a specimen in the British Museum as being exactly similar to the adult, save for the shape of the tail feathers and a slight brown fringing to the tips of the lesser wing coverts and rump.

Family: Paridae.

Parus major mahrattarum Hartert. The Southern Grey Tit.

Specimens collected: 90 ♂ 14-1-33 Marāiyūr 3,500 ft.; 380 ♀, 381 ♂ 1-3-33 Kūmili 3,000 ft.; 907 ? 26-11-33 Wadakkāncheri 400 ft.

Elsewhere noted at: Rājampāra (1,350 ft.).

Absent at: Thattākād (200 ft.), Peermade (3,200 ft.).

Colours of bare parts: Iris brown; bill blackish-brown; mouth pinkish; legs and feet slaty-blue; claws horny brown.

[The Survey specimens measure:

	Bill.	Wing.	Tail.
4 ♂♂ 1 ♀	11-11.5	61-66	52-55 mm.

Further specimens examined:

Brit. Mus. Coll.: ♂ 16-3-95 Motachi-mali [?], S. Travancore (Bourdillon); ♂ 21-3-95 Mynall, Travancore (Bourdillon).

This race has an unusually wide range in India and Ceylon, yet no further subspecies can be made though in the South the central tail feathers are slightly blacker than in Rajputana. Travancore and Ceylon birds are inseparable.—H. W.]

This is a bird of open and light deciduous or secondary forest and avoids evergreen jungle. Small flocks or pairs were met with, usually among the localised bird associations. Rājampāra is the only locality where it was noted as fairly common.

In the Pālni Hills, Terry (*S.F.*, x, 478) found it in the Pittur Valley.

The Grey Tit is fairly generally distributed in Ceylon.

Breeding: Specimens Nos. 380 and 381 (1 March), a pair, were evidently breeding from the condition of their organs, presence of incubation patch and worn plumage. The testes of the ♂ measured 6×4 mm., the largest ovarian follicles in the ♀ being about 1.5 mm. They were hopping about on the ground among fallen leaves etc. in open deciduous forest, collecting nest-lining

material. This would make it appear that the breeding season in Travancore agrees with that in the Nilgiris—February to May.

The main breeding season in Ceylon seems to be March to July.

Machlolophus xanthogenys travancoreensis Kinnear and Whistler. The Travancore Yellow-cheeked Tit.

Specimens collected: 134 ♂ 23-1-33, 141 ♀, 142 ♂? 24-1-33, 162 ♀ imm., 163 ?, 164 ♀ imm. 26-1-33, 178 ♀ 28-1-33 Santhanpāra 3,500 ft.; 425 ♂ 9-3-33 Camp Derāmalāi 3,000 ft.; 976 ♂, 978 ♂ 13-12-33 Pādagiri 3,000 ft.

Elsewhere noted only at Mūnnār (5,000 ft.), and as absent at Thattākād (200 ft.) and Peermade (3,200 ft.).

Colours of bare parts: *Adult*: Iris brown; bill (♂) horny-black or (♀) horny-brown; mouth pink; legs and feet bluish-grey; claws duskier. *Immature*: Gape yellow; commissure and tip of lower mandible whitish; mouth yellowish-pink; rest as in adult.

[Comparison of this fine series with the Eastern Ghats and Hyderabad Survey specimens—all fresh skins in which museum fading has not had time to take place—shows that the new race *travancoreensis* is a very good one. Compared with *aplonotus* the upper parts are a duller more saturated green, and the yellow of the lower parts is duller and more washed with olive green. The other differences in the wings noted in the original description (*J.B.N.H.S.*, xxxv, 519) are not confirmed as constant, but the white tips to the tail-feathers are smaller in *travancoreensis* than in *aplonotus*.

Mr. Sálim Ali has contributed to the problems connected with the plumages of the species as given under the above reference. Nos. 134, 142, 976 and 978 are all adult males with a glossy black crest and a broad glossy black ventral band, that is to say in the plumage commonly accepted as adult plumage for both sexes. Nos. 141 and 178 are both adult females, adult in the sense that the juvenile wings and tail have been moulted and the ovaries enlarged and granular. These birds have the green crest and olive-green ventral band already described (*loc. cit.*) from six specimens in the British Museum (marked ♂, ♀, ♀, ♀, two unsexed). As similarly mature females are found with black crests and black ventral stripes and there is no evidence to suggest that this species takes more than the customary 12 months of the genus to reach plumage maturity, one can only draw the conclusion that the females of this tit are dimorphic. If the ♂ (10-12-74 Mynall, Bourdillon Collection, British Museum) is correctly so sexed, the dimorphism must extend rarely to the adult males, but I suspect an error in sexing. This bird is not itself fully adult. In these green crested birds the black shaft-streaks in the crest are variable in size, being in one specimen almost wanting.

No. 425 is a male in juvenile plumage. It is black-crested and black-banded, differing from the adult male merely in the details usual to tits, viz., the crest is shorter and a duller less glossy black; the white spots on the median and greater coverts are washed with yellow, as are also the white outer webs of the tertiaries; the black ventral band is dull and restricted in size. Nos. 162 and 164 are both females in juvenile plumage. They are black-crested but have the olive-green ventral band as in the two adult females, that is to say they agree with the three juveniles of this form already described (*loc. cit.*) from the Nilgiris. None of these specimens have started their post-juvenal moult so we have no means of knowing whether these black-crested green-banded juveniles turn into green-headed green-banded adults or what. In *M. x. aplonotus* green-banded adult females have black crests and no green-crested female has been recorded. The dimorphism in the female plumage is evidently a racial characteristic of *M. x. travancoreensis*.

Further specimens examined:

Brit. Mus. Coll.: ♂ 4-6-77 Kodaikanal (Fairbank); ♂ ♀ 12-11-78 Mynall, Travancore (Bourdillon).—H. W.]

The Yellow-cheeked Tit was fairly common in hilly afforested localities, but absent in the low country. It was usually met with in pairs or small parties and almost invariably as a member of the localised bird associations which comprised besides of *Phylloscopus occipitalis, Culicicapa, Sitta frontalis* and other species, hunting for insects among the foliage of lofty trees such as may be found in cardamom sholas.

Black-crested black-banded, black-crested green-banded and green-crested green-banded examples were frequently met in one and the same flock. Of a pair observed at Mūnnār on 16-1-33, one was black-crested black-banded, while in the other the crest and ventral band were greenish-grey. This was also the case with another pair at Santhanpāra (21-1-33) but in this case I am not sure whether the green-banded individual had a green or a black crest. At all events I never saw a pair or flock in which both or all the individuals were green-crested which precludes the suggestion of the green-headed birds belonging to a separate species and supports Mr. Whistler's conclusion that the females of this tit are dimorphic.

According to Kinloch (*J.B.H.N.S.*, xxvii, 939-944) the Yellow-cheeked Tit is extremely common in the Nelliampathy Hills. Bourdillon and Ferguson both record it to be a high elevation bird in Travancore, abundant from 3,000 ft. upwards. It is not found in Ceylon.

In the Pālni Hills Fairbank (*S.F.*, v, 407) found it sparingly at Kodaikanal and Terry (*S.F.*, x, 478) in small parties at Pulungi and Kukal.

Breeding: No. 976 (13 December) had testes measuring 7×5 mm. and had obviously just finished breeding as it was in post-nuptial moult (body and rectrices). It was accompanied by a green-banded green-crested (?) individual. No. 978 (14 December)—testes 6×4 mm.—was also undergoing post-nuptial moult, as also was No. 134 (practically completed 23 January) with testes 6×4 mm. Nos. 162 and 164 (26 January) were young birds with imperfectly ossified skulls, in juvenile plumage with the post-juvenal moult not yet started. They were of a family party of which No. 163 (in worn plumage, moult only just starting on breast) was presumably one of the parents. The latter was badly shot and could not be sexed. No. 178 (28 January)—green-crested green-banded—had a distinctly granular ovary and was undergoing complete post-nuptial moult. It was accompanied by a black-crested black-banded individual. No. 425 was also in juvenile plumage, with the post-juvenal moult not yet started.

There seems to be no recorded evidence of any nest having been taken in Travancore. Kinloch who found several nests in the Nelliampathies fails to give the dates. From the evidence obtained by the Survey, I would extend the breeding season in Travancore as suggested in the Eastern Ghats Report viz. 'July to August and possibly even later'—to the end of October or the middle of November.

Family: Sittidae.

Sitta frontalis frontalis Swainson. The Velvet-fronted Nuthatch.

Specimens collected: 182 ♀, 183 ♂ 29-1-33 Santhanpāra at 5,000 ft.; 390 ♂, 391 ♀ 3-3-33 Kūmili 3,000 ft.; 984 ♂ 15-12-33 Pādagiri 3,000 ft.

Elsewhere noted at: Marāiyūr (3,500 ft.); Mūnnār (5,000 ft.); Thattākād (200 ft.), Ūrūmbikera Res. Forest near Mūndakāyam (ca. 1,000 ft.), Peermade (3,200 ft.), Camp Derāmalāi (3,000 ft.), Rājampāra (1,350 ft.), Balamore Estate (2,000 ft.), Kūriārkūtti (1,600 ft.).

Colours of bare parts: Iris lemon-yellow; orbital skin yellow; bill coral red, brownish at tip; palate coral, gullet pink; legs and feet brown with orange tinge; claws horny-brown.

[Other specimens examined:

Brit. Mus. Coll.: ♂ 20-1-75, ♂ ?-10-78 Mynall, Travancore (Bourdillon); ♀ 21-6-77 Pālnis (Fairbank).

Bom. Nat. Hist. Soc. Coll.: ♂ 29-1-01 Devicolam, Travancore; ♂ 3-3-94 'Pulney Ghat' (J. P. Cook).

Sparrow Coll.: ♂ 21-3-14 Cardamom Hills.

Measurements:

	Bill.	Wing.	Tail.
12 ♂♂	16-17.5	77-80.5	39.5-43.5 mm.
4 ♀♀	16-17	75.5-80	39.5-42.5 mm.

The correct type locality of this species is Ceylon as was pointed out in the *Journal N. H. Society, Siam*, vol. v, pt. 3, p. 334 (1924) and this was

accepted by Mr. Stuart Baker in his vol. vii, p. 25. It is unfortunate therefore that in *Nidification*, vol. i, p. 99, he has returned to the initial mistake of the *New Fauna*, vol. i, p. 132, of stating the type locality to be Java. It is not, therefore, as he says (*loc. cit.*, p. 99) a question of separating the Javan and Indian birds and using Hodgson's name *corallina* for the Indian bird, but a question of separating the Ceylon and Himalayan birds and using *frontalis* for the former and *corallina* for the latter. Our Travancore birds agree with those from Ceylon and therefore belong to the typical race.—H. W.]

This Nuthatch is essentially a bird of evergreen jungle and is found wherever this occurs in the Travancore-Cochin area, from almost the level of the low country to the highest sholas. It is usually met with in pairs running up and down the trunks or along and around the moss-covered branches of forest trees, frequently clinging back downwards and working along their undersides. They are regular members of the mixed hunting parties. I have only once observed them venture into open leafless deciduous jungle bordering an evergreen shola. This was such an unusual occurrence that the birds (Nos. 390 and 391) were mistaken for *Sitta castanea*, and promptly shot.

In the Pālni Hills both Fairbank (*S.F.*, v, 399) and Terry (*S.F.*, x, 472) found it common in the well-wooded portions and sholas.

This Nuthatch occurs throughout Ceylon, and Travancore and Ceylon birds are quite indistinguishable.

Breeding: Specimen No. 984 (15 December) had its testes enlarged to 7×4 mm. and was in fresh plumage. Of a pair, Nos. 182 and 183 (29 January), the ovary of the female was undeveloped while the testes of the male measured 3×2 mm. and appeared to be maturing. They were both completing a general moult. In another pair, Nos. 390 and 391 (3 March) the male's testes measured 7×4 mm.; the ovary of the female was distinctly granular, the follicles measuring about 1 mm. in diameter. A prominent incubation patch confirmed the presumption that the birds were breeding.

Apparently no nests have been recorded from Travancore or Cochin, but the breeding season here appears to be from December to March or thereabouts, and therefore somewhat earlier than that given for the Madras Presidency—February to April.

According to Davison the most normal breeding months in South India are April and May. In Ceylon 'Breeding season appears to be from February to May' (Waite, 2nd ed., p. 17).

Family: Timaliidae.

Garrulax delesserti (Jerdon). The Wynaad Laughing Thrush.

Specimens collected: 179 ♂, 180 ♂ juv. 29-1-33 Santhanpāra at 5,000 ft.; 273 ♀, 274 ♂ imm. 12-2-33 Thattākād 200 ft.; 675 ? 27-4-33 Balamore Estate 2,000 ft.

Elsewhere noted at: Tenmalāi (500 ft.), Pādagiri (3,000 ft.).

Colours of bare parts: *Adult*: Iris scarlet ('maroon-brown' according to Kinloch); gape and upper mandible dark horny-brown, lower mandible pale yellowish flesh-colour; palate yellow, gullet pink; legs, feet and claws pinkish flesh-colour with grey tinge. *Juvenile* and *Immature*: (Nos. 180 and 274) Iris pale pinkish-buff; upper mandible horny-brown except tip, nostrils, lores and a spot on culmen near forehead, which yellow; gape and lower mandible bright yellow; eyelids bright yellow; orbital skin and aural opening paler yellow; legs and feet dusky yellow; claws paler.

In No. 675 (age ?) Iris brownish-orange; upper mandible horny-brown, lower mandible pale yellow or cream; a bare post-orbital patch bluish-slate; legs and feet dirty brownish-grey; claws creamy-white.

[The Survey specimens measure:

	Bill.	Wing.	Tail.
3 ♂♂ ad. and imm.	30.5-31	100-108	99-102 mm.
1 ♀	31.5	108.5	101 mm.

Further specimens examined:

Brit. Mus. Coll.: ♂ 8-1-73 Assambo Hills; ♀ 30-12-94 Bonacaud, Travancore (A. N. Nair); ♀ 27-4-71 Mynall (Bourdillon).

Stuart Baker says (*New Fauna*, vol. i, p. 149 and *Nidification*, vol. i, p. 111) that this Laughing Thrush is confined to the hills of South-West India from the Wynaad to South Travancore. This distribution is manifestly incorrect as in the next paragraph he goes on to quote the discovery of the nest by John Davidson in North Kanara. It is, as a matter of fact, common almost throughout the hills of North Kanara (Davidson, *J.B.N.H.S.*, xi, 655) and South Kanara (Bell apud LaPersonne, *J.B.N.H.S.*, xxxvi, 503).

The juvenile plumage does not appear to be represented in any collection, but from specimen No. 180 which is in post-juvenal moult, it is evident that the juvenal plumage is—as one would expect—very similar to that of the adult. It, and therefore the first winter bird (No. 274), show the normal differences of young Timaliine birds, namely a soft blunt first primary and narrow pointed tail-feathers. As the breeding season is evidently late in the heaviest part of the monsoon the post-juvenal body moult is taking place about January-February. The adult post-nuptial moult therefore is probably about November-December, but no specimens have been seen.—H. W.]

This Laughing Thrush is also confined to the heavy rain-forest areas of Travancore-Cochin. The Surveys came across it from almost the level of the low country (Thattākād 200 ft.) to about 5,000 ft. in the Cardamom Hills at Santhanpāra, and it probably occurs, as Ferguson says, at all elevations. It goes about in noisy flocks of 6 to 10 birds, keeping principally to the dense cane-brakes and evergreen undergrowth, preferably on the edge of footpaths and cardamom clearings, where they rummage among the fallen leaves and mulch in search of insects, in the manner of the family. They are great skulkers when alarmed, and give vent to a variety of squeaky shrieks as they scuttle away from danger.

This Laughing Thrush is not found in Ceylon.

Breeding: Specimen No. 179 (29 January) had testes measuring 10×6 mm. (slaty pigmented). No. 180, a member of the same flock, was juvenile with very imperfectly ossified skull and in heavy post-juvenal body moult. It was probably not more than 1-1½ months old. No. 273 (12 February) had a mature ovary, the largest follicles measuring about 2 mm. in diameter, and the bird was in worn breeding plumage. It was of a flock from which also was secured No. 274, an immature ♂ with partially soft skull and in heavy general moult in which the tertiaries were also involved. No. 675 (27 April) was undergoing a body (post-nuptial ?) moult.

It would appear from the above that the breeding season in this area is somewhere between December and the first two or three months of the year. What is more probable, however, is that as in some of the other members of this family, it is rather erratic and ill-defined. Ferguson says that it breeds in June. He quotes the description of a nest found by T. F. Bourdillon (*J.B.N.H.S.*, xv, 257) but omits to give the date.

Stewart took nests and eggs in the Ventura Valley, Travancore, from 7 April to 28 August. According to him, it breeds principally during the South-West Monsoon when the rainfall is about 150 inches. Normal c/3 or c/4, but 2 nests contained 6 and 7 eggs each presumably laid by 2 hens (*Nidification*, i, 111).

T. R. Bell says (apud LaPersonne, *J.B.N.H.S.*, xxxvi, 503) that in Kanara it invariably nests in or on 'Karvi' (*Strobilanthes*) stems and nearly always in the monsoon months—July to September—in anything from 250-350 inches rainfall.

Trochalopteron jerdoni fairbanki Blanford. The Travancore Laughing Thrush.

Specimens collected: 19 ♀ 6-1-33 (4,500 ft.), 57 ♂, 58 ♀, 59 ♂ 10-1-33 (7,000 ft.) Marāiyūr; 101 ♀ 17-1-33, 106 ♂, 107 ♂, 108 ♀ imm. 18-1-33, 117 ♂ 20-1-33 Mūnnār 5,000 ft.; 145 ♂ 24-1-33 (4,500 ft.), 181 ♀ 29-1-33 (5,000 ft.) Santhanpāra.

Not met with elsewhere.

Colours of bare parts: *Adult*: Iris reddish-brown; bill horny-brown; mouth pink; legs and feet slaty-brown; claws brown; soles of feet greyish-yellow. *Immature* (No. 108): Iris brown; mouth pale yellowish-pink; rest as in adult.

[The Survey specimens measure:

	Bill.	Wing.	Tail.
6 ♂♂	21.5-23	82.5-89.5	85.5-93 mm.
5 ♀♀	19.5-23	83-86	86-91 mm.

(The above include both adult and immature birds.)

No. 108 is still in juvenile plumage and is similar to the adult except that the crown and nape are not so dark, contrasting therefore less with the mantle. The shape of the first primary and tail-feathers is rather variable in this species, making it more difficult to distinguish by them adults and first-year birds—doubtless another manifestation of the plastic nature of this species which has produced three races in a small area.

Of the series obtained, two adults are in complete moult in January which suggests that the breeding season must extend later than 30 May as given in *Nidification*, vol. i, p. 140.

The distribution of this species was given wrongly in the *New Fauna* (vol. i, p. 178), South Travancore having been erroneously mentioned instead of the High Range of North Travancore. It is again incorrect in *Nidification* (vol. i, p. 139) where the Travancore area is totally omitted!—H. W.]

The Travancore Laughing Thrush is a bird of high elevations, never in my experience met with below 4,000 ft., and thence up to the highest limits of suitable biotope. As I have pointed out elsewhere, they appear to be inseparable from the facies in which the wild Raspberry plant (*Rubus*) grows—in Travancore also from an elevation of about 4,000 ft. up. Whenever this elevation was reached and *Rubus* appeared, I invariably found *Trochalopteron;* nowhere below. They move about in flocks of 6-10 birds, frequenting dense scrub and undergrowth, preferably bordering hill streams. When alarmed, the birds utter a low 'wit-wit-wit' and disappear through the undergrowth like *Dumetia*, rarely showing themselves. They are inveterate skulkers and can seldom be made to leave cover even when pelted at with stones. The alarm notes or squeaky shrieks are similar to those uttered by *Turdoides somervillei*, but louder and somewhat shriller.

These thrushes were extremely common at Mūnnār (5,000 ft.—Kannan Dēvan Hills) where they kept to the scrub of *Rubus* and bracken bushes lining streams and nullahs through the extensive tea plantations, and on the outskirts of the town. At Santhanpāra (above 4,000 ft.—Cardamom Hills) they were partial to the dense growth of Eeta (*Ochlandra travancorica*) and secondary jungle bordering cardamom cultivation among the higher hills. They are very fond of the berries of *Maesa perrottetiana* D.C. and *Trema orientalis* Blume which comprised a large portion of their food at this season.

The statement of Ferguson's that this race is found from the Achankovil Gap (lat. 9°5′ N.) northwards through the High Range into the Ānnemalais and Pālnis is probably correct, though I was unable to verify the exact limit of its southern distribution. Kinloch does not record it in the Nelliampathies, neither did I come across the birds in these hills during the Cochin Survey. However, I never seem to have struck the required *Rubus* facies though the hills up to about 4,500 ft. were worked fairly thoroughly. In the Ānnemalai Hills about Kūriarkūtti, both *Rubus* and *Trochalopteron* were absent to an elevation of about 3,800 ft.

Both Fairbank (*S.F.*, v, 404) and Terry (*S.F.*, x, 475) found this Laughing Thrush very common in the shōlās above 5,000 ft. in the Pālni Hills. It is said to damage peaches and raspberries at Kodāikānal.

This species is not represented in Ceylon. It must be far more sedentary than most to have attained the unusual distinction of producing three races within so small an area of South-West India, and to be represented by a distinct species in the Nilgiris.

Breeding: Specimen No. 108 (18 January) was an immature bird with very soft skull and in juvenile plumage with some feathers still ensheathed and growing. It was probably not more than 1½ months old. An adult male on the same date was in worn breeding plumage with testes measuring 5×3 mm.

Specimen No. 181 (29 January) on the other hand, was in fresh plumage with a firm and granulated ovary in which the follicles measured about 1 mm.

in diameter. It was, moreover, one of a pair and presumably preparing to breed.

From the evidence, I am inclined to the opinion that the breeding season in the Travancore-Cochin area at any rate, is far from well-defined and extends over the greater part of the year except perhaps the two or three months of heaviest rainfall. Possibly, of course, some months as between March and June may be more favoured than others.

Terry gives the following records of nests found by him in the Pālnis: c/2 fresh eggs, 30 May, Kodāikānal; c/2 fresh eggs, 20 May, Kukal; c/1 very hard set, 6 June, 2 young birds about a week old on 8 June.

Trochalopteron jerdoni meridionale Blanford. Blanford's Laughing Thrush.

Specimens collected: 667 ♂ juv., 668 ♀ juv., 669 ♂ imm., 670 ♂ 25-4-33 Mūthūkūzhi 4,000 ft. (Ashambū Hills).

Elsewhere not met with.

Colours of bare parts: *Adult* (No. 670): Iris crimson; bill horny-brown; mouth pink; legs and feet brownish-slate; claws horny-brown; soles yellow. *Immature* (No. 669): Iris olive-brown; mouth pinkish-yellow; rest as in adult. *Juvenile* (Nos. 667, 668): Iris olive-brown; bill horny-brown except commissure and extreme tip, which yellow; gape and mouth bright yellow; legs, feet and claws as in adult.

[It may be useful to summarise from fresh specimens the differences between this and the last form:

T. j. fairbanki.	*T. j. meridionale.*
1. Crown and nape dark sooty brown, in some specimens almost blackish, remainder of upper plumage wings and tail olive-brown, contrasting with the crown and nape.	1. Crown, nape, upper parts, wings and tail dull sooty greyish-brown throughout with no contrast between them.
2. Supercilium long, broad, clearly defined and pure white. Below it a blackish stripe through the eye from the lores, contrasting with the grey cheeks.	2. Supercilium short, narrow, ill-defined and mostly grey. Blackish stripe below only distinct on the lores.
3. Chin, throat and breast more grey than white. Centre of abdomen rufous, a little paler than the flanks.	3. Chin, throat and breast more white than grey, the white extending down the centre of the abdomen to the vent.

Further specimens examined:

Brit. Mus. Coll.: 3 from Mynall (Bourdillon); 1 from Ponmūdi 3,500 ft. (Ferguson and Nair); 1 from Colathorpolay (Kolāttūpūzha) 3,800 ft., Patnas (Hume Collection); 7 from Chimpani (Davidson).

In *Nidification* (vol. i, p. 140) the mistake of attributing those localities to North Travancore (which would mean that the 2 races *fairbanki* and *meridionale* were found together) made in the *New Fauna* (vol. i, p. 179) is repeated inspite of its having been corrected in *J.B.N.H.S.*, xxxv, 524!—H. W.]

This race replaces *fairbanki* in the hills of South Travancore—according to Ferguson from the extreme south to the Achankovil Gap. The exact limits of its range have not been determined by the Survey. In haunts and habits there is no difference to record from the last.

Breeding: Nos. 667 and 668 (25 April) from the same flock and apparently of the same brood, had very soft skulls (cf. also colours) and were in juvenile plumage which is evidently similar to that of the adult. I estimate that they were about a month old. No. 669 was slightly older, aged perhaps 1½-2 months, and No. 670, in spite of the size of its testes (8×5 mm.) was undergoing complete post-nuptial moult.

Ferguson says: '. . . as I shot a young bird in March just out of the nestling plumage, I conclude that the breeding season is about May and June'. It is difficult to follow his line of argument, but the Survey specimens suggest

that in March breeding is certainly in progress. Like the foregoing, however, it may also breed over other months of the year.

Two clutches found by Mr. J. Stewart on 10 June 1906 and 4 June 1912 (at 3,000 ft. in thick evergreen forest) are recorded in *Nidification*, i, 140. There may, however, be some mistake over the identity as the eggs are described as being not like those of the foregoing form, but exactly like those of the Nilgiri Blackbird!

Turdoides somervillei malabaricus (Jerdon). The Malabar Jungle Babbler.

Specimens collected: 234 ♀ 7-2-33 Thattākād 200 ft.; 864 ♀ 14-11-33, 889 ♀ 21-11-33 Kūriārkūtti 1,600 ft.; 901 ♀ Wadakkāncheri 400 ft.; 1029 ♂ Karūpadanna ca. S.L.

Elsewhere noted at: Marāiyūr (between 3,500 ft. and 4,500), Kottāyam (ca. S.L.), Kūmili (3,000 ft.), Rājampāra (1,350 ft.), Tenmalāi (500 ft.).

Noted as absent at: Santhanpāra (3,500 ft.), Trivandrum and Cape Comorin (ca. S.L.), Aramboli (250 ft.).

Colours of bare parts: Iris creamy- or yellowish-white; bill and circumorbital skin pale yellow; gape and mouth bright deep yellow; legs, feet and claws pale yellow.

In this species the bright colour of the juvenile gape persists in the adult, and the mouth also retains to a large extent the conspicuous juvenile colouring.

[The Survey specimens measure:

	Bill.	Wing.	Tail.
1 ♂	24	107.5	105 mm.
4 ♀♀	24-24.5	101-107	99-101.5 mm.

This species is not represented in the British Museum by any specimens from Travancore and at the time of writing my report on the birds of the Eastern Ghats Survey I had seen no specimen from that State. I had therefore no reason to differ from the commonly accepted view that only one race of this Babbler—*T. s. malabaricus*—was found in Southern India. The five specimens procured by the Travancore-Cochin Surveys clearly show that view to be wrong. When they are compared with the fine series obtained by the Eastern Ghats Survey it is seen that the upper parts are a darker richer brown, particularly noticeable on the rump, upper tail coverts and tail. The lower plumage also is darker and more richly coloured throughout, the fulvous wash on the breast and abdomen being deeper and more richly coloured. It is, therefore, necessary to establish which of these two South Indian forms should rightly bear the name of *malabaricus* and whether any other name is available for the other. Luckily there is no difficulty about the matter.

Jerdon described his *Malacocercus malabaricus* from the 'forests of Malabar, and on the sides of the Neilgherries up to the very edge of the Hills'. It is never quite clear what is meant by the 'Malabar' of the older writers, but Jerdon's use of the term in many cases, and evidently in this case too, often refers to Travancore where indeed he had been previous to the publication of this name. The matter is made clearer from his description at the same time of another new form *Malacocercus orientalis*[1]. Jerdon described it as 'found in the jungles of the Carnatic, and more especially amongst those of the Eastern Ghats, where it is very abundant, whence the name I have proposed'.

The difference of colour between *malabaricus* and *orientalis* given in the description shows that Jerdon in these two names was deliberately describing the two South Indian forms now obtained by the Surveys. He also made it clear that neither had anything to do with the *somervillei* of Sykes and Bombay.

Blyth, no doubt, later suggested to Jerdon that his two forms were based on individual differences, for in the *Birds of India*, vol. ii, p. 63, the latter says in 1863: 'In my "Illustrations" I separated those from the Eastern

[1] This name in the *New Fauna*, vol. vii, p. 36, for some reason is placed as a synonym of *Turdoides terricolor terricolor* (rectius *T. somervillei terricolor*) but there the type-locality is omitted and the type-locality alone is sufficient to show that the attribution is wrong.

Ghauts under the name of *M. orientalis*. This race, however, has not been considered distinct from *malabaricus*, and I have accordingly merged it in that species. Malabar specimens appeared to me to have more rufous; those from the Eastern Ghauts more grey.'

Our Travancore-Cochin series, therefore, represents the true *malabaricus* of Jerdon. The better-known race of the Jungle-Babbler found throughout the greater part of the Madras Presidency, and hitherto known as *malabaricus*, must in future be known as *Turdoides somervillei orientalis* Jerdon (*Ill. Ind. Orn.*, text to pl. 19, 1845 (March), type-locality: Eastern Ghauts), and under that name, therefore, should be listed all the specimens listed as *T. s. malabaricus* on p. 378 of the *J.B.N.H.S.*, vol. xxxv, Eastern Ghats Survey, and on p. 373, vol. xxxvi, Hyderābād Survey.—H. W.]

The Jungle Babbler is a common bird in the Travancore-Cochin area, though patchily distributed. Flocks frequent deciduous and bamboo forest or scrub jungle with Lantana etc., where they rummage among the fallen leaves for insects. It avoids evergreen jungle, but may sometimes be met with in the secondary growth on its outskirts. The flocks habitually form the nucleus of the localised bird associations and are seldom met independently of them. They are also partial to the neighbourhood of homesteads along the backwaters, frequenting the mango, jack-fruit and cashew gardens, often in association with *Turdoides striatus*. As I have remarked before in the Hyderābād Survey Report (*J.B.N.H.S.*, vol. xxxvi, p. 373) my experience does not bear out the statement on p. 737, vol. xxxv, that it does not mix with the White-headed Babbler. It is true that as a rule the two species inhabit different facies, but where these overlap, the birds may frequently be seen in association with each other and with other avian species.

A flock at Marāiyūr (14 January) was noted in my field-book as composed of particularly rufous tinged individuals, very reminiscent of typical *somervillei* of Bombay. The rufous colour was no doubt accentuated by some peculiarity in the lightning conditions, but its presence is now confirmed and explained by Mr. Whistler's note.

A habit with this species when curious or agitated, is to fluff out its plumage especially that of the back which assumes an arched appearance, droop the wings at the sides, spread and depress the tail and pivot uneasily from side to side, peering at and chivvying the intruder the while.

As pointed out in the Eastern Ghats Report (*J.B.N.H.S.*, xxxv, 738) the statement in the *Fauna* (vol. i, p. 195) that *T. s. somervillei* occurs from Travancore to Bombay along the West Coast is apparently based only on wrong identification of the ferruginous stained specimens of *T. striatus poliocamus* obtained at Kolachāl (Travancore).

In the Pālni Hills, Fairbank (*S.F.*, v, 405) found it common at the base and in thin jungle on the sides up to 4,500 ft. He procured a ♂ at Vengayam Parry on 1 June. Terry (*S.F.*, x, 475) describes it as rather rare at Pulungi, but very common lower down on the slopes and in the Pittur valley.

It does not occur in Ceylon, where according to Whistler (*J.B.N.H.S.*, xxxv, 738) *T. striatus striatus* represents both the Jungle and White-headed Babblers and is a connecting link between them.

Breeding: No. 234 (7 February) had a mature ovary with follicles measuring 1-1.5 mm. In No. 1029 (27 December) the testes were enlarged to 7×5 mm., and both these individuals were either breeding or ready to breed. The specimens obtained in November and December were not in moult. A ♀ (7 February) had slight traces of moult on head and neck.

The above specimens suggest December to February as being at least part of the breeding season in the Travancore-Cochin area. The probability, however, is that it breeds irregularly more or less throughout the year as in other parts of the range of the species.

Bourdillon and Stewart record January to March as the principal breeding months in Travancore though they also say that breeding is fitful and very irregular. In the Nelliampathy Hills (Cochin) A. P. Kinloch took most nests in bamboo clumps in mixed scrub and bamboo jungle, often at considerable elevations (*Nidification*, i, 154). No date!

In the Pālni Hills, Terry (*S.F.*, x, 475) records nests as follows: c/3, incubated, 5 April—Pulungi; c/2, incubated, 6 April—Pittur Valley.

Turdoides striatus polioplocamus Oberholser. The White-headed Babbler.

Specimens collected: 13 ♂ 5-1-33, 86 ♀ 13-1-33 Marāiyūr 3,500 ft.; 504 ♀, 505 ♀ 2-4-33 Trivandrum ca. S.L.; 533 ♀ 8-4-33 Cape Comorin ca. S.L.; 569 ? naked chick ex nest 11-4-33; 610 ♀ 17-4-33 Arāmboli 250 ft.; 683 ♀ imm. 17-7-33 (Pattom 50 ft.); 723 ♀ 25-7-33 (Thirūmalāi 120 ft.); 813 ♀ 8-8-33 (Mūkūnnimalāi 800 ft) Trivandrum Taluk; 908 ♀ 26-11-33 Wadakkāncheri 400 ft.

Elsewhere noted at: Chālakūdi, Nemmāra (300 ft.), Trichūr, Karūpadanna ca. S.L.

Colours of bare parts: *Adult*: Iris from creamy- or greyish-white to pale sky blue; bill, legs, feet and claws pale sickly yellow; mouth pale pinkish-yellow. *Immature* (No. 683): 'lower mandible, legs, feet and claws greyish-white' (Pillai).

[The Survey series measure:

	Bill.	Wing.	Tail.
1 ♂	20.5	108.5	103 mm.
9 ♀♀	19-23	99-110.5	97-109 mm.

The specimens definitely belong to this form and not to the Ceylon race, which appears to be intermediate between this bird and the Jungle Babbler, connecting them.

This species has normally a complete post-nuptial moult which takes place from June to November. In practice, however, the body moult seems to be carried out in such an irregular and dilatory fashion that some feathers are being moulted all the time and practically no bird will be found with all feathers in the same state of freshness or wear. The red patches, found on some specimens, appear to have nothing to do with erythrism but to be due to the combined effects of wear and bleaching and staining.—H. W.]

The White-headed Babbler was met—with one exception, Marāiyūr—only in the low country and about the lower foot-hills in the comparatively drier localities of the States, chiefly in the precincts of villages and human habitations. It was common everywhere. In the gardens about the backwater homesteads near Karūpadanna, and in the scrub and secondary jungle surrounding the camp-shed and the terraced paddy fields at Marāiyūr, it was frequently found in association with *T. s. malabaricus*. Its food consisted to a large extent of the berries of *Lantana camara*, a species which everywhere was a conspicuous feature of its biotope.

Breeding: Specimen No. 13 (5 January) had testes measuring ca. 5×3 mm. and apparently developing. Nos. 504 and 505 (2 April) both had mature ovaries with follicles 1-1.5 mm. in diameter. No. 533 (8 April) had apparently lately finished breeding. Its ovary was as yet conspicuously granular; the plumage was worn and an incubation patch present. It was accompanied by another adult bird and a full-fledged young. On the same date Humayun observed pair feeding a ¾ grown *Clamator jacobinus*. On 11 April (Cape Comorin) he took a naked chick (No. 569) from a nest in a Babool tree (at about 5 ft.) which contained 3 others in the same stage. On 15 April a nest containing 4 eggs was found in a branch of an *Acacia planifrons* (at 12 ft.) overhanging a dry sandy nullah on the edge of a patch of Babool jungle in the Arāmboli Gap. No. 683 (17 July) was a young bird with soft skull, while No. 813 (8 August) had the largest ovarian follicle measuring about 3 mm. and was evidently breeding.

Stewart took nests in Travancore as early as February (*Nidification*, i, 156). Fergusoń (*J.B.N.H.S.*, xv, 258) says that *striatus* breeds in Travancore in April and May while *griseus* (obviously referring to the same bird) does so in June. From the evidence collected by the Survey, however, the breeding season appears to be as ill-defined as in the case of some of its nearest relatives. It is possible that as elsewhere in the Madras Presidency (*J.B.N.H.S.*, xxxv, 740) the majority of eggs are laid between March and July.

Argya caudata [caudata] (Dumont). The Common Babbler.

No specimens were obtained by the Surveys, but there is one (labelled *Crateropus striatus* !) in the Trivandrum Museum with the data 'Arāmboly,

Travancore, 14-6-10'. From the fact, however, that the label is not original and quite new, Mr. Whistler is of opinion that this cannot be accepted as an authentic record in the absence of any other confirmation from Travancore. He thinks that probably the specimen came from elsewhere and there was some msitake during re-labelling.

Arāmboli is the western (Travancore) extremity of a gap or pass through the barrier of hills that form the boundary between the Madras district of Tinnevelly and the Travancore State. It is in effect a miniature repetition of the Pālghāt Gap on the northern frontier of Cochin, and like it, functions as a channel of exchange for many plant forms between the two areas for some distance on either side. Through this gap also there was noted an extension into Travancore of *Lanius vittatus*, not met with elsewhere within the area, and it is readily conceivable that *A. caudata* may do so in the same way.

Fairbank (*S.F.*, v, 405) found the Common Babbler plentiful at the base of the Pālni Hills and there seems no biological reason why it should not extend southward thence through the Rāmnād into the Tinnevelly District, and thence through the pass to Arāmboli where the facies is of a character eminently suited to it.

While the Survey was working this area, I have a record in my diary that *Argya caudata* was heard. By itself this note would have been valueless and I should probably have omitted it but for the support now accorded by the Trivandrum Museum specimen. In my opinion the two records confirm each other sufficiently to be accepted until definite information to the contrary is forthcoming.

Argya malcolmi (Sykes). The Grey-headed Babbler.

Not met with by the Surveys.

In the Pālni Hills Terry (*S.F.*, x, 475) met it once 'far down the slopes towards Pulney'. The record is vague and gives no idea of the exact locality or the facies in which the birds were seen.

Breeding: 'Bourdillon obtained several nests in Travancore where, however, he says it is not common. . . In Nilgiris and Travancore, most eggs are laid in March . . .' (*Nidification*, i, 162).

I consider that the occurrence of this Babbler in the Travancore-Cochin area needs confirmation.

Argya subrufa (Jerdon). The Rufous Babbler.

Specimens collected: 139 ♂ 24-1-33 Santhanpāra 3,700 ft.; 361 ♂ 25-2-33 Peermade 3,200 ft.; 696 ♀ (juv.) 20-7-33, 799 ♂ (juv.) 6-8-33 (Thirūmalāi 120 ft.) Trivandrum Taluk; 869 ♂ 15-11-33 Kūriārkūtti 1,600 ft.

Elsewhere noted at: Marāiyūr (3,500 ft.), Thattākād (200 ft.), Kottāyam (at ca. 100 ft.), Kūmili (3,000 ft.), Rājampāra (1,350 ft.), Tenmalāi (500 ft.), Balamore Estate (2,000 ft.), Pādagiri (3,000 ft.—Nelliampathy Hills).

Colours of bare parts: *Adult and Immature* (No. 799): Iris creamy-white; upper mandible dark horny-brown except at gape; lower mandible, gape and mouth bright yellow; legs and feet dusky-yellow or yellowish-brown; claws dusky. *Juvenile* (No. 696—apparently younger than No. 799): Iris dark grey; legs patchy brown and yellow in front, yellow behind; rest as above.

[Measurements:

	Bill.	Wing.	Tail.
3 ♂♂	22.5-25	92-92.5	115-116.5 mm.
1 ♀	—	91	103.5 mm.

In juvenile plumage (Nos. 696 and 799) the wings and tail (full-grown) are considerably shorter: ♂ wing 83.5; tail 99; ♀ wing 85.5 mm.

The juvenile plumage is exactly similar to that of the adult except that the upper parts are a rather deeper richer brown.

Further specimens examined:

Bom. Nat. Hist. Soc. Coll.: ♀ 27-8-93 Thekadi, Travancore (J. P. Cook).

Brit. Mus. Coll.: 1 from Tirūmalāi, Trivandrum (A. N. Nair).—H. W.]

A fairly common species, flocks usually of 6-8 birds frequenting well-wooded areas and keeping mostly to dense scrub and secondary growth, preferably where intermixed with tall grass and on the edge of forest clearings. I did not meet it above 3,500 ft. It was usually shy and a great skulker, and beyond occasional fleeting glimpses, much oftener heard than seen. It has a series of squeaking notes, not unpleasant, something between those of *Argya caudata* and *Turdoides striatus*. Its food consisted very largely of Lantana berries, while in tea planting localities the flowers of the *Erythrina lithosperma* shade-trees invariably attracted flocks to the nectar, the birds obviously assisting in their cross-pollination. When venturing into the open branches of these trees, they were extremely wary, and dived headlong into the undergrowth on the slightest suspicion.

As pointed out in the Eastern Ghats Report (*J.B.N.H.S.*, xxxv, 740) the distribution given in the *New Fauna* (vol. i, p. 202) is wrong. No mention is there made of its occurrence in Travancore-Cochin, while from Bett's account (*J.B.N.H.S.*, xxxiii, 543) where he confusedly records this species as *Argya caudata*, it would seem to be common in Coorg also.

Kinloch's failure to record it in the Nelliampathies was doubtless due to oversight. At Pādagiri—not far from the Palagapāndy Estate where he worked and from the Lily Downs referred to in his notes—I came across flocks on several occasions.

Breeding: The facts that two juveniles were obtained at the end of July and the beginning of August, that No. 869 (adult) was in complete moult in the middle of November, and the other two specimens were freshly moulted in January and February all suggest that the normal breeding season is later than is usually stated viz. February to May. It is, however, probably far from well-defined.

According to Bourdillon the usual nesting season in Travancore is March and April, but he also took a clutch of eggs on 23 February (*Nidification*, i, 164).

Pomatorhinus horsfieldii travancoriensis Harington. The Southern Scimitar Babbler.

Specimens collected: 5 ♂ 4-1-33, 10 ♀ 5-1-33 Marāiyūr 3,500 ft.; 144 ♂ 24-1-33 Santhanpāra at 4,500 ft.; 322 ♂ 21-2-33 Peermade 3,200 ft.; 392 ♂ 3-3-33 Kūmili 3,000 ft.; 673 ♀ 27-4-33 Balamore Estate 2,000 ft.; 885 ♀ 20-11-33 Kūriārkūtti at 2,500-3,000 ft.

Elsewhere noted at: Thattākād (200 ft.), Camp Derāmalāi (3,000 ft.), Rājampāra (1,350 ft.), Pādagiri (3,000 ft.—Nelliampathy Hills).

Colours of bare parts: Iris reddish-brown to brownish-crimson; bill yellow except basal half of culmen including nostrils, which horny-brown; mouth pinkish flesh-colour (in No. 392 yellow and brownish-pink!); legs and feet slaty or greyish-brown; claws horny-brown.

[Measurements:

	Bill.	Wing.	Tail.
6 ♂♂	28-31	93-98	97-106.5 mm.
7 ♀♀	28-31.5	89-98.5	93.5-100 mm.

Additional specimens examined: *Brit. Mus. and Bom. Nat. Hist. Soc. Colls.*: ♂ 23-3-94, o? 10-4-94 Kodāikānal (J. P. Cook); ♂ 1-7-93 Pālnis (J. P. Cook); ♀ 14-5-17 High Wavy Mountains, Madūra District (S. H. Prater); ♀ 15-12-79, ♀ 20-4-80 Mynall 1,000 ft., Travancore (Bourdillon); ♀ 21-4-83 Pittūr, Pālnis (Terry); o? 3-75 Eridge, South Travancore (Hume Collection).

A very good race. Represented in Ceylon by the bright ferruginous race *melanurus* which is, however, clearly connected with *horsfieldii* by olive-brown intermediates. These ferruginous birds have the sides of the neck and fringe to the plastron identical in colour with those parts in *Pomatorhinus schisticeps*, and I think it is quite probable that *schisticeps* and its races might all be well considered races of *horsfieldii*.—H. W.]

The Scimitar Babbler is common in all evergreen and bamboo forest tracts throughout the area, whether up to 5,000 ft. in the hills (perhaps also higher) or in the low country as at Thattākād. Pairs or flocks of up to about ten birds

(according to season) were met with either feeding on the ground in the undergrowth of *Strobilanthes*, wild *Zingiber* or Cardamom plants or up among the moss-covered branches of forest trees, and frequently as members of the localised bird associations or mixed hunting parties. They were also partial to thorny scrub, like *Acacia intsia* or *Lantana*, on the edge of hill-paddy 'toungya'), tea or cardamom clearings.

The members of the pairs or flocks keep in touch with one another by mellow bubbling or gurgling calls. When disturbed, the birds hop along the branches with great agility as if to get under weigh before taking off into the air.

In the Pālni Hills, Fairbank did not consider it abundant at Kodāikānal in June, judging from the calls (*S.F.*, v, 404).

This species is replaced in Ceylon by *P. melanurus* (vide H. W.'s note, *supra*).

Breeding: In specimen No. 885 (20 November) the ovarian follicles were considerably enlarged (damaged by shot!). There were no signs of moult, and a distinct incubation patch was present. The birds at this time were mostly seen in pairs.

In No. 5 (4 January) the testes measured 5×4 mm. It had a strip of something like the outer fibrous skin of a banana stem in its bill and was accompanied by its mate which was also carrying similar building material. This suggests that both sexes partake in nest building. They were working in a patch of thick impenetrable scrub consisting of *Lantana*, *Acacia intsia* and other thorny bushes. No. 10 (5 January) had a soft egg in the ovary, was one of a pair and breeding. On 15 January another bird was observed carrying fibrous strips of plantain bark into some dense scrub on a hillside. Nos. 322 (21 February) and 392 (3 March) also had somewhat enlarged testes, while 673 (27 April) had obviously finished breeding and was undergoing complete post-nuptial moult.

Bourdillon took many nests in Travancore and describes them as usually domed affairs made of leaves and grass, lined with roots. They are said to breed principally from December to February, but Stewart took one nest as late as 2 May. Both Stewart and Bourdillon say that c/2 or c/3 is the normal in this part (*Nidification*, i, 173-4).

From the evidence afforded by the Survey specimens, I am inclined to consider that in the Travancore-Cochin area, breeding commences rather earlier than has been recorded, i.e. by about the second half of November.

In the Pālnis, Terry (*S.F.*, x, 474) found a nest with 3 very hard-set and one 'fresh' (probably addled!) egg on 30 March, and another with 3 incubated eggs on 4 April. He identified the female shot off the latter as *melanurus*, doubtless misled by the rich colour of this race.

(On p. 211, vol. i, of the *Fauna*, it is stated about *P. h. horsfieldii*: 'This is a subspecies of the low country, it being represented by other races in the higher hills'. What is exactly meant by 'low country' is not clear; Mahābleshwar and Khandālla are included in its 'Distribution', the former being 4,500 ft. and the latter about 2,000 ft.!).

Dumetia hyperythra albogularis (Blyth). The White-throated Babbler.

Specimens collected: 17 ♂ 5-1-33 Marāiyūr 3,500 ft.; 140 ♂ 24-1-33, 170 28-1-33 Santhanpāra 3,500 ft.; 345 o? 24-2-33, 359 ♀ 25-2-33 Peermade 3,200-3,500 ft.; 485 ♀ 21-3-33 Rājampāra 1,350 ft.; 652 ♂ 24-4-33 Balamore Estate 2,000 ft.

Elsewhere noted at: Kūmili and Periyār Lake Environs (3,000 ft.); Wadakkāncheri (400 ft.).

Colours of bare parts: Iris creamy-white; bill pale horny-brown, paler on lower mandible; mouth pale yellowish-flesh to pink varying apparently with age; legs and feet yellowish-flesh colour, duskier on anterior tarsus; claws brown.

[The sexed Survey specimens measure:

	Bill.	Wing.	Tail.
3 ♂♂	14.5-15.5	57.5-65	62-66 mm.
2 ♀♀	14	53.5	55.5-60.5 mm.

Further specimens examined:

Brit. Mus. Coll.: o? 16-3-75 Mate-ard (?), S. Travancore (Bourdillon); juv. -6-74 Lower Pālnis (Fairbank).

The juvenile specimen from the Lower Pālnis differs from the adult in having the whole upper plumage a brighter, more rufous brown with no chestnut on the forehead or crown. The lower plumage is a duller more fulvous brown with merely traces of white on the chin and throat and central abdomen, thereby affording a further proof—if more were needed than the respective distributions (as given in *J.B.N.H.S.*, xxxv, 743-745) and the existence of intermediates where they meet—that this bird is only a race of *D. hyperythra*.

Travancore specimens are not separable from those of the rest of Southern India. I have seen none from Ceylon.—H. W.]

This little babbler is generally distributed in the hilly portions of our area though it is by no means uniformly abundant everywhere. Ferguson is correct on the whole when he says that it is met with between 1,000 and 3,000 ft. elevation. I did not come across it in the low country at all, but a small flock was once noted on a dense scrub-covered side of a hummock in Cochin at about 400 ft. This, however, is the only record I have of its being found below 1,000 ft.

The birds frequent tall grass (*Andropogon*) and scrub country on hillsides, preferably in light deciduous forest, in flocks of seven or eight individuals. They are generally seen on the edge of paths or clearings in such facies, restlessly hopping about and diving among the grass stems and undergrowth in search of food, and uttering a low *swee-swee* of the volume of a Sunbird's calls varied by harsh tittering notes when agitated.

In Ceylon it is said to be tolerably common and generally distributed in all parts up to 5,500 ft.

Breeding: The only evidence is provided by No. 652 (24 April) whose testes measured 4×3 mm. and which looked as if it was preparing to breed. Most of the specimens procured in January and February were undergoing complete pre-nuptial moult.

Hume (*S.F.*, v, 404) records a nestling (presumably the one in the British Museum collected by Fairbank) from the Lower Pālnis in June. The season according to the Eastern Ghats Report (*J.B.N.H.S.*, xxxv, 745) is not well defined and varies from the middle of April to the middle of November, irrespective of locality. According to the *Fauna* the principal breeding months in South India are June and July.

Pellorneum ruficeps granti Harington. The Travancore Spotted Babbler.

Specimens collected: 18 ♂ (imm.) 6-1-33, 26 o?, 27 ♂ 7-1-33, 99 ♂ (imm.) 15-1-33 Marāiyūr 3,500 ft.; 336 ♂ 23-2-33 Peermade 3,200 ft.; 503 ♂ 28-3-33 Tenmalāi 500 ft.; 878 ♂ 17-11-33 Kūriārkūtti 1,600 ft.

Elsewhere noted at: Santhanpāra (3,500 ft.), Thattākād (200 ft.), Kūmili, Vandamettu or Wandamet, Periyār Lake Environs (ca. 3,000 ft.), Camp Derāmalāi (3,000 ft.), Rājampāra (1,350 ft.), Balamore Estate (2,000 ft.), Chālakūdi, Wadakkāncheri (400 ft.), Nemmāra (300 ft.), Pādagiri (3,000 ft).

Colours of bare parts: Iris hazel-brown (immature) to reddish-brown; bill upper mandible horny-brown, lower mandible usually somewhat paler; mouth in breeding ♂♂ (Nos. 336, 503, 878) brownish-pink, in immature yellowish flesh colour; legs and feet brownish flesh colour; claws duskier.

[The Survey specimens measure:

	Bill.	Wing.	Tail.
4 adult ♂♂	19-20	73.5-76	66-73 mm.
2 imm. ♂♂	19	67-72	65-69 mm.

Further specimens examined:

Brit. Mus. Coll.: The type ♂ 10-3-77 Mynall; o? 8-1-01 Vandenmettu, Cardamom Hills (Ferguson).

A very good race, most markedly distinct from the typical form. The crown and nape are dark chestnut, the upper parts are dark olive brown, whilst the spotting on the lower surface is not only heavier but, with the dark wash on the flanks, is much darker brown than in the typical race.—H. W.]

The Spotted Babbler is generally distributed in all well-wooded areas throughout the two States. I came across it from 200 ft. above sea-level at Thattākād up to at least 6,000 ft. elevation in evergreen sholas on the hills surrounding Marāiyūr.

Pairs or family parties were usually met with in dense thickets and evergreen undergrowth by ravines and hill nullahs, the birds rummaging on the damp ground amongst the mulch and humus flicking the leaves here and there in their search for lurking insects. They were also partial to dense growths of Eeta bamboo (*Ochlandra travancorica*) especially on steep hillsides and along hill nullahs. In facies where a mixture of the evergreen and deciduous types of forest preponderated, their favourite haunts were the dry ravines and watercourses littered with rotting bamboos and brushwood and overgrown with thickets of *Acacia intsia*, *Zizyphus rugosa* and 'channa' or wild Zingiber etc.

On the whole it is an extremely shy bird, retiring into dense cover on the slightest suspicion, and is much oftener heard than seen. At Marāiyūr, however, I found it not only common but also surprisingly bold. It frequented the scrub and hedges about the petty Government offices and camp shed, and did not object to observation at close quarters.

Its percussive song of several rich and loud whistling notes was invariably heard in the early mornings and late afternoons wherever the birds were present. The notes more commonly uttered, however, are the ones I have elsewhere rendered as a somewhat plaintive *He'll beat you* or simply *He'll beat* which at times have a curiously ventriloquistic quality. Sometimes these are repeated from the branch of a tree in dense forest for well over five minutes at a stretch and without any variation. When the tree is approached, the bird ceases to call, noiselessly and imperceptibly drops down into the undergrowth below and disappears, and while you are still straining to catch a glimpse of it in the branches it calmly begins calling again 50 yards away! When alarmed, it gives vent to a series of sharp chuckling chirps or chirrups as it hurriedly moves away through the undergrowth.

In my opinion the statement based on Bourdillon's and Ferguson's accounts that the Spotted Babbler is rare in Travancore is untenable. In Cochin also I found it far from scarce in suitable localities and can confirm Kinloch's statement that it is common in the Nelliampathies.

Fairbank (*S.F.*, v, 404) frequently heard it in the Pālnis (sub-species?) but was never able to see one and procure a specimen.

In Ceylon the species does not occur.

Breeding: No. 878 (17 November) had the testes enlarged to 4×2 mm. (slightly pigmented) and from the freshness of its plumage it appeared to be getting ready to breed. No. 18 (6 January) was a juvenile with soft skull, completing its post-juvenal moult. No. 99 (15 January), also a juvenile with soft skull was in heavy post-juvenal body moult. Both these birds were members of family parties consisting of parents and two or three young. No. 336 (23 February) had testes measuring 7×4 mm. It was in freshly moulted plumage, one of a pair and evidently breeding. No. 503 (28 March)—testes 5×4 mm.—though moulting remiges was otherwise in fresh plumage and either breeding or about to.

The breeding season appears to commence about November and to continue till April or thereabouts. As is the case with most birds in the Travancore-Cochin area, it evidently begins considerably earlier than in other parts where, in the case of the typical race, March, April and May are given as the breeding months. Two clutches given by Stewart to Mr. Baker, c/4 and c/3 respectively, were taken on 7 June and 10 May (*Nidification*, i, 204).

Alcippe poioicephala poioicephala (Jerdon). The Nilgiri Quaker Babbler.

Specimens collected: 132 ♀ 23-1-33, 156 ♂ 25-1-33, 176 ♀, 177 ♂ 28-1-33, 192 ♀ (imm.) 30-1-33 Santhanpāra 3,500 ft.; 213 ♂ 4-2-33 Thattākād 200 ft.; 321 ♂ 21-2-33 Peermade 3,200 ft.; 364 ♀ 27-2-33 Kūmili 3,000 ft.; 876 ♂ 17-11-33, 890 ♂ 21-11-33 Kūriārkūtti 1,600 ft.

Elsewhere noted at: Marāiyūr (Common between 6,000-7,000 ft.), Camp Derāmalāi (3,000-4,500 ft.), Rājampāra (1,350 ft.), Tenmalāi (500 ft.), Balamore Estate (2,000-4,000 ft.), Kuvallé Incline (Cochin Forest Tramway), Kūriārkūtti (up to 4,000 ft.), Pādagiri (3,000 ft.).

Colours of bare parts: *Adult*: Iris greyish-brown; bill dark horny-brown, commissure and lower mandible greyish; mouth pale flesh colour; legs, feet and claws greyish-brown. *Immature* (No. 192): Iris slaty-grey; gape and mouth bright yellow; chin duller yellow; paler portions of bill yellowish; legs, feet and claws as in adult.

[Further material examined:

Brit. Mus. Coll.: ♂ 4-4-79 Eridge; ♀ 12-12-78 Mynall; ♀ -9-74, o? -3-75 Eridge (Bourdillon); o? 9-1-01 Bandanutta [Vandamettu ?] (A. N. Nair).

Bom. Nat. Hist. Soc. Coll.: ♂ 1-7-93 Pulneys (J. P. Cook).

Measurements (including above):

	Bill.	Wing.	Tail.
8 ♂♂	15-16	68-73	60-67 mm.
6 ♀♀	15.5-16	65-70.5	61.5-64.5 mm.

A. p. brucei differs from this, the typical race, in being altogether paler. The crown and nape are a clearer colder grey; the rest of the upper parts are greyer and colder with less brown in them; the wings and tail are not so dark. The lower parts are also much paler, washed with greyer brown, as compared with rich fulvous. It is slightly larger; an equal number of birds measure:

	Bill.	Wing.	Tail.
8 ♂♂	15-17	69.5-77	64.5-70.5 mm.
6 ♀♀	15-16.5	67.5-73	67.5-69.5 mm.—H. W.]

It would perhaps be accurate to designate this Quaker Babbler as the commonest and most abundant bird species inhabiting the evergreen forest tracts of the States. I met with it from almost the level of the low country (Thattākād 200 ft. !) up to an elevation of 7,000 ft. in ravine sholas on Kŭmarikkaimalāi near Marāiyūr.

The birds move about in parties of 7 to 10 individuals hunting insects among the foliage of the moss-covered trees, hopping about from sprig to sprig and often clinging upside down to peer into the angles of the leaf-stalks. They also descend lower down into the evergreen undergrowth of seedlings and cane-brakes, and almost invariably form the nucleus of the mixed hunting parties of small birds in the forest. At Kŭriārkŭtti they were common in the mixed bamboo forest as well as in the frequently intervening patches of evergreen.

The 'song' of four quavering whistling notes of the consistency of a Magpie Robin's, is repeated incessantly as the birds move about.

Like many other birds, I found them very partial to the nectar of *Erythrina lithosperma* flowers, and wherever these trees occurred shading coffee or tea on the edges of evergreen patches, parties were invariably observed probing into the blossoms. They must be added to the long list of bird species on which this tree is dependent for the cross-pollination of its flowers. A specimen shot in the act of eating nectar had pollen adhering to its chin and throat.

Kinloch appears to have overlooked this species in his list for the Nelliampāthies where I found it common.

In the Pālni Hills also it is common. Fairbank (*S.F.*, v, 404) observed it in wooded ravines on the hillsides.

The species is not found in Ceylon.

Breeding: No. 876 (17 November) appeared to be getting ready to breed. Its testes showed a slight development, while it was undergoing a complete (pre-nuptial ?) moult.

No. 132 (23 January) had a soft ovarian egg and some of the other follicles upto 4 mm. in diameter. It was in freshly moulted plumage.

No. 156 (25 January) testes 10×6 mm. Fresh plumage.

No. 176 (28 January) soft ovarian egg and follicles greatly enlarged. An incubation patch was present, and the bird was carrying a fine rootlet in its bill. No moult.

No. 177 (28 January) testes 9×6 mm. Fresh plumage.

No. 192 (30 January) juvenile with very soft skull. Out of nest, but being tended by parent.

No. 213 (4 February) testes 8×6 mm. Fresh plumage.

No. 321 (21 February) testes 9×7 mm. Moulting body and remiges. (Post-nuptial ?).

On 25 April (Balamore, Ashāmbu Hills) a nest was discovered in a dense evergreen shola at ca. 3,000 ft. It was a flimsy cup of hair-like rootlets and some moss, slung hammock-wise between two horizontal twigs of a seedling at a height of about 4 ft. Diameter of cup ca. 70 mm.; depth 80 mm. It contained two naked chicks, one of which was observed at 7 a.m. pushing itself out of the shell. By 3-15 p.m. a fine fluffy down of pale yellow colour had made its appearance at various points on the back. The ground below the nest swarmed with leeches.

As is clear from the above, in Travancore-Cochin the breeding season lasts from January to May at least. That it may begin a month or so earlier is suggested by one of the Survey specimens, while it is said to continue till June. According to *Nidification*, i, 245, it breeds in Travancore principally in May and June, often April, while Stewart says he has taken eggs in every month of the year. Full clutch 2, rarely 3 eggs, but A. P. Kinloch took several c/3 at Kollengode and considered this the normal there.

At Culputty, South Wynaad, Mr. Darling, Junior, found a nest as late as October.

Rhopocichla atriceps bourdilloni (Hume). Bourdillon's Babbler.

Specimens collected: ♀? 10-1-33 Marāiyūr (at 6,000 ft.); 159 ♂, 160 ♂ 25-1-33; 169 ♂ (imm.) 28-1-33, 197 ♂ (imm.) 31-1-33 Santhanpāra 3,500 ft.; 223 ♀? (imm.) 6-2-33 Thattākād 200 ft.; 323 ♂ 21-2-33 Peermade 3,200 ft.; 363 ♂ 27-2-33 Kūmili 3,000 ft.; 426 ♀ 9-3-33 Camp Derāmalāi 3,000 ft.; 477 ♀ 20-3-33 Rājampāra 1,350 ft.; 494 ♂, 495 ♀ 26-3-33 Tenmalāi 5,000 ft.; 645 ♂ 23-4-33 Balamore Estate 2,000 ft.; 822 ♀? 10-8-33 Kūtyāni 300 ft. Trivandrum Talūk; 873 ♀ 16-11-33 Kūriārkūtti 1,600 ft.; 994 ♀ 19-12-33 Pādagiri 3,000 ft.

Elsewhere noted at: Mūndakāyam (in Ürümbikera Reserve Forest), Wandamet, Kūvallé Incline (along Cochin Forest Tramway).

Colours of bare parts: Iris lemon yellow or pale golden yellow; upper mandible dark horny-brown; commissure and lower mandible pale greyish flesh colour; mouth *adult* pale pinkish-flesh, *immature* mouth and gape yellow; legs and feet pinkish-grey; claws dusky.

[The sexed Survey specimens measure:

	Bill.	Wing.	Tail.
8 ♂♂	15-16	55-60.5	46.5-51 mm.
5 ♀♀	14-15	54-58	43-48 mm.

In the Eastern Ghats Survey I expressed certain doubts as to whether two races *atriceps* and *bourdilloni* should be recognised, for the following reasons: (1) that *bourdilloni* exhibited characters which might suggest that it was the juvenile plumage of *atriceps;* (2) that both forms were stated to occur throughout the Travancore hills; and (3) that Trichoor, the usually accepted type-locality of *atriceps* was in the area which geographically should be occupied by *bourdilloni*.

The question has now been cleared up by the fine series collected by Mr. Sálim Alí. This shows that the juvenile and adult birds of this race are alike in colouration, both being brown-headed. It also shows that there is a certain amount of variation in the colour of the crowns, some being browner and others blacker. This is to be expected, as *bourdilloni* is an intermediate form between *atriceps* and *nigrifrons*, and it no doubt explains Ferguson's statement that both forms occur throughout the Travancore Hills, though *atriceps* is far less common (*J.B.N.H.S.*, xv, 260). No true *atriceps* was met by the Surveys.

As regards the type-locality of Trichoor for *atriceps*, the two Survey specimens from Cochin State are beyond all doubt *bourdilloni* and it therefore appears very highly probable that birds from Trichoor must belong to the same form and not to *atriceps*. None are, however, available for examination. It must be remembered moreover, that Jerdon only recognised one form. His original description most clearly refers to typical *atriceps* with the black head, but his localities no doubt refer to both forms for he says: 'I have seen it in the Trichoor and Wurgungherry [Wadakkancheri ?] jungles and also on the Coonoor Ghat and in the Wynaad' and in the *Birds of India* (vol. ii, p. 19)

whilst still only recognising one form he expands his localities to include 'all the forests of Malabar', that is the Malabar Coast.

Trichoor was only selected later as type-locality as it was the first locality mentioned, but since it appears certain that this locality is within the range of the southern form, the type-locality must be shifted to one of the other places mentioned by Jerdon. I accordingly designate the Wynaad as the type-locality.

I may mention that this is one of the species in which 'museum browning' is very marked—fresh birds being much more olive in tint than birds kept for some years.—H. W.]

Bourdillon's Black-headed Babbler is essentially a bird of evergreen forest and is met with wherever patches of this occur, from the level of the low country up to an elevation of at least 6,000 ft. in the hills. It goes about in flocks of from 5 to 10 birds, keeping to dense undergrowth of rattan (*Calamus*) and seedlings or *Strobilanthes* especially by the edge of paths or clearings, and seldom ascends higher up into the trees. So narrowly is it confined to evergreen jungle that I frequently came across it in sholas bordering the ravines amongst the grassy hilltops at Wandamet (Cardamom Hills) often barely half an acre in extent and separated from the next, no bigger than itself, by a mile or more of open rolling grass-covered 'downs'. At Kūtyāni in the environs of Trivandrum town where tiny patches of evergreen occur between hummocks covered with tapioca and plantain cultivation (with paddy-fields in the intervening narrow flats or valleys) and sundered by miles from the nearest evergreen patch of any size, this species has persisted in virtual isolation since at least 1903 when Ferguson recorded meeting it in these 'serpent groves', most of which have by now disappeared.

At Kūriārkūtti, the birds were commonly observed in mixed bamboo forest on the verge of evergreen jungle, amongst dense scrub and thickets.

A harsh, rather subdued *chur-r, chur-r,* etc., something like similar notes of the Iora, is uttered as the flocks move about the undergrowth very much in *Dumetia* fashion, and the birds have a habit—having ventured too far up in a cane-brake or the like—of dropping perpendicularly like a falling leaf into the thickets below on the slightest alarm or suspicion.

Fairbank does not seem to have come across it in the Pālnis though it is more than likely that it occurs in those hills.

The Ceylonese race *R. a. nigrifrons* is found throughout that island.

Breeding: Nos. 169 (28 January), 197 (31 January) and 223 (6 February) were all immature birds with very imperfectly ossified skulls, juvenile gape and mouth and Nos. 169 and 223 were undergoing heavy post-juvenal body moult. They were evidently between 1½ and 2½ months old. No. 477 (20 March) had conspicuously granular ovaries; it was in fresh plumage and appeared ready to breed. The gonads of the other specimens gave no indication as regards the breeding season, but it seems from the evidence that this is by no means so well defined as has been described ('March to May, July and August', *Fauna*, vol. i, p. 282) and the statement in the Eastern Ghats Report (*J.B.N.H.S.*, xxxv, 749) that breeding continues throughout the year is probably more correct.

T. F. Bourdillon (*S.F.*, ix, 299-300) took a nest at Mynall (4,300 ft.) in South Travancore on 24 March in a low bush at about 18 in. from the ground. He describes it as a domed structure, very similar to the nest of *Ochromela nigrorufa* but slightly larger, composed externally of 'Irul' [meaning doubtless Eeta (*Ochlandra*)] leaves and lined with fine hair-like roots. The eggs [number ?] were white, very sparingly spotted with purple except towards the larger end where the spots coalesced to form an imperfect zone.

According to *Nidification* (i, 254) most eggs in Travancore are laid in April, May and June, though Stewart has taken them in every month. c/2 is said to be normal, c/3 unusual.

Ægithina tiphia multicolor (Gmelin). The Ceylon Iora.

Specimens collected: 78 ♂ 13-1-33 Marāiyūr 3,500 ft.; 168 ♂ 26-1-33 Santhanpāra 3,500 ft.; 219 ♀ 4-2-33 Thattākād 200 ft.; 467 ♀ 18-3-33 Rājampāra 1,350 ft.; 490 ♂ 25-3-33 Tenmalāi 500 ft.; 636 ♀, 637 ♂ 21-4-33 Arāmboli 250 ft.; 692 ♂ 20-7-33, 721 ♀ 25-7-33 (Thirūmalāi 100 ft.); 748 ♂, 749 ♀

30-7-33 (Veli 130 ft.); 791 ♂ 5-8-33 (Poojappūra 140 ft.); 811 ♀ 8-8-33 (Mūkūnnimalāi 800 ft.) Trivandrum Environs; 964 ♀ 10-12-33 Nemmāra 300 ft.; 1034 ♂ 28-12-33 Karūpadanna ca. S.L.

Elsewhere noted at: Kottāyam (50 ft.), Peermade (3,200 ft.), Kūmili (3,000 ft.), Camp Derāmalāi (3,000 ft.—Panthalam Hills), Trivandrum Town, Cape Comorin (S.L.), Balamore Estate (2,000 ft.—Ashāmbū Hills), Kūriārkūtti (1,600 ft.), Wadakkāncheri (400 ft.), Pādagiri (3,000 ft.—Nelliampathy Hills), Trichūr, Ernakulam.

Colours of bare parts: Iris greyish- or silvery-brown; bill bluish-plumbeous, black on culmen; palate greyish-blue, gullet slaty-brown, brownish-black or slaty-pink in adult; legs and feet slaty-grey; claws brown.

[The Survey specimens measure:

	Bill.	Wing.	Tail.
9 ♂♂	17-19	63-68.5	45-51 mm.
7 ♀♀	16.5-19	61-66	47.5-52.5 mm.

Owing to the courtesy of the Director of the Colombo Museum, I have been able to examine a further series of 8 specimens of the Iora from Ceylon and these, taken in conjunction with the series in the British Museum, lead me to the conclusion that the darker and duller green of the upper parts of the female and the male in 'winter plumage' is the only satisfactory feature on which this race can be maintained. The only specimens from Travancore in the British Museum are the unsatisfactory 'Anjango' series of which only one shows the green back. I have carefully compared the good series obtained by the Surveys with these Ceylon specimens and also with an ample series of *Æ. tiphia humei* and find that the Travancore series are as a whole intermediate between the others. This being so—and it is interesting to note that No. 964 from Nemmāra in the Pālghāt Gap is quite indistinguishable from *Æ. t. humei*—I think it is of value to mark the connection between the Travancore area and Ceylon by including these intermediates under the name of the Ceylon race. There is of course no difference between the birds of Northern and Southern Travancore and these Travancore intermediates merely represent a phase of the general intergradation from north to south which I emphasised in my account of this species in the Eastern Ghats Survey (*J.B.N.H.S.*, xxxv, 750).

The series suggests that the breeding season of the Iora in Travancore is quite undefined; at any rate, accepting the usual definition that the black head and back of the male represent the breeding season and the green upper parts the non-breeding season. I find that No. 78 (13 January) is in winter plumage and Nos. 168 (26 January) and 1034 (28 December) are in breeding plumage, whilst No. 931 (1 December) is moulting into breeding plumage. Legge evidently found the same state of affairs in Ceylon and was thereby led to suggest that the black upper parts might be merely connected with age. I do not think the latter explanation necessary, however, in view of the connection between the breeding seasons and the plumage in other areas where the breeding season is more clearly defined.—H. W.]

The Iora is a common bird throughout the area from about sea-level to at least 3,500 ft. in the hills, and possibly even higher up to some extent, though at Mūnnār (5,000 ft.—Kannan Dēvan Hills) it was noted as absent. At Kotāgiri in the Nilgiris, I observed it at 5,500 ft. Ferguson does not seem to have met with it except in the low country where it is certainly more abundant. This is probably the basis for the statement in the Eastern Ghats Report (*J.B.N.H.S.*, xxxv, 749) that 'In the south-west it seems to be more definitely a bird of the plains as it avoids the Pālni Hills and the Travancore ranges south of the Pālghat Gap'.

It is a bird of light secondary or deciduous-and-bamboo jungle and avoids evergreen forest. Its favourite haunts, however, are the mango, jack and cashew gardens about villages and homesteads in the low country, and it is also quite at home in the gardens and compounds of the larger towns such as Trivandrum, Trichūr and others.

Fairbank (*S.F.*, v, 406) only obtained a specimen at the base of the Pālni Hills and does not record it higher up. The species and race are abundant in Ceylon.

Breeding: No. 931 (1 December) was completing body moult into breeding plumage though its gonads as yet showed no development. No. 1034 (28 December) had acquired fresh breeding plumage, its testes measured 6×4 mm. (grey pigmented) and it was evidently ready to breed.

In No. 78 (13 January) the testes—ca. 2×1.5 mm.—were apparently reverting to normal non-breeding condition as the specimen was in freshly moulted non-breeding plumage. No. 168 (26 January) on the other hand was evidently ready to breed. It was completing pre-nuptial moult and had testes measuring 8×5 mm. At this time other males in breeding dress were also calling from bare branches etc. in loud melodious whistles, and displaying. No. 219 (4 February) had a firm granulated ovary and on 9 February a male in *non-breeding* plumage was observed fluffing out the white rump feathers, slightly cocking up tail, drooping wings at sides and displaying before a female in rivalry with another cock in breeding dress. If the above evidence be admissible, and I have frequently observed this on other occasions also—then Hume's statement (*S.F.*, v, 430) that cocks sometimes breed in female plumage *may*, after all, be correct. On 4 March the birds were noted as busy courting and displaying and No. 490 (25 March) had testes enlarged to 6×4 mm.

Ferguson took nests in the Public Gardens at Trivandrum in April, and one of the specimens obtained by Pillai in that neighbourhood on 8 August (No. 811) was immature with an imperfectly ossified skull and undergoing post-juvenal body moult, therefore about 2-2½ months old.

From the evidence cited above it is clear that the breeding season of the Iora in the Travancore-Cochin area is irregular and much prolonged, extending from about January to June for certain, and sporadically over the greater part of the year.

Chloropsis aurifrons insularis Kinnear and Whistler. The Gold-fronted Chloropsis.

Specimens collected: 65 ♀, 66 ♂ 11-1-33 Marāiyūr 3,500 ft.; 189 ♂, 190 ♂ (juv.) 30-1-33 Santhanpāra 3,500 ft.; 444 ♀ 16-3-33 Rājampāra 1,350 ft.; 499 ♀ (imm.) 27-3-33 Tenmalāi 500 ft.; 899 ♂ 25-11-33 Wadakkāncheri 400 ft.

Elsewhere noted at: Thattākād (200 ft.), Kūmili (3,000 ft.), Nemmāra (300 ft.), Pādagiri (3,000 ft.—Nelliampathy Hills).

Colours of bare parts: *Adult*: Iris hazel brown; bill in ♂ black, ♀ horny-brown; mouth pinkish-flesh to slaty-pink; legs and feet grey or plumbeous; claws brown. *Juvenile*: Bill pale horny-brown; mouth vivid pink; rest as in adult.

[Measurements of 12, including Survey series:

	Bill.	Wing.	Tail.
7 ♂♂	22.5-25	86.5-93.5	65-69 mm.
5 ♀♀	22-23	84.5-90.5	64.5-67 mm.

For plumages see Eastern Ghats Report, *J.B.N.H.S.*, xxxv, 752.

In the Eastern Ghats Survey the name *Chloropsis aurifrons davidsoni* Stuart Baker was used for the race of this species found in Southern India exclusive of the range of *C. a. insularis*. This was a name proposed by Mr. Stuart Baker, *Bull. B.O.C.*, xli (1920), p. 8, in place of *Chloropsis malabaricus* (Gmel.) pre-occupied. Dr. Sassi has, however, since shown [*Bull. B.O.C.*, liii (1932), p. 44] that this race should be known as *Chloropsis aurifrons frontalis* (Pelzeln) as it was so described by Pelzeln in Sitzungsberichte der Mathem.-naturwiss. Klasse der Kaiserl. Academie der Wissenschaften in Wien, Tome, xx (1856), p. 157, pl. ii, fig. i. The type is an adult male in the Vienna Museum collected at Khelgate near Goa by Baron Huegel. *C. a. davidsoni* Stuart Baker will therefore stand as a synonym.—H. W.]

This Chloropsis is fairly common throughout the States inspite of Ferguson's statement that it is not found in the low country. I came across it from about 200 ft. (Thattākād) up to an elevation of 3,500 ft. in the hills of both Travancore and Cochin. My impression is that this species prefers more thickly wooded country than Jerdon's Chloropsis. Thus, at Thattākād where patches of dense evergreen forest and open deciduous and secondary jungle occur in juxtaposition, *aurifrons* was more or less confined to the former and *jerdoni* to the latter. The birds were usually met with in pairs, but family parties of 3 or 4 were not uncommon.

In addition to insects, spiders and berries, its food consists to a large extent of the nectar of flowers. I frequently, and regularly, observed it probing with its bill into blossoms of the following species which it doubtless plays a considerable part in cross-pollinating:

Musa (*sapientum*?),
Mucuna pruriens (pollen on forehead!),
Erythrina lithosperma and *E. suberosa*,
Loranthus longiflorus,
Mezoneuron cucullatum (var. *grandis*).

Fairbank does not record the Gold-fronted Chloropsis in his Pālnis list (*S.F.*, v). The race *insularis* is generally distributed in Ceylon up to 4,000 ft.

Breeding: Specimen No. 899 (25 November) was completing pre-nuptial moult and its testes were enlarged to 4×3 mm. On 30 November a male (?) was observed feeding a full-fledged young in which latter the black gular patch and blue moustachial streaks were as yet absent. Nos. 65 and 66 (11 January) were a pair. The ovary of the female was distinctly granular (follicles about 1 mm. in diameter) while the testes of the male measured 5×3. The birds were in fresh plumage except for a light moult on the female's breast, and were evidently ready to breed.

No. 189 (30 January—testes ca. 4×3 mm.) was the parent of No. 190 and was busy feeding the latter on a tree in dense scrub jungle. The young was probably less than a week out of nest. Its skull was papery and rectrices, remiges and tectrices only partly grown.

Specimens shot on 16 and 27 March showed no genital development and were undergoing complete post-nuptial (?) moult, in the latter only tail and body.

The breeding season in this area is apparently from about November to February.

Chloropsis jerdoni (Blyth). Jerdon's Chloropsis.

Specimens collected: 246 ♀, 247 ♂ 8-2-33 Thattākād 200 ft.; 688 ♀ 18-7-33 (Pūlayanār Kotta 300 ft.); 740 ♂ 29-7-33 (Kūttāni 300 ft.); 783 ♀ 4-8-33 (Cattle Farm); 808 ♀ 8-8-33 (Mūkūnni Malāi 800 ft.); 815 ♂ (Nettāyam 200 ft.) Trivandrum Environs; 1017 ♂, 1018 ♀ 26-12-33 Karūpadanna ca. S.L.

Elsewhere noted at: Marāiyūr (3,500 ft.), Kottāyam (S.L.), Ūrūmbikera Reserve Forest (ca. 1,000 ft.—near Mūndakāyam), Kūmili (3,000 ft.), Arāmboli (250 ft.), Balamore Estate (2,000 ft.), Kūriārkūtti (1,600 ft.).

I noted it as absent at Rājampāra where only *aurifrons* seemed to occur.

Colours of bare parts: Iris hazel brown; bill ♂ black, ♀ horny-brown, grey at sides of base of lower mandible; mouth pinkish-grey or pinkish-slate; legs and feet slaty-grey; claws dusky.

[The Survey specimens measure:

	Bill.	Wing.	Tail.
3 ♂♂	23-24	87-90.5	69.5-72.5 mm.
6 ♀♀	22.5-23.5	83.5-86.5	66.5-69.5 mm.

Plumages given in Eastern Ghats Report, *J.B.N.H.S.*, xxxv, 753.—H. W.]

Jerdon's Chloropsis is fairly common in the drier parts of the area. It inhabits open deciduous country, secondary scrub, groves of jack, cashew, mango etc. and pepper cultivation about homesteads, and avoids densely wooded tracts. Ferguson states that it does not ascend the hills; I however, met it up to an elevation of 3,500 ft. In food and habits it does not differ to any appreciable extent from the foregoing species. In several localities in Cochin I found it a wholetime attendant on the blossoms of *Helicteres isora*, probing into them for the nectar.

In the Pālnis, Fairbank (*S.F.*, v, 406) obtained a specimen at 4,000 ft. in the lower hills. In Ceylon Jerdon's Chloropsis is fairly generally distributed up to 3,500 ft.

Breeding: Nos. 1017 and 1018 (26 December), a pair, were certainly breeding. The testes of the one measured 5×3 mm., while the ovarian follicles of the other were considerably enlarged, the largest measuring 5 mm. in diameter. In Nos. 246 and 247 (8 February), also a pair, the ovarian follicles were about 1 mm. and the testes ca. 4×3 mm. They were undergoing pre-nuptial body moult—more advanced in the male than in the female—and evidently preparing to breed.

Two of the specimens collected by Pillai (Nos. 783 and 815) on 4 and 9 August in the environs of Trivandrum town had imperfectly ossified skulls from which it would appear that the breeding season, commencing probably about November as in the foregoing species, continues till at least June, and perhaps later.

Family: Pycnonotidae.

Microscelis psaroides gaeesa (Sykes). The Southern Indian Black Bulbul.

Specimens collected: 112 ♀ 19-1-33 Mūnnār 5,000 ft.; 659 ♂ (imm.) 25-4-33 Mūthūkūzhi 3,500 ft.; 974 ♂ 13-12-34 Pādagiri 3,000 ft.

Elsewhere noted at: Marāiyūr (3,500 ft.), Santhanpāra (3,500 ft.), Peermade (3,200 ft.); Camp Derāmalāi (3,000 ft.), Balamore Estate (only above 2,500 ft.).

Colours of bare parts: *Adult*: Iris orange-brown; bill bright deep orange; mouth orange and pink; legs and feet yellowish-orange; claws horny-brown. *Immature*: Iris olive-brown; bill horny-brown, paler at tip; gape yellow; mouth yellowish-pink; legs and feet yellowish-brown; claws horny-brown.

[Measurements of 11 including Survey specimens:

	Bill.	Wing.	Tail.
7 ♂♂	26-28.5	117.5-124.5	98-105 mm.
4 ♀♀	26-28.5	112-123	96.5-104.5 mm.

Further specimens examined:

Brit. Mus. Coll.: ♂♂ 21-6-77 Kodaikānal 7,000 ft., ♀ 1-6-77 Pālnis (Fairbank); ♂ 21-12-79, ♂ 24-12-79 Nangand (?), ♀ 29-11-78 Mynall (Bourdillon).

Bom. Nat. Hist. Soc. Coll.: ♂ 18-8-93 Thekadi (J. P. Cook).

H. Whistler Coll.: ♀ 26-10-23 Nelliampathies 3,500 ft. (A. P. Kinloch).—H. W.]

The lowest elevation at which the Surveys came across the Black Bulbul was about 2,500 ft. and it is a common species in all the hills from 3,500 ft. up. Ferguson records once having met a large flock as low down as 1,500 ft., while according to Bourdillon it is 'found also in small numbers at the foot of the hills'. This latter must surely be an extremely rare occurrence.

The birds go about in noisy flocks of 6 to 12, often considerably larger, and usually keep to the tall tree-tops or the higher branches of forest trees, whence they may frequently be seen launching short twisting sallies after winged insects. *Eucalyptus* trees are much favoured, and I observed both in these hills—wherever the tree has been introduced—and in the Nilgiris, that the birds regularly visited the white 'brush-like' flowers principally for the attending insects but also occasionally sipping the nectar. Some of the commonest members of the localised bird associations or hunting parties in the sholas at about 5,000 ft. were: *Microscelis, Zosterops, Sitta frontalis, Culicicapa, Pomatorhinus, Trochalopteron* (frequently), *Muscicapula pallipes, Ochromela nigrorufa*. The first usually kept to the tree-tops or higher branches, the last two to the evergreen undergrowth of seedlings etc. while the remaining hunted indiscriminately between these two 'zones'.

The nectar of *Erythrina lithosperma* is much sought after by Black Bulbuls, and the shade trees on coffee estates in the higher hills were in constant attendance by noisy flocks. I found them also feeding largely on the ripe drupes of *Zizyphus œnoplia* (at Marāiyūr) and on Jāmūn (*Eugenia* sp.) and *Vaccinium Leschenaultii* ('Bilberries').

In the Pālnis, Fairbank (*S.F.*, v, 405) found them in groves both at the tops of the hills and lower down. In June they were in noisy flocks of 20 to 30 birds. Terry (*S.F.*, x, 476) also came across them on 2 or 3 occasions at Pulungi. In the Nelliampathies where they are extremely common, Kinloch found that the flocks broke up into pairs about February. This Bulbul is represented in Ceylon by the race *humii* which has a larger bill.

Breeding: In No. 974 (13 December) the testes were undeveloped. No. 112 had a distinctly granulated ovary, the follicles measuring about 1 mm. in diameter, and the bird was in somewhat worn plumage. At this time pairs were observed in courtship. No. 659 (25 April) was immature (with very imperfectly ossified skull) undergoing post-juvenal body moult. On 17 July at Kotāgiri (Nilgiris) I found them feeding full-fledged young similar to No. 659, generally.

In Travancore Stewart found them breeding at between 4,000 and 6,000 ft. elevation in dense forest, principally in April and May. Kinloch also records the same to be the chief breeding months in the Nelliampathies (*Nidification*, i, 343).

Molpastes cafer cafer (Linn.). The Ceylon Red-vented Bulbul.

Specimens collected: 261 ♂ 10-2-33 Thattākād 200 ft.; 564 ♂ 11-4-33 Cape Comorin ca. S.L.; 691 ♂ 20-7-33 (Marūthānkūzhi 50 ft.); 752 ♀ 30-7-33 (Thirūmalāi 120 ft.) Trīvandrum Environs; 951 ♂ 7-12-33 Nemmāra 300 ft.

Elsewhere noted at: Marāiyūr (3,500 ft.), Kottāyam (ca. S.L.), Rājampāra (1,350 ft.—Panthalam Hills), Trivandrum Town, Arāmboli (250 ft.), Chālakūdi, Wadakkāncheri (400 ft.), Karūpadanna (ca. S.L.).

Noted as absent at: Mūnnār (5,000 ft.), Santhanpāra (3,500 ft.), Kūriārkūtti (1,600 ft.), Pādagiri (3,000 ft.—Nelliampathy Hills).

Colours of bare parts: Iris brown; bill brownish-black; mouth pinkish yellow; legs, feet and claws blackish-brown.

[Measurements of 9 including Survey specimens:

	Bill.	Wing.	Tail.
7 ♂♂	19-21	92.5-98	76-84 mm.
2 ♀♀	18.5-21	91.5-98.5	83 mm.

Further material examined:

Brit. Mus. Coll.: ♂ 18-11-78, ♂ 19-11-78 Trivandrum (Bourdillon); ♂ 27-5-77 Vengāyam Parry, E. base of Pālnis (Fairbank); ♀ 28-2-75 Kolāchal, Travancore.—H. W.]

The distribution of the Red-vented Bulbul in the area covered by the states of Travancore and Cochin is peculiar and worthy of closer scrutiny. The precise ecological factors that control it are obscure. I met it from about sea-level to an altitude of 4,000 ft., but on the whole it would perhaps be correct to say that it avoids elevations over 1,500-2,000 ft. and also country that is densely wooded. In the Nilgiris, however, I found it common up to 5,000 ft. At Thattākād a sharp division between the biotopes of this Bulbul and the Red-whiskered species was clearly noticeable. In the mixed evergreen-and-deciduous forest patches none of the former were in evidence though the latter were abundant, while as soon as one reached dry deciduous-and-scrub country the tables were turned and *Otocompsa* almost completely disappeared. It was more or less the general rule for the two to replace each other in the localities and biotopes suited to them.

The following table expresses as nearly as possible their respective positions in Travancore and Cochin.

Locality.	*Molpastes.*	*Otocompsa.*
Marāiyūr, 3,500 ft.	Common	Common.
Mūnnār, 5,000 ft.	Absent	Common.
Santhanpāra, 3,500 ft.	Absent	Common to very common.
Thattākād, 200 ft.	Not common	Common.
Kottāyam, ca. 50 ft.	Common	Much less common.
Peermade, 3,200 ft.	Absent	Very common.
Kūmili, 3,000 ft.	Very scarce (Only 3 !)	Common.
Camp Derāmalāi, 3,000 ft.	Absent	Fairly common.
Rājampāra, 1,350 ft.	Fairly common	Fairly common.
Tenmalāi, 500 ft.	?	Fairly common.
Trivandrum Town	Common	Common.
Cape Comorin	Fairly common	Absent.
Aramboli, 250 ft.	Common	Absent.
Balamore Estate, 2,000 ft.	Absent	Common.
Chālakūdi	Fairly common	?
Kūriārkūtti, 1,600 ft.	Absent	Not common.
Wadakkāncheri, 400 ft.	Common	Not common.
Nemmāra, 300 ft.	Common	Absent.
Pādagiri (from 1,500 ft. up)	Absent	Very common.
Karūpadanna	Fairly common	Not common.

The food of this species in common with that of the rest of the *Pycnonotidae* consists chiefly of fruits and berries. The following are some of the species observed to be patronised as and wherever available: *Zizyphus oenoplia, Maesa perrottetiana, Eugenia jambolana, Vaccinium Leschenaultii, Salvadora persica, Polygonum chinense* L., *Trema orientalis* Blume, *Berberis tinctoria* Lesch., *Lantana camara*, also figs of *Ficus bengalensis, F. religiosa* and *F. glomerata*. A great many others are also eaten and there is no doubt that this group is of the greatest importance in the dispersal of the plants. I also observed these Bulbuls regularly eating nectar from flowers of *Erythrina lithosperma, Bombax malabaricum, Loranthus longiflorus, Grevillea robusta* and other species.

In the Pālnis both Fairbank (*S.F.*, v, 405) and Terry (*S.F.*, x, 476) found the Red-vented Bulbul somewhat rare as compared with *Otocompsa* at the top of the hills, but more abundant down the slopes and in the adjacent plains.

The same race, *cafer*, occurs in Ceylon throughout the low country and at medium elevations in the hills, becoming rarer higher up.

Breeding: On November 25 (Wadakkāncheri) a bird was observed carrying nesting material in its bill. In No. 261 (10 February) the testes—ca. 3×2 mm. —appeared to be developing and the bird was completing pre-nuptial moult (?). On 19 April (Arāmboli) a nest in a *Thespesia populnea* tree at 10 ft. contained two chicks about 5 days old, with quills sprouting, and one addled egg. Both parents were busy feeding the young (on berries !).

The gonads of the two specimens obtained in July were also slightly developed, but from their plumage they appeared to have finished breeding.

Ferguson took a nest with 2 eggs on 29 March and mentions another in the Public Gardens at Trivandrum which contained 3 young birds at the end of April. According to him, the breeding season in Travancore is February to May. T. F. Bourdillon took nests with eggs in May and June (*Nidification*, i, 354).

Probably as elsewhere in its range, there is really no well-defined season and the breeding period fluctuates considerably on either side of the above extremes.

Otocompsa jocosa fuscicaudata Gould. The Southern Red-whiskered Bulbul.

Specimens collected: 341 ♂ (juv.) 23-2-33 Peermade 3,200 ft.; 650 ♀, 651 ♂ 23-4-33 Balamore Estate 2,000 ft.; 686 ♀ 18-7-33, 831 ♂ 11-8-33 (Pulayanārkotta 200 ft.); 855 ♂ 30-7-33 (Thirūmalāi 100 ft.) Trivandrum Environs; 887 ♂ 21-11-33 Kūriārkūtti 1,600 ft.

Elsewhere noted at: See table under *M. c. cafer*.

Colours of bare parts: Iris hazel-brown to brown; bill horny black; mouth orange-yellow and pink; legs, feet and claws horny brown.

[The Survey specimens measure:

	Bill.	Wing.	Tail.
4 ♂♂	18.5-20.5	83.5-89	79-84 mm.
2 ♀♀	18-18.5	81-83	77-80 mm.

No. 341 is in juvenile plumage. This is very similar to the adult but the crest is shorter and browner, a less pure black; the red 'whisker' patch is absent; the upper parts are duller, more rusty in colour and the gorget is duller; the undertail coverts are dull pinkish. The first primary is softer and more rounded, while the outer tail feather is narrower and more pointed at the tip.—H. W.]

The distributional peculiarities of this Bulbul in the Travancore-Cochin area have already been dealt with above.

In the Pālni Hills both Fairbank (*S.F.*, v, 405) and Terry (*S.F.*, x, 476) found it extremely common on the tops of the hills and extending right down to the bottom. This species is absent in Ceylon.

Breeding: In No. 887 (21 November) the testes measured 3×2 mm. and appeared to be developing. On 25 January (Santhanpāra) 2 nests were discovered in small bushes in an open patch of brushwood on the verge of a cardamom shola, each containing c/2. One egg from either clutch measured 23×16 mm. A third nest was situated in the thatch of a tenanted hut, containing c/2 on 30 January. During the night one of the eggs hatched. At

Red-whiskered Bulbul (*Otocompsa emeria*) on nest in Cycad palm.

Nest of White-browed Bulbul (*Pycnonotus luteolus*) with chicks 9 days old.
Photos by Author.

this time full-fledged young, recently out of nest, were observed on all sides being fed (on insects and various *Ficí*) and fussed over by the parents.

On 11 February a fourth nest was located on the bank of the Periyār River at Thattākād, in a branch of Eeta bamboo overhanging the water's edge. It was at a height of 5 ft. from the ground and contained c/2.

Specimen No. 341 (23 February) was juvenile with very soft skull and evidently not more than 3 weeks to a month old. On the same date an adult bird was observed carrying nesting material.

On 9 March (Camp Derāmalāi) a pair were building in a small tree at ca. 7 ft. a couple of yards from a residential bungalow. In the pair shot at Balamore Estate on 23 April (Nos. 650 and 651) the largest ovarian follicle measured 7 mm. in diameter while the testes of the male were enlarged to 5×4 mm. and the birds were obviously breeding. From the condition of their gonads both Nos. 686 (18 July) and 855 (30 July) also appear to have been either breeding or about to; the largest ovarian follicles of the former measured about 3 mm. in diameter, the testes of the latter 4×3 mm.

The above evidence suggests that while the breeding season is undoubtedly at its height in the months from December to May, it may extend considerably on either side of these extremes. In fact, it seems more than likely that, as is the case in other areas, breeding continues more or less sporadically throughout the rest of the year also.

Bourdillon gives December to June as the breeding season in Travancore, and according to him the birds lay 3 or 4 eggs. My experience during the Surveys has been invariably with 2 eggs or young.

Iole icterica (Strickland). The Yellow-browed Bulbul.

Specimens collected: 32 o? 7-1-33 Marāiyūr (at 4,500 ft.); 208 ♀ 3-2-33 Thattākād 200 ft.; 432 ♂ (juv.) 10-3-33 Camp Derāmalāi 3,000 ft.; 875 ♀? 17-11-33 Kūriārkūtti 1,600 ft.

Elsewhere noted at: Santhanpāra (3,500 ft.), Peermade (3,200 ft.), Kūmili (3,000 ft.), Rājampāra (1,350 ft.), Tenmalāi (500 ft.), Balamore Estate (2,000 ft.), Wadakkāncheri (400 ft.), Pādagiri (from 1,500 ft. up).

Colours of bare parts: *Adult*: Iris brownish-red; bill horny-black; mouth brownish-pink, slaty-pinkish and yellow, or pinkish-grey varying apparently with age (or season ?); legs and feet slaty-grey; claws horny-black. *Juvenile* (No. 432): Iris greyish-olive; bill pale horny-brown; naked chin and circumorbital skin dull magenta; gape yellowish-cream; mouth livid pink; legs pinkish-grey; feet pinkish-flesh; claws pale horny-brown.

[Series not satisfactory for measurements owing to moult. I have also examined 6 specimens from Travancore and 4 from the Pālnis in the British Museum Collection.—H. W.]

The Yellow-browed Bulbul is one of the commonest forest-frequenting species in all suitable tracts throughout the two States. Ferguson says it is confined to the hills; I met it from an altitude of about 200 ft. (Thattākād) up to 5,000 ft., but as in the Nilgiris it probably occurs still higher up.

The birds move about in noisy parties of 5 to 7 or more, feeding on the berries of many forest trees, and are frequently met with in the localised bird associations.

In the Pālnis, according to Fairbank (*S.F.*, v, 405), it occurs in small flocks from about 4,000 ft. up. It is generally distributed as a forest bird in Ceylon with no difference of race.

Breeding: Specimens Nos. 32 (7 January) and 208 (3 February) had undeveloped gonads, but on 7 February (Thattākād) a nest was found with one of the owners brooding. It was a flimsy cup of leaf-stalks etc. slung hammock-wise in the horizontal fork of a small twig of *Irul* (*Xylia xylocarpa*) overhanging the old High Range Road, at a height of about 7 ft. The nest contained c/2 (fresh), pinkish-white in ground colour with faint and fine phantom specks of reddish-brown, especially about the broad end. Both the eggs measured 23×16 mm. The parent sat very close for a time when I was under the nest, peering at me over the brim, but finally its courage failed and it departed in haste! Another bird on the same date was observed carrying a caterpillar in its bill to nest young. Inspite of breeding being in progress, most birds continued to remain in feeding parties.

No. 432 (9 March) is a juvenile just out of nest and about a fortnight old. While examining this specimen Mr. Whistler remarks that he cannot help feeling there must have been an error somewhere as it agrees with *Pycnonotus luteolus* in every respect and has no resemblance to *Iole*, whereas by all the rules of the family the young of *Iole* should resemble the adult fairly closely! I can only reply to this by saying that I have 'no possible probable shadow of doubt' that the young is *Iole* and none other. It was being fed and fussed over by the parents when shot. Besides the biotope at Camp Derāmalāi was totally unsuitable for *Pycnonotus luteolus* which was not seen in this locality at all.

In the Nelliampathies where Kinloch describes it as extremely common, he found the usual noisy flocks broken up into pairs in February. He took eggs in that month (*Nidification*, i, 387) though in Travancore Stewart found March and April to be the usual breeding months.

According to the *Fauna* (vol. i, p. 405) the Yellow-browed Bulbul breeds principally in February and March from Kanara to Travancore, and this is confirmed by the data now obtained by the Surveys.

Pycnonotus xantholæmus (Jerdon). The Yellow-throated Bulbul.

Not met with by the Surveys, neither do Hume, Ferguson or any others record it from Travancore nor Kinloch from the Nelliampathy Hills.

Travancore has been included in its 'Distribution' (*Fauna*, i, 415) on the strength of a single specimen obtained by William Davison at 4,020 ft. in the Annemalāi Hills at about 10°N. lat. and 'considerably to the West'. This would mean somewhere in the neighbourhood of Devikolam and about the junction of the High Range and Cardamom Hills sections. According to the collector this was the only example seen by him in two weeks (*Ibis* 1886, p. 146). The bird can therefore have been no more than an aberrant straggler beyond the extreme edge of its range, and in the absence of any further authentic evidence of its occurrence in Travancore, the inclusion of this area in the accepted distribution seems scarcely justified.

Pycnonotus gularis (Gould). The Ruby-throated Bulbul.

Specimens collected: 215 ♂, 216 ♀ 4-2-33 Thattākād 200 ft.; 446 ♂ 16-3-33 Rājampāra 1,350 ft.; 807 ♀ 8-8-33 (Mūkūnnimalāi 800 ft.) Trivandrum Environs; 919 ♂ 29-11-33 Wadakkāncheri 400 ft.

Elsewhere noted at: Ūrūmbikera Res. Forest near Mūndakāyam (ca. 1,000 ft.), Periyār Lake Environs near Kūmili, Tenmalāi (500 ft.), Balamore Estate (2,000 ft.); Kūvalle Incline (Cochin Forest Tramway); Kūriārkūtti (1,600 ft.); Pādagiri (3,000 ft.).

Colours of bare parts: Iris creamy-white; bill brownish-black; mouth yellowish-pink; legs, feet and claws horny-brown.

[The specimens measure:

	Bill.	Wing.	Tail.
3 ♂♂	15.5-16	74.5-77	68-70 mm.
2 ♀♀	14.5-15	72.5-75	67-68 mm.—H. W.]

The Ruby-throated Bulbul is not as uncommon as Ferguson's remarks (*J.B.N.H.S.*, xv, 264) would lead one to expect. I met it from about 200 ft. elevation up to 3,000 ft. but not higher, and it seems to have a decided preference for the hummocky foothills. Though a bird of evergreen forest in the sense that it is never found away from it, it is really the intermediate zone with a mixture of evergreen and deciduous vegetation—more correctly the edge of evergreen forest where land once cleared for rubber or other cultivation has become covered with secondary growth and tangles of *Mimosa*, *Mezoneuron* and the like—that is most suited to its taste. On the ghat road from Nemmāra to Pādagiri, Ruby-throated Bulbuls appeared as soon as about 1,500 ft. was reached and the requisite type of country commenced.

A specimen obtained by W. Daly on Mount Stewart in the Annemalāi Hills is in the Indian Museum. Fairbank (*S.F.*, v, 405) obtained a single specimen at Vengayam Parry (Pālni Hills) in 1867 but was never able to meet the bird there again, from which one may gather that it is very rare in those hills. It is not found in Ceylon.

In general habits it closely resembles both *Molpastes* and *Otocompsa* but is shyer and more retiring. It has a very pleasant song something of a cross between the song of *Otocompsa* and that of *Leucocirca aureola*. Many of the notes and bars are identically those of the latter but uttered with the richness and volume of the former.

Many species of berries are eaten and the various *Ficus* figs also form an important part of the dietary.

Breeding: In specimen No. 919 (29 November) the testes measured 3×2 mm. In 215 (4 February) they were also 3×2 mm., while in 446 (16 March) they had enlarged to 5×3 mm. and the bird was completing pre-nuptial body moult.

The example (No. 807) procured by Pillai on 8 August had mature ovary, the largest follicle measuring about 4 mm. in diameter, and the bird was probably breeding.

In the absence of more precise data it would appear that the breeding season of this Bulbul is ill-defined. The *Fauna* (vol. i, 416) is silent on the point though a detailed description of the nests and eggs is given. *Nidification* (i, 397) mentions a c/2 taken by Stewart in Travancore Hills on 6 March.

Pycnonotus luteolus luteolus (Lesson). The White-browed Bulbul.

Specimens collected: 594 ♂ 15-4-33, 614 ♂, 615 ♂ (juv.) 18-4-33 Arāmboli 250 ft.; 848 ♂ 13-8-33 (Nettāyam 200 ft.); Trivandrum Environs; 947 ♂ 6-12-33 Nemmāra 300 ft.

Elsewhere noted at: Marāiyūr (3,500 ft.), Kottāyam (ca. S.L.), Wadakkāncheri (400 ft.), Trichūr, Karūpadanna (ca. S.L.), Cranganoor Fort. In the Trivandrum Museum I have seen specimens from Ponmūdi and Arāmboli, and several others without data.

Colours of bare parts: *Adult*: Iris reddish-brown; bill brownish-black; mouth yellowish-pink; legs, feet and claws dark plumbeous or blackish-brown. *Juvenile* (No. 615): Iris hazel brown; bill horny-brown.

[The Survey specimens measure:

	Bill.	Wing.	Tail.
5 ♂♂	18.5-20.5	82-90.5	76-80 mm.

Other specimens examined:

Brit. Mus. Coll.: o? 6-6-77 East base of Pālnis (Fairbank); ♂ 16-11-78 Trivandrum (Bourdillon).

Travancore birds must be put definitely with the Indian race and not the smaller Ceylon race.

Juvenile No. 615 is very similar to the adult but the upper parts and gorget are duller and browner in tint. The first primary is soft and rounded and the tail feathers are softer and more pointed.—H. W.]

Unlike the Yellow-browed Bulbul this species is exclusively an inhabitant of more or less dry open bush-and-scrub country and avoids forest. It is not uncommon, but is confined to the low country in Travancore and Cochin with the only exception of Marāiyūr where it was present in the valley among scrub patches bordering the terraced paddy-fields and in the vicinity of the camp-shed. That it does not ascend the hills in this area of heavy rainfall as it does in the Eastern Ghats ('from sea-level to 4,000 ft.'—*J.B.N.H.S.*, xxxv, 759) is doubtless due to the fact that here the hills are either open and grass-covered or clothed in evergreen jungle and lacking in the dry bush-and-scrub country that forms its habitat.

In the Pālnis also Fairbank (*S.F.*, v, 405) found it common only at the east base of the hills.

In Ceylon this Bulbul is represented by the smaller race *P. l. insulae*.

Breeding: Specimen No. 947 (6 December) showed no genital development. No. 594 (15 April) with testes 6×5 mm. was evidently breeding. In No. 614 (18 April) the testes measured ca. 3×2 mm. and were apparently reverting to the normal non-breeding condition. It was accompanied by No. 615 (with very soft skull) in juvenile plumage and with the rectrices and remiges only partially grown. The birds at Arāmboli between 15 and 22 April were mostly accompanied by young in various stages from which it may be inferred that

the breeding season is March and April, possibly beginning earlier—in February —and continuing later as suggested by No. 848 which had an imperfectly ossified skull as late as 13 August.

Microtarsus poiocephalus (Jerdon). The Grey-headed Bulbul.

Specimens collected: 201 ♂ 3-2-33, 230 ♀ 7-2-33, 249 ♂ 9-2-33, 278 ♂ 12-2-33 Thattākād 200 ft.; 429 ♂ 9-3-33 Camp Derāmalāi 3,000 ft.; 476 ♂ 20-3-33 Rājampāra 1,350 ft.; 653 ♂ 24-4-33 Balamore Estate 2,000 ft.

Elsewhere noted at: Crūmbikera Res. Forest near Mūndakāyam (1,000 ft.), Tenmalāi (500 ft.), Kūriārkūtti (1,600 ft.), Wadakkāncheri (400 ft.).

I have seen specimens in the Trivandrum Museum from Kūttyāni (Sex ?, 25-5-95) and Ponmūdi (December 1890, and others).

Colours of bare parts: Iris grey; bill greenish-yellow; mouth pink with brownish patches or yellow and pink, perhaps varying according to age (or season ?); legs and feet pale dusky orange-yellow; claws paler.

[The Survey specimens measure:

	Bill.	Wing.	Tail.
6 ♂♂	14.5-17.5	75.5-78.5	70.5-77 mm.
1 ♀	16	75.5	73 mm.

The juvenile of this species appears to be quite unknown and no hint of the plumage stages is afforded by this fine series all of which are in full plumage with no moult other than odd body feathers.—H. W.]

The Grey-headed Bulbul is one of the species confined to the heavy rainfall area of South-West India, the other members of the genus being dwellers of parallel biotope in the Indian Empire and beyond its eastern borders.

Ferguson mentions that in Travancore he found this bird only on the hills at about 2,000 ft. altitude, but that he shot one at Kūttyāni, an exceptional locality in the low country where the old forest was still standing. This is undoubtedly the specimen now in the Trivandrum Museum. Mr. Pillai who visited Kūttyāni in August 1933 reports that most of the forest has now been cleared and he apparently did not come across this species there. Ferguson's experience shows how very closely knit this form is with evergreen forest, a fact which my experience in Travancore-Cochin fully confirms. The biotope it frequents is very similar to that of *P. gularis* but it usually prefers even more humid facies with denser gowth and often a good deal of rattan (*Calamus*) intermixed.

The only notes I heard this Bulbul utter were a single harsh *chaik, chaik*, frequently followed by a squeaky *cheek* or *pink* (the latter somewhat reminiscent of a finch or *Dendronanthus*—) repeated every second or so. The birds were seen both in pairs and gregariously feeding largely on several kinds of Ficus figs in company with *Iole, Thereiceryx* and other frugivorous species. When dead and in the hand, the bird bears a curious resemblance to a miniature green pigeon! This species is absent in Ceylon.

Breeding: In No. 201 (3 February) the testes measured 3×2 mm. and the bird appeared to be preparing to breed; 230 (7 February) likewise had a distinctly granulated ovary; in both 249 (9 February) and 278 (12 February) the organs were as in 201. Nos. 429 (9 March—testes 4×3 mm.), 476 (20 March —testis (only one !) 6×4 mm.) and 653 (24 April—testis (again only one !) 5×4 mm.), were also ready to breed if not doing so at the time. Indeed in the last there was an incubation patch to justify this presumption. All the specimens were in fresh plumage.

The *Fauna* (i, 426) as well as *Nidification* (vol. i, p. 407) give a description of nests and eggs, invariably c/1, obtained in Travancore by Stewart and Bourdillon. According to the former the breeding season is April and May.

(To be continued).

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Elsewhere noted at: Crumbikera Res. Forest near Mundakāyam (1,000 ft.), Tenmalāi (500 ft.), Kuriārkutti (1,600 ft.), Wadakkāncheri (400 ft.).

I have seen specimens in the Trivandrum Museum from Kuttyāni (Sex ?, 25-5-95) and Ponmudi (December 1890, and others).

Colours of bare parts: Iris grey; bill greenish-yellow; mouth pink with brownish patches or yellow and pink, perhaps varying according to age (or season ?); legs and feet pale dusky orange-yellow; claws paler.

[The Survey specimens measure:

	Bill.	Wing.	Tail.
6 ♂♂	14.5-17.5	75.5-78.5	70.5-77 mm.
1 ♀	16	75.5	73 mm.

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The *Fauna* (i, 426) as well as *Nidification* (vol. i, p. 407) give a description of nests and eggs, invariably c/1, obtained in Travancore by Stewart and Bourdillon. According to the former the breeding season is April and May.

(To be continued).

ROXBURGH'S KYDIA.
Kydia calycina Roxb.
(about 2/3 nat. size).

SOME BEAUTIFUL INDIAN TREES.

BY

THE LATE E. BLATTER, S.J., PH.D., F.L.S.,
and W. S. MILLARD, F.Z.S.

PART XVIII.

(*With one coloured plate and two text-figures*).

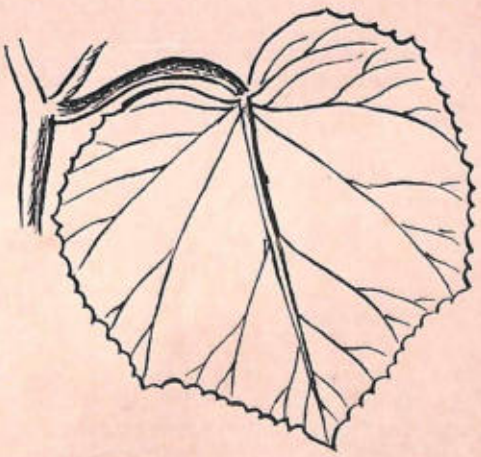
(*Continued from page 750 of volume* XXXVII).

PLATE XXVI.—ROXBURGH'S KYDIA.

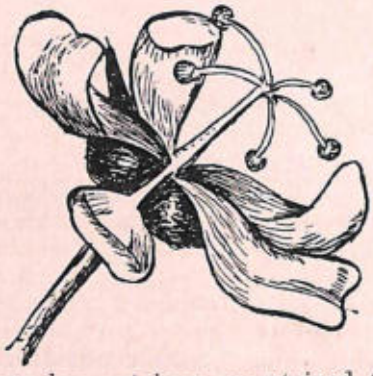
Popular Names: Pula, Puli, Patha (Hind.); Bargah, Baranga (C.P.); Kopasia (Uriya); Warung, Iliya (Mar.); Bellaka, Bendi (Kan.); Potri, Kandiki (Tel.); Tabo, Dwalok, Myethlwa (Burm.).

Kydia calycina Roxb. Hort. Beng. (1814), p. 51. Belongs to the family *Malvaceae*. The genus is named after Colonel Robert Kyd, founder and first Director of the Royal Botanic Gardens, Calcutta, who died in 1794. The specific name is with reference to the prominent calyx.

Description: A large shrub or small tree. Leaves 3-6 in. long, fanwisely 7-nerved, heart-shaped at the base, usually 3-7 lobed; lobes often angular, the median one the largest, smooth above, densely close haired beneath; leaf-stalk 1-2 in. long. Panicles many flowered, covered with tawny short hairs, flower-stalk $\frac{3}{8}$ in. long. Below the calyx there is a series of 4-6 strongly nerved involucral bracts which enlarge and persist in fruit, $\frac{1}{4}$-$\frac{3}{8}$ in. long. Corolla white or pink, petals reversedly heart-shaped, longer than the calyx, prolonged into a claw at the base with a tuft of hairs on either side. The filaments are united to form a staminal tube for a little more than half their length then dividing into 5 spreading branches, each carrying 3 almost stalkless anthers. Style branches 3, each surmounted by a large disc-like stigma. Fruit 3-valved, about the size of a pea, covered with mealy dust, rounded with a slightly umbrella-shaped top. Seeds kidney-shaped, striated, brown-black.



Distribution: Common throughout India and Burma chiefly in mixed and deciduous forests not in arid regions.



Gardening: Propagated from seed. The seeds possess a comparatively low germinating power but this is compensated by the large number produced. The seeds should be sown in seed beds, and the seedlings transplanted when they are 2-3 in. high. The rate of growth is rapid and it has been estimated that the tree reaches its maximum growth at a comparatively early age, though the exact age has not been ascertained (Troup).

The leaves commence to fall at the end of November and the plant is leafless from January or early February to late April. The flowers appear in September-October, and the masses of greenish white or pale lilac blossoms make the tree a conspicuous sight at this season (Troup).

Uses: The inner bark yields a bast fibre used for coarse ropes etc. The fibre has a high resisting power to decomposition by moisture.

(To be continued).

A LIST OF THE BIRDS OF THE CENTRAL PROVINCES.

BY

E. A. D'ABREU, F.Z.S.

(*Curator, Central Museum, Nagpur*).

The following is a brief list of the birds of the Central Provinces which I have collected, observed, or I am otherwise aware of during a residence of over twenty years. Species which are probably to be found but which I have not yet observed or identified with certainty are enclosed in brackets. Every part of the Provinces has not been visited by me and most of the observations have been made at Nagpur, or in the districts during the winter months. In 1923 I published a list of the Central Provinces Birds in Record No. III of the Nagpur Museum. This list is now out of date as many alterations and additions have become necessary.

ORDER: PASSERES.

1. [**Corvus corax laurencei** (Hume). The Punjab Raven.
A rare straggler in Berar.]

2. **Corvus macrorhynchos culminatus** Sykes. The Indian Jungle-Crow.
Resident, breeds February to April.

3. **Corvus splendens splendens** (Vieill.). The Indian House-Crow.
Resident. Breeds in June and July. An albino was secured at Kodamendhi, Nagpur District, by Mr. P. G. H. Stent, I.C.S.

4. **Dendrocitta v. vagabunda** (Lath.). The Bengal Tree-Pie.
Resident. It is probably a local migrant; at Nagpur, they are not seen till September and they disappear again when the weather gets warm.

5. [**Dendrocitta leucogastra** (Gould). The Southern Tree-Pie.
McMaster records a specimen from Chikalda.]

6. **Parus major mahrattarum** Hartert. The Southern Grey-Tit.
Resident in elevated and well-wooded parts of the Provinces. Not as common as the next species.

7. **Machlolophus xanthogenys aplonotus** (Blyth). The Central India Yellow-cheeked Tit.
Resident and common in well-wooded tracts.

8. **Sitta castanea castanea** Less. The Chestnut-bellied Nuthatch.
Breeds April to May (Pachmarhi).

9. **Sitta castanea prateri** Whist. Prater's Nuthatch.
A specimen obtained at Damarincha, Ahiri State.

10. **Sitta frontalis frontalis** (Horsf.). The Velvet-fronted Blue Nuthatch.
Has been observed at Saugor and Betul.

11. **Turdoides terricolor terricolor** (Hodg.). The Bengal Jungle Babbler.
A very common resident. Breeds chiefly from June to July.

12. **Turdoides striatus polioplocamus** Ob. The White-headed Babbler.
Resident in South Chanda.

13. **Argya caudata caudata** (Dum.). The Common Babbler.
A common resident.

14. **Argya malcolmi** (Sykes). The Large Grey Babbler.
A common resident.

15. **Pomatorhinus horsfieldi obscurus** (Hume). Hume's Scimitar-Babbler.
Most probably a resident in the Satpura Plateau; specimens recorded from Seoni, Dhupgarh near Pachmarhi (Osmaston) and Balaghat (Baihar Tahsil). Whether the birds seen by me in the Balaghat District were this or the subspecies *P. n. horsfieldi*, the Deccan Scimitar-Babbler, I am unable to tell, as the birds were not secured.

16. **Dumetia hyperythra** (Franklin). The Rufous-bellied Babbler.
A common resident throughout the well-wooded parts. Breeds late, June to September.

17. **Chrysomma sinensis sinensis** (Gm.). The Indian Yellow-eyed Babbler.
Resident throughout the Provinces. Breeds June to September. Clutches, even from the same locality, appear to belong to two distinct types. In one the eggs are smaller and speckled with red resembling eggs of *D. hyperythra;* in the other the eggs are larger and heavily blotched and streaked with red.

18. **Pellorneum ruficeps ruficeps** (Swain). The Indian Spotted Babbler.
Fairly common at Pachmarhi where it breeds May to June (Osmaston).

19. **Mixornis gularis rubricapilla** (Tick.). The Yellow-breasted Babbler.
Three specimens of this bird were obtained by me at Parasgaon in the Bastar State.

20. **Alcippe poioicephala brucei** (Hume). The Bombay Quaker-Babbler.
I obtained a specimen in the Bastar State and found it common in the Baihar Tahsil of the Balaghat District. It is not uncommon at Pachmarhi where it breeds early in July.

21. **Aegithina tiphia humei** S. B. The Central Indian Iora.
A common resident. Breeds June to July.

22. [**Aegithina nigrolutea** (Marsh.). Marshall's Iora.
Occasionally found in the Northern parts of the Provinces.]

23. **Chloropsis aurifrons davidsoni** (Bak.). The Malabar Chloropsis.
Mr. Master records this species from Chikalda in Berar and I found it on the banks of the Indravati in the Ahiri State.

24. **Chloropsis jerdoni** (Blyth). Jerdon's Chloropsis.
Resident throughout the Provinces. Breeds June to July.

25. [**Hypsipetes psaroides ganeesa** (Sykes). The Southern Indian Black Bulbul.
McMaster procured this bird at Chikalda on the Gawilgarh hills in Berar.]

26. **Molpastes cafer cafer** Linn. The Madras Red-vented Bulbul.
Common resident. Breeds May to August.
The Bulbuls of the Jubbulpore District are intermediate between the Central Indian Bulbul (*M. c. pallidus*) and the Bengal Bulbul (*M. c. benghalensis*). They are larger birds with a wing measurement of about 100 mm. The Bulbuls from the south-eastern parts of the Provinces will probably turn out to be *M. c. saturatus*, K. & W. but specimens have not yet been examined.

27. [**Molpastes leucogenys leucotis** (Gould). The White-eared Bulbul.
Found north of the Nerbudda extending east to Hoshangabad and Saugor. I have not observed this bird personally.]

28. **Otocompsa jocosa emeria** (Linn.). The Bengal Red-whiskered Bulbul.
I secured one of a pair at Nagpur on the 7th April 1932.

29. **Otocompsa jocosa fuscicaudata** (Gould). The Southern Red-whiskered Bulbul.
This Bulbul is found in the Melghat and I have observed it in the Balaghat and Chhindwara Districts and also at Pachmarhi, where it breeds from April to July but the birds from the three latter localities have not been examined.

30. **Otocompsa flaviventris flaviventris** (Tick.). The Black-crested Yellow Bulbul.
Resident at Pachmarhi, where it breeds in June.

31. **Pycnonotus luteolus** (Less.). The White-browed Bulbul.
Resident at Nagpur and Kamptee, but not plentiful. Breeds in June. This bird shuns observation though its call is familiar.

32. **Salpornis spilonotus** (Frankl.). The Spotted Grey Tree-Creeper.
A rare resident. I got a specimen at Nagpur, another in the Chanda forests, and a third in the Betul District.

33. **Saxicola caprata bicolor** (Sykes). The Northern India Pied Bush-Chat.
A winter visitor to the Provinces.

34. **Saxicola caprata burmanica** S. B. Indo-Burmese Pied Bush-Chat.
Resident. Breeds in April and May.

35. **Saxicola torquata indica** (Blyth). The Indian Bush-Chat.
A common winter visitor.

36. [**Œnanthe opistholeuca** (Strick.). Strickland's Chat.
A winter visitor as far south as Nagpur according to Oates.]

37. **Cercomela fusca** (Blyth). The Brown Rock-Chat.
Resident in the Jubbulpore, Saugor, Damoh and Hoshangabad Districts, but probably has a wider range. Breeds March to July in holes of walls, quarries, cliffs, etc.

38. **Phoenicurus ochrurus phoenicuroides** (Vieill.). The Black Redstart.
A common winter visitor. It appears at Nagpur on or about the 23rd September.

39. **Cyanosylvia suecica** (L.). The Blue-throat.
A common winter visitor.

40. **Calliope calliope** (Pall.). The Common Ruby-throat.
A rare winter visitor. A specimen was secured at Lamta in the Balaghat District.

41. **Saxicoloides fulicata cambaiensis** (Lath.). The Brown-backed Indian Robin.
A common resident north of the Taptee River.

42. **Saxicoloides fulicata intermedia** Whistler and Kinnear.
Resident south of the Taptee River.

43. **Copsychus saularis saularis** (Linn.). The Indian Magpie-Robin.
A very common resident. Breeds May to July.

44. **Kittacincla malabarica malabarica** Scop. The Shama.
Has been recorded from Raipur.

45. **Turdus simillimus mahrattensis** Whist. The Black-capped Black-bird.
Rare, but may possibly breed in the Provinces. It has been recorded at Chikalda and I got specimens at Khawasa in the Seoni District and one at Nagpur.

46. [**Turdus unicolor** Tick. Tickell's Thrush.
A winter visitor, has been taken at Raipur.]

47. **Geokichla citrina citrina** (Lath.). The Orange-headed Ground-Thrush.
Probably found sparingly in the Provinces during the winter only. There is a specimen from Raipur in the British Museum.

48. **Geokichla citrina cyanotis** (Jard. & Sel.). The White-throated Ground Thrush.
Resident in the well-wooded tracts. Breeds June to July.

49. **Monticola cinclorhyncha** (Vig.). The Blue-headed Rock Thrush.
A winter visitor, a few specimens have been obtained at Nagpur.

50. **Monticola solitaria pandoo** Sykes. The Blue Rock-Thrush.
A winter visitor to the whole of the Provinces.

51. **Myiophonus horsfieldi** (Vigors). The Malabar Whistling-Thrush.
Resident in parts of the Provinces; very common at Pachmarhi and the Melghat and also recorded in the Sirguja State. Breeds June to July, placing its nest in crevices in more or less vertical rocks in ravines.

52. **Siphia parva parva** (Bechst.). The European Red-breasted Flycatcher.
A common winter visitor.

53. **Muscicapula superciliaris superciliaris** (Jerd.). The White-browed Blue Flycatcher.
A winter visitor has been taken in the Nagpur, Chanda, Balaghat and Chhindwara Districts.

54. **Muscicapula tickelliae tickelliae** (Blyth). Tickell's Blue Flycatcher.
A common resident. Breeds in May and June.

55. **Eumyias thalassina thalassina** (Swain). The Verditer Flycatcher.
A winter visitor.

56. **Alseonax latirostris** (Raff.). The Brown Flycatcher.
Resident.

56A. **Alseonax ruficaudatus.** Rufous-tailed Flycatcher.
A specimen secured by me at Nagpur on 30th October 1934.

57. **Calicicapa c. ceylonensis** (Swain). The Grey-headed Flycatcher.
Common in winter. Recorded breeding at Pachmarhi in June and July.

58. **Tchitrea paradisi paradisi** (L.). The Indian Paradise Flycatcher.
Resident. Breeds June to July.

59. **Hypothymis azurea styani** Hartl. The Indian Black-naped Flycatcher.
Resident, but keeps to well-wooded tracts. Breeds June to August.

60. **Leucocera aureola aureola** (Less.). The White-browed Flycatcher.
This race has been taken in the winter only at Nagpur and may be the resident bird in the north of the Province. It sometimes attends cattle, snapping up the insects disturbed by the animals.

(a) **Leucocerca aureola compressirostris** Blyth. The Southern White-browed Fantail Flycatcher.
This is the breeding bird at Nagpur.

61. **Leucocerca pectoralis** (Jerd.). The White-spotted Fantail Flycatcher.
Resident probably throughout the Provinces. Very common in the Districts of Nagpur, Balaghat and Chanda. Breeds March to July.

62. **Lanius excubitor lahtora** (Sykes). The Indian Grey Shrike.
Resident. Breeds March to May.

63. **Lanius vittatus** (Val.). The Bay-backed Shrike.
One of the commonest shrikes in the Provinces. Breeds June to July.

64. **Lanius nasutus nigriceps** (Frank.). The Southern Black-headed Shrike.
No records of its breeding in the Province, but birds have been secured in the winter months from Bastar, Bilaspur and Nagpur.

65. **Lanius schach erythronotus** (Vig.). The Rufous-backed Shrike.
A winter visitor recorded as far south as Parasgaon in the Bastar State. Has been taken at Nagpur on 18th April 1920. They breed in the northern districts.

66. **Lanius schach caniceps** Blyth. Southern Grey-backed Shrike.
Resident. Breeds chiefly in June.

67. **Lanius schach tephronotus** Vig. The Central Himalayan Grey-backed Shrike.
A straggler into the Provinces in winter. I took a specimen at Ahiri in the Chanda District.

68. **Lanius cristatus cristatus** (L.). The Brown Shrike.
A winter visitor throughout the Provinces. Arriving at Nagpur on September 4th and staying till April 30th.

69. **Hemipus picatus picatus** (Sykes). The Black-backed Pied-Shrike.
Resident in the Satpura Plateau Districts according to Moss-King.

70. **Tephrodornis p. pondicerianus** (Gmel.). The Common Wood-Shrike.
Resident and common throughout the Provinces.

71. **Pericrocotus speciosus semiruber** Whist. The Southern Scarlet Minivet.
Not common. I have observed it in the districts of Balaghat, Chhindwara, Betul and the Bastar State. It has also been observed at Pachmarhi. Keeps to well-wooded localities. A party when disturbed were noticed making for trees with red leaves.

72. [**Pericrocotus brevirostris brevirostris** Vig. The Indian Short-billed Minivet.
A rare winter visitor.]

73. **Pericrocotus roseus roseus** (Vieill.). The Rosy Minivet.
Three specimens were obtained at Nagpur.

74. **Pericrocotus peregrinus perigrinus** (L.). The Small Minivet.
A common resident. Breeds February to July.

75. **Pericrocotus erythropygius** (Jerd.). The White-bellied Minivet.
Resident, but not common. Breeds in July and August.

76. **Lalage melanoschista melanoschista** (Hodg.). The Dark-grey Cuckoo-Shrike.
I have taken this bird in the Bastar State only.

77. **Lalage sykesi** (Strick.). The Black-headed Cuckoo-Shrike.
Resident. Breeds May to July.

78. **Graucalus javensis maceii** (Less.). The Large Cuckoo-Shrike.
A common resident. Breeds April to June.

79. **Dicrurus macrocercus peninsularis** Ticehurst. The Southern Black Drongo.
Common resident. Breeding May to July. Both the spotted and unspotted varieties of eggs have been observed.

80. **Dicrurus leucophaeus longicaudatus** (Hay). The Indian Ashy Drongo.
Taken at Nagpur from February to April.

81. **Dicrurus c. caerulescens** (Linn.). The White-bellied Drongo.
Resident, but probably a local migrant. Keeps to well-wooded localities and only seen at Nagpur during the cold months (date of arrival is 22nd September). Recorded breeding at Pachmarhi from March to April.

82. [**Chaptia aenea malayensis** (Hay). The Southern Bronzed Drongo.
Jerdon has recorded this bird from the Bastar State, but it has not again been observed by others.]

83. **Chibia hottentotta hottentotta** (L.). The Indian Hair-crested Drongo.
Probably resident, has been observed at Raipur and Balaghat and taken at Nagpur.

84. **Dissemurus paradiseus grandis** (Gould). The Assam Racket-tailed Drongo.
Resident, but keeping to well-wooded parts. Breeds chiefly in May and June.

85. **Dissemurus paradiseus malabaricus** Lath. The Malabar Large Racket-tailed Drongo.
This is the form found at Nagpur and the Bhandara Districts.

86. [**Locustella naevia straminea** (Severty). The Turkestan Grass-hopper Warbler.
Possibly a winter visitor, not observed by me.]

87. **Acrocephalus stentoreus brunnescens** (Jerd.). The Indian Great Reed-Warbler.
A common winter visitor, some birds having been observed on 23rd April at Nagpur. It may possibly breed in the Provinces.

88. **Acrocephalus dumetorum** (Blyth). Blyth's Reed-Warbler.
A common winter visitor, taken in Nagpur as early as 4th October.

89. [**Acrocephalus agricola agricola** (Jerd.). The Paddy-field Reed-Warbler.
A winter visitor.]

90. **Orthotomus sutorius guzurata** Lath. The Indian Tailor-bird.
A common resident. Clutches taken in June and July, but probably breeds both earlier and later.

91. **Cisticola exilis erythrocephala** Blyth. The Red-headed Fantail-Warbler.
Recorded from Saugor and a specimen was secured by me at Khapa in the Balaghat District.

92. **Cisticola juncidis cursitans** (Frankl.). The Streaked Fantail-Warbler.
Resident throughout the Provinces. Breeds August to October.

93. **Franklinia gracilis** (Frankl.). Franklin's Wren-Warbler.
Resident. Breeds during the rains.

94. **Franklinia buchanani** (Blyth). The Rufous-fronted Wren-Warbler.
A specimen was obtained in June at Nagpur and recorded breeding at Saugor.

95. **Megalurus palustris** (Horsf.). The Striated Marsh-Warbler.
Resident in parts of the Provinces, e.g., Hoshangabad and Seoni. Breeds in April.

96. **Chaetornis striatus** Jerd. The Bristled Grass-Warbler.
Resident. Has been recorded from Seoni, Saugor, Raipur and observed breeding at Kamptee in September.

97. **Hypolais rama rama** (Sykes). Sykes' Tree-Warbler.
A common winter visitor, arriving early in September.

98. **Hypolais rama scita** (Eversmann). The Booted Tree-Warbler.
A winter visitor.

99. **Sylvia hortensis jerdoni** Blyth. The Eastern Orphean-Warbler.
A winter visitor. Specimens have been observed or taken in Chanda, Nagpur and in the Melghat.

100. **Sylvia curruca affinis** (Blyth). The Indian Lesser White-throated Warbler.
Very common at Nagpur in the winter.

101. **Phylloscopus collybita tristis** (Blyth). The Brown Willow-Warbler.
A winter visitor. Has been taken at Chhindwara.

102. **Phylloscopus griseolus** Blyth. The Olivaceous Willow-Warbler.
A common winter visitor. It has been observed in the districts of Nagpur, Balaghat, Chanda, Bastar and also at Pachmarhi. It frequently creeps about branches and tree trunks after the fashion of a nuthatch.

103. **Phylloscopus inornatus humei** Brooks. Hume's Willow-Warbler.
A winter visitor. Has been obtained at Nagpur, Bhandara and Mandla.

104. [**Phylloscopus nitidus nitidus** (Blyth). The Green Willow-Warbler.
A winter visitor. Not yet secured.]

105. **Phylloscopus nitidus viridanus** (Blyth). The Greenish Willow-Warbler.
Very common throughout the winter.

106. **Phylloscopus magnirostris** (Blyth). The Large-billed Willow-Warbler.
A winter visitor. Has been taken at Nagpur.

107. [**Phylloscopus occipitalis occipitalis** (Blyth). The Large-crowned Willow-Warbler.
A winter visitor.]

108. [**Seicercus burkii** (Burton). The Black-browed Flycatcher-Warbler.
McMaster records this species from Kamptee and Chikalda.]

109. **Prinia socialis** (Sykes). The Ashy Wren-Warbler.
A common resident.

110. **Prinia sylvatica sylvatica** (Jerd.). The Jungle Wren-Warbler.
Resident. Breeds June to September.

111. **Prinia inornata inornata** (Sykes). The Indian Wren-Warbler.
A common resident. Breeds from August to October, if not throughout the rains.

112. [**Cephalopyrus flammiceps** (Burton). The Fire-capped Tit-Warbler.
A winter visitor, specimens have been taken at Raipur, Saugor and Nagpur.]

113. **Oriolus oriolus kundoo** (Sykes). The Indian Oriole.
A common resident. Breeds May to July.

114. **Oriolus xanthornus maderaspatanus** Franklin. The Indian Black-headed Oriole.
Resident, but more in evidence in well-wooded localities. Breeds May to July.

115. **Gracula religiosa intermedia** (Hay). The Indian Grackle.
Resident in the Bastar State. Breeds from March to May.

116. **Pastor roseus** (L.). The Rose-coloured Starling.
Visits the Provinces in large numbers in the cold weather.

117. **Sturnus vulgaris poltaratskii** (Finsch.). The Indian or Finsch's Starling.
A winter visitor to the Northern districts.

118. **Sturnia malabarica malabarica** (Gm.). The Grey-headed Myna.
Taken in the Bastar State and also observed at Nagpur.

119. **Temenuchus pagodarum** (Gm.). The Black-headed Myna.
A common resident. Breeds from May to August in holes in trees.

120. **Acridotheres t. tristis** (L.). The Common Myna.
Resident, and very common everywhere. Breeds April to July.

121. **Acridotheres ginginianus** (Lath.). The Bank Myna.
Resident in the Nerbudda Valley and in the eastern portions of the Provinces. I found it common in the Kanker State and it extends west to Ramtek and Kamptee. Breeds in June excavating a nest chamber in the vertical banks of rivers or in the sides of wells.

122. **Sturnopastor contra** (L.). The Pied Myna.
Resident throughout the Provinces, but more common to the east and probably absent in the west. Breeds May to July, constructing a massive nest on the branch of a tree.

123. **Ploceus philippinus** (L.). The Baya.
Resident in the open country.

124. [**Ploceus benghalensis** (L.). The Black-throated Weaver-Bird.
Probably resident in the Northern districts. Breeds in the rains.]

125. **Munia malacca** (L.). The Black-headed Munia.
Observed at Pachmarhi by Bates and observed breeding in the east of Bhandara District by F. R. Blewitt on the 19th July.

126. [**Munia atricapilla** (Vieill.). The Chestnut-bellied Munia.
May be resident in the Eastern districts. Breeding June to September in swampy localities.].

127. **Uroloncha striata striata** (L.). The White-backed Munia.
Resident. Very common in the Chanda District, extending north to Bhandara and Betul. Breeds probably throughout the year.

128. **Uroloncha malabarica** (L.). The White-throated Munia.
Common. Breeds February to October.

129. **Uroloncha punctulata lineoventer** Hodg. The Spotted Munia.
Resident. Breeds almost throughout the year.

130. **Stictospiza formosa** (Lath.). The Green Munia.
Resident, observed at Nagpur and at Bhanpuri, Bastar State.

131. **Amandava amandava** (L.). The Indian Red Munia.
Resident. Breeds probably twice in the year. Nests have been taken in September, October and December.

132. **Carpodacus erythrinus** (Pall.). The Common Rose-Finch.
A winter visitor.

133. **Gymnorhis xanthocollis xanthocollis** (Burton). The Yellow-throated Sparrow.
A common resident. Breeds from April to May in holes in trees.

134. **Passer domesticus indicus** J. & S. The Indian House-Sparrow.
This is the form which is resident at Nagpur.

135. **Emberiza stewarti** (Blyth). The White-capped Bunting.
A specimen was obtained at Nagpur in December.

136. **Emberiza buchanani** (Blyth). The Grey-necked Bunting.
A winter visitor.

137 **Emberiza melanocephala** (Scop). The Black-headed Bunting.
A winter visitor.

138. **Emberiza icterica** Evers. The Red-headed Bunting.
A common winter visitor.

139. **Melophus lathami subcristata** (Sykes). The Crested Bunting.
Resident. Breeds April to August, making a saucer-like nest of grass on the ground or in holes of banks and walls.

140. **Delichon urbica cashmeriensis** (Gould). The Kashmir Martin.
A solitary specimen was obtained by Blanford at Bilaspur in April.

141. **Riparia paludicola brevicaudata** Horsf. The Indian Sand-Martin.
Resident. Keeping to the banks of the larger streams. Breeds November to February in the sandy banks of rivers, constructing a scanty nest at the end of a narrow tunnel about three feet in length.

142. **Krimnochelidon concolor** (Sykes). The Dusky Crag-Martin.
Resident.

143. **Hirundo rustica rustica** (L.). The Common Swallow.
A winter visitor.

144. **Hirundo smithii filifera** Stephens. The Wire-tailed Swallow.
Breeds probably throughout the year.

145. **Hirundo fluvicola** (Jerd.). The Indian Cliff-Swallow.
Resident.

146. **Hirundo daurica nepalensis** (Hodg.). Hodgson's Striated Swallow.
A winter visitor.

147. **Hirundo daurica erythropygia** (Sykes). Sykes' Striated Swallow.
Resident.

148. **Motacilla alba dukhunensis** (Sykes). The Indian White Wagtail.
A common winter visitor.

149. **Motacilla alba personata** (Gould). The Masked Wagtail.
A winter visitor.

150. **Motacilla maderaspatensis** (Gmel.). The Large Pied Wagtail.
Resident.

151. **Motacilla cinerea caspica** Gm. The Eastern Grey Wagtail.
A winter visitor. Arrives at Nagpur on about 20th September.

152. **Motacilla flava thunbergi** (Billberg). The Grey-headed Wagtail.
A winter visitor.

153. **Motacilla flava beema** (Sykes). The Indian Blue-headed Wagtail.
A winter visitor.

154. **Motacilla feldegg feldegg** Mich. The Black-headed Wagtail.
A winter visitor taken at Nagpur.

155. **Motacilla citreola werae** Buturlin. The Yellow-headed Wagtail.
A winter visitor.

156. [**Dendronothus indicus** (Gmel.). The Forest Wagtail.
A rare winter visitor, not yet observed.]

157. **Anthus trivialis haringtoni** With. Witherby's Tree Pipit.
A winter visitor. I have definite records from Melghat and Pachmarhi.

158. **Anthus t. trivialis** L. The Indian Tree-Pipit
A common winter visitor.

159. [**Anthus leucophrys jerdoni** (Finsch.). The Brown Rock-Pipit.
A winter visitor.]

160. [**Anthus richardi richardi** (Vieill.). Richard's Pipit.
A specimen was obtained at Nagpur.]

161. [**Anthus richardi thermophilus,** Jerd. Blyth's Pipit.
A winter visitor.]

162. **Anthus rufulus** (Vieill.). The Indian Pipit.
A common resident.

163. **Anthus campestris griseus** (Blasius). The Eastern Tawny Pipit.
A winter visitor. Taken at Nagpur, Jubbulpore and the Kankar State.

164. **Alauda gulgula gulgula** (Frank.). The Small Indian Sky Lark.
Resident.

165. **Calandrella brachydactyla dukhunensis** (Sykes). The Rufous Short-toed Lark.
A winter visitor. Found in large flocks. These larks are the so-called Ortolans.

166. **Alaudula raytal raytal** (Blyth). The Ganges Sand-Lark.
Resident. Has been observed breeding in the Saugor and Damoh Districts and in the Nerbudda and Kanhan beds in May.

167. **Mirafra javanica cantillans** (Jerd.). The Singing Bush Lark.
Resident. Breeds in April and again from August to September.

168. [**Mirafra assamica assamica** (McC.). The Bengal Bush-Lark.
Recorded by Murray as resident in the Eastern parts of the Central Provinces.]

169. **Mirafra erythroptera** (Jerd.). The Red-winged Bush-Lark.
Breeds in April and again from July to September.

170. **Galerita cristata chendoola** (Frank.). The Crested Lark.
Resident in the Northern districts where it breeds from April to May.

171. **Galerita deva** (Sykes). Sykes' Crested Lark.
Resident. Breeds May to June.

172. **Ammomanes phoenicura phoenicura** (Frank.). The Rufous-tailed Finch-Lark.
Resident.

173. **Eremopterix grisea** (Scop). The Ashy-crowned Finch-Lark.
Resident. Breeds December to May and again in August and September.

174. **Zosterops palpebrosa occidentis** Ticeh. The North-western White-eye.
Resident.

175. **Aethopyga siparaja seheriae** (Tick.). The Himalayan Yellow-backed Sun-bird.
I shot a male of this species at Lougher in the Balaghat District on the 1st April at an altitude of about 2,000 ft.

176. **Cinnyris asiatica asiatica** (Lath.). The Purple Sun-bird.
A common resident.

177. **Cinnyris zeylonicus** (L.). The Purple-rumped Sun-bird.
A common resident in the eastern parts of the Provinces, Raipur, Bastar, etc., extending west to the Bhandara District, and even to Nagpur where it is scarce.

178. [**Dicaeum concolor subflavum** S. B. The Belgaum Flower-picker.
May be found in the western parts of the Central Provinces.]

179. **Dicaeum e. erythrhynchos** (Lath.). Tickell's Flower-pecker.
Resident.

180. **Piprisoma agile agile** Tick. The Thick-billed Flower-pecker.
Resident. Breeds February to May.

181. **Pitta brachyura** (Linn.). The Indian Pitta.
Resident. Breeds in June and July, constructing a huge globular nest of twigs and leaves on the ground or on low branches.

Order: Coraciformes.

182. **Picus xan thopygius.** Gray. The Little Scaly-bellied Green Wood-pecker.
Found sparingly in the Bastar State and in the Balaghat District. It is probably resident.

183. **Dryobates m. mahrattensis** (Lath.). The Yellow-fronted Pied Wood-pecker.
A common resident. Breeds February to April.

184. **Dryobates h. hardwickii** (Jerdon). The Southern Pigmy Wood-pecker.
Resident. Common in well-wooded parts. Breeds March to April.

185. **Micropternus brachyurus phaioceps** Blyth. The Orissa Rufous Wood-pecker.
I saw and took specimens of this bird at Khapa in the Balaghat District. Breeds in April and May, constructing its nest within the nest of the black tree ant (*Plagiolepis*).

186. **Brachypternus benghalensis benghalensis** (L.). The Northern Golden-backed Wood-pecker.
A common resident. Breeds January to March. This is the race found at Nagpur and Betul.

187. **Brachypternus benghalensis puncticollis.** Malherbe's Southern Golden-backed Wood-pecker.
This form has been taken in the Chanda and Bhandara Districts, intermediates between the two forms also occur in the latter district.

188. **Chrysocolaptes festivus** (Bodd.). The Black-backed Wood-pecker.
I have taken this bird at Charama in the Kanker State, at Tamia in the Chhindwara District and in the Betul District. It is probably a resident breeding during the cold months and laying a single white egg in a hole in a tree as usual.

189. [**Hemicercus canente cordatus** Jerd. The Heart-spotted Wood-pecker.
Jerdon reported the occurrence of this bird in the Chanda forests, but it has not been observed by anybody since.]

190. **Iynx torquilla** L. The Wryneck.
A winter visitor.

191. **Thereiceryx zeylanicus caniceps** (Frank.). The Northern Green Barbet.
Common in well-wooded localities. Breeds April to May.

192. **Xantholaema haemacephala indica** Lath. The Indian Crimson-breasted Barbet.
Common. Breeds from January to April, earlier in the south.

193. **Cuculus canorus telephonus** (Heine). The Asiatic Cuckoo.
I have regularly observed and heard cuckoos in the Nagpur, Bhandara, Bilaspur and Chanda Districts from April to June the earliest date being the 27th April.

194. **Cuculus poliocephalus poliocephalus** (Lath.). The Small Cuckoo.
A single female specimen was taken at Nagpur on 15th September 1913.

195. **Cuculus micropterus micropterus** (Gould). The Indian Cuckoo.
I have taken this bird at Nagpur in May, observed at Chanda (6th April) and at Beemalgondee, Chhindwara District (12th May).

196. [**Hierococcyx sparverioides** (Vig.). The Large Hawk-Cuckoo.
Has been recorded as a straggler at Raipur.]

197. **Hierococcyx varius** (Vahl.). The Common Hawk-Cuckoo or Brain-fever Bird.
A common resident, depositing its eggs in the nests of Babblers.

198. **Cacomantis merulinus passerinus** (Vahl.). The Indian Plaintive Cuckoo.
Resident. The eggs have been taken from the nests of Franklin's Wren Warbler. Two males of *C. m. querulus* were obtained by Hume at Raipur in 1871.

199. [**Penthoceryx sonneratii sonneratii** (Lath.). The Banded Bay Cuckoo.
A rare species, recorded from Raipur.]

200. **Clamator jacobinus pica** Hempr. & Ehr. The Pied Crested Cuckoo.
Arrives with the breaking of the monsoons and after depositing eggs in the nests of Babblers disappears before the cold weather sets in.

201. **Eudynamis scolopaceus scolopaceus** (L.). The Indian Koel.
Lays from April to June from 1 to 3 eggs in the nests of crows and once in that of *Oriolus kundoo*.

202. **Rhopodytes viridirostris** (Jerd.). The Small Green-billed Malkoha.
Recorded from Sironcha.

203. **Taccocua leschenaulti sirkee** Gray. The Southern Sirkeer Cuckoo.
Resident.

204. **Centropus sinensis parroti** (Stres.). The Southern Crow-Pheasant.
Breeds June to August, making a huge globular nest of sticks, green leaves and grass in a thorny bush or tree.

205. **Psittacula eupatria nipalensis** (Hodg.). The Large Indian Paroquet.
Common in well-wooded localities. Breeds March to April in holes in trees.

206. **Psittacula krameri manillensis** Bechst. The Rose-ringed Paroquet.
Common. Breeds February to May. Some birds have the lower mandibles red.

207. **Psittacula cyanocephala cyanocephala** (L.). The Western Blossom-headed Paroquet.
Breeds February to May.

208. **Coracias benghalensis benghalensis** (L.). The Indian Roller.
Common. Breeds April to May, making use of a hole in a tree, or sometimes in an old wall or the roof of a house.

209. **Merops orientalis orientalis** (Lath.). The Common Indian Bee-Eater.
Common. Breeds April to May.

210. **Merops superciliosus javanicus** (Horsf.). The Blue-tailed Bee-Eater.
Resident, but not so common as the last species. Breeds in large colonies on river banks from April to May.

211. **Nyctiornis athertoni** (J. & S.). The Blue-bearded Bee-Eater.
Recorded at Pachmarhi by Osmaston.

212. **Ceryle rudis leucomelanura** (Reich.). The Indian Pied Kingfisher.
Breeds from February to May.

213. (**1035**) **Alcedo atthis taprobana** Klein. The Common Indian Kingfisher.
Breeds from February to June.

214. **Ramphalcyon capensis gurial** (Pearson). The Brown-headed Stork-billed Kingfisher.
Resident, but not common. Observed breeding in the Balaghat District in June and July.

215. **Halcyon smyrnensis fusca** (Bodd.). The Indian White-breasted Kingfisher.
Common resident. Breeds April to July.

216. **Hydrocissa coronatus** Bodd. The Malabar Pied Hornbill.
Found in the eastern parts of the Provinces; I have observed it in the districts of Raipur, Nagpur, Bilaspur, Seoni and the Bastar State.

217. **Tockus birostris** (Scop.). The Common Grey Hornbill.
A common resident.

218. **Tockus griseus** (Lath.). The Malabar Grey Hornbill.
The species is reported as occurring in the Nimar District and I have noticed Hornbills at Khandwa which were destitute of a casque.

219. **Upupa epops epops** (L.). The European Hoopoe.
A winter visitor. One secured at Lamta in the Balaghat.

220. **Upupa epops saturata** Lönn. The Tibetan Hoopoe.
Ticehurst has identified birds from Seoni and the Deccan as of this race.

221. **[Upupa epops orientalis** (S. B.). The Indian Hoopoe.
Probably resident in the northern districts. Breeds from February to May in a hole in a tree, wall or bank.]

222. **Upupa epops ceylonensis** Reich. The Ceylon Hoopoe.
Birds from Seoni and Nagpur appear to be of this race.

223. **[Micropus melba melba** (L.). The Alpine Swift.
Recorded from Gwalgarh (McMaster).]

224. **Micropus affinis affinis** (Gray). The Common Indian Swift.
Common resident.

225. **Tachornis batassiensis palmarum** (Gray). The Palm-Swift.
Breeds from February to April and again in July.

226. **[Indicapus sylvaticus** (Tick). The White-rumped Spine-tail.
A forest species extending west to the Wyneganga and to Seoni.

227. **Hemiprocne coronata** (Tick.). The Indian Crested Swift.
Resident, keeping to wooded tracts.

228. **Caprimulgus monticolus** (Frank.). Franklin's Nightjar.
The commonest Nightjar in the Provinces. Breeds in May and June.

229. **Caprimulgus asiaticus** (Lath.). The Common Indian Nightjar.
Common in open country, groves and low jungle. Breeds in April and May.

230. **Caprimulgus macrurus albonotus** (Tick.). The Indian Long-tailed Nightjar.
A forest species, breeding from March to May in densely-shaded ravines.

231. **Caprimulgus indicus indicus** (Lath.). The Jungle Nightjar.
Resident in well-wooded tracts.

232. **Tyto alba stertens** Hartert. The Indian Barn-Owl.
Resident. Breeds from September to January, laying from 3 to 6 white eggs in a hole in buildings or trees.

233. **Tyto longimembris** Jerdon. The Grass Owl.
Resident in the eastern districts (Balaghat, Raipur).

234. **Asio flammeus flammeus** (Ponto). The Short-eared Owl.
A winter visitor.

235. **Strix ocellata** (Less.). The Mottled Wood-Owl.
Breeds from December to February.

236. **Ketupa zeylonensis hardwickii** Gray. The Brown Fish-Owl.
Resident.

237. **Bubo bubo bengalensis** (Frank.). The Indian Great-horned Owl.
Breeds from December to April, laying 2 to 4 white eggs on a rocky ledge or in a cave, or on the ground under a brush or tuft of grass.

238. **Bubo coromandus** (Lath.). The Dusky-Horned Owl.
Occurs in the well-watered parts of Raipur where it probably breeds.

239. **Otus sunia sunia** (Hodg.). The North Indian Scops Owl.
A specimen taken at Nagpur on 2nd November.

240. **Scops bakkamoena marathi** Tice. The Collared Scops Owl.
Resident. Breeds from January to April.

241. **Athene brama indica** Frank. The Northern Indian Spotted Owlet.
Very common. Breeds February to April.

242. **Athene blewitti** (Hume). The Forest Spotted Owlet.
Found south of the Raipur District.

243. **Glaucidium radiatum radiatum** (Tick.). The Jungle Owlet.
A common resident in well-wooded localities. Breeds from March to May in holes in trees.

244. **Ninox scutulata lugubris** (Tick.). The Indian Brown Hawk-Owl.
Probably resident but not plentiful, has been taken both in open country and in forest at Nagpur and Chanda.

Order: Accipitres.

245. **Pandion haliaëtus haliaëtus** (Linn.). The Osprey.
A winter visitor.

246. **Aegypius monachus** (Linn.). The Cinereous Vulture.
A winter visitor to the Northern districts, has been observed in Jubbulpore, Saugor and Nimar.

247. **Sarcogyps calvus** (Scop.) The Black Vulture.
Resident. Breeds on trees from January to April.

248. **Gyps fulvus fulvescens** (Hume). The Indian Griffon Vulture.
Breeds on rocky cliffs in company with the next species and lays a single white egg. The latter have been taken in October and December.

249. **Gyps indicus indicus** (Scop.). The Indian Long-billed Vulture.
Common. Habits similar to above.

250. **Pseudogyps bengalaensis** (Gmel.). The Indian White-backed Vulture.
Resident. Breeds in October and November. The nest is an irregular platform placed on a tree.

251. **Neophron percnopterus ginginianus** (Lath.). The Smaller White Scavenger Vulture.
Very common resident. Breeds February to May, making a nest of sticks on a cliff, tree or building.

252. [**Aquila heliaca** (Sav.). The Imperial Eagle.
Probably a rare winter visitor.]

253. **Aquila nipalensis nipalensis** (Hodg.). The Eastern Steppe Eagle.
A winter visitor ranging south to Raipur and Nagpur where I have taken it.

254. **Aquila rapax vindhiana** (Frank.). The Indian Tawny Eagle.
A common resident. Breeds from November to June, building a nest of sticks on trees.

255. [**Aquila clanga** (Pall.). The Greater Spotted Eagle.
Probably resident, in the Northern districts. Breeds on trees from April to June and as far south as the Tapti.]

256. **Aquila hastata** (Less.). The Small Indian Spotted Eagle.
Resident in the Eastern districts. Has been observed breeding in Raipur and Bilaspur.

257. **Hieraëtus fasciatus fasciatus** Vieill. Bonellis Eagle.
Resident but not common. Breeds December to February.

258. **Hieraëtus pennatus** Gmel. The Indian Booted Eagle.
Specimens obtained at Hoshangabad and Nagpur.

259. **Butastur teesa** (Frank.). The White-eyed Buzzard.
A common resident. Breeds in April.

260. **Haliaëtus leucorypha** (Pall.). Pallas' Fishing Eagle.
Resident. Breeds in November.

261. [**Ichthyophaga ichthyaëtus** (Horsf.). The Large Grey-headed Fishing Eagle.
Resident. MacArthur took an egg at Ramtek on 20th November.]

262. **Ichthyophaga humilis plumbeus** (Jerd.). The Himalayan Fishing-Eagle.
Specimens of this Fishing Eagle have been taken by Mr. A. Donald in the Melghat.

263. **Haliastur indus indus** (Bodd.). The Brahminy Kite.
Resident. Breeds in February.

264. [**Ictinaetus malayensis perniger** (Hodg.). The Indian Black Eagle.
Jerdon is said to have seen this species in Central India (? Bastar) and MacArthur declares he took an egg probably of this species in April in the Bilaspur District.]

265. **Limnaëtops cirrhatus cirrhatus** (Gmel.). The Indian Hawk Eagle.
Resident. The nest is placed on a high tree, in which a single egg is laid at some time from January to April.

266. [**Limnaetops nepalensis nepalensis** (Hodg.). Hodgson's Hawk-Eagle.
Reported to have been found in winter as far south as Seoni and Pachmarhi, but these may just as well have been *L. n. kelaarti*, Legge's Hawk Eagle.]

267. **Circaëtus gallicus** (Gmel.). The Short-toed Eagle.
Resident. Breeds on trees (rarely on cliffs), and lays a single egg between January and May in a loosely constructed nest of sticks.

268. **Haematornis cheela minor** (Hume). The Indian Lesser Crested Serpent Eagle.
Breeds on trees from March to May.

269. **Milvus migrans govinda** (Sykes). The Common Pariah Kite.
Breeds from October to February.

270. **Milvus migrans lineatus** (Gray). The Black-eared Kite.
A winter visitor.

271. **Elanus caeruleus vociferus** (Lath.). The Black-winged Kite.
Breeds in December and January.

272. **Circus macrourus** (Gmel.). The Pale Harrier.
A common winter visitor.

273. **Circus pygargus** (Linn.). Montagu's Harrier.
A winter visitor.

274. [**Circus cyaneus** (Linn.). The Hen Harrier.
A straggler to the Provinces in winter.]

275. **Circus melanoleucus** (Forst.). The Pied Harrier.
A winter visitor to the Eastern districts. I have observed it at Paraswara in the Balaghat District, and at Nawegaon, Bhandara District.

276. **Circus aeruginosus aeruginosus** (L.). The Marsh Harrier.
A common winter visitor. I once observed one feeding on carrion and keeping at bay a crowd of vultures.

277. [**Buteo rufinus** (Cret.). The Long-legged Buzzard.
A rare winter visitor. Has been taken at Raipur.]

278. **Astur badius dussumieri** (Temm.). The Shikra.
Common resident. Breeds April to May.

279. **Astur trivirgatus indicus** Pearson. The Crested Goshawk.
A rare forest bird, probably resident. I have taken it at Nagpur and in the Balaghat District.

280. **Accipiter nisus nisosimilis** (Tick.). The Asiatic Sparrow-Hawk.
A winter visitor. Has been taken at Khatkali in the Melghat and at Nagpur.

281. **Pernis ptilorhynchus ruficollis** (Less.). The Indian Crested Honey-Buzzard.
Resident. Breeds April to July.

282. **Falco peregrinus calidus** (Lath.). The Eastern Peregrine Falcon.
Taken on the banks of the Nerbudda in winter.

283. **Falco peregrinus peregrinator** (Sund.). The Indian Peregrine or Shahin Falcon. Resident but not common. The nest is a mass of sticks, placed on a cliff.

284. [**Falco peregrinus babylonicus** (Gur.). The Red-capped or Barbary Falcon.
A rare winter visitor. A specimen has been taken at Raipur.]

285. **Falco jugger** (Gray). The Lagger Falcon.
Resident.

286. **Falco subbuteo subbuteo** (L.). The Hobby.
A winter visitor. I took a specimen at Nagpur, and it has been taken at Raipur.

287. **Falco chiquera chiquera** (Daud.). The Red-headed Merlin.
Resident. Breeds January to May, generally about February.

288. **Falco tinnunculus objurgatus** S.B. The Indian Kestrel.
The Kestrels have not yet been worked out for want of material, two races are probably winter visitors, and a third is resident. A clutch of three has been taken in the Saugor District on 30th September.

ORDER: COLUMBAE.

289. [**Crocopus phoenicopterus phoenicopterus** (Lath.). The Bengal Green Pigeon.
Recorded as occurring with the next species at Pachmarhi.]

290. **Crocopus phoenicopterus chlorogaster** (Blyth). The Southern Green Pigeon.
Resident.

291. **Sphenocercus sphenura** (Vig.). The Wedge-tailed Green Pigeon or Kokla.
Osmaston records this species as a very rare visitor to Pachmarhi in April.

292. **Muscadivora aenea sylvatica** (Tick.). The Northern Green Imperial Pigeon.
Occurs in the Bastar State, and Chanda with a wing measurement of 220 to 225 mm.

293. **Chalcophaps indica** (L.). The Emerald Dove.
Resident in forest country in the Balaghat District.

294. **Columba livia intermedia** (Strick.). The Indian Blue Rock-Pigeon.
Resident, but more plentiful in the wheat-growing areas; scarce in the cotton-growing tracts except near the vicinity of cliffs or old forts where large colonies usually establish themselves.

295. **Streptopelia orientalis ferrago** Evers. The Indian Turtle Dove.
A winter visitor.

296. **Streptopelia orientalis meena** (Sykes). The Indian Rufous Turtle Dove.
Resident. I have taken it in June at Nagpur and in January at Paraswara (Balaghat District).

297. **Streptopelia chinensis suratensis** (Gm.). The Spotted Dove.
Resident, partial to forest areas. Breeds almost throughout the year.

298. **Streptopelia senegalensis cambayensis** (Gm.). The Little Brown Dove.
Resident. Breeds almost throughout the year.

299. **Streptopelia decaocto decaocto** (Friv.). The Indian Ring-Dove.
Resident. Breeds throughout the year.

341. **Cursorius coromandelicus** (Gmel.). The Indian Courser.
Breeds from March to July.

342. **Rhinoptilus bitorquatus** (Jerd.). Jerdon's Courser.
A rare bird found at Sironcha.

343. **Glareola maldivarum** (Forst.). The Large Indian Swallow-Plover.
Resident. Breeds in May.

344. **Glareola lactea** (Temm.). The Small Indian Pratincole.
Breeds in company with Terns, on sandbanks in the larger rivers from March to May.

345. **Larus brunnicephalus** (Jerd.). The Brown-headed Gull.
A specimen was shot on the Telinkeri Tank, Nagpur, on 17th June.

346. **Larus argentatus cachinnans** Pallas. Yellow-legged Herring-Gull.
Taken on the Mahanaddy River at Chandrapur in November.

347. [**Chlidonias leucoparcia indica.** The Indian Whiskered Tern.
A winter visitor.]

348. **Chlidonias l. leucoptera.** White-winged Black Tern.
Has been taken at Raipur.

349. **Gelochelidon nilotica nilotica.** The Gull-billed Tern.
Observed on the Mahanaddy River.

350. **Sterna seena** (Sykes). The Indian River Tern.
Breeds gregariously in March, April or May in a depression on a sandbank.

351. **Sterna melanogaster** (Temm.). The Black-bellied Tern.
Nidification similar to that of *S. seena* and frequently breeding in company with it.

352. **Rhynchops albicollis** (Swains.). The Indian Skimmer.
Resident on the Nerbudda and Mahanaddy Rivers. Breeds from March to April after the fashion of other terns and in company with them.

353. [**Charadrius dubius curonicus** Gmel. The European Little Ringed Plover.
A winter visitor.]

354. **Charadrius dubius jerdoni** (Legge). Jerdon's Little Ringed-Plover.
Breeds from February to March, but probably later and earlier as well.

355. **Pluvialis dominicus fulvus** Gmel. The Eastern Golden Plover.
Taken on the Mahanaddy River, near Chandrapur.

356. **Hoplopterus duvaucelli** Lesson. The Spur-winged-Plover.
Observed in the Nerbudda and Indravati Rivers. Breeds from March to May.

357. **Lobivanellus indicus indicus** (Bodd.). The Indian Red-wattled Lapwing.
Breeds chiefly from April to June, laying 4 eggs in a small hollow.

358. **Lobipluvia malabarica** (Bodd.). The Yellow-wattled Lapwing.
Breeds from May to July.

359. **Himantopus himantopus himantopus** L. The Back-winged Stilt.

360. **Numenius arquata arquata** Lin. The Western Curlew.
All curlews which I have shot on the Mahanaddy River have proved to be of this race. They were generally in small flocks.

361. **Numenius arquata orientalis** Brehm. The Eastern Curlew.
A winter visitor. All birds shot on inland tanks in the Bhandara and Nagpur districts were of this race. They were either solitary or in small flocks of 4 or 5 birds.

362. **Limosa limosa limosa.** The Black-tailed Godwit.
A rare winter visitor, one shot on the Sonagaon tank 4 miles south of Nagpur. It was a solitary bird associating with one other wader.

363. [**Macroramphus semipalmatus** (Jerd.). The Snipe-billed Godwit.
A specimen is said to have been killed at Raipur by Capt. S. L. Wood (Asian 22 February 1894, page 377).]

364. **Tringa ochropus** (L.). The Green Sandpiper.
A very common winter visitor. It has been observed at Nagpur on the 14th September and some birds remain till June.

365. **Tringa stagnatilis** (Becks.). The Marsh Sandpiper.
A winter visitor to the Northern districts (Jubbulpore, Seoni, etc.).

366. **Tringa hypoleuca** (L.). The Common Sandpiper.
A winter visitor.

367. **Tringa glareola** (L.). The Wood Sandpiper.
Very common winter visitor.

368. **Tringa totanus** (L.). The Redshank.
Observed on the Mahanaddy River.

369. **Glottis nebularia** (Gunner). The Greenshank.
A winter visitor.

370. **Philomachus pugnax** (L.). The Ruff and Reeve.
A winter visitor, solitary individuals as well as large flocks have been seen.

371. **Erolia minuta** (Leister). The Little Stint.
A winter visitor, common on the Nerbudda.

372. **Erolia temminckii** (Leister). Temminck's Stint.
A winter visitor.

373. [**Erolia alpina alpina.** Lin. The Eastern Dunlin.
A straggler to the Province in winter.]

374. **Capella nemoricola** (Hodg.). The Wood Snipe.
Occurs on migration, has been taken at Mandla, Pachmarhi, Amarkantak, Balaghat and Serguja.

375. **Capella gallinago gallinago** (L.). The Common Fantail Snipe.
A winter visitor.

376. **Capella stenura** (Bonap.). The Pintail Snipe.
A winter visitor, more plentiful than the last species.

377. **Lymnocryptes minima** (Brunn.). The Jack Snipe.
A winter visitor.

Order: Steganopodes.

378. Pelicans have been observed in the Northern districts in the rains and also in the Eastern districts, but whether they are *P. onocrotalus* or *P. philippensis* or both, has not been ascertained.

379. **Phalacrocorax carbo sinensis** (S. & N.). The Indian Large Cormorant.
Resident, but not plentiful, nests on trees growing in water. An incomplete clutch of 2 eggs was taken on the 13th July in the Balaghat District.

380. [**Phalacrocorax fuscicollis** (Steph.). The Indian Shag.
A rare bird if it occurs at all.]

381. **Phalacrocorax niger** Vieill. The Little Cormorant.
Resident. Breeds in colonies in July.

382. **Anhinga melanogaster** (Penn.). The Indian Darter or Snake-bird.
Breeds in colonies, and generally in company with Cormorants and Herons, on trees in or near water.

Order: Herodiones.

383. **Platalea leucorodia major** (Temm.). The Indian Spoonbill.
Observed in the northern and eastern districts.

384. **Threskiornis melanocephalus** (Lath.). The White Ibis.
Resident. Breeds gregariously from June to August constructing a stick nest on a large tree.

385. **Pseudibis papillosus** (Temm.). The Indian Black Ibis.
Resident. Breeds at various seasons, March and April and again from August to December.

386. **Plegadis falcinellus falcinellus** The Glossy Ibis.
Taken on the Mahanaddy, the birds were in a very large flock.

387. **Dissoura episcopa episcopa** (Bodd.). The Indian White-necked Stork.
A common resident. Breeds from June to August.

388. **Xenorhynchus asiaticus asiaticus** (Lath.). The Black-necked Stork.
Resident, breeds from October to December.

389. **Leptoptilus javanicus** (Horsf.). The Smaller Adjutant.
Most probably resident.

390. **Pseudotantalus leucocephalus leucocephalus** (Penn.). The Painted Stork.
Breeds gregariously often on trees growing near villages and makes a small nest of sticks.

391. **Anastomus oscitans** (Bodd.). The Open-bill.
Breeds gregariously from April to July.

392. **Ardea purpurea manillensis** (Meyen.). The Eastern Purple Heron.
Breeds from April to August, making a huge stick nest in thickets or in dense clumps of bulrushes.

393. **Ardea cinerea rectirostris** Gould. The Eastern Grey Heron.
Resident.

394. [**Ardea goliath** Gret. The Giant Heron.
Casual, Blanford once saw them near Nagpur (Kuhi).]

395. **Egretta alba modesta** (Gray). The Eastern Large Egret.
All the Egrets are resident and breed gregariously in July on trees, making nests of sticks.

396. **Egretta intermedia intermedia** (Wagler). The Smaller Egret.

397. **Egretta garzetta garzetta** (Linn.). The Little Egret.

398. **Bubulcus ibis coromandus** (Bodd.). The Cattle Egret.
Breeds from June to August.

399. **Demiegretta asha** (Sykes). The Indian Reef-Heron.
A specimen was observed on the Telinkheri Tank, Nagpur, and another on the Mahanaddy.

400. **Ardeola gravii** (Sykes). The Indian Pond Heron.
Breeds in July and August, making a stick nest on a tree, several pairs often nesting in company.

401. **Butorides striatus javanicus** (Horsf.). The Indian Little Green Heron.
Breeds May to August.

402. **Nycticorax nycticorax nycticorax** (Linn.). The Night Heron.
Breeds July to September in company with Egrets and other Herons.

403. **Ixobrychus cinnamomeus** (Gmel.). The Chestnut Bittern.
Resident. Three eggs were taken from a nest placed amongst reeds in the Bhandara District in September. A specimen was also secured at Nagpur in April.

404. [**Dupetor flavicollis flavicollis** (Lath.). The Black Bittern.
Reported to be resident.]

405. **Botaurus stellaris stellaris** (Linn.). The Bittern.
A winter visitor.

ORDER: PHOENICOPTERI.

406. **Phoenicopterus ruber antiquorum** (Temm.). The Common Flamingo.
Flocks of flamingoes are now and then seen flying over or settling in the Nagpur tanks. On the 9th June 1912 a large flock was observed on the Ambajheri Tank and on the 27th June 1912 I obtained a specimen out of a flock on the Gorewara Tank.

407. **Phoeniconaias minor** (Geoffr.). The Lesser Flamingo.
A specimen was shot on the 9th June 1912, associating with a flock of the larger species. In the winter of the same year I also saw a quantity of these birds being hawked about for sale.

ORDER: ANSERES.

408. **Sarkidiornis melanotus** (Penn.). The Nukhta or Comb-Duck.
Resident. Breeds on trees, placing the nest in a hole in the stem or in a depression between the larger branches.

409. **Asarcornis scutulatus** (Muller). The White-winged Wood Duck.
A specimen is said to have been shot in the Bilaspur District by Mr. E. H. Young (*J.B.N.H.S.*, vol. xii, p. 572).

410. **Nettopus coromandelianus** (Gmel.). The Cotton Teal.
Breeds in July and August in holes in trees.

411. [**Anser anser** (Linn.). The Grey Lag Goose.
Winter visitor to the Nerbudda.]

412. **Anser indicus** (Lath.). The Bar-headed Goose.
A winter visitor, very common on the Nerbudda. A solitary individual was shot in a tank at Naghbir in the Chanda District.

413. **Dendrocygna javanica** (Horsf.). The Whistling Teal.
Resident; makes a nest of sticks in a tree, occupies an old nest of a crow or heron, or builds in grass or thorny shrub near water.

414. [**Dendrocygna fulva.** The Large Whistling Teal.
Oates in Humes' *Nests and Eggs* records a nest found at Saugor, taken from a large hollow in a tree.]

415. **Casarca ferruginea** (Pall.). The Ruddy Sheldrake or Brahminy Duck.
A winter visitor, keeping to the wider streams and rivers.

416. **Anas platyrhyncha platyrhyncha** (Linn.). The Mallard.
An occasional winter visitor to the northern district.

417. **Anas poecilorhyncha poecilorhyncha** (Fors.). The Indian Spotbill.
Resident, breeds July to September.

418. **Chaulelasmus streperus** (Linn.). The Gadwall.
A winter visitor.

419. [**Mareca penelope** (Linn.). The Widgeon.
Probably an irregular winter visitor.]

420. **Nettion creca creca** (Linn.). The Common Teal.
A winter visitor.

421. **Dafila acuta** (Linn.). The Pintail.
A winter visitor.

422. **Querquedula querquedula** (Linn.). The Garganey or Blue-winged Teal.
A winter visitor, staying with us till about the middle of April. It is one of the common ducks of the Provinces.

423. **Spatula clypeata** (Linn.). The Shoveller.
A winter visitor.

424. [**Marmaronetta angustirostris,** Mene. The Marbled Teal.
Occasionally wanders into the Provinces.]

425. **Netta rufina** (Pallas). The Red-crested Pochard.
A winter visitor.

426. **Nyroca ferina ferina** (Linn.). The Pochard or Dun-bird.
A winter visitor.

427. **Nyroca rufa rufa** (Linn.). The White-eyed Duck.
A winter visitor and perhaps the commonest Duck.

428. **Nyroca fuligula** (Linn.). The Tufted Duck.
A winter visitor.

429. **Merganser merganser orientalis** (Gould). The Eastern Goosander.
A winter visitor, has been shot at Arang on the Mahanaddy in the Raipur District. The Smew (*Mergus albellus*) is probably also found on the Nerbudda.

ORDER: PYGOPODES.

430. **Podiceps ruficollis capensis** Salo. The Indian Little Grebe or Dabchick.
A common resident. The breeding season is from July to September.

AN APPEAL FOR DUCKWEEDS.

The Duckweeds belong to a small order of surface floating plants, namely, the *Lemnaceae*. They are found in most ponds and lakes throughout India, Burma and Ceylon. The Duckweeds appear as masses of small oval or roundish leaves $\frac{1}{8} - \frac{1}{2}$ in. which give off a root or roots from the underside. Owing to the minuteness of the flowers considerable difficulty has been experienced in their classification. As I am investigating this group of plants, I should be much obliged if members and others who are in a position would send me specimens from their part of the country. Specimens are required from India, Burma and Ceylon. ***Preservation:*** All that need be done to preserve the specimens, is that ample material be collected, put in a bottle containing either spirit or 4 % formalin, together with a label in *pencil* giving the locality and date, and despatched to my address, given below.

Bombay Natural History Society,
6, Apollo Street,
Bombay.

C. McCANN,
Assistant Curator.

Strobilanthes Kunthianus T. And. in flower on a hillside in the Pulneys, 1934.

THE FLOWERING OF *STROBILANTHES* IN 1934.

BY

M. E. ROBINSON.

(*With eight plates*).

This paper makes no pretensions to be a scientific study of the interesting genus *Strobilanthes*, but is merely a short account of a few of the species that flowered on the hills of South India, during the year 1934.

The genus was exhaustively studied by Robert Wight and Col. Beddome, who did so much for Indian Botany during the latter half of the nineteenth century, and each described over twenty species, making illustrations of forty species in their *Icones Plantarum*. Gamble describes fortysix species in the Flora of the Madras Presidency, and Fyson has also given descriptions and illustrations of several of the more common species in his 'Flora of the Nilgiri and Pulney Hill tops'. As these works of reference may not be readily available to the general reader, a photograph and drawings are given here to illustrate the species mentioned.

The best known of the Strobilanthes is *Strobilanthes Kunthianus* which flowers in greater profusion than any other species; so much so indeed, as to earn for itself the name of the 'great blue flower of the Nilgiris', and to colour whole tracts of country with sheets of its delicate blue. But not every year. In fact only once in twelve years is this remarkable sight to be seen; and though in the intervening years occasional plants can be found here and there in flower, and in some years quite a number may be found, the full gregarious flowering, when whole hillsides are covered with the plants, every one bearing great bunches of mauve-blue flowers, takes place only at intervals of twelve years. The year 1934 has seen such a flowering. Its last appearance was in 1922, and before that in 1910. Records of its appearance in 1898 and 1886 have been made by various observers and Mr. Cockburn of Kotagiri, in the Nilgiris, has given me a remarkable record of its flowerings during a hundred years. His grandfather was one of the first European settlers on the Nilgiris in 1826, and his aunt first saw Strobilanthes in flower in 1838 when she was a child of nine; and saw and recorded Strobilanthes in full flower in 1850, 1862, 1874, 1886, 1898, 1910 and 1922.

This seems to establish the twelve year period fairly well, though other dates have been given for its appearance such as 1848, 1908, 1925, 1932, which suggest a more irregular period. Gamble indeed says 'probably about six years' and Fyson says 'irregular intervals from seven to twelve years'. Some specimens were sent me from the Nilgiris purporting to be of an 'eight

year variety' but these were *S. Kunthianus* exactly the same as the twelve year plant. From the information I have gathered and the above mentioned record, I should think it probable that a full flowering takes place only once in twelve years, with lesser outbursts of flowering in scattered areas at other times. The year 1934 has undoubtedly been a year of full flowering on all the hills. There were acres of blue flowers on the Pulney Hills from the beginning of July until December, when there were still isolated patches in the more sheltered valleys round Poombarai, though the open hillsides were covered with the dead and blackening bushes. On the Nilgiris it did not appear in full flower until August, and in October a hillside above Wellington was blue, and much could still be found round Pykara and Kotagiri. On the Anamalais it appeared only in October and covered the grass hills there with sheets of bloom.

The plant varies very much in size according to its habitat. On the open hills and grass lands it is short and close, being often only one to two feet high; whereas at the sides of the roads, and in the sholas it grows into strong bushes eight to ten feet in height. The flowers vary in colour also from a very pale lilac blue, almost white, to a deep purplish blue.

It is noted by all who have seen two or three flowerings, that at each successive period, the area over which it appears becomes less and less. Every year more land in these hills is taken up and cleared for tea estates, or for fruit and vegetable culture, or for building. Many a hillside that was once blue with Strobilanthes, is now green with the little flat topped tea bushes, and Strobilanthes is ruthlessly exterminated as a pest. It must have been a wonderful sight when first seen by a European, when there were no estates, and no habitations other than the scattered hill villages, and one can only regret the loss of so much beauty. It is easy to understand the awe and veneration with which the simple hill people would look upon this marvellous flower, appearing at such long intervals, and there are to this day old people among the Todas, Badagas and Kotas, who refer to the number of times they have seen 'the great blue flower' in chronicling the chief events of their lives.

One interesting result of the gregarious flowering of Strobilanthes is the large increase in the number of bees found in its vicinity during its flowering period. Each flower secretes honey in a small disc below the ovary, so that immense quantities of honey must be available, and two different kinds of honey bees visit the flowers. The large dark tipped rock bee (*Apis dorsata*) and the dark hill variety of the common Indian honey bee (*Apis indica*) are both visitors to Strobilanthes, and their curious hanging hives are very conspicuous. In 1922 as many as 28 were found hanging from one Eucalyptus tree near Kodaikanal, and 32 were counted on an overhanging rock; while 7 swarms took place on the verandah of a college building at Shembaganur.

This large production of honey tempts the hill bears to come in search of their favourite food, and round Kotagiri, in the Nilgiris, a considerably larger number of them were seen in 1934.

The honey is said to have a peculiar flavour when Strobilanthes is in flower, being rather more bitter than usual.

The genus *Strobilanthes* belongs to the natural order *Acanthaceae*. The chief characteristics of the genus are as follows:—

(1) A gamopetalous bell-shaped corolla which narrows gradually towards the base in some species, as *S. Kunthianus* while in some others the bell passes suddenly into a narrow tube as in *S. foliosus*.

(2) The inflorescence is a spike, the flowers being enclosed in overlapping bracts; the spike is elongated in some species as *S. Kunthianus* and *S. consanguineus*; in others short and close or capitate as in *S. foliosus* and *S. Wightianus*. The overlapping bracts are supposed to give the inflorescence somewhat the appearance of a pine cone from which the genus takes its name, *strobile* being the Greek word for pine cone.

(3) There are either two or four stamens, sometimes two fertile and two infertile.

(4) The long style ends in a bilobed stigma with unequal lobes.

(5) The superior ovary is seated on a honey secreting cushion or disc.

(6) The leaves are opposite, simple and usually dentate with conspicuous veins.

(7) Many of the species are very hairy, as *S. Wightianus; S. Perrottetianus* with red hairs; *S. urceolaris*, sticky with an aromatic scent; *S. Lawsoni* long silky hairs, densely covering the plant.

(8) With few exceptions, nearly all the species flower only at intervals of a number of years. In most species the period is not definitely established.

The following eight species were found flowering on the Nilgiris and Pulneys during 1934.

(A) *Flowers having two stamens*:—

(1) *Strobilanthes Kunthianus* T. And: (Pls. I and II). Found on the Nilgiris, Pulneys, Anamalais, High Range, Shevaroys, Billigirirangans; period 12 years; a woody shrub found in the open and in sholas, varying with locality from 1½ to 10 ft. in height.

Smooth reddish stem, bearing opposite leaves almost white below with soft short hairs between the veins. There are two types of leaves, the more common longer than broad, with pointed tip; less common shorter, as broad as long, and a broad rounded tip. The edge is toothed and the veins conspicuous 8-10 pairs; inflorescence rather long spike; bracts slightly hairy.

Corolla pale to deep mauve blue, bell narrowing gradually to the base.

(2) *Strobilanthes foliosus* T. And: (Pl. III). Found on Nilgiris and Pulneys and reported from other hill ranges; at edges of sholas only; quite common and said to flower every year; shrub 10 or 12 ft. high.

Smooth grey-brown stem; leaves opposite quite smooth; broad with pointed tip; toothed edge.

Inflorescence short and compact, supported by four outer leaves with large bases surrounding the spike. Outer bracts also somewhat leafy, quite smooth.

Corolla pale blue, with a long narrow tube as long as the bell; stamens two long and two very small infertile ones at the base of the long ones.

(3) *Strobilanthes consanguineus* C. B. Clarke: (Pl. IV). Found on the Pulneys at about 5,000 ft. and below to 3,500 ft.; abundant at the edges of sholas and the road; Gamble says its period is about 12 years, it having been previously recorded in flower in 1909, 1897 and 1884.

Shrub 10 or 12 ft. high glabrous, except the inflorescence which is sticky; leaves rather large, long-stalked and with a long point; toothed edge.

Inflorescence very long and slender spike, often three or more together; bracts with sticky hairs; flowers rather small, very pale lilac, short tube below the bell.

(4) *Strobilanthes Lawsoni* Gamble: (Pl. V). Found on the Nilgiris and previously collected in 1917 and 1883; so its period may be about 17 years; cultivated in a few gardens on the Nilgiris for the sake of its foliage; the whole plant densely covered with long white silky hairs.

Inflorescence a long spike; corolla pale blue with a rather short tube; stamens with white silky hairs.

(B) *Flowers having four stamens*:—

(5) *Strobilanthes Zenkerianus* T. And: (Pl. III). Found on the Nilgiris and Pulneys; a shrub so like *S. foliosus* that it is difficult to distinguish them at first sight; leaves perhaps smaller, darker green and of tougher consistency.

Inflorescence a short compact head; similar to that of *S. foliosus* but the outer leaves surrounding the head are wanting, and these are true bracts, very leafy.

Flower similar in blue colour and long tube below the bell; stamens four fertile, two long and two short; the distinguishing characteristic between this species and *S. foliosus*. In dried specimens it is often difficult to tell whether the two small stamens are fertile or infertile.

(6) *Strobilanthes Wightianus* Nees: (Pl. VI). Found on the Nilgiris, very abundant in 1934 but said to flower every year; easily recognised; very roughly hairy shrub 6 to 8 ft. high at the edges of sholas; short and compact, often only one foot high on the open roadsides; leaves rather short and broad; short stalks and very hairy.

Inflorescence short compact head, bracts leafy and very hairy.

Corolla large pale blue with dark blue lines and the tube and throat brown, showing up the four yellow stamens all of the same length; very short tube below the bell.

(7) *Strobilanthes Perrottetianus* Nees: (Pl. VII). This was found on the Nilgiris and has been reported from the Anamalais, and was found in 1852 and in 1883 and more lately in 1908 and 1918. Its period may be about ten years but seems irregular.

Strobilanthes Kunthianus T. And.

Strobilanthes foliosus T. And. or *S. Zenkerianus* T. And.

Strobilanthes consanguineus C. B. Clarke.

Strobilanthes foliosus T. And. or *S. Zenkerianus* T. And.

Strobilanthes consanguineus C. B. Clarke.

Strobilanthes Lawsoni Gamble.

Strobilanthes Wightianus Nees.

Strobilanthes Perrottetianus Nees.

Strobilanthes urceolaris Gamble.

This grows on the edges of sholas and is also an easily recognised species, being covered on all the younger parts, bracts, leaves and stem with soft dark red hairs. The stems are swollen at the joints. Leaves rather large.

Inflorescence about an inch to two inches long, rather stout, and very conspicuous in the shola by reason of the bracts being rose red; they fade to reddish green as they get older; flower pale lilac, with very short tube; stamens joined in a sheath for lower half, two inner ones slightly shorter.

(8) *Strobilanthes urceolaris* Gamble: (Pl. VIII). This flowered in November and December on the Pulneys very abundantly by the roadside at about 6,000 ft. and is reported also from the Nilgiris but no dates for its appearance are given by Gamble. A strong aromatic scent was noticed where the shrubs were abundant, the plant being covered with short viscid hairs. Stem slightly swollen at the joints, and reddish.

The inflorescence is short and compact, surrounded by two leafy bracts, and often grows in threes. The corolla pale blue, tube shorter than the bell.

Stamens joined in a sheath at base, two inner shorter than two outer.

News of the flowering of several other species in different localities, chiefly at somewhat lower levels, and in the sholas, has reached me, but as no specimens have been procurable, I am unable to say what species they are. It seems that 1934 has been a good year for the flowering of Strobilanthes.

I should like to express here my grateful thanks to the various friends and correspondents who have helped me by sending me specimens or in identifying them for me. Particularly I should mention Mr. Charles Brown of Coonoor; Mr. Cockburn of Kotagiri; the Rev. Father Münch, S.J., of Shembaganur; Mr. J. Williams of the Anamalais; Mr. R. Morris of the Billigirirangans; Mr. P. V. Mayuranathan, B.A., Government Botanist at the Madras Museum and Dr. T. V. Ramakrishna Iyer, B.A., the Government Entomologist at Coimbatore, to all of whom I am indebted for kind help.

EXPLANATION OF PLATES.

(2) *Strobilanthes Kunthianus* T. And.

A.—Enlarged drawing of flower: (*a*) Stamens; (*b*) Stigma; (*c*) Ovary; (*d*) honey disc.

(3) *Strobilanthes foliosus* T. And. or *Zenkerianus* T. And.

A.—Four outer leaves or leafy bracts.
B.—Inner bracts.
C.—Flower with calyx divided to the middle in *S. foliosus* to the base in *S. Zenkerianus*.
D.—Section of flower of *S. foliosus*.
E.—Stamens of *S. Zenkerianus*.

(4) *Strobilanthes consanguineus* C. B. Clarke.

A.—Section of flower showing stamens.

(5) *Strobilanthes Lawsoni* Gamble.

A.—Section of flower showing stamens.
B.—Ovary on honey disc, and calyx.

(6) *Strobilanthes Wightianus* Nees.

A.—A flower with calyx C and bracts B.
B.—Section showing stamens.

(7) *Strobilanthes Perrottetianus* Nees.

A.—Section showing stamens.

(8) *Strobilanthes urceolaris* Gamble.

A.—Flower with calyx.
B.—Ovary on honey disc.
C.—Section showing stamens.

(5) *Strobilanthes Lawsoni* Gamble.

A.—Section of flower showing stamens.
B.—Ovary on honey disc, and calyx.

(6) *Strobilanthes Wightianus* Nees.

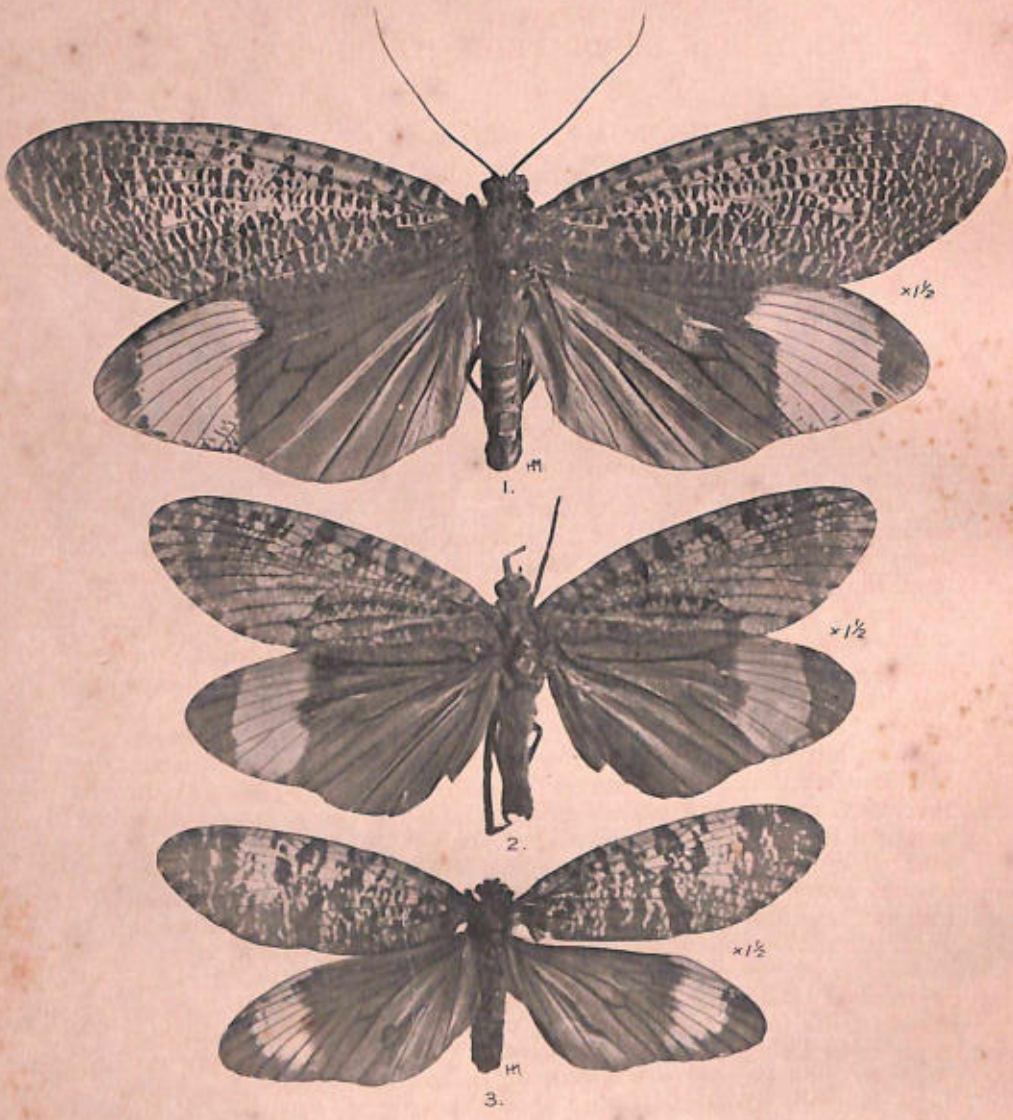
A.—A flower with calyx C and bracts B.
B.—Section showing stamens.

(7) *Strobilanthes Perrottetianus* Nees.

A.—Section showing stamens.

(8) *Strobilanthes urceolaris* Gamble.

A.—Flower with calyx.
B.—Ovary on honey disc.
C.—Section showing stamens.



Photos. A. D. Martinov. & D.E.K.

1. EUBASILISSA MCLACHLANI, White, ♀. 2. EUBASILISSA REGINA, Mc L., ♂.
3. EUBASILISSA TIBETANA, Mart., ♀.

(By kind permission of the Zoological Society of London)

THE INDIAN CADDIS-FLIES (*TRICHOPTERA*).

BY

MARTIN E. MOSELY, F.B.E.S.

PART III.

(*With thirteen plates*).

(*Continued from page* 629 *of volume* XXXVII).

INAEQUIPALPIA

PHRYGANEIDAE

Burmeister, Handb. Ent., p. 922, 1839.

CHARACTERS OF THE FAMILY.

Antennae stout, generally as long as the anterior wing but sometimes much shorter and, in *Limnocentropus* serrated on the under side in the basal and middle portions; first joint stouter than the others. Ocelli present. Maxillary palpi four jointed in the male, five jointed in the female, similar in structure in both sexes, only slightly pubescent; joints somewhat cylindrical, the basal joint short; labial palpi small, terminal joint generally ovate and spoon shaped. Wings varying in shape in the different genera; usually short and broad and, except in *Limnocentropus*, with rounded apices. In *Agrypnia* the wings are perhaps more elongate and bear a closer resemblance to those of the *Limnophilidae*. In the other genera they are covered with a short dense pubescence; nervures strong; discoidal cell closed in both wings, long and narrow in the anterior and short in the posterior; the first two apical sectors generally arise from its upper margin; median cell wanting; cellula thyridii very elongate; anterior wing with apical forks 1, 2, 3 and 5 in the male (except in *Limnocentropus*) and 1, 2, 3 and 5, sometimes 1, 2, 3, 4 and 5, in the female; posterior wing generally 1, 2, 5 in the male and 1, 2 and 5, sometimes 1, 2, 3 and 5 in the female; anterior wing usually with an additional cross vein uniting the costa and sub-costa; there is however only the one cross vein present in the genera *Limnocentropus* and *Agrypnia*. Legs generally stout and rather short; spurs 2, 4, 4; spines strong and short but sometimes practically absent. The genital appendages of the male vary somewhat according to the genera and species; the inferior appendages are generally strongly developed, two jointed, with the two joints more or less welded together; there is a dorsal plate covering a rather simply constructed penis which is often armed at its apex with a pair of strongly chitinised plates or hooks.

In so far as the records show, the *Phryganeidae* are represented in India by four (perhaps five) genera containing ten (perhaps

eleven) species, a total which compares not unfavourably with that of the European fauna. Of these genera, *Oopterygia* has been elected on very slender grounds but a careful search has shown that there is a cross veinlet in *Eubasilissa* between the radius and sub-costa of the anterior wing which does not seem to occur in the former genus. *Eubasilissa* is amply distinguished from *Neuronia* (in which genus the species were formerly placed) by the presence of an additional fork in the anterior wing in the female sex. *Neurocyta* Navás is perhaps an aberrant *Eubasilissa*.

TABLE OF INDIAN GENERA.

1. Fork 1 absent in both wings. LIMNOCENTROPUS Ulmer.
—Fork 1 present in both wings. 2

2. Insects of moderate size, anterior wing about 12 mm. long; only one cross vein between costa and sub-costa. AGRYPNIA Curtis.
—Insects very large, excepting *Oopterygia minor*, anterior wing 20 mm. or more long; an additional cross vein between costa and sub-costa. 3

3. A cross vein connecting the sub-costa and the radius. EUBASILISSA Martynov. ? NEUROCYTA Navás.
—No cross vein between the sub-costa and radius. OOPTERYGIA Martynov.

Eubasilissa Martynov.

Eubasilissa Martynov	— Proc. Zool. Soc. Lond., No. 5, Pt. I, p. 87, 1930.
Regina Martynov	— Ann. Mag. Nat. Hist. (9), vol. xiv, p. 215, 1924.
Neuronia Leach partim	— Edinburgh Encyc., vol. ix, p. 136, 1815.

Insects very large; ocelli present; anterior wings broad; discoidal cell moderately long; an additional cross vein between the costa and sub-costa and also a cross vein uniting the sub-costa and radius; forks 1, 2, 3 and 5 present in the anterior wings in the male, 1, 2, 3, 4 and 5 in the female; in the posterior, 1, 2 and 5 in the male, 1, 2, 3 and 5 in the female; anterior wing, membrane yellow, sometimes with irregular fuscous bands in the anterior portion and mostly with a fuscous net, partly confluent in the median and apical portions; posterior wing brown or fuscous, sometimes purple with a broad transverse yellow band in the apical half. Inferior appendages ♂ two-jointed, with the two joints welded together, the line of juncture being not easy to define excepting in a balsam preparation.

Genotype: *Eubasilissa regina* McL.

The three known species are easily separated by their wing pattern as may be seen on consulting the figures on the plate. Consequently a table of species is unnecessary here.

I am indebted to Mr. A. B. Martynov for his fine photographs of *E. melachlani* and *E. tibetana* and to the Zoological Society of London for kind permission to reproduce them from the Proceedings.

Eubasilissa regina McLach. (Pl. I, fig. 2; Pl. II, figs. 4-6).

Holostomis mclachlani White var. *regina* McLach. — Journ., Linn. Soc. Lond. Zool., vol. xi, pp. 103-104, 1871.

Holostomis regina Matsumura — Thous. Ins. Japan, Pl. 12, fig. 1, 1904.

,, ,, Matsumura — Syst. Ent., 1, p. 168, f. 219, 221, 1907.

Neuronia (*Holostomis*) *regina* McLach — Ann. Mag. Nat. Hist., Ser. vi, vol. xiii, p. 421, 1894.

Neuronia regina Hagen — Ver. Zool. bot. Ges. Wien, vol. xxiii, p. 396, 1873.

,, ,, Ulmer — Gen. Insect., fasc. 60a, p. 24, Pl. 29, fig. 3, 1907.

,, ,, Ulmer — Coll. Selys, fasc. 6a, figs. 1-3, Pl. 1, fig. 1, 1907.

,, ,, Ulmer — Deutsch. Ent. Zeit., pp. 239-240, 1908.

,, ,, Ulmer — *op. cit.*, p. 400, 1911.

,, ,, Nakahara — Can. Ent., vol. xlv, p. 323, 1913.

Regina regina Martynov — Ann. Mag. Nat. Hist. (9), vol. xiv, p. 215, 1924.

,, ,, Ulmer — Arch. Naturg., vol. xci, Abt. A, Heft 5, p. 62, 1925.

Eubasilissa regina Martynov — Proc. Zool. Soc. Lond., No. 5, Pt. I, pp. 87-88, 110-111, 1930.

,, ,, Ulmer — Pekin Nat. Hist. Bull., vol. vii, p. 147, 1932.

,, ,, McLach. — Iconographia Insectorum Japonicum, p. 1500, 1932.

Anterior wings with a yellow ground heavily mottled with brown markings; these coalesce towards the apex of the wing making a darkish patch in this region; there are eight or nine confluent groups of brown spots along the costal margin of each wing and dark spots along the apical margin at the extremities of the apical sectors. There is an indistinct lightening in colour forming a band across the anterior wing corresponding with and continuing the yellow band of the posterior wing. Posterior wings coloured dark purple brown with a broad transverse yellow band towards the apex extending from the lower to the upper margin and leaving a considerable dark patch at the extreme apex; three or four dark spots on the extreme lower margin of the yellow band.

Length of anterior wing ♂ 34 mm.

Length of anterior wing ♀ 38 mm.

Habitat.—Kulu, Japan, China, Formosa.

Location of the type not indicated but probably in the McLachlan collection.

Eubasilissa regina was considered by McLachlan to be merely a variety of *mclachlani* White. There are, however, ample

distinctions in the male genitalia as may be seen on a comparison of the figures of these parts and also distinct differences in the pattern of the wings.

Eubasilissa mclachlani White (Pl. I, fig. 1; Pl. III, figs. 7-10; Pl. IV, figs. 11-12).

Holostomis m'Lachlani White — Zoologist, vol. xx, p. 7860, 1862.
" " White — Proc. Ent. Soc. Lond., Ser. 3, vol. i, p. 26, 1862.
" " Hagen — Ver. Zool. bot. Ges. Wien, vol. xiv, p. 820, 1864.
Holostomis maclachlani McLach. Journ. Linn. Soc. Lond. Zool., vol. xi, p. 103, 1871.
Phryganea maclachlani McLach. — Trans. Ent. Soc. Lond., Ser. 3, vol. v, pp. 249-250, Pl. xvii, fig. 1, ♀, 1866.
Neuronia maclachlani Hagen — Ver. Zool. bot. Ges. Wien, vol. xxiii, p. 395, 1873.
" " Betten — Rec. Ind. Mus., vol. iii, p. 242, 1909.
Neuronia mclachlani Ulmer — Notes Leyd. Mus., vol. xxviii, p. 103, 1906.
" " Ulmer — Gen. Insect., fasc. 60a, p. 24, 1907.
" " Ulmer — Coll. Selys, fasc. 6a, p. 6, 1907.
Regina mclachlani Martynov. — Ann. Mag. Nat. Hist. (9), vol. xiv, p. 215, 1924.
Eubasilissa mclachlani Martynov Proc. Zool. Soc. Lond., No. 5, Pt. I, pp. 87, 111, Pl. 1, fig. 1, 1930.

Anterior wings reddish orange, thickly and uniformly reticulated with blackish fuscous markings which do not coalesce to make definite blotches as in *regina;* there are two conspicuous whitish spots, one in the *cellula thyridii* and the other in the sixth apical cell. In *regina* these spots are far more indistinctly indicated. Posterior wings purple brown, a very broad orange coloured band occupying almost the entire apical third as in *regina;* the dark fuscous patch at the apex of the wing small as compared with that of *regina* and the dark spots on the lower margin of the orange band less conspicuous; there are seven or eight faintly indicated spots on the upper margin of the band as well.

There are marked differences in the male genitalia between the two species, special attention being directed to the strongly-formed tongue which arises at the centre of the terminal ventral segment (seen from behind) and meets a corresponding tongue descending from the lower penis cover to meet it. This feature is absent in *regina*.

Length of anterior wing ♂ 31 mm.
Length of anterior wing ♀ 40 mm.

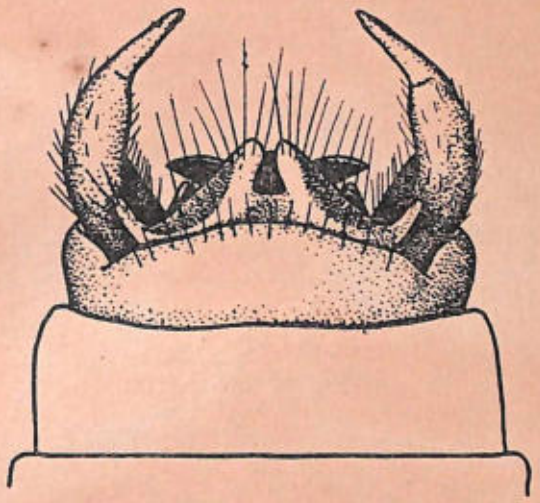


Fig. 4.

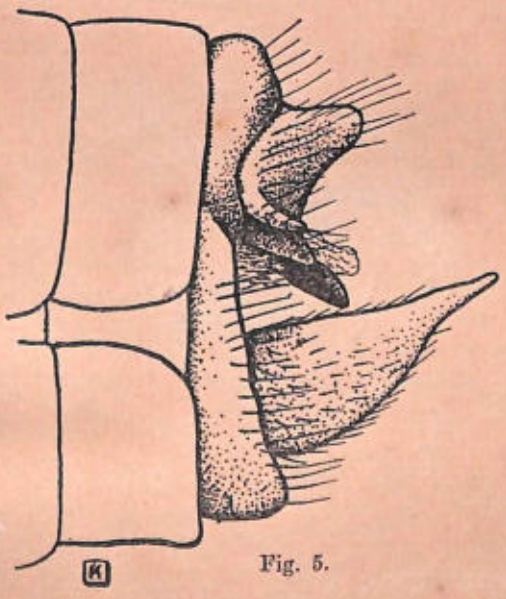


Fig. 5.

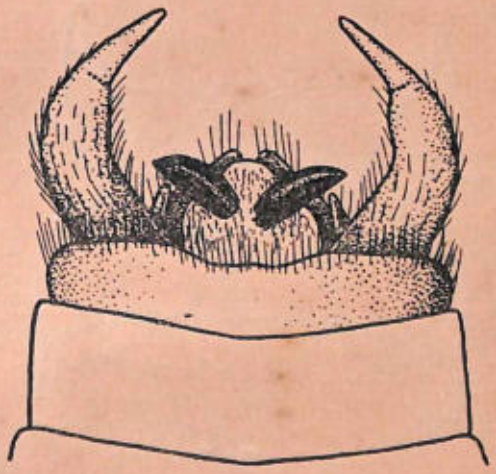


Fig. 6.

Eubasilissa regina, McL., ♂.

Fig.—4, genitalia dorsal; 5, lateral; 6, ventral.

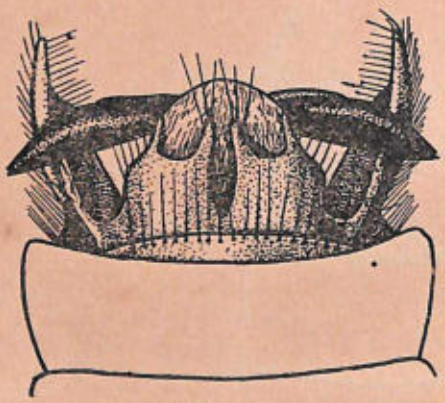


Fig. 7.

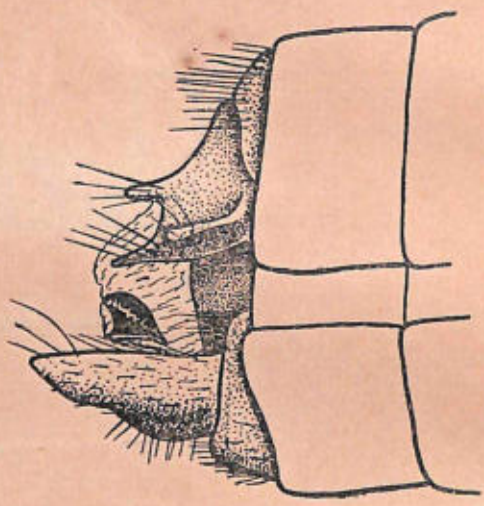


Fig. 8.

Fig. 9.

Fig. 10.

Eubasilissa melachlani White, ♂.

Fig.—7, genitalia dorsal; 8, lateral; 9, ventral; 10, penis and inferior appendages obliquely from beneath.

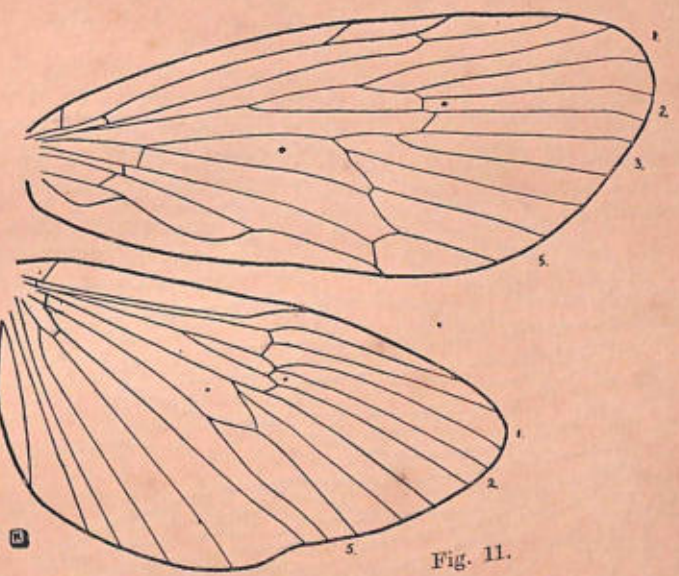


Fig. 11.

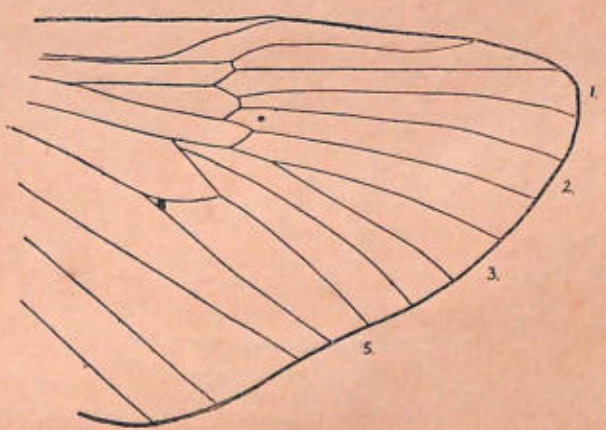


Fig. 12.

Eubasilissa maclachlani White.

Fig.—11, wings ♂; 12, apex of posterior wing ♀.

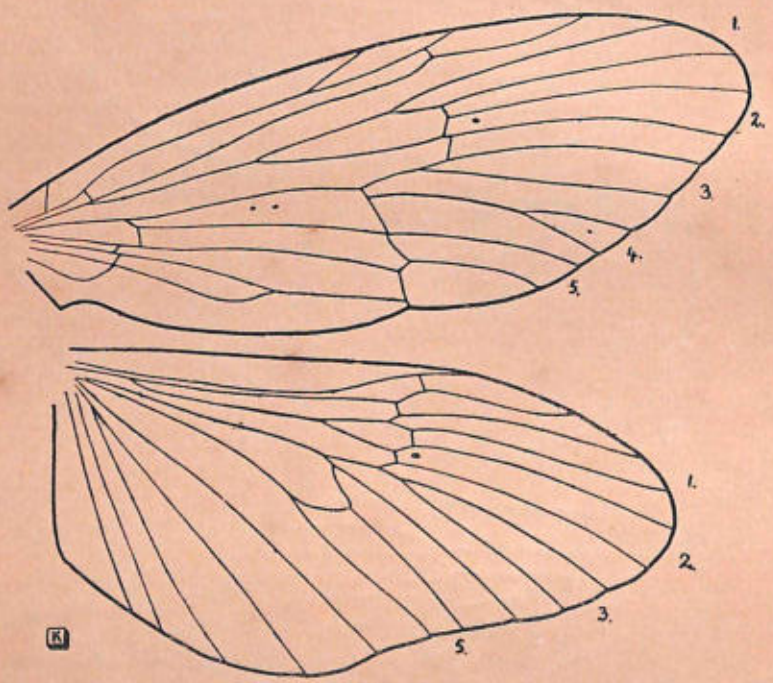


Fig. 13.

Eubasilissa tibetana Mart., ♀.

Fig. 13.—Wings.

Habitat.—Darjiling, Assam, Kulu.
Type ♀ in the collection of the British Museum.

Eubasilissa tibetana Martynov (Pl. I, fig. 3; Pl. V, fig. 13).

Eubasilissa tibetana Martynov, Proc. Zool. Soc. Lond., No. 5, Pt. I, pp. 88-111, Pl. 1, fig. 2, 1930.

Pattern of the wings very similar to that of *regina*. Dark blotches along the costal margin of the anterior wing scarcely evident; apical and lower margins of the wing darkly-clouded; a clear patch extending down from the costal margin to rather more than half-way. In the posterior wing, the yellowish transverse band is smaller than in either of the other two species and does not extend as far as the lower margin of the wing; ♂ unknown.

Length of anterior wing ♀ 32 mm.

Habitat.—Sikkim, Tibet.

Type and paratypes ♀ in the collection of the British Museum: paratype ♀ in the Zoological Museum, Leningrad.

The absence of the strongly indicated blotches along the costal margin of the anterior wing and the more confined area of the yellow band of the posterior wing suffice to separate this species from *regina* which is moreover considerably larger. The wing pattern is abundantly distinct from that of *mclachlani*. It is to be hoped that the male will be discovered in order that some idea of the genitalia may be obtained.

Oopterygia Martynov.

Oopterygia Martynov, Proc. Zool. Soc. Lond., No. 5, Pt. I, pp. 88-89, 1930.

Anterior wings very broad, almost oval, darkish-yellow with uniform pale yellow reticulation or orange with brown spots; an additional cross-vein between the costa and sub-costa; no cross-vein between the sub-costa and radius; posterior wings broad, either uniformly reticulated as in the anterior or else dark fuscous with a broad yellow band occupying the distal area as in *Eubasilissa*. Superior appendages absent, inferior appendages rather long, distinctly two jointed, second joint short, sub-oval or capitate, welded to the first. Ocelli present, spurs probably 2, 4, 4, but both posterior legs are missing in the unique genotype, and the spurs are not mentioned in the description of *O. asiatica* Betten.

Genotype: *Oopterygia brunnea* Martynov.

Three species in this genus are known, *brunnea* Martynov, *asiatica* Betten, *minor* sp. n. described herein, *asiatica* being distinguished by the yellow band across the dark ground-colour of the posterior wing. They may be separated from *Eubasilissa* species by the rather more ovate shape of the wings and the absence of the cross vein between sub-costa and radius.

The additional cross vein between the costa and sub-costa in the anterior wing is omitted in Martynov's description of *brunnea*, but a re-examination of the type has shown that it is present. It is indicated by Betten in his figure of *asiatica*.

Oopterygia brunnea Martynov (Pl. VI, figs. 14-17).

Oopterygia brunnea Martynov, Proc. Zool. Soc. Lond., No. 5, Pt. I, pp. 89-91, 111, figs. 33-36, 1930.

Head and thorax brown, antennae dark reddish-yellow with indistinct annulations, palpi brownish. Anterior wing broad, egg-shaped, rounded at the apex; ground-colour uniformly pale greyish-testaceous or somewhat brownish, densely and uniformly irrorated with indistinct round pale confluent spots; fringes very short, pale yellowish; membrane finely granulose clothed with short brownish hairs; nervures testaceous. Legs reddish-brown with short yellow hairs, femora somewhat lighter in colour, spines black, spurs 2, 4 (4?) reddish-yellow.

The single species has lost both posterior legs but there can be little doubt that the spurs would number 4 in accordance with the Family characters.

Length of anterior wing ♂ 22 mm.

Habitat.—Tibet, Yatung, 4,500 ft.

Type ♂ in the collection of the British Museum.

Oopterygia asiatica Betten (Pl. VII, figs. 18-19).

Neuronia asiatica Betten	— Rec. Ind. Mus., vol. iii, Pt. III, p. 242, Pl. xviii, figs. 15-16, 1909.
? *Neuronia asiatica* Martynov	— Ann. Mag. Nat. Hist. (9), vol. xiv, p. 216, 1924.
Oopterygia asiatica Martynov	— Proc. Zool. Soc. Lond., No. 5, Pt. I, pp. 89-91, 11, 1930.

Head and thorax dark brown; eyes black, ocelli yellow. Anterior wings orange with brown spots, the largest spots along the costa and apical margins covering the tips of the veins, a particularly large spot on the tip of the Sc.; there is an irregular brown band following the line of the anastomosis from the first branching of the media to the tip of the anal veins. The posterior wing has the basal two-thirds dark-brown, the distal third is yellow. There is an interrupted apical band of brown, the brown spots being on and along the tips of the veins. The abnormality of venation shown in the anal veins of the posterior wing occurs in both wings of the specimen.

Length of body ♂ 15 mm.; expanse 41 mm.

Habitat.—Sibsagar, Assam.

Type ♂ in the collection of the Indian Museum, Calcutta.

I am unacquainted with this fine insect and so give Betten's description as published in the records of the Indian Museum. His figures of neuration and genitalia indicate a close affinity to Martynov's *O. brunnea*.

Oopterygia minor sp. n. (Pl. VIII, figs. 20-23).

Head very dark fuscous, oculi black; antennae almost entirely wanting in the unique type, basal joint fuscous, palpi fuscous;

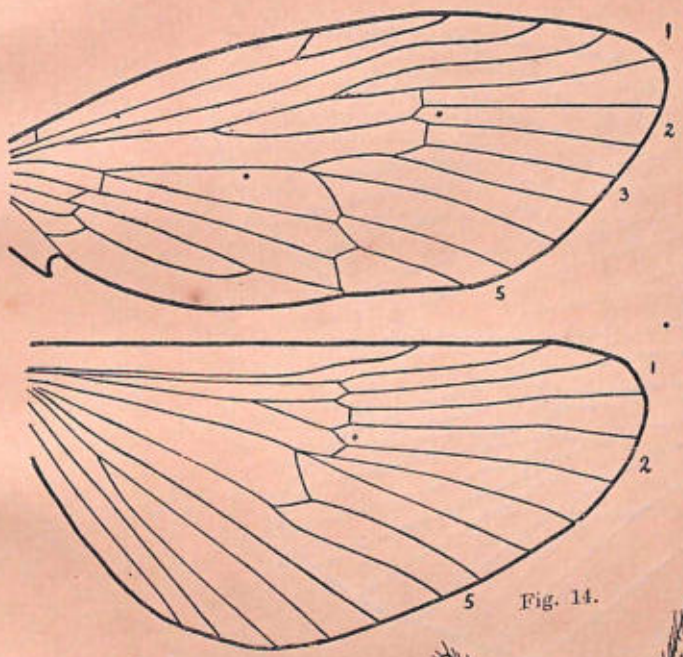


Fig. 14.

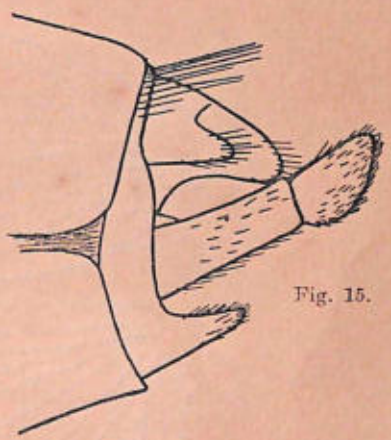


Fig. 15.

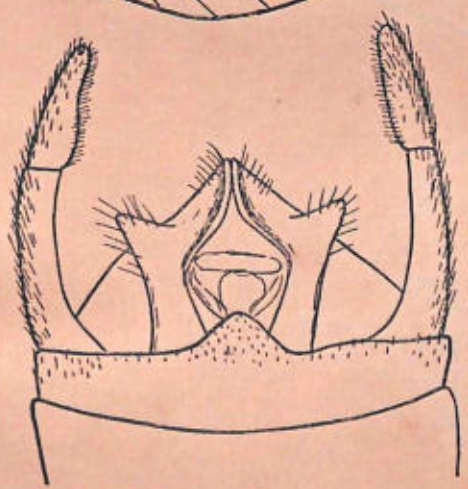


Fig. 16.

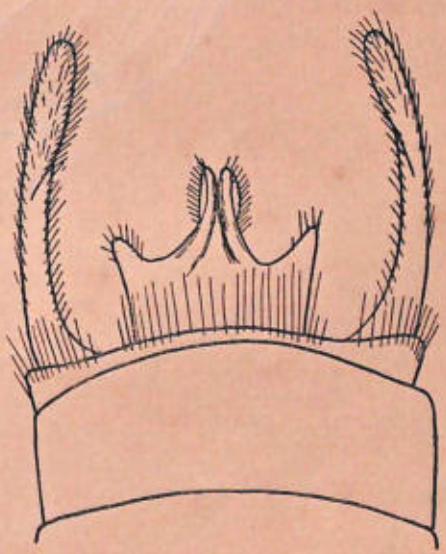


Fig. 17.

Oopterygia brunnea Mart., ♂.

Fig.—14, wings; 15, genitalia lateral; 16, ventral; 17, dorsal (*genitalia after Martynov*).

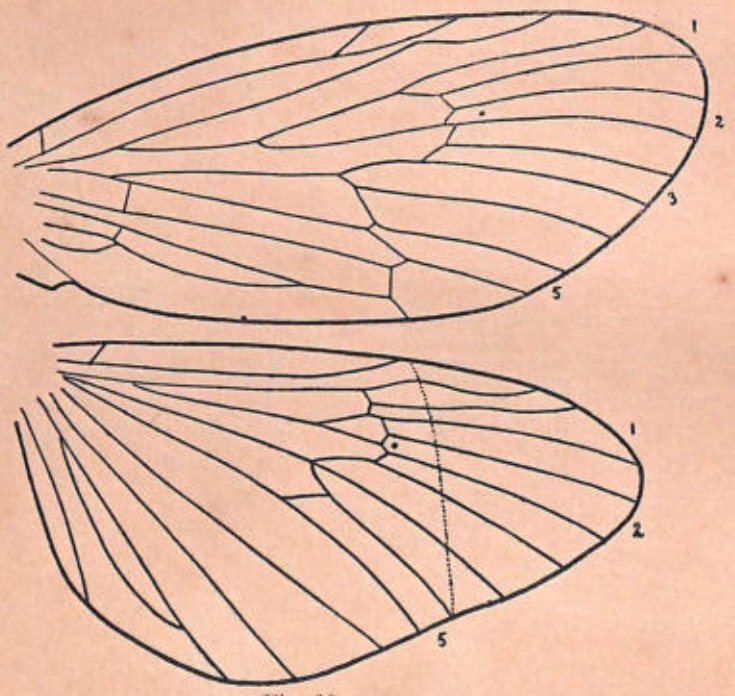


Fig. 18.

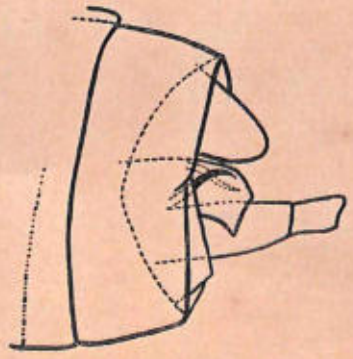


Fig. 19.

Oopterygia asiatica Betten, ♂.

Fig.—18, wings; 19, genitalia lateral (*after Betten*).

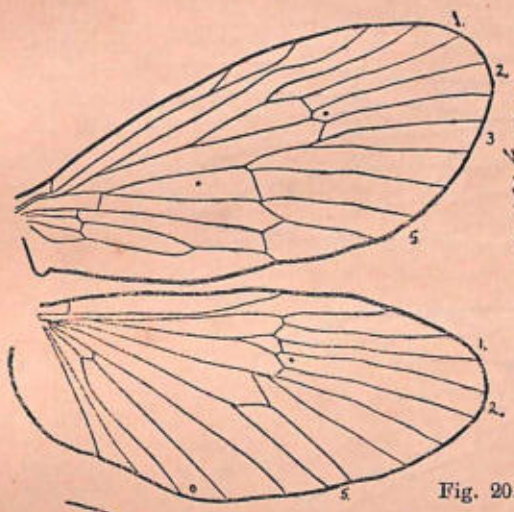


Fig. 20.

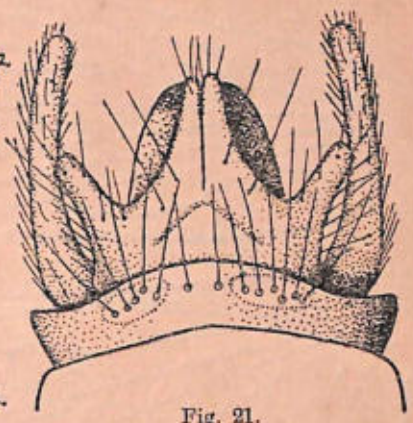


Fig. 21.

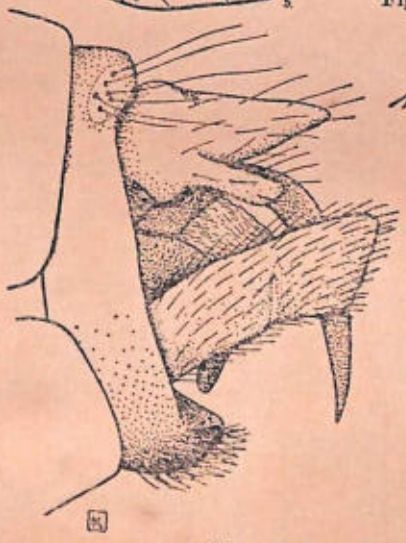


Fig. 22.

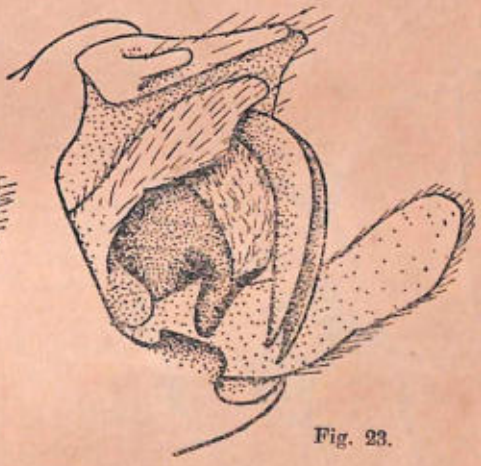


Fig. 23.

Oopterygia minor sp. n., ♂.

Fig.—20, wings; 21, genitalia dorsal; 22, lateral; 23, ventral, oblique, slightly from behind.

Anterior wing with very slight pubescence, rather narrow, apex obliquely truncate, only one nervure, at the base, between the costa and sub-costa; forks 1, 2, 3 and 5 present in the anterior wing of the ♂, 1, 2, 3, 4 and 5 in the ♀; forks 1, 2 and 5 in the posterior wing in both sexes. Ocelli present. Spurs 2, 4, 4. The form of the insect is much more elongate than in the other genera of the *Phryganeidae* and the species might be easily but mistakenly placed amongst the *Limnophilidae*. The neuration shows a tendency to aberration, particularly in the posterior wing.

Genotype: *Agrypnia pagetana* Curt.

Only one species has been recorded as belonging to the Indian fauna namely *A. picta* in Tibet and Martynov considers that the Tibetan form should rank as a variety.

Agrypnia picta Kol. var. **tibetana** Martynov (Pl. IX, figs. 24-26).

Prophryganea picta Martynov — Ann. Mus. Acad. Imp. Sci. Peters., vol. xiv, p. 259, 1909.

Prophryganea picta var. *tibetana* Martynov — Proc. Zool. Soc. Lond., No. 5, Pt. I, pp. 91-111, 1930.

Agrypina picta var. *tibetana* Ulmer — Pekin Nat. Hist. Bull., vol. vii, p. 150, 1932-33.

Anterior wings more or less brownish as the brown spots are very indistinct and diffuse. In the male genitalia the dorsal plate is rather longer than in European typical examples of *picta* and the second joint of the inferior appendage is somewhat longer and not so dilated.

Length of anterior wing ♂ 14 mm.

Length of anterior wing ♀ 15 mm.

Habitat.—Tibet.

Type ♂ and paratype ♀ in the collection of the British Museum.

Limnocentropus Ulmer.

Limnocentropus Ulmer — Coll. Selys, fasc. 6a, pp. 13-14, figs. 21-23, 1907.

" Ulmer — Gen. Insect., fasc. 60a, p. 28, 1907.

" Martynov — Ann. Mag. Nat. Hist. (9), vol. xiv, p. 213, 1924.

Head broad and short, ocelli present and conspicuous; antennae somewhat shorter than the anterior wing, rather slender, the basal half serrated on its under side. Maxillary palpi stout; in the ♀, first joint very short, second long, third still longer, fourth about as long as the second, fifth slightly shorter than the third; in the ♂, they correspond to the second, third, fourth and fifth of the ♀. In the labial palpi, the third joint is not oval as in many of the *Phryganeidae*. Wings ovate, broad, clothed with thick brown pubescence; apices in the male blunter than in the

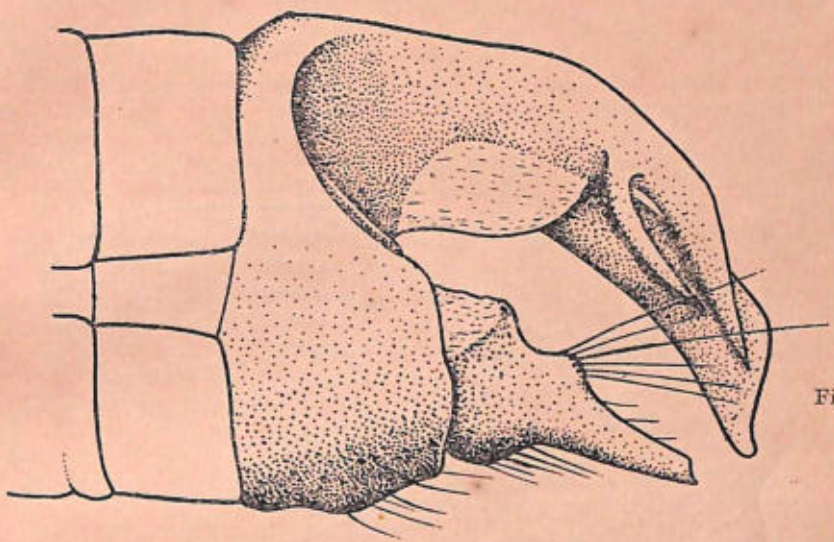


Fig. 27.

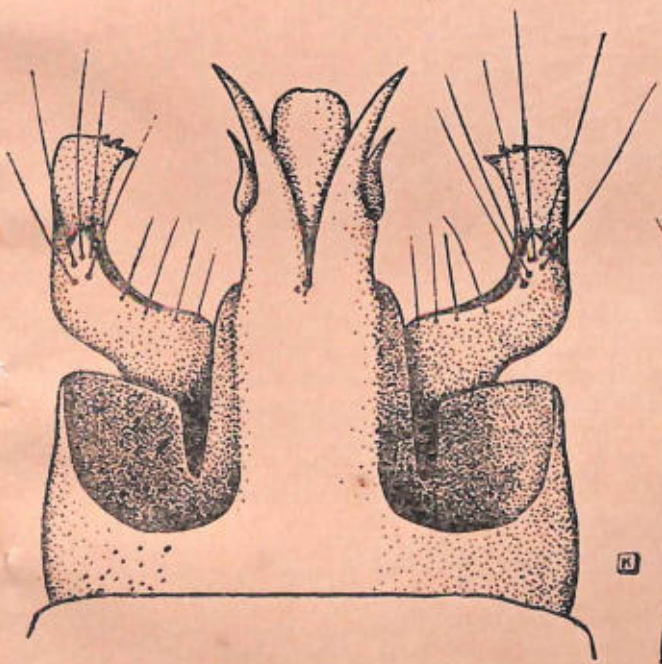


Fig. 28.

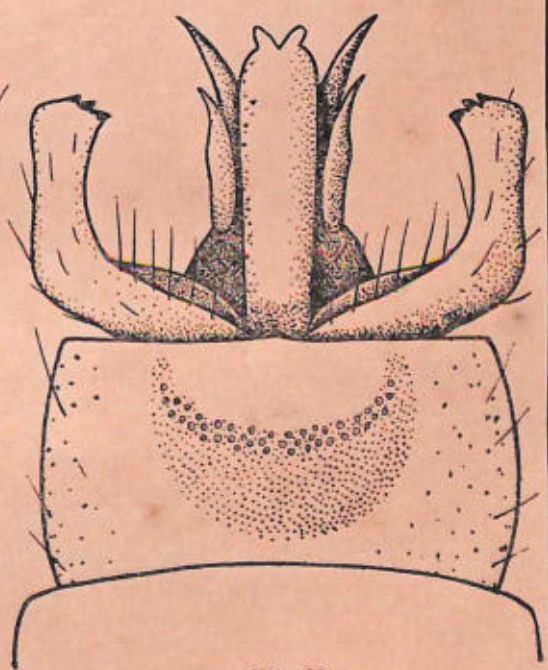


Fig. 29.

Limnocentropus insolitus Ulm., ♂.

Fig.—27, genitalia lateral; 28, dorsal; 29, ventral.

Anterior wing with very slight pubescence, rather narrow, apex obliquely truncate, only one nervure, at the base, between the costa and sub-costa; forks 1, 2, 3 and 5 present in the anterior wing of the ♂, 1, 2, 3, 4 and 5 in the ♀; forks 1, 2 and 5 in the posterior wing in both sexes. Ocelli present. Spurs 2, 4, 4. The form of the insect is much more elongate than in the other genera of the *Phryganeidae* and the species might be easily but mistakenly placed amongst the *Limnophilidae*. The neuration shows a tendency to aberration, particularly in the posterior wing.

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Agrypnia picta Kol. var. **tibetana** Martynov (Pl. IX, figs. 24-26).

Prophryganea picta Martynov — Ann. Mus. Acad. Imp. Sci. Peters., vol. xiv, p. 259, 1909.

Prophryganea picta var. *tibetana* Martynov — Proc. Zool. Soc. Lond., No. 5, Pt. I, pp. 91-111, 1930.

Agrypina picta var. *tibetana* Ulmer — Pekin Nat. Hist. Bull., vol. vii, p. 150, 1932-33.

Anterior wings more or less brownish as the brown spots are very indistinct and diffuse. In the male genitalia the dorsal plate is rather longer than in European typical examples of *picta* and the second joint of the inferior appendage is somewhat longer and not so dilated.

Length of anterior wing ♂ 14 mm.

Length of anterior wing ♀ 15 mm.

Habitat.—Tibet.

Type ♂ and paratype ♀ in the collection of the British Museum.

Limnocentropus Ulmer.

Limnocentropus Ulmer — Coll. Selys, fasc. 6a, pp. 13-14, figs. 21-23, 1907.

" Ulmer — Gen. Insect., fasc. 60a, p. 28, 1907.

" Martynov — Ann. Mag. Nat. Hist. (9), vol. xiv, p. 213, 1924.

Head broad and short, ocelli present and conspicuous; antennae somewhat shorter than the anterior wing, rather slender, the basal half serrated on its under side. Maxillary palpi stout; in the ♀, first joint very short, second long, third still longer, fourth about as long as the second, fifth slightly shorter than the third; in the ♂, they correspond to the second, third, fourth and fifth of the ♀. In the labial palpi, the third joint is not oval as in many of the *Phryganeidae*. Wings ovate, broad, clothed with thick brown pubescence; apices in the male blunter than in the

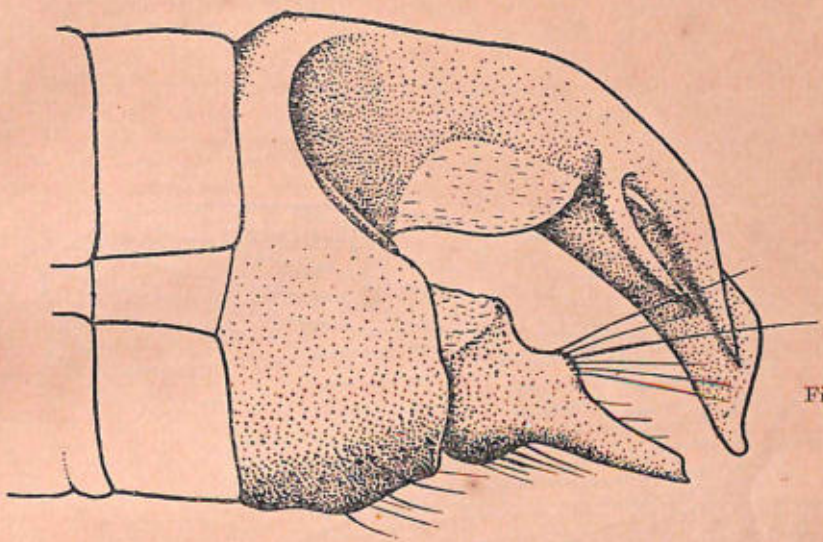


Fig. 27.

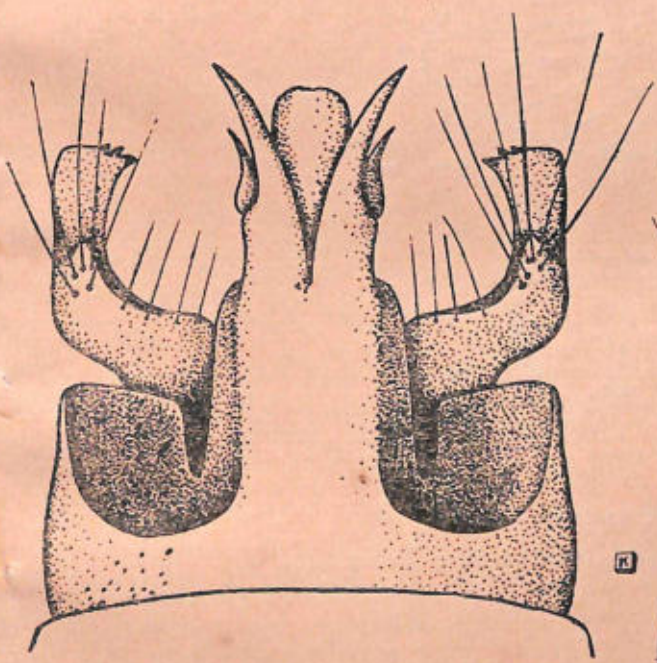


Fig. 28.

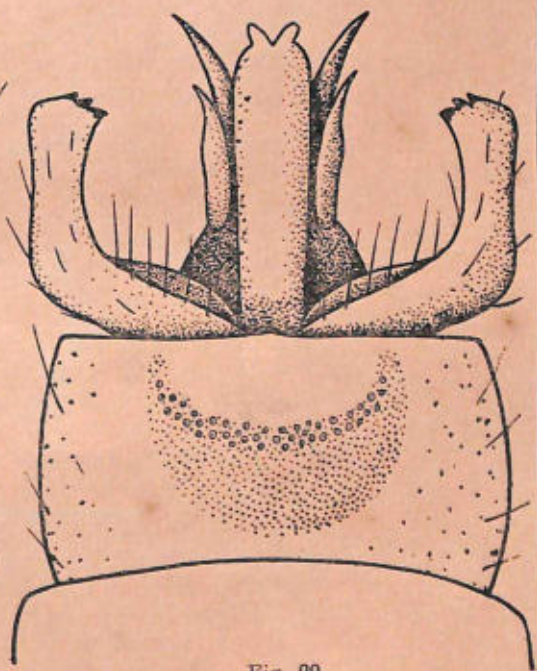


Fig. 29.

Limnocentropus insolitus Ulm., ♂.

Fig.—27, genitalia lateral; 28, dorsal; 29, ventral.

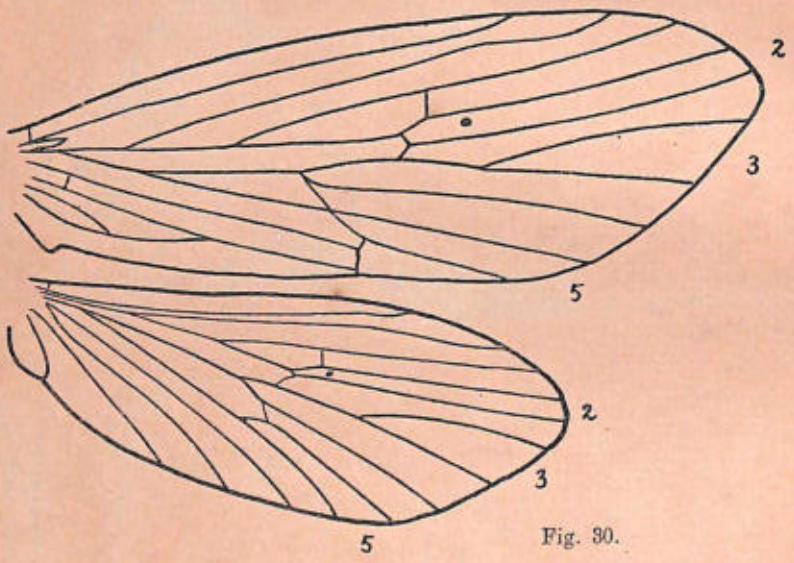


Fig. 30.

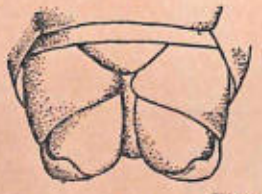


Fig. 31.

Limnocentropus insolitus Ulm., ♀.

Fig.—30, wings; 31, genitalia dorsal (*after Ulmer*).

female; neuration alike in both sexes; forks 2, 3 and 5 present in both wings, fork 3 with a foot-stalk; discoidal cell closed, smaller in the posterior than in the anterior. Legs with spurs 2, 4, 4; spurs of equal length and densely clothed, like the legs, with adpressed hairs, median leg of ♀ not dilated. Genitalia male with a well developed down curved dorsal plate and simple curved inferior appendages, elbowed towards the centre; penis simple. Seventh sternite produced at its centre in a shallow lobe.

Genotype.—*Limnocentropus insolitus* Ulmer.

Limnocentropus insolitus Ulmer (Pl. X, figs. 27-29; Pl. XI, figs. 30-31).

Limnocentropus insolitus Ulmer — Coll. Selys, fasc. 6a, pp. 13-14, figs. 21-23, 1907.
" " Ulmer — Gen. Insect., fasc. 60a, p. 28, 1907.
" " Ulmer — Notes Leyd. Mus., vol. xxix, p. 2, figs. 1-2, 1907.
" " Nakahara Can. Entom., vol. xlv, No. 10, p. 327, 1913.
" " Martynov Ann. Mag. Nat. Hist. (9), vol. xiv, p. 213, 1924.
" " Ulmer — Arch. Naturg., vol. xci, Abt. A, Heft. 5, p. 63, 1925.
" " Martynov Proc. Zool. Soc. Lond., No. 5, Pt. I, pp. 91, 110, 111, 1930.
" " Ulmer — Pekin Nat. Hist. Bull., vol. vii, p. 148, 1932-33.

The whole insect is of a deep smoky chocolate-brown; head, thorax and abdomen black and in general appearance not differing in any marked respect from *fletcheri* and Martynov's subspecies *himalayanus*.

Genitalia ♂.—Eighth tergite straight; ninth tergite is produced at its centre in a very long dorsal process, the apical half cleft in two slender diverging forks with acute spine like apices; from the side, the process is very broad towards the base tapering to an acute point and, at about the centre there arises on each side, from the lower lateral margin directed backward, a short curved spine, which may be seen from above, projecting on each side of the central forks; below this process is the penis which is long, curving downwards with an obliquely truncated apex; from beneath the apex is seen to be divided to make a small membranous fork; the inferior appendages from the side narrowing to acute apices with slight blunt projections towards the base on the upper margins furnished with tufts of long hairs; from above the appendages are broader at the base and are strongly elbowed, apices truncate and serrate.

Length of anterior wing ♂ 12 mm.

The above description has been drawn up from the Japanese example in the Berlin Museum kindly lent for the purpose by

Dr. H. Bischoff. The type of the species is a ♀ example, also from Japan in the De Selys collection in Brussels.

Ulmer states that he has seen an example from Darjiling in the Paris Museum but the specimen cannot now be found. In his list of *Chinese Trichoptera*, he gives the distribution as China, Japan, Darjiling and Sikkim but *insolitus* may well have been confused with the new species *fletcheri* described below and I have some doubt as to whether it should rightfully be included in the Indian fauna.

Limnocentropus insolitus Ulmer, subsp. **himalayanus** Martynov (Pl. XII, figs. 32-33).

Limnocentropus insolitus Ulmer, Proc. Zool. Soc. Lond., No. 5, subsp. *himalayanus* Martynov — Pt. I, p. 91, 1930.
Ulmer — Pekin Nat. Hist. Bull., vol. vii, p. 148, 1932-33.

Head much destroyed in the single example known, reddish-brown, basal joint of the antennae reddish, remainder wanting. Wings dark brown clothed with golden brown hairs.

Genitalia ♀.—Terminal dorsal segment strongly produced from above, and lying close on each side of the produced portion are two long chitinised plates joined at their apices by a membrane.

♂ unknown.

Length of anterior wing ♀ 13 mm.

This species may possibly be the ♀ of *L. fletcheri* sp. n.

Sikkim, Tsung-tang, 6,000 ft., 24. iv. 1924 (Mt. Everest Expedition), (Major R. W. G. Hingston).

Type ♀ in the British Museum collection.

Limnocentropus fletcheri sp. n. (Pl. XIII, figs. 34-37).

Head black, clothed with tawny hairs; antennae light ochraceous, strongly annulated with dark fuscous and distinctly serrate beneath nearly to the apex; maxillary palpi very dark fuscous, nearly black with groups of very short light coloured hairs at the apex of each joint. Wings uniformly dark brown clothed with short golden pubescence, rather less pointed at the apices than those of *insolitus*. Legs yellowish.

Genitalia ♂.—The margin of the eighth dorsal segment is widely excised with the centre of the excision somewhat convex; the ninth segment, the genital capsule, is produced at the centre of its dorsal margin in a long narrow yellow bifurcate dorsal plate with a narrow central upper lobe whose rounded apex projects slightly over the excision between the two forks whose apices are also rounded; side pieces of the ninth segment blunt, apices slightly excised as seen from the side, upper margin blackened and carrying a few stout hairs; penis short, stout and membranous, apex furnished with two short down turned hooks; inferior appendages from beneath, each very broad at its base with a wide rectangular excision at the centre of its inner margin so that it is abruptly narrowed in its apical half; apices from beneath directed slightly

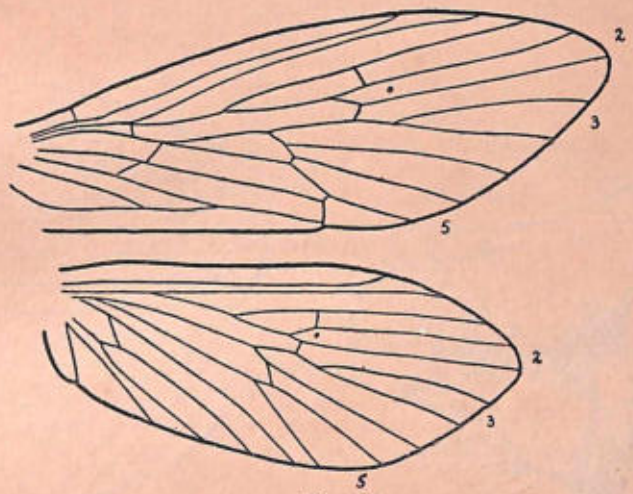


Fig. 32.

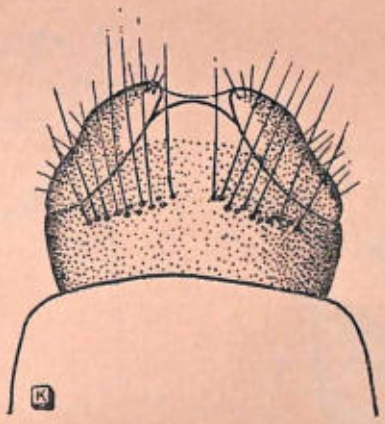


Fig. 33.

Limnocentropus insolitus Ulm. subsp. **himalayanus** Mart., ♀.

Fig.—32, wings; 33, genitalia dorsal.

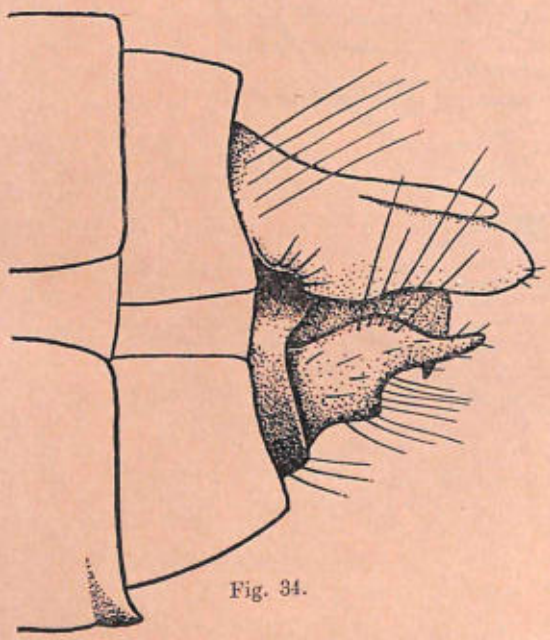


Fig. 34.

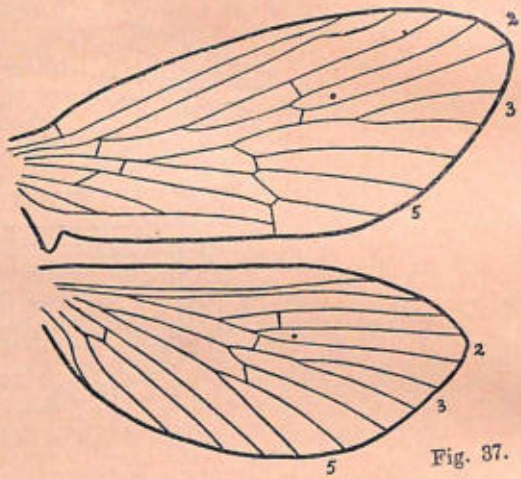


Fig. 37.

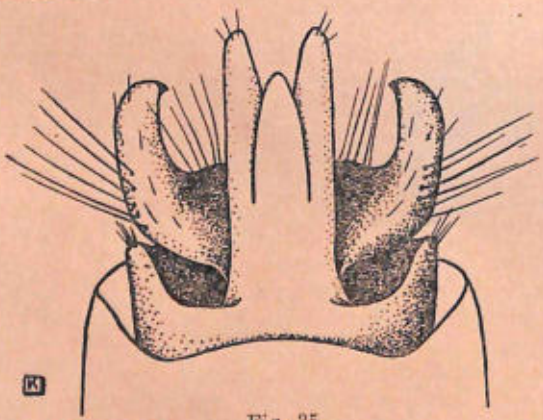


Fig. 35.

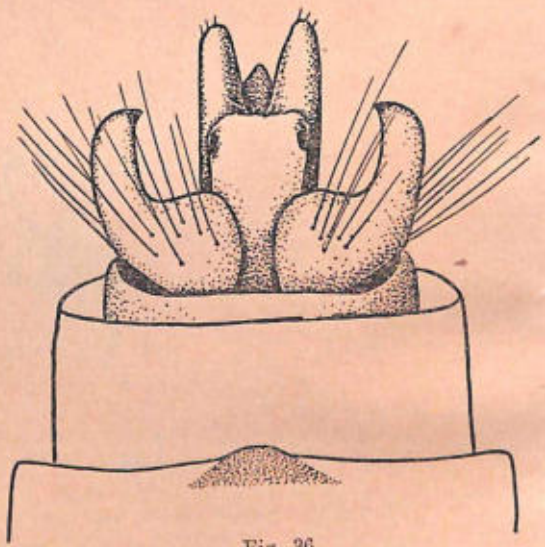


Fig. 36.

Limnocentropus fletcheri sp. n. ♂.

Fig.—34, genitalia lateral; 35, dorsal; 36, ventral; 37, wings.

inward; from the side there is a projecting angle on the lower margin towards the base; the upper margin is convex and the appendage terminates in a slender finger. The margin of the seventh ventral segment is produced at its centre to make a short wide process which is strongly pigmented so as to give an exaggerated idea of its size.

Length of anterior wing ♂ 10 mm.

Habitat.—Sikkim. 5,000 ft., 18-30 April, 1922.

Type ♂ in the collection of the British Museum.

I have pleasure in dedicating this species to Fleet-Paymaster T. Bainbrigge Fletcher, whose extensive collection of *Indian Trichoptera* forms the basis of this series of articles.

(*To be continued*).

A DESCRIPTION OF THE NOTODONTID MOTH *DUDUSA NOBILIS* WALKER, AND ITS EARLY STAGES.

(With a Plate showing figs. 1, 2, photographs of male and female imagines respectively; fig. 3, the larva; and fig. 4, the pupa).

BY

T. R. BELL, I.F.S. (Retd.).

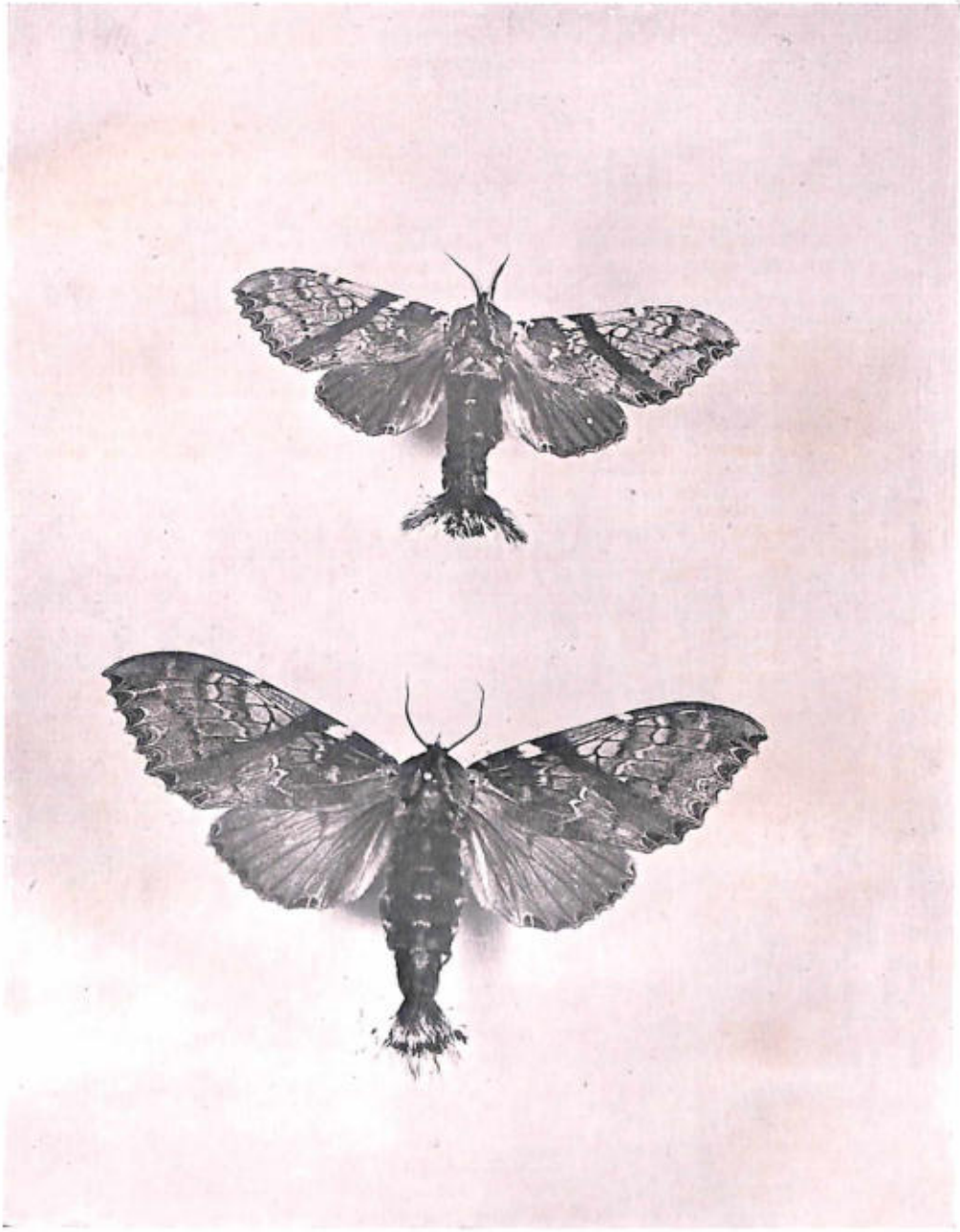
(With two plates).

Imago.—Female antennae and frons of head dark-brown; thorax ochreous buff; mesothorax with a pair of dark-brown tufts; abdomen with long and large tuft of bob-ended hairs from end segment, brown with medial and lateral rows of pale spots. *Upper side*: Forewing ochreous, outer marginal area ashy-brown; termen crenulate with dark, pale-edged lunules in the crenulations; a dark, submarginal and pale postmedial, crenulated line; a dark-brown fascia from the middle of costa to outer angle; a triangular, brown patch on inner margin and at base of wing; two white patches on costa. Hindwing smoky brown with darker brown marginal lunules. *Under side*: Both wings pale brown with the marginal areas pale buff on which there are dark lunules; traces of crenulate median and submarginal lines; a dark spot at outer angle of cell of hindwing. Thorax underneath dark brown; of abdomen ochreous with brown markings. Legs brown; hind leg with a white spot at end of femur and tibia. Male similar to female; two white patches at costa with an additional white patch at base of forewing. Hindwing darker than in female. *Exp.* 99 mm. for female, 77 mm. for male.

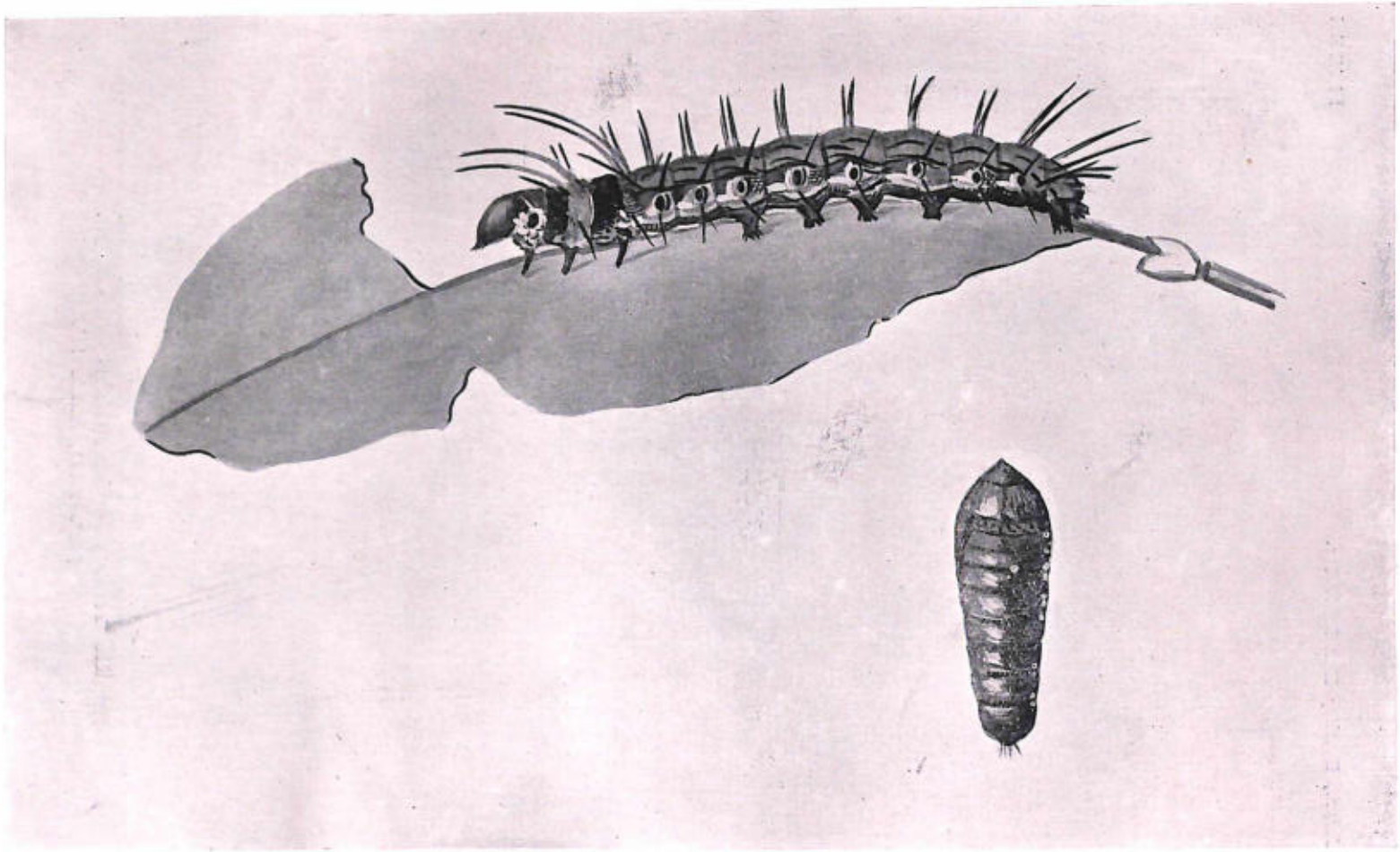
The above was described from 20-year old specimens. In fresh examples the dorsum of abdomen is deep black as well as its terminal large tuft; the upper side of hindwings is also darker in the new specimens.

The moth sits at rest with the wings tightly folded against the body and the abdomen sometimes considerably upturned. It is impatient of light and flies after dusk. It is certainly not attracted by artificial light.

Larva.—Cylindrical in shape, slightly thickest in the middle, the segments well distinguished; anal segment rather convex, short, nearly semi-circular; 13 large and with its dorsal line slightly more inclined than that of 14, at an angle of about 45° to the longitudinal axis of the body; all prolegs and anal claspers developed in the normal way, their shanks rather cylindrical, brownish-red, ankles the same, the feet short; true legs stout, red. *Head* large, 8 mm. in diameter for the maximum breadth of body of 10 mm.; the surface minutely granulate, closely so, except on face where it is more sparsely so, shining, the hairs very minute; the colour, of a sealing-wax red colour, tinged brown; it is hardly bilobed but there is a slightly depressed, dorsal line; true clypeus one-third height of face, triangular, apex rounded, a slight constriction towards middle of sides, false clypeus half height of face, apex acute, broadening out from base upwards; labrum and ligula shining-black, thick and chitinized, the latter somewhat longer than former which is one-third length of true clypeus, the labrum with a deep-impressed, dorsal line and depressed, lateral areas near hinder margin; the ligula semi-circular with a deep, triangular sinus, its surface uneven; mandibles orange-brown, the ends broadly black, the cutting-edges entire; basal joint of antenna black, third dark-rusty, both shining; eyes arranged: the uppermost 2 diagonally placed behind the three 3, 4, 6 which are in a straight line, numbers 1, 2 close together, 3, 4 twice as far apart with 3 this distance from 2, number 6 twice as far below 4 as 4 is from 3, number 5 behind, forming an equilateral triangle with 4 and 6; all these eyes small, the line joining centres of 1 and 2 being really at right angles to that joining centres of 3, 4, 6. *Surface*: smooth and dull with the following stout, long, simple, yellow spines with black ends, that are perpendicular to the surface, some of them being slightly curved: one subdorsal, one supra- and one sub-spiracular to each segment 3 to 13; two small red-brown ones under the subspiracular ones of 5 and 6, one above the other and a single one in the same position on the other segments (on base of proleg or true leg or otherwise); a curved, dorso-lateral, extra spine on segments 3, 4, 13; segment 12 has an extra minute, subdorsal one near the hinder margin; 14 has six short, stout, red-brown, round hinder margin as well as a subdorsal-central one; segment 2 has a comparatively short, black, supra-spiracular spine and a very short, sub-spiracular one. *Spiracles* large, broadly oval, dull-black, flush, about



The 'Yellow Peril' Moth (*Dudusa nobilis* Wlk.).
(Male above, female below.)



The larva and pupa of the 'Yellow Peril' (*Dudusa nobilis*, Wlk.).

one-seventh of a segment-length long and the width is more than half the length. *Colour* of body is clear canary-yellow; a brown-red, long collar dorsally to segment 2 with the anal flap, prolegs and claspers and a patch in front of and above each spiracle the same; spiracular region streaked shortly and longitudinally fairly closely with thin, black lines; a white, irregular, somewhat interrupted, sub-spiracular band that is about as broad as a spiracle is, this band wanting on 3, 4, 13 to 14; the whole of the anterior halves of dorsal somites 3 and 4 are velvety-black whence there is a thin and black, dorsal line to the hinder margin of 12; another short, also thin, black line from a dorsolateral point on front of each segment 4 to 12 to just below the base of the subdorsal spine and another on the same segments from just above that spine to hinder margin, as well as a third, twice gently waved, laterally bordering the lined spiracular area; all the subdorsal and lateral spines, except those of 3 and 4, are canary-yellow with the end half or third black; the supra- and sub-spiracular spines are wholly black; the rest are brown-red. Subdorsal spines of 10, 11 are slightly smaller than the rest. Length 85 mm.; breadth 10 mm.; the head 8 mm. in diameter; length of dorso-lateral spines of 3 and 4: 14 mm.; of subdorsals of all segments: 7 mm.; of supra- and sub-spiracular spines: 6 mm.; of others: only a few millimetres.

Pupa.—Somewhat club-shaped but very broadly, stoutly so, the greatest breadth from shoulders back to 7 whence the diameter decreases gradually to anal end which is hemispherical, the base of hemisphere quite 7 mm. in diameter compared to a maximum body-breadth of 15 mm.; segment 14 is a very flat plate or cap ending the abdominal cone with a row of six small cones, simple and without hooks, transversely across its middle; 13 has a row along hinder margin of some twenty small, laterally-flattened teeth, the two end ones being the smallest; these teeth are like short-oblong cogs standing perpendicular to the surface and are on the front margin of 14 also, tight up against the corresponding ones of hinder margin of 13 and are somewhat round-topped, with the tops grey-velvety; the row of 6 cones of 14 are really well in front of the apex of the cap; the clasper scars show as a lump ventrally of abdomen end, with a longitudinal, central, depressed line; segment 14 ventrally in the female pupa is prolonged triangularly forwards through 13 and the hinder margin of 12 with a small, longitudinally-elongate pit touching the apex of the prolongation; 12 is just under 3 mm. long while 13 is 1 mm.; segment 11 is 4 mm. with the front margin longly and evenly bevilled to the common margin of 10-11, its surface in no way distinguishable from the remainder of the segment-surface; 10 is 5 mm., its hinder margin (the same as those of 8 and 9) more steeply bevilled than front margin of 11, the surface of the bevil rather closely granulate-rough and abruptly limited frontal from rest of segment; 7=8=9 in length and the front bevils of 9, 10 are identical with that of 11; segment 6=12, about 3 mm.; segment 5 is just about half 6 and equal to 4; the thorax is 7 mm.=5+6+7 together, its hinder margin coarsely, smoothly beaded, the beads 18 in number, each side decreasing in size from a subdorsal, large bead and this hinder margin of thorax is an extremely slightly curved line meeting the wings in a very broadly-rounded angle of 120°, its front margin straight, curved forwards on each side slightly to spiracles of 2, its dorsal line very distinctly and coarsely low-carinated, inclined to the longitudinal axis of the body at 75° in front third, this inclination gradually decreasing backwards over 4, 5, 6 to become parallel to axis in 7; segment 2 is 3.5 mm. long, convex both ways, the dorsal line carinated like the thorax, the front margin straight, the whole segment twice as wide as long, the margins meeting in points at spiracles; and it is in a plane at right angles to the axis, quite perpendicular that is. *Head* with vertex in the same plane as 2, narrow between the bases of antennae, the frons nearly ventral, a prominent, narrow strip between eyes, transversely rounded and very deeply divided throughout its length by seven cross-lines; the mandibular pieces are prominent-uneven, rather large between the eyes which are corrugated on front half, rather smooth behind, the two halves divided by a linear, nearly straight, depressed crescent-line; the clypeus is a trapeze-shaped piece with the frons-prominence running on to its proximal half; proboscis reaches middle of wings, the fore legs ending a little beyond one-third length of wings, the mid legs reach two-thirds length of wings; antennae end between fore legs and end of proboscis; the ends of hind legs are visible as a triangular, medially-divided piece between the triangularly-separated apices of wings.

Surface of wings is shining, the legs, proboscis and its halves and antennae are limited by depressed lines, the veins are just indicated and it is superficially and rather coarsely lined like cracked lacquer; the head as described for eyes and frons; 2 smooth except for dorsal carination; thorax transversely, somewhat-irregularly corrugated; abdomen rather like the thorax but superficially pitted besides, front and hinder margins superficially longitudinally parallel-lined for a short distance, segment 8 with front margin much more prominently similarly lined; segments very distinct, abdominal segments 8 to 11 even constricted at margins; no sign of larval hairs but the spines have left representing scars. *Spiracles* of segment 2 indicated by the hinder margin of 2 being wide-curvedly but shallowly emarginate in front of the slit, the thorax having a corresponding segment of a circle, twice as long as broad on front margin to fit into the emargination of 2, both these very slightly thickened, both thickenings rugose, the transverse length of the arrangement about equal to one of the remaining spiracles which are all very large, velvety fawn-coloured, parallel-sided, round-ended ovals, fully four times as long as broad, the length equalling about half a segment-length (leaving the bevilled margins of 8 to 11 out) long, the margins of the fawn-colour bounded by a thin-raised border that is the colour of pupa and there is an obscure surrounding, flush oval space broader than the spiracle but the same length upon which the whole is placed and a central slit to the fawn-coloured part. *Colour* of pupa nearly black, the surface not very shining. Length 42 mm.; breadth 15 mm. at middle; 9 mm. at 12.

The spiracles, of 2 sometimes show velvet-brown, longly oval in between the roughened surfaces; segments 4, 5 are sometimes obscurely carinated in dorsal line; the pupa is always somewhat swollen in 6, 7 and 8; the ventral line is practically straight.

Habits.—The larvae are generally found high up on trees of Sadagi (*Schleichera trijuga*, Willd.) in the big jungles of the line of the Western Ghats in N. Kanara District; and more particularly in evergreen areas. They lie on the undersides of leaves, eating the mature ones, hiding in the thicker bunches. I have discovered the majority of them after the first introduction, by the presence of droppings on road-surfaces but, finally, did a day or two of systematic hunting and got a satisfactory number. The first specimen was brought in many years ago by one of my servants who fetched it down with a stone from the very top of a high tree, a really good shot. Needless to say he was more or less a boy. The caterpillar was badly damaged and of course died; but the introduction had been effective and all the more exciting because the larva is of a very unusual type and a fine thing to look at. We christened it the Yellow Peril. The larva descends to the ground to pupate well below the surface of the soil in an earthen cell, smoothed on the inside but unlined with silk. The pupa is not fixed in any way inside. Five larvae went down in October and the first imago emerged in the month of June of the following year. Larvae are to be found every year from July to January of the next. I was first introduced to it in 1900; got the first larvae in 1906 and bred moths from that date to 1910. I wrote the first description of the larva on 8-11-1906 and the pupa on 19-12-1907. I have never seen a wild moth and the species usually must be very rare. It occurs in N. China, Khasis, Malacca, Celebes, and, now, in the Western Ghats, Bombay in the N. Kanara District.

The food tree is a common deciduous species in the Kanara jungles, occurring at all heights from sea level up and is perhaps commoner in the area covered by deciduous forest than in evergreen ones. Its Kanarese name is Sadagi but it is more widely known by the Mahratti name of Kusumb or Kosamb. It is also known as the Ceylon Oak according to Talbot and has been called the Travellers' Friend because it is one of the very first to break out into new leaf in March at the beginning of the hot weather. It then is a conspicuous object amongst its leafless companions owing to the young leaves being bright red, varying from delicate pink to nearly blood-colour and from occurring in small groups on nearly all hillsides (also on the flat and along the roads). The foliage finally all becomes green. An essential oil is obtained from the seeds and is the basis of the well known 'Macassar' hair-oil. The timber is hard, so hard that woodcutters object to felling the tree; which does not, however, prevent villagers from exploiting it to make sugar-cane mills with.

RHINOCEROS SHOOTING IN BURMA.

BY

W. S. THOM.

(*With one plate*).

Two species of rhinoceros, the Sumatran or double-horned rhinoceros (*Rhinoceros sumatrensis*) and the Javan or single-horned rhinoceros (*Rhinoceros sondaicus*) are said to exist in Burma. *R. sumatrensis* is the smallest known living rhinoceros and the most hairy, whilst its height seldom, if ever, exceeds 4 ft. 8 or 10 in. at the shoulder.

THE JAVAN RHINOCEROS (*R. sondaicus*).

I have shot several *R. sumatrensis* during my wanderings in Burma, but have never come across *R. sondaicus*, nor have I ever met anyone in Burma who had ever shot one. In fact, until a few weeks ago, I was under the impression that this animal had been long since exterminated and that it was not to be found anywhere in Burma at the present time. It seems, however, that I am wrong. We know, however, that it has recently been obtained in Sumatra where it apparently exists in fair numbers. It was formerly thought that only a few specimens existed in Java and the Malay Peninsula, and possibly in parts of Siam and Burma. This species was, however, originally described from Sumatra, but it has been a matter of doubt whether it still existed in the island.

Mr. G. C. Shortridge in an article entitled 'The Asiatic two-horned Rhinoceros (*R. sumatrensis*)' in the Society's *Journal*, vol. xxiii, No 4, p. 772, dated 25th May 1915, says, 'Besides the rhinoceros I shot (which was an example of *R. sumatrensis*), I have only heard of two other instances of a Rhinoceros being shot near Victoria Point by a European, one of these specimens, of which I have seen the skull, was *sondaicus* obtained some years ago by Captain McCormick, a former planter in the district, etc.' Mr. Shortridge says nothing more about *R. sondaicus*. As Mr. Shortridge was collecting for the Bombay Natural History Society, I take it he is an authority and knew what he was talking about when he identified the skull of the animal shot by Capt. McCormick as belonging to *R. sondaicus*.

Mr. E. H. Peacock, District Conservator of Forests and Game Warden, Burma (retired), in his book, *A Game Book for Burma and Adjoining Territories*, published in 1933, states that the height of a mature specimen of the Javan rhinoceros (*R. sondaicus*) is probably about 5 ft. 6 in. or roughly a foot higher than the Sumatran rhinoceros. Mr. Peacock says, "The best-known grounds used to be the forests of the Victoria Point Subdivision in Mergui District.* * * In this Subdivision the Javan rhinoceros was reported by all local hunters and guides to frequent heavy

evergreen forests on flat or comparatively flat ground. It was supposed never to ascend high into the hills: i.e., into the typical habitat of the Sumatran rhinoceros.

"The forests of Victoria Subdivision undoubtedly held, at one time, a very fair number of Javan rhinoceros, but these have long since been poached out of existence for the sake of the valuable horn and blood which to realize an even greater price than that of the Sumatran rhinoceros.

"There are said to be four specimens of the Javan rhinoceros existing in the Kahilu Game Sanctuary in the Thaton and Salween Forest Divisions. Indeed, this Sanctuary was established mainly for their protection. These specimens are reputed to ascend hills in the manner of the Sumatran rhinoceros and, since they appear never to have been seen by any reliable authority, it is somewhat doubtful whether they are actually Javan rhinoceros or not." The fact that *R. sondaicus* does exist in the Sanctuary has however been since confirmed. Through the courtesy of Mr. S. F. Hopwood, Chief Conservator of Forests, Rangoon, Burma, and Mr. F. Allsop, Assistant Conservator of Forests, I have received an interesting letter dated 15th February 1935. Mr. Allsop writes that there is no doubt whatever that the rhinoceros inhabiting that area are *R. sondaicus*, Mr. Allsop spent about three weeks in the Kahilu Sanctuary and had the luck of actually seeing one rhinoceros at a distance of about 50 yards. It was in thick vegetation, but he was able to see the animal sufficiently clearly to say that it carried one horn about 9 in. long, set back slightly from the tip of the snout and that it was about 4 ft. 9 in. to 5 ft. at the shoulder. Mr. Allsop adds, that on two occasions within recent years, the dead bodies of female rhinoceros have been found in the Kahilu Sanctuary and that one was definitely identified by the Bombay Natural History Society as *R. sondaicus*. The skeleton of the second one was under examination at the time Mr. Allsop wrote and he has not been informed yet of the result to date i.e. 15th February 1935. Mr. Allsop has come to the conclusion from the tracks he has seen in the reserve that there were not less than six rhinoceros in the area in question, five being adults and one a calf.

Mr. Allsop has concluded from his own observations that the favourite foods of these animals are:—

(1) Leaves and stems of 'Suyit', *Acacia* sp. probably *A. pennata*, a climber.

(2) Leaves, stems and fruit of *Zizyphus glabra*, a thorny climber.

(3) Leaves and stems of *Cenocephalus suaveolens*.

(4) Leaves and twigs of *Trema orientalis* a very soft wooded tree common in secondary growth after shifting cultivation.

(5) Fruit of *Dillenia indica* (Bur.: thabyu).

Bamboos and grasses are eaten only to a very small extent, if at all. In addition to the food plants recorded above the same keeper of the Sanctuary states that the animals eat *Cudrenia pubescens*, *C. javanicus* (Bur: Sinswe Su), *Ficus pomifera* (Bur.: Kaaung), *F. hispida* (Bur.: Kadut), *F. hirta*, *Mallotus albus* (Bur:

Petwaing), *Erythrina lithosperma* (Bur.: Kathit) and *Homonoia riparia* (Bur.: Momaka).

Mr. Allsop in his letter goes on to say that there are a number of wallows many of them of long standing and that they are situated near the sources of permanent and semipermanent streams in the evergreen forest. The animals seem to visit them somewhat irregularly and capriciously. They appear to prefer to wallow fairly early in the morning, i.e., between 6 and 8 a.m. not in the heat of the day. The fragmentary evidence Mr. Allsop was able to collect indicates that they do not wallow daily but only once in three or four days and that individual wallows fall into disfavour and go out of use for a year or two at a time and are reopened later. No large deposits of dung were noticed, the rhinoceros evacuating almost anywhere with a slight preference for the pools of small streams. They do not return to the same place time after time as some species of rhinoceros are said to do. In view of the statements made by Mr. Shortridge and Mr. Allsop, and the definite identification of a skull by the Bombay Natural History Society there is no alternative but to accept the evidence that *R. sondaicus* does exist in Burma.

Sumatran or Two-Horned Rhinoceros (*R. sumatrensis*).

My experience of the Sumatran rhinoceros over a great number of years, during which I have, I suppose, seen quite fifteen or twenty of these animals at close quarters, has been that they are as active as goats and are really expert hill climbers. They will even negotiate country that neither bison nor elephant could possibly surmount. I have also found them on hills up to 4,500 ft. The Sumatran rhinoceros, although the hills are his proper habitat, occasionally descends to flat country especially towards the end of the rains, and remains there sometimes for long periods, till January and February, when there is still plenty of cover and mud and water to be met with everywhere. By March, as a rule, they are all back in high evergreen forests again. It is very rarely seen in the plains, so far as Arakan is concerned, during the hot weather months i.e. from March to June. Like pigs they sometimes wander about aimlessly for miles. I knew of one animal that descended from the hills and ravaged for several nights in succession a sugar cane plantation situated on the banks of the Kaladan River in Arakan between the Kyauktaw and Kaladan police posts. This happened during October, November and December, when the jungles are denser and damper than at any other time. It was often seen bathing in the Kaladan River by moonlight, by the people going up and down the river in dugouts.

Mr. Shortridge, in the same article referred to above, is mistaken in saying that *R. sumatrensis* 'apparently do not care for clear running streams and are said only to visit the low ground during the hot season when their drinking pools in the hills have dried up'. As a matter of fact, I have found *R. sumatrensis* at the top of the steepest of hills frequently drinking and wallowing in clear hill streams year in and year out at elevations varying

from 1,500-3,000 ft. with not a vestige of mud or muddy water to be found for miles around except on low ground at the foot of the hills near permanent streams. The majority of the clear water hill streams in the Arakan Hill Tracts never seem to dry up.

I would state here once more that for such a clumsy looking animal, the Sumatran rhinoceros is an extremely active animal and a wonderful hill climber. On numerous occasions, when following their tracks I have had to hand over my rifle to a follower and climb up hand over hand steep banks that a Sumatran rhinoceros had ascended. Their tracks in the hills are generally most difficult to follow, especially when the ground is hard, or when it is covered with a thick layer of dead bamboo leaves. Should tracking be interrupted by a heavy shower of rain the bamboo leaves swell out, then the front or centre toenail impressions of the forefeet, which are usually the only marks that are visible on the ground are invariably almost obliterated. All rhinoceros have three toes on the fore and hind feet, unlike the Tapir (*Tapirus indicus*) which has four toes on the front and three on the hind feet.

Of all the wild animals in Burma I should say that the rhinoceros, the tapir and the takin, avoid the presence of man most and are therefore usually found further from villages than any other animal. I understand, however, that in the Kahilu Reserve rhinoceros have been feeding on chillies cultivated by the villagers. There is also the instance of *R. sumatrensis* which was found in Arakan in a sugar cane plantation situated on the banks of the Kaladan River not far from a village. There are always exceptions in every case for there can be no doubt that a rhinoceros is a very shy animal and usually avoids man. The rhinoceros's senses of sight and hearing are very poor, but its sense of smell is very acute. A rhinoceros once it has been disturbed is very difficult to come up with again unless it enters one of the mud wallows or swampy depressions. These wallows are frequented at odd times but especially during the hot weather months from March to June, when the gad or horseflies worry fourfooted animals most. I have watched herds of *Tsaing* (*Bibos banteng birmanicus* Lyd.) trotting along through the jungle during the heat of the day, as if the devil was at their heels, surrounded by clouds of gad flies and shaking their heads from side to side and snorting in their efforts to shake off their relentless tormentors. Most wild animals especially bison and tiger endeavour to lie up in the thickest cover they can find during the heat of the day in order to escape being bitten by these flies whose bites draw blood and cause intense irritation. Rhinoceros do not usually lie up during the day in very dense jungle. *R. sumatrensis* may be found lying asleep during the day either in a mud wallow, or at the foot of some shady tree or bamboo clump in fairly open jungle on top of some ridge, or hill, where he may catch any breeze that may be blowing. Most animals, especially bison, sambar and even elephant, like lying up for the day during the hot weather on some ridge to take advantage of the breeze during the heat of the day. I have, however, found old solitary bull bison, tsaing, elephant and even rhinoceros, seek the densest cover they could find, when their enemy—man—

had been hunting them persistently. The Sumatran Rhinoceros very seldom deposits its dung in the same spot daily. As a matter of fact, they seem to me to only do so when they accidentally cut across their own tracks at a spot where they have previously evacuated. The odour of the droppings, even though not their own, seems to attract the animal's attention and causes it to halt and evacuate on the same spot. It is not a regular habit. *R. sumatrensis* evacuate, sometimes when crossing a stream as do horses and elephants. *R. sumatrensis* change their feeding grounds generally once every ten or fifteen days. Sometimes, if the locality is a quiet one, far from the haunts of man and there are plenty of shrubs for them to browse upon, they remain in one place for nearly a month. I found that they generally fed along steep, well wooded valleys and also along the steep banks of well wooded mountain streams. The majority of these streams, so far as the Arakan Hill Tracts District is concerned, are full of rocks, high waterfalls and dense bamboo and cane jungle. In these rocky hill tracts there are no wallows. I noticed, however, that the animals in such places invariably had their baths in natural pools at the foot of waterfalls. Fine gravel and stones form the beds of these pools but there is no mud whilst there is usually about two or three feet of water in them. When feeding near these mountain torrents Rhinoceros just bathe, where it suits them, i.e., where there is sufficient water to cover their bodies when they roll about in it. The approaches to these mountain pools are very steep and inaccessible. The climbing one has to do when hunting these animals in these places, is really prodigious. One had often to make long detours to get round a succession of precipitous waterfalls, as it was quite impossible to ascend or descend most of the beds of the streams. We invariably carried about 50 yards of stout rope to enable us to surmount these waterfalls and steep ascents. One had also to be in the pink of condition to be able to keep going all day over the most trying country to be found anywhere in the world. These remarks apply more particularly to all the ranges of hills which skirt the Ru, the Lemro and the Peng Rivers in Arakan, where Sumatran rhinoceros are still fairly plentiful and which tracts of country ought, in my opinion, to be entirely reserved as sanctuaries by the Forest Department. The Ru stream is already a reserve, if I mistake not. The only other part of Burma where I found the Sumatran rhinoceros fairly plentiful was in the Yoma range of hills along either side of the watershed running between Arakan and the Thayetmyo District, inland from Kama and Mindon. They were also common along the Shwe-U-Taung range of hills in the Momeik State of the Ruby Mines District, but neither in the hills between Arakan and Thayetmyo or in the Shwe-U-Taung range did I find these animals in such inaccessible places as I found them in Arakan, especially in the steep hills which skirt the Peng and Lemro Rivers near Pengwa. I suppose they had been hunted so persistently and ruthlessly in Arakan by the hill tribes that they were finally driven to occupy these inaccessible places. When I was shooting along the watershed between Arakan and Burma, I noticed that *R. suma-*

trensis invariably made their wallows at the source of streams and in springs as near the top of the watershed as possible. Discarded wallows at lower elevations dry during the hot weather and are used again during the rains. An *R. sumatrensis* may have half a dozen or more wallows which it knows of and which it visits at odd times according to their dry or wet condition but it does not necessarily have a daily mud bath. These wallows are often enlarged by pigs as well as by elephants. A rhinoceros like a pig and a buffalo must have his bath, be it of mud, or of water. I have seen elephants also rolling about in the mud of a wallow to give their bodies a coating of it so as to protect their sensitive skins from the bites of flies and mosquitoes. Rhinoceros in the parts of the country about the Peng and Lemro Rivers often fed on anything green they could get. They must have been hard put to it at times to get anything really succulent to feed upon at all in these steep inhospitable bamboo clad hills. Except for an occasional small patch here and there, all evergreen forest seems to have been destroyed for cultivation purposes by the hill people by their wasteful system of felling timber and burning it. If it were not that the bamboo is a strong healthy shrub there would soon be none left either. Nothing for miles around can be seen but the *Kayinwa* bamboo (*Melocanna bambusoides*). *R. sumatrensis*, like most herbivorous animals, is very fond of the flower and fruit of this bamboo. This bamboo, as is well known, flowers and fruits once in thirty or forty years and then dies. I have seen thousands and thousands of acres of this bamboo laid waste at flowering. Nearly every junglecock for miles around seems to congregate in these areas when the seedlike flowers are on the stems or falling on the ground. There is also a kind of caterpillar at that time on the stems which seems to attract bird life to these areas.

The extraordinary thing is that there were no hens visible, only cocks. Either the caterpillars or the cornlike flowers of the bamboo, or both give them food. Many animals also gathered in these flowering patches of bamboo to gorge on the pearshaped fruit. I have known of village cattle gorging themselves on the fruit to such an extent as to die subsequently from the effects of overeating. After the bamboos wither and die, animal life disperses bamboo and there is an emigration of hordes of field rats. Where the bamboo has flowered and died wild plantain *Musa textilis* spring up everywhere in its place for acres and acres. Where does the seed of this plant come from? Has it been lying dormant all these years? Once the bamboo fruit takes root and springs up again the *Musa textilis* disappears. The strange thing is that this phenomenon is generally followed by epidemics of smallpox, or cholera, especially amongst the hill people. They are deprived at the same time of their food supplies in the tender bamboo shoots and are also unable, owing to the scarcity of bamboos, to make dah handles and mats or rebuild their houses which are usually constructed of bamboo. I could write more on this interesting subject but we are talking about rhinoceros, not bamboos.

R. sumatrensis also feeds on a kind of long, feathery looking

Asiatic two-horned Rhinoceros (*R. sumatrensis* Cuv.).

The author's best Asiatic two-horned Rhinoceros (*R. sumatrensis* Cuv.).

grass called *pyaung-sa* or *kyan-sa*, bamboo leaves and shoots, prickly shrubs and creepers and the leaves of several species of plants with reddish coloured soft hairy leaves and stems found in certain localities in the hills or in the valleys and along the banks of streams. I am afraid I am not a botanist like Mr. Allsop so cannot give any botanical names.

Rhinoceros are generally found feeding very early in the morning and after sunset, and like the Tapir (*Tapirus indicus*), are more or less nocturnal in their habits. A rhinoceros is just like a big pig. He wanders about everywhere, north, south, east and west, as the spirit moves him. Once he has been disturbed or decides to change his feeding grounds, it is almost impossible to overhaul him. He travels at a quick walk for miles over the most abominable country imaginable until he reaches the desired spot. These animals could be easily run down and brought to a standstill with dogs as, in the hot weather, they do not stay very well once you have got them on the run; they invariably pull up every mile or so. I have never used dogs for this purpose of course, but I have almost been able to run down a rhinoceros on foot by keeping steadily on after him at the double mile after mile. It was hard work, but in those days I was as hard as nails and could stay for ever. When rhinoceros are hard pressed and thoroughly alarmed I have heard them utter loud whistling braying sounds in different keys, not unlike the braying of a donkey. At other times when I have followed and come up with an animal, it usually uttered a terrific snort not unlike that uttered by a large boar or gaur (*Bibos gaurus*) before galloping off after being disturbed. Rhinoceros also make a peculiar humming or buzzing sound when submerged in their wallows, especially when they have been chased or are tired and have just finished a long journey. It is partly a sign of exhaustion and partly a sign of satisfaction at being immersed in cool mud and water.

The carcase of a Sumatran rhinoceros is worth, to a Chinaman or Burman, nothing under a thousand rupees. The blood especially, if drawn straight from the heart, is valuable. It is dried slowly in bamboos over a fire and sold for almost its weight in gold. The horn again is more valuable than the blood as it is ground down, mixed with other drugs and used as an aphrodisiac and as a sovereign remedy for all sorts of ills. The Javan and Sumatran rhinoceros are considered of particular value for medical purposes by the Chinese and Burmese. The Chinese seem to know more than any other race about the uses to which the blood and horn of a rhinoceros can be put to. Fortunately the Burma Government have prohibited the shooting of rhinoceros in Burma altogether. There is no doubt that these animals are being slowly and secretly exterminated in the hills of Arakan by the wild tribes who come up and spear them in their wallows during the heat of the day. No one can tell what goes on in the Thayetmyo Yoma hills between Arakan and Burma as the Forest Department are under staffed, but the sooner some one is sent to keep an eye on the rhinoceros in the Arakan Hill Tracts the better.

Burmans can distinguish, as can any sportsman of experience,

between a male and a female rhinoceros when following their tracks by noticing the way the young saplings, creepers or the branches of bushes have been twisted by the animal's horns as it moves along when feeding. A female or male with a short horn, according to the Burmese hunters, cannot do any twisting of branches, twigs and creepers. The more twisted the creepers, bamboos and branches appear, the better the chances of coming across an animal with a good horn. Another way of distinguishing the tracks of a female and male, there being very little difference in their size and appearance, is by carefully noting the positions of their droppings or dung. In the case of a male the ordure and urine will be found on the ground exuded one behind the other, a foot or two apart, whereas in the case of a female they will be found more or less together, or scattered over the bushes in the immediate vicinity at heights of from three to four feet. The urine of a female as seen by me on several occasions was of a pale pinkish colour. The male rhinoceros, when twisting bamboos, young saplings, and creepers, with his horns does so with the object of either cleaning or sharpening them or simply because of the pleasing sensation gained by the scratching. Perhaps it may be done as a challenge or from pure cussedness or sheer *joie de vivre*. Bison and tsaing and ordinary domestic cattle often tear up the ground with their hoofs and horns or rub them on the branches of trees or saplings for no apparent reason as do deer occasionally even when they have no velvet to get rid of, simply I take it, because the rubbing sensation pleases them. It may be of course a sex desire. Burman hunters have often told me that all big game are more restless, on the *qui vive*, and more truculent when the moon is on the increase and nearly full. Many races in India believe that a man is at his best when the moon is fullest.

One rarely comes across a young rhinoceros. During the 49 years I have been in Burma I have never seen either a young rhinoceros or the tracks of one. Burmese hunters say that rhinoceros bends its head to clear its path of obstructing jungle and heaves dead logs etc., over its back as it proceeds. These fall on the youngster following on the heels of its mother, and so kill or maim it. Hence the scarcity of young. This of course is a myth and can hardly be accepted as a true reason. I referred to this subject in the *Indian Field* sporting paper of September 30, 1909, in a long article entitled 'Notes on the Tapir (*Tapirus indicus*) and Rhinoceros (*Rhinoceros sumatrensis*).' The *Indian Field* became defunct a number of years ago. The real reason perhaps why rhinoceros are so scarce is because they have been so systematically and relentlessly hunted now for years past in all parts of the country where they eixst. The people are also well aware of the great value of the animal's blood and horns. The result is that the males are shot more frequently for the sake of their horns than the females which have small inferior horns, and as rhinoceros were never prolific breeders at any time, their chances of producing young ones are considerably lessened in consequence.

Rhinoceros get to their feet when disturbed and dash away at a much greater speed than would appear to be possible for such a heavy, clumsy looking animal. With a few exceptions, they, like all the other jungle animals of India and Burma, periodically visit salt licks where the earth and the water are slightly impregnated with salt or potash. The reason for these visits does not appear to have been much commented on by sportsmen generally in any country, for these salt deposits, or animal health resorts are to be found in every country in the world as well as in India and Burma. From an inspection of the tracks leading to and from some of these salt licks there can be no doubt that they are more often visited by the deer tribe than by any other quadruped. In fact these animals seem to visit the licks almost daily. The elephant, gaur or bison (*Bibos gaurus*), and 'tsaing' or banteng (*Bibos banteng birmanicus*) come next, in the order named with a visit, of perhaps once or twice a week. Then comes the rhinoceros and the tapir with only one or at the most two visits a month. The moon seems to have a lot to do with these visits in the case of the tapir and the rhinoceros for they seem to come at full moon, and at the appearance of the new moon. There are regular beaten tracks leading to nearly all the most frequented salt licks and I have seen these pathways literally churned up into a sea of mud by the hooves of animals coming and going. It should be noted, however, that these salt licks are only popular at certain times of the year. There is a regular season when animals partake more freely of the brackish earth and saline water, while at other times there is a regular falling off in the number of visits paid by all the larger animals such as elephant, rhinoceros, tapir, gaur and tsaing. More visits are apparently paid to such licks between the months of December and June than at any other period. Some salt licks, which are more highly impregnated with salt deposits than others and which are situated in the heart of the jungle far from the haunts of man, are naturally frequented more often than those situated near villages and cultivation. During the monsoon, from July to October, most of the salt licks become inundated with water and then the earth no doubt loses, to a considerable extent, its saline properties and is consequently less palatable.

I am of opinion that animals partake of saline mud and water as an aperient when they wish to free their systems of parasitic worms which are found in the stomachs of both bird and beast the world over, and which, if not expelled before they multiply to any great extent cause great trouble and are also the means of disease breaking out amongst them. On more than one occasion I have observed these parasites among the droppings of elephants which have eaten the saline earth at these deposits. The large quantities of earth which an elephant will put away at one visit is simply astonishing. I once watched, at a distance of only about ten paces, an old tusker elephant pick up and shove, down his throat with his trunk, a quantity of this saline earth weighing quite thirty to thirty-five pounds before departing to drink at a neighbouring stream. At some salt licks only the water is drunk out

of pools which are sufficiently impregnated with saline matter. None of the cat tribe, i.e., tigers, leopards or cats, ever partake of the waters or eat the earth at a salt lick. Bears and pigs also do not visit salt licks. I have however, seen jungle fowl, pheasant and imperial, as well as green pigeon, and also the gibbon monkey sipping water at a saline pool. There is some mysterious fascination about a salt lick that seems to attract animals and birds to it whether they do or do not partake of the waters or salt earth there. Tiger and leopard of course prowl round salt licks on the chance of killing an animal for food.

Sitting up at a salt lick in India or Burma with or without electric contrivances is now strictly forbidden.

A rifle of any of the following calibres is good enough for use upon the Burmese rhinoceros viz. 500, 470, 450, 423 and 12 bore Magnum Explora ball and shot guns. I am of opinion that *R. sumatrensis* are not given to charging even when wounded.

My first experience with the Sumatran rhinoceros, was on the Shwe-U-Taung range of hills between the state of Momeik and the Ruby Mines District of Upper Burma. My hunters and I had struck the tracks of a Sumatran rhinoceros one morning at about 8 a.m. I was armed with a 12 bore hammerless ejector 'Paradox' gun firing a cordite charge and heavy conical bullets. With this weapon in one hand I could, if necessary, sprint several hundred yards after an animal without getting blown. My second weapon, which was meant to act as a stopper in case I should be charged by, say, an elephant or a bison, was an 8 bore rifle burning a charge of 10 drs. of black powder with heavy conical bullets of hardened lead. At 3 p.m., after we had taken many twists and turns through bamboo jungle and tree forests, up and down very steep hills full of giant stinging nettles, my best tracker, Maung Pe, suddenly turned round to me and pointing to some mud smears on the leaves and stems of the surrounding bushes whispered 'Sir, we are not far from a rhinoceros wallow—please keep a careful lookout ahead'.

After striking a match and blowing it out to see which way the smoke travelled, whether the wind was in our favour or not, I took the lead, and after travelling a matter of about 50 yds. or so and going round the base of a large ant hill surrounded by some low bushes, I suddenly heard a splash ahead and found myself within ten yards of a rhinoceros that had risen out of his wallow and was sitting on his hind quarters looking in our direction. Firing both barrels into his head in quick succession I sprang to one side in case he should charge along the path by which I had come. On receiving my shots, he dashed out of the wallow at a great pace, uttering a loud snort, the noises emitted by his feet as he withdrew them from the thick mud sounded like the withdrawing of corks from large champagne bottles. Thinking I had missed him altogether for he never flinched or showed any signs of having been hit, we followed on. After travelling 20 or 30 yds., blood was discovered on either side of his tracks which was a clear indication that one of my bullets had found its mark but, evidently without touching the brain. After going about a

quarter of a mile we came upon him lying down breathing stertorously. I then let him have a right and left with the Paradox as he faced us. I then saw that only one of my bullets had passed through his head. The anterior horn was small—being only about 12 in. in length, whilst the posterior was a mere horny protuberance (see Pl. upper photo). The animal was then cut up and the meat smoked over a large fire being subsequently divided among my men. I found the meat, if properly cooked, quite palatable. It was as good as beef at any rate if not better. It should be mentioned that not a scrap of any animal shot by me has ever been wasted. If my servants, camp followers and coolies did not consume it, villagers from the nearest village usually flocked in and scrambled for the remnants. The entrails, and even the bones and skin were taken away.

On another occasion, in the Ruby Mines District of Upper Burma, my hunter and I were tracking up a solitary tusker elephant which, judging by the measurement of its fore-feet impressions which taped 20 in. from toe to heel, indicated that the weight of ivory carried by the animal must have been in the neighbourhood of 70 or 80 pounds the pair. Unfortunately when we were about a mile to the rear of the animal it walked into a camp of Burmans who were engaged in cutting bamboos, and, after demolishing their huts and nearly catching one or two of the occupants had gone clean away. However, these bamboo cutters gave us the information that they had that morning seen—it was then only about 8 a.m.—the tracks of two rhinoceros which seemed to be travelling together. This was good news and it did not take us long to pick up their trail, and, finally, after following them for some time I suddenly caught sight of them entering a huge mud wallow in the side of a hill. One of the animals must have got a slant of our wind for he suddenly slewed round and cleared out of the wallow at a fast trot. The other, however, after staring about him stupidly for a minute or so, trotted in our direction. I waited till he came abreast of me, and at a distance of about 30 yds., I let him have a shot from the 8 bore. This did not stop him. He seemed to travel faster, if anything. We took up the tracks but could get no sign of blood. 'A clean miss, Sir, I am afraid', said Maung Pe. 'How could you have missed such an easy shot?' There was no doubt about it. I had clearly missed and there was no more to be said about it. I had no excuse to offer except to remark to him that even the most expert marksman occasionally misses. However, we took up the tracks again. It was a long stern chase. The time was about 10-30 a.m. We travelled all day on those tracks until rhinoceros tracks, stones, earth, bamboo clumps, bushes and trees seem to have been indelibly, photographed on the brain and in the retina of my eye. At about 5-30 p.m. I heard a peculiar, deep humming or buzzing sound, akin to the noise of wind passing through the feathers of the Great Hornbill (*Dichoceros bicornis*) as it beats through the air. 'The sound we have just heard', said Maung Pe, 'was made by a tired rhinoceros blowing or breathing in his wallow. There is no doubt about it. I have heard it too often to be mistaken now,'

Accordingly we pushed on cautiously and in less than 5 minutes we were at another wallow. So close was I standing to the mud hole that I could have easily inserted a ten foot bamboo into the mud beneath me. I could see a heaving mass of mud but could not make out which end was the animal's head and which the tail. Only a little bit of the yellow looking clay covered skin of its body was visible. This seems incredible, but is perfectly true nevertheless. As I was certain there was no possibility of my missing this time, I fired the right barrel of the 12 bore Paradox into what I took to be the centre of the body, it being impossible for me to tell where the animal's head lay, so deeply was it embedded in the mud. On the report it rose out of the mud, and, after spinning rapidly round in circles for a few seconds, dashed out of the wallow, making loud popping sounds with its feet as it pulled them from the mud. I knew there could be no mistake this time and that it was hit. It only travelled a distance of about 500 yards and when I came up with it, it uttered a long drawn out scream and expired. This animal I am sorry to say turned out to be a female. She had a mere stump of a horn.

On examination, I found that my bullet had passed through her lungs. According to Maung Pe, she was the same animal I had fired at that morning, as we found the graze of a bullet on her withers, which had cut the skin but had not drawn any appreciable amount of blood. I must say that her dying scream caused me remorse.

I shot my best *Rhinoceros sumatrensis* (see Pl. lower photo) on a range of hills bordering the Lemro River in Arakan at an elevation of about 3,000 ft. I was travelling up the Lemro River in dugout canoes to visit and inspect an out of the way police outpost situated at a place called Pengwa. A weird looking wild man of the woods from a neighbouring Chin village visited my camp on the river and informed me that he knew of a small pond or pool of water on the top of the range of hills above us which used to be visited frequently by rhinoceros in bygone years.

Next morning we started off at daylight for the top of the range of hills hoping that we might have the luck to come across a rhinoceros with a really good horn. I had been told that the part of the country we were about to visit had not been shot over by any Europeans or even local hunters for many years. I found the going steep enough in all conscience and I was soon bathed in perspiration. The men all carried small muslin bags or pads some five inches square, full of wet powdered tobacco, and whenever a leech got on to their legs they just squeezed a few drops of the juice on to it which immediately caused it to curl up and drop off. Salt or gunpowder is equally efficacious.

We reached the top of the hill at about 1-30 p.m. when down came a heavy shower of rain which drenched us all to the skin. This made things rather unpleasant, for the leeches gathered round us in battalions and attacked *en masse*. At about 3-30 p.m. after much wandering about in our efforts to find the rhinoceros's wallow I caught a glimpse of a small sheet of water through the bamboos. I at once took the lead armed with a single Westley

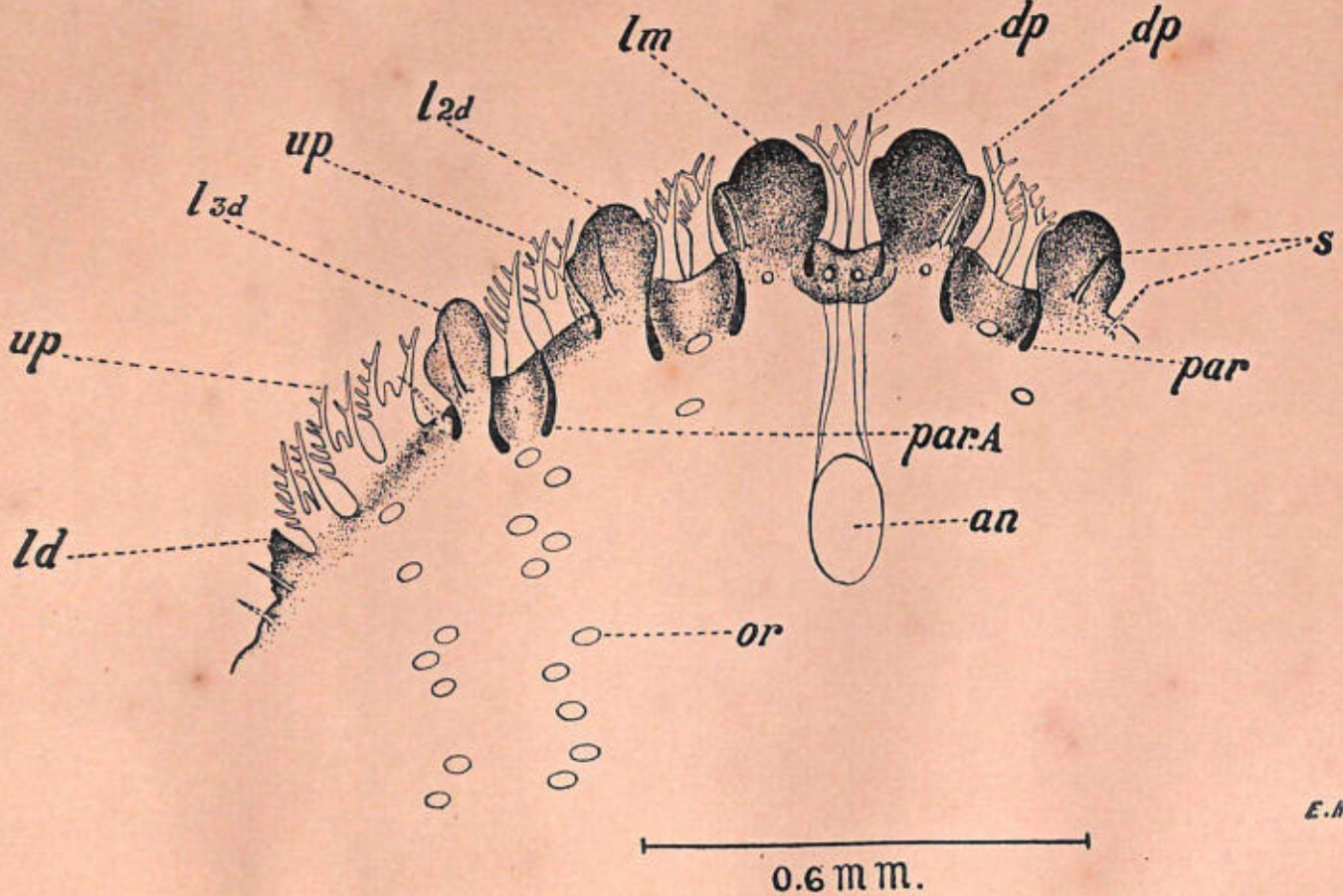
Richards 500 bore cordite rifle which burnt a charge of 80 grains of cordite.

My guide, the wild man of the woods, then whispered to me that the rain was bound to bring a rhinoceros to the wallow as the sun was shining brightly whilst it was hot, and the gadflies were in evidence everywhere. To cut a long story short I crept to the pool along an elephant path, and sure enough saw, not only a doublehorned Sumatran rhinoceros with a fine posterior horn but also a very fine bull elephant with a very good pair of tusks. The latter was throwing mud and water backwards over his body and between his fore legs to cool himself and to drive away the gadflies. The rhinoceros was standing alongside the pool within ten yards of the elephant which seemed to take absolutely no notice of its presence. A cock silver pheasant (*Gennaeus lineatus*) was also standing beside the pool between the two animals. I could not shoot both the animals, and as the rhinoceros was the bigger prize of the two, I decided to bag it if I could. As the rhinoceros was standing almost broadside on to me with its head turned slightly away, I moved forward to my right to obtain a better position and also to get slightly nearer. We were now only about 25 yards apart and I wanted to be able to deliver a raking shot from a little behind. What would I not have given to have had a camera at that moment? I should have been able to obtain an excellent shot of both animals on the same plate. However, I waited no longer and let the rhinoceros have a raking shot through the small of the ribs in the hope that it would find the lungs if not the heart, hoping at the same time that the elephant would clear out in the opposite direction and not worry us as I did not want to shoot the animal. The rhinoceros lurched forward on receiving the shot and swung quickly round in my direction with his head in the air. Having got my wind, the breeze having veered round, he charged through the pool very quickly, but whether it was an intentional charge or not, I am unable to say. The elephant on hearing the report banged his trunk once on the ground, and after uttering a shrill trumpet, went off in full flight through the bamboos and jungle making a devil of a noise. I had by now taken up a position some fifteen paces from the pool and as the rhinoceros reached the edge of the water on my side, I dropped him with a broken shoulder, and finished him off with a third shot. He had a very fair anterior horn of a length of about 16½ in. The posterior horn was only from about 2½ to 3 in. long. After disembowelling the animal in order to save the meat for my men, the next day, and taking some photographs of it and the pool, as well as several of it being skinned, we hurried back to camp which was reached in inky darkness at about 9 p.m., after a desperate scramble through the jungle and undergrowth, the leeches crawling all over us *en route*. One of my men had a leech in either nostril, whilst another had one fixed on the white of one eye ball. The man with the leeches in his nostrils was able finally to pass them out into his mouth when they had become sufficiently gorged with blood. I had a similar experience some years before, so was able to explain to him how to eject the leeches. There is in fact no

pain but only a slight itchy feeling in the nose, and the only thing to do is to wait until the leech has gorged itself with blood and then to pass it out through the nasal passage into the mouth in the usual way from whence of course it should be ejected at once. It sounds horrible, but necessity knows no law, and this method is sheer necessity. In the case of a dog getting a leech up its nose the only thing to do is to hold a bowl of water under the nose of the animal till the leech longing to reach the water hangs low enough down to enable it to be seized with a pair of pincers or a piece of cloth and pulled out. A solution of salt water can also be injected into the nose. Some people recommend tobacco juice but this may affect the brain or the eyesight and is unsafe.

With regard to my shooting kit, I wore as footgear the brown canvas and rubber hood 'Workshu' with two pairs of socks, and shorts and coat made of green coloured shikar cloth. The inner pair of socks worn were either of strong, thick, closely woven silk or cotton. Over these I wore thick woollen socks. In order not only to prevent the socks from slipping down into the heel of the boot and causing blisters, but also to keep out sand and gravel I wore half a putty wound round the top of the boot which also to some extent prevented leeches from getting at the foot at all through the eyelets or lace holes of the boot. When leeches did happen to worm their way through the lace holes of my boots and get through the thick woollen socks they were quite unable to get through the cotton or silk socks, with the result that as they could not draw blood from anywhere on the foot they were obliged to wriggle out again on to the bare calf or thigh where the tobacco sachet could easily deal with them. Leech bites on the calf or thigh are not nearly so irritable as bites on the instep, ankle, or foot. If a leech bite is scratched by anyone whose blood happens to be out of order, it is apt to turn into a nasty sore which is difficult to heal.

Shorts are the only togs worth shooting in. One cannot climb really steep hills wearing riding breeches and putties or in fact any other kit, if there is to be any hill climbing, owing to the stoppage of the circulation of the blood in the legs. It simply cannot be done.



Dorsal view of the pygidial margin and fringe of the Red Scale (*Chrysomphalus aurantii*, Mask.).
(For explanation of plate see end of article.)

AN ACCOUNT OF THE OCCURRENCE OF *CHRYSOMPHALUS AURANTII*, MASK AND *LACCIFER LACCA*, KERR ON GRAPE FRUIT IN RANCHI DISTRICT, CHOTA NAGPUR, WITH A NOTE ON THE *CHALCIDOID* PARASITES OF *ASPIDIOTUS ORIENTALIS*, NEWST.

BY

P. M. GLOVER, B.Sc.

(*Entomologist, Indian Lac Research Institute*).

(*With a plate*).

Chrysomphalus aurantii, the Californian Red Scale, although a serious pest of *Citrus* in many parts of the world, particularly in California and Egypt, does not occur as a pest of any great importance in India. It has been recorded in this country on the following, but in no case as a serious pest. *Agave americana*, *Citrus decumana* (pomelo), and *C. aurantium* (orange), *Cycas circinalis* and *C. recurvata*, *Jasminum*, *Morinda tinctoria*, *Morus sp.* (mulberry), *Psidium guayava* (guava) and on Rose.

In this district *C. decumana* fruits are commonly found lightly attacked by the scale, and garden rose is occasionally severely attacked. A number of *C. decumana* trees introduced at Namkum in 1927-28 were found to be slightly affected by this *Coccid* in February 1933.

Mr. H. T. Bates, then Manager of the Sabaya Division of the Assam Frontier Tea Company, introduced in June 1930 a small number of one year old grafts of the Grape Fruit *Citrus decumana* var. *grandis* at Sabaya. These plants established themselves satisfactorily, but in March 1931 were found to be attacked by *C. aurantii*, the attack was not very heavy but was of sufficient intensity to warrant control measures, a reinfection was observed in January 1933 and control measures were repeated.

At this time, one of the plants was observed to be lightly infected with lac (*Laccifer lacca*, Kerr), the infection having originated apparently from a *Zizyphus Jujuba* (Ber) tree close by, which had been purposely infected for the Baisakhi crop. This is an example of lac as a pest, and the infected plant was treated in the same way as those affected by *C. aurantii*.

Of the sprays utilised Lime Sulphur was found to be effective against both *Coccids* but is not to be recommended as it scorches the foliage severely. A resin spray made up as follows was found to be fairly satisfactory. It is similar to that used by Barritt (1929) against *Chrysomphalus aonidum* in Egypt.

Resin	1 lb.
Crude Castor Oil	3 lbs.
Ammonia	1¼ lbs. (sp. gr. 0.888)
Water	180 lbs. (18 gals.)

The resin and castor oil were heated together till the former dissolved, the solution was allowed to cool and was stirred into the water to which the ammonia had previously been added. The resultant solution is a white coloured sticky emulsion, which is ready for use. It may be kept in sealed drums.

The most effective spray tested was a Kerosene soap emulsion made up as follows:—

STOCK.

Kerosene Oil	2 gals.
Karunj Soap	½ lb.
Water (soft)	1 gal.

The soap was dissolved in water heated to boiling, the kerosene was added to the mixture while still boiling hot and stirred until a thick creamy fluid

resulted. The success of the spray depends to a considerable extent on the efficiency of the stirring. The solution may be kept in sealed drums. This stock if properly made should adhere to glass without separating into oily particles, and when spread with the ball of the finger should form a fine continuous film. It will keep for a considerable time. If insufficiently stirred the oil will separate and collect at the top.

For use the stock was diluted with water, 1 part stock to 3 parts water, and at this concentration did not scorch the foliage. Tests should however be made with various dilutions as the susceptibility of foliage to scorch varies very considerably. Spraying preferably should be done in the evening or on cloudy days, not in the full heat of the sun as this tends to cause scorch.

The female scale can be identified by the following characters:—

Scale approximately circular, average diameter about 1.5 mm., median area slightly convex, marginal area broad and flat. The scale is semi-transparent, and shows the outline of the insect below, the colour is grey, but actually appears orange yellow except marginally due to the colour of the insect lying below. The exuviae are central or nearly so, bright orange red or orange yellow in colour and are somewhat obscured by secretion. The first exuvia bears a small central boss which may bear a small nipple of white wax, the cicatrix. The exuviae are highly polished beneath. The whole dorsal surface except marginally in the living insect appears therefore orange red or orange yellow in colour.

The ventral scale is well developed, thin at the centre, stout towards the margins firmly attached to the dorsal scale, and to the body of the female as is also the dorsal scale, making the extraction of the insect difficult except by dissolving away the scales in Potassium hydroxide.

The morphology of the female has already been fully described by a number of writers including Green (1896), Newstead (1900), Herrick (1911) and Quayle (1911). The most conspicuous features are that in the living insect the rostrum is usually pushed a little to one side, and that at the period of gestation the pygidium is partly contracted within the body and is overlapped and sometimes almost enclosed by the sides of the thorax.

The pygidium of the specimens examined showed certain small differences from the normal, which are probably local variations. (see Plate)

The second lobe is frequently rounded internally and notched externally, but may be notched on both surfaces, the third lobe is almost invariably notched externally and rounded internally.

The pectinae are arranged 2-2-2-3, those in the median and second incisurae distapectinae, those in the third incisura and on the lateris unapectinae. The first pectina in the third incisura and the three pectinae on the lateris have two equal branches, between which in the case of those on the lateris a finger-like projection occurs. The unapectinae are fringed on their external margin only and in the case of the bilobed pectinae the fringing on the internal lobe is greatly reduced.

There is a pair of paraphyses to each lobe, the external paraphyse of the second lobe is much reduced and may be absent. In all specimens from this locality a distinct club-shaped thickening of the cuticle of the dorsal surface arises from the base of the third incisura (see Plate, par A), whose structure exactly that of a paraphyse, but whose disposition is abnormal. It forms the internal border of the paraphysial furrow occurring in the third incisura which would normally be formed by the external paraphyse of the second lobe.

A seta occurs external to the latadent on the ventral surface in all local specimens corresponding with the setae occurring external to each of the second and third lobes on the ventral surface.

The four calles of typical specimens occur as transverse bands of thickenings in the cephalic region of the dorsal aspect of the pygidium; in local specimens, the lateral calle is the longer and more prominent, the median is shorter and is in many specimens broken into two separate unequal parts which are adjacent, and which are occasionally connected by a narrow neck.

In view of the absence of genacerores and densariae and the presence of paraphyses, it seems probable that this species is referable to Leonardi's Genus *Aonidiella*, a course which has been followed by certain Authors.

A single adult of the *Aphelinid, Aphytis chrysomphali*. Mercet was taken resting on a twig infected with *C. aurantii*. This species has been reared in small numbers at Namkum from *Aspidiotus orientalis* on *Zizyphus Jujuba* (Ber).

I should like to thank Sir Guy A. K. Marshall, F.R.S. and Dr. Ferrière for the identification of this and the following species.

A. chrysomphali is reported by Quayle (1932) as one of the commonest parasites of the Red Scale in California, he also records it from the Yellow Scale *Aonidiella* (*Chrysomphalus*) *citrina* Coq.

Comperiella bifasciata, How. (*Encyrtidae*) is a common parasite of *A. orientalis* in this district. Quayle (1932) records this species from the Yellow but not from the Red Scale in California.

Other *Chalcidoidea* bred from *A. orientalis* at Namkum were, *Physcus sp.* (near *flaviventris* How.) which was rather rare; *Tetrastichus purpureus* Cam (*Eulophidae*) as a primary and probably also as a secondary parasite (Glover, 1933), and *Marietta javensis* How. (*Aphelinidae*) as a hyperparasite of primary *Chalcidoid* parasites of this *Coccid* (Glover, 1933, reported as *Perrisopterus sp*).

In conclusion I wish to express my thanks to Mrs. Dorothy Norris, Director of this Institute, and to Dr. C. F. C. Beeson, Forest Entomologist, Forest Research Institute, Dehra Dun, for advice and criticism, to Mr. H. T. Bates for permission to experiment on his trees and to Mr. E. Heber for preparing the plate.

Since this paper was submitted for publication on July 7th 1934, a paper on the Genus *Comperiella*, Howard by Dr. T. V. Ramakrishna Ayyar has appeared in *Records of the Indian Museum*, vol. xxxvi, pt. II, June 1934. In this paper Ayyar records the Genus *Comperiella* from India for the first time, and describes a new species *C. indica* sp. nov., which he originally recorded as *Comperiella sp.* parasitic on the tamarind scale *Aspidiotus tamarindi* G. at Coimbatore where it occurs on tamarind often associated with *Aspidiotus orientalis*, N. (Imp. Inst. Agric. Res., Pusa Bull. 197, 1929).

Comperiella bifasciata is therefore recorded from India for the first time, and is the second species of this Genus known to occur in this country. *C. bifasciata* and *C. indica* are very similar, particularly as regards colouration, but may be separated by the fact that in the former the fore wing of the female has two divergent brownish fasciae, and that in the latter the fore wing of the female has one brownish fascia only.

Aphytis chrysomphali is believed to be recorded from India for the first time.

Explanation of Plate.

Dorsal view of the pygidial margin and fringe of *Chrysomphalus aurantii*.

an., anus; dp., distapectinae; ld., latadent; lm., median lobe; l. 2nd, 2nd lobe; l. 3rd, 3rd lobe; or., oraceratubae; par., paraphyses; par. A., extra abnormally disposed paraphyse; s., setae; up., unapectinae.

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NOTES ON THE SYSTEMATIC POSITION OF *SANSEVIERIA* GROWING IN INDIA WITH SPECIAL REFERENCE TO *S. LAURENTII* WILDEMAN.

BY

KALIPADA BISWAS.

About sixty-eight species of Sansevieria are known up to the present time. Of these only four are supposed to be indigenous to the Indian Empire. These are *S. lanuginosa* Willd., *S. zeylanica* Willd., *S. Roxburghiana* Schult., and *S. burmanica* N. E. Brown. *S. lanuginosa* grows wild in sandy places in Malabar coast. *S. zeylanica* is common in the drier rocky and sandy region. *S. Roxburghiana* is the most common species, and is fairly widely distributed along the coast of Coromandel, Lower Bengal, Orissa and Chota Nagpur. *S. burmanica* is wild in Upper Burma. But the systematic position of *S. lanuginosa* as a distinct species has been rightly doubted by N. E. Brown in his valuable monograph on Sansevieria published in *Kew Bull.* No. 5, p. 226, 1915, where he remarks 'It appears to be similar to *S. zeylanica* Willd'. Thus *S. Roxburghiana* is the only known species indigenous to India proper.

Most of the species of Sansevieria are confined to Africa or to the islands near its coasts and a few to Arabia. Nearly all the species found cultivated in different parts of the world are introduced. In the Royal Botanic Garden, Calcutta, there are about seven or eight species under cultivation. Of these again *S. trifasciata* of Prain is supposed to have been grown in this garden as early as 1899. It is also reported from Jalpaiguri and from Lower Sikkim area but recorded as cultivated. Prain mentions in his *Bengal Plants*, vol. ii, p. 1054, 1903, this species as 'often cultivated; sometimes as an escape' closely related to West African Bow String Hemp (*S. guineensis*) but with narrower, more definitely maculated leaves. Brown is of opinion that *S. guineensis* is not correctly named. Prain noted this species (*S. trifasciata*) as a horticultural species both in his *Bengal Plants* and subsequently in the *Rec. Bot. Sur. of India*, vol. iii, No. 2, p. 287, 1905. But Prain's *S. trifasciata* resembles very closely Dr. J. Muree's specimen of *S. nilotica*, a native of Tropical Africa, which was described by Baker in the *Journ. of Linn. Soc.*, vol. xiv, p. 548, 1875.

During comparatively late years an interesting specimen of Sansevieria with yellow striped leaves is under cultivation in and about the Royal Botanic Garden, Calcutta, and Victoria Gardens, Bombay, and elsewhere in this country (See Plate I). This species so far as its specific characters are concerned may be taken as a variety either of *S. nilotica* or of *S. trifasciata*. Considering its distinct yellow stripes of the leaves Brown takes it as *S. trifasciata* Prain. var. *Larentii* N. E. Brown. The problem which the writer attempts to solve is whether the yellow striped specimen be taken as a variety of *S. nilotica* or *S. trifasciata* and whether the

latter should be considered a separate species. Comparison between the descriptions of *S. nilotica* of Baker and *S. trifasciata* (Hort.) Prain, shows that there is not much difference between the two species. Thus there is not sufficient ground for considering *S. nilotica* and *S. trifasciata* as two distinct species. Therefore, the question is whether *S. nilotica* or *S. trifasciata* is to be retained. According to the rules of nomenclature *S. nilotica* has been described earlier. Hence it is advisable to reduce *S. trifasciata* to *S. nilotica*. *S. trifasciata* is not an Indian species, but it is a West African species cultivated in Lower Bengal. Prain himself observes under *S. trifasciata* as follows: 'Cultivated but also sometimes in village shrubberies probably native of West Africa, but appears to have reached India from America where it is sometimes grown as *S. guineensis*, the West African Bowstring Hemp which is not naturalized and is hardly known even in cultivation in India.' Meunissier remarks that this plant has all the characters of *S. guineensis* except the yellow stripes of the leaves. Evidence recorded in the literature and examination of type sheets of Prain's *S. trifasciata* lead to the conclusion that *S. nilotica* of Baker is very likely the same species as *S. trifasciata*. Prain himself, as his above notes indicate, considers *S. trifasciata*, as grown in the Royal Botanic Garden, Calcutta, and other places, a horticultural form or variety—as may be called—of a tropical species, very likely *S. nilotica*. Prain's remark on the herbarium sheet of *S. trifasciata* confirms the above conclusion. The chief distinguishing characters, according to Brown, of *S. nilotica* Baker and *S. trifasciata* Prain, are as follows:

S. nilotica.	*S. trifasciata.*
Leaves 2–3 to a growth ; strap shaped with sides for a foot or more of the central part, deeply concave-canelled, petiole 1-2 feet long.	Leaves often 1–2, in vigorous plants 2–6 to a growth ; linear lanceolate or narrowly elongated lanceolate.
Bracts $\frac{1}{12}$–$\frac{5}{12}$ in. long. ...	Bracts $\frac{1}{8}$–$\frac{1}{2}$ in. long.
Flowers 4–10 in. cluster. ...	Flowers 3–8 in. cluster.
Flowering lobes 5½–6 in. ...	Flowering lobes 7–9 in.

These distinguishing characters of the two species are overlapping and not quite definitely demarcated. The authentic herbarium specimen taken as *S. trifasciata* differs from yellow striped garden specimen as much as the herbarium specimens of *S. nilotica* differs. The yellow band is a very distinct character in the garden plant. The general characters noted in Brown's key to the genus in the *Kew Bulletin*, No. 5, p. 194, 1915, are applicable

both to *S. nilotica* and *S. trifasciata*. The character: Leaves 'sometimes striped with yellow' is evidently mentioned to include the var. *Laurentii* of *S. trifasciata*, formerly confused with *S. guineensis*, as remarked by Prain in the *Bengal Plants*, vol. ii, p. 1054, 1903, and *Records Bot. Surv. of India*, vol. iii, No. 2, p. 287, 1905. Prain's *S. trifasciata* is quite a distinct plant from *Dracaena ovata* and *S. guineensis* as figured in *Bot. Mag.*, pp. 1180-81, 1809, and referred to in *Conspectus Florae Alfricae*, Durand and Schinz, vol. v, p. 140, 1895. The original descriptions of *S. nilotica* of Baker as published in the *Journ. of the Linn. Soc.*, vol. xiv, p. 548, 1875, is applicable to *S. trifasciata* of Prain as well. As far as my investigation leads me, I consider that there is not sufficient difference between *S. nilotica* and *S. trifasciata* as regards their specific characters are concerned. *S. trifasciata* of Prain may perhaps be conveniently reduced to *S. nilotica* Baker. I would, therefore, prefer to consider *S. trifasciata* a synonym of *S. nilotica*. Slight difference in the nature of the leaves and dimensions of the floral structures might be due to climatic conditions and horticultural manipulations. The illustration of the horticultural species—*S. Laurentii* given in *Gardeners' Chronicle*, vol. xlv, p. 347, 1909, is considered as a variety of *S. trifasciata* by N. E. Brown. This *S. Laurentii* is the one which tallies best with the yellow striped specimen. The living specimen was also received as *S. Laurentii* by Dr. D. S. Laud, Superintendent, Victoria Gardens, Bombay, as his following note indicates:

Sansevieria Laurentii Hort. (*S. Laurentii* Wildeman).

'Hab.—Tropical Africa, was introduced in these Gardens from Messrs. L. R. Russell, Richmond Nurseries, England, on 29th March 1923. It is cultivated in these gardens as an ornamental plant both in the open and in the conservatories for the beauty of its leaves. It has a band of creamy yellow ¼-½ in. or more wide along the leaf margins in addition to the regular variegation. This plant flowers and seeds in this garden. The flowers are whitish green. No attempt is made to propagate from leaf-cutting. The plant is easily propagated by divisions.'

'Mention has also been made of this variety of Sansevieria by Mr. Macmillan in his book—*Tropical Gardening and Planting*, p. 154.'

Propagation from fragments of yellow striped leaves at the Royal Botanic Garden, Calcutta, resulted in the development of a plant without yellow stripes in the leaves, although plants raised from rhizome produced plants with yellow striped leaves without fail. Reversion to plants without yellow stripes in the leaves when raised from leaf cuttings was recorded by Gerome, the head gardener at Paris, in 1914. Gerome received the yellow striped specimen directly from Prof. E. Laurent who brought this interesting plant from Belgian Congo. Experiment at Kew, as Brown mentions, had similar results. A Meunissier in *Gardeners' Chronicle*, vol. lvi, p. 144, 1914, surmises that such bad mutation —I mean reversion to parent plant when raised from leaf cuttings

—is due to variation in cell structure in the rhizome and yellow striped leaves.

Considering the facts mentioned above, this yellow striped specimen may better be taken as *S. nilotica* Baker, var. *Laurentii* Wildeman. A detailed description of this variety as observed in the fresh specimen in comparison with the herbarium sheets of *S. nilotica* and *S. trifasciata* of Prain is given below:

Sansevieria nilotica Baker, var. *Laurentii* Wildem.

Synonym—*S. trifasciata* (Hort.) Prain, var. *Laurentii* N. E. Brown; *S. Laurentii* Wildem.

Plant with underground creeping stem, 1.3 to 2.5 cm. thick; leaves 2-3-6 to a growth, 1-3 rarely 4 ft. long and 3 to 10 cm. broad, erect, adult ones broadly lanceolate or strap shaped, sometimes the leaf blade showing a tendency to becoming somewhat spirally twisted from right to left towards the apices, but normally with the sides for a foot or more parallel, tapering towards the apices ending into a pale green, leathery, acute, more or less stout, thorny point, and gradually narrowing down to the base into a somewhat concave channelled petiole, conspicuously marked with very closely packed irregular zigzag dark green or paler green transverse bars with creamy yellow, .6 to 1.3 cm. wide stripes and somewhat cartilaginous edges, more or less overspread with glaucous bloom. Scape 1½ to 2½ ft. high, of which 1 to 1½ ft. covered with irregularly scattered flower-clusters bearing generally 3 to 6 flowers, .6 to 3.8 cm. apart. The lower part of the scape passing into 3-5 ovate, lanceolate, acute, pale brown, membraneous sheath, about 7.5 cm. long and 2.5 cm. broad. Bracts .3 to 1.3 cm. long spreading, narrowly ovate lanceolate, acute or slightly acuminate. Flowers 3-8 in a cluster, very pale greenish white or creamy white; 5 to 10 mm. long, joint at or just above the middle with persistent pedicel, 2 to 5 mm. long. Perianth lobes 1½ to 3 cm. long, linear, subacute or sub-obtuse; style 2½ to 3½ cm. long. Fruit a berry, green when immature, yellow when ripe, about 5-8 mm. in diameter. Flowering freely and profusely during cold weather, fruiting a little later.

Habitat.—Tropical Africa.

SOME BIRDS OF CHITTAGONG.

BY

MAJOR R. S. P. BATES, M.B.O.U.

I was in Chittagong from March 5th for exactly three months. Owing to 'terrorist' activities one's movements were somewhat restricted, so the following list is by no means complete. I never got down to the sea-shore which is difficult to reach owing to lack of roads, and in fact with but one or two exceptions all the birds in the list were seen within three miles of my bungalow.

The residential station of Chittagong is built on a series of small pimples up to a couple of hundred feet in height, the end of a low narrow range running northwards parallel to the coast with a wide cultivated plain between it and the Chittagong Hill Tracts which do not concern us here at all. As one gets away from the station, these hills become more and more thickly wooded and the height gradually increases. The maze of narrow long winding nullahs between the wooded hills contains very varied types of country from grass and scanty cultivation to thick bush, and reeds, and canes, into which it is almost impossible to penetrate. Clearings and old tea gardens are also to be met with. This part of the district naturally contains a very varied and interesting avifauna. The flat cultivated areas away from these hills contain little out of the ordinary.

(8) **Corvus levaillanti andamanensis.** Andaman Jungle-Crow. The stout bill is a very noticeable feature of this crow.

(11) **Corvus splendens splendens.** The House Crow of Chittagong is a very dark bird but is apparently 'splendens'.

Dendrocitta rufa. Tree-Pie. Common. A pair in our garden had a young one (I never saw more than one) out of the nest on May 22nd.

(120) **Dryonastes ruficollis.** Rufous-necked Laughing-Thrush. Saw two pairs in the thickets and long grass at the edge of one of the long winding nullahs. One shot on May 26th proved to be a female whose organs were undeveloped. Besides other notes they have a very pleasant three-noted whistle.

Timalea pileata. Red-capped Babbler. A common bird in the hilly tracts. The testes of a male shot on April 12th were slightly enlarged. This bird has some harsh notes which I could not distinguish from the 'korkuch' of the Indian Great Reed-Warbler which is such a feature of every reed patch in Kashmir. Until I had actually run one of the birds to earth producing these notes in a reedy patch near some cultivation, I was convinced that a Reed-Warbler must reside in Chittagong. They have also quite a flute-like little descending trill of about half a dozen notes, a most pleasing effort.

Pellorneum ruficeps. A Spotted Babbler was by no means uncommon on the bush-covered hillsides, chiefly where the higher trees were few and the scrub fairly thick. A pair were often heard in an old tea garden just close to our bungalow. The only one I managed to shoot was unfortunately blown almost to pieces. This was on April 14th. It was a breeding male. The outer webs of the feathers of the sides of the neck and hind neck were more a very dark brown than blackish and the spots on the breast also dark

brown, but on the whole it appeared to me to agree with the description of *mandellii*.

(283) **Mixornis gularis rubricapilla.** Assam Yellow-breasted Babbler. Shot a male out of a party in very thick scrub jungle in the hills on May 13th. The testes were greatly enlarged.

(362) **Aegithina tiphia tiphia.** Common Iora.

(403) **Molpastes cafer.** Red-vented Bulbul. Common. A very dark bird generally, so presumably *bengalensis* but I collected no specimens. Nor did I look for nests but came on one with three eggs in the crown of a small palm on a roadside on April 12th. Two days later it had been destroyed.

Otocompsa jocosa. Red-Whiskered Bulbul. Common from the outskirts of the station, being slightly more of a jungle bird than the Red-vented Bulbul. Took a nest of three eggs at the Foy Scheme (waterworks) on April 14th and noted numbers of young about shortly after that date. The nest in question was built into a mass of fallen leaves caught up in a bush about three feet from the ground.

(442) **Brachypodius cinereoventris.** Grey-bellied Bulbul. Two bulbuls of this genus were disturbed in a very damp heavily wooded nullah some three miles outside the station on May 20th. One of them obligingly perched quite close to me for a few moments. It was a grey-bellied bird.

(495) **Saxicola torquata.** Bush-Chat. Not very common when we first arrived. They soon disappeared.

(532) **Phoenicurus ochruros rufiventris.** Eastern Indian Redstart. One or two seen in March on passage, the last being recorded on the 17th.

(558) **Copsychus saularis saularis.** Magpie Robin. Common and breeding freely in March, April and May. Young birds seen in the nest on May 2nd in a Woodpecker's old nesting hole and again on May 18th.

Monticola solitaria. Blue Rock-Thrush. One frequented our compound until April 8th. A number were seen on passage about this time.

(639) **Siphia parva albicilla.** Eastern Red-breasted Flycatcher. Common, leaving about the third week of April.

(693) **Hypothymis azurea styani.** Northern Indian Black-naped Flycatcher. Shot a male in thick low mixed jungle on May 13th; organs considerably enlarged. They were not common.

(719) **Lanius cristatus cristatus.** Brown Shrike. Common and still much in evidence when we left in early June.

(729) **Tephrodornis pondiceriana pondiceriana.** Indian Common Wood-Shrike.

(763) **Artamus fuscus.** Ashy Swallow-Shrike. One only seen cruising round our bungalow on May 20th.

(767) **Dicrurus macrocercus albirictus.** Himalayan Black Drongo. Common. Noticed building operations in progress in a fork of a tall nim tree at the Turtle Tank on April 10th. On April 29th saw two young out of the nest being fed by their parents.

(814) **Orthotomus sutorius patia.** Burmese Tailor-Bird.

(940) **Prinia inornata.** Wren-Warbler. Not particularly common but to be met with on most of the sun-grass covered hillsides. A male and female shot on April 12th had the organs only slightly developed.

(958) **Oriolus xanthornus xanthornus.** Indian Black-headed Oriole. Common.

(964) **Gracula religiosa intermedia.** Indian Grackle. I often saw a pair of these birds in a neglected tea garden in the low hills about three miles north of Chittagong.

(969) **Lamprocorax panayensis affinis.** Tipperah Glossy Stare. Shot an immature bird on May 27th out of a flock of four containing one adult. They were feeding in some tall trees in my compound. The iris was a yellowish red.

(982) **Sturnia malabarica malabarica.** Grey-headed Myna. Common.

(996) **Acridotheres tristis tristis.** Common Myna. Common.

(999) **Aethiopsar fuscus fuscus.** Indian Jungle Myna.

(1004) **Sturnopastor contra contra.** Indian Pied Myna. First noticed building operations on April 11th from which date they were nesting freely.

(1010) **Ploceus atrigula atrigula.** Eastern Baya. This Weaver does not wait for the commencement of the rains in the Chittagong District before commencing to breed. I noted one colony on April 21st which must have been building for some days, and during the next couple of weeks noted numbers commencing operations. Fairly tall palms were most in demand, but I saw two colonies on low leafy trees.

(1020) **Munia atricapilla rubronigra.** Northern Chestnut-bellied Munia. Common both in the cultivated areas and in the jungle. Often seen in quite large flocks, sometimes high up in tall trees, sometimes in the long grass and swampy places. The only nest I noticed was being built in a thorny bush close to a path running through quite thick jungle; date May 13th, but a few days previously I saw one picking up grass in my own compound.

(1097) **Passer domesticus nigricollis.** Burmese House-Sparrow.

(1148) **Riparia paludicola brevicaudata.** Indian Sand Martin.

(1186) **Anthus hodgsoni hodgsoni.** Indian Tree Pipit. There was a sudden influx of these birds on March 12th on passage which lasted to the end of the month.

(1195) **Anthus richardi rufulus.** Indian Pipit.

(1215) **Alauda gulgula gulgula.** Small Indian Skylark.

(1245) **Eremopteryx grisea grisea.** Ashy-crowned Finch Lark. By no means common.

(1250) **Zosterops palpebrosa cacharensis.** Cachar White-Eye.

(1279) **Leptocoma asiatica intermedia.** Burmese Purple Sunbird. Sunbirds were really quite uncommon. The only nest found was on May 26th. The female was sitting on two fresh eggs. The nest was overhanging a small much jungle-covered stream running out of one of the numerous small nullahs through some rice cultivation. It resembled most remarkably the flotsam caught up in flood time on all the canes and brambles around.

(1297) **Dicaeum cruentatum cruentatum.** Indian Scarlet-backed Flower-Pecker. A very common and familiar bird, both in the gardens and out in the jungle.

(1353) **Chrysophlegma flavinucha flavinucha.** Large Yellow-naped Woodpecker. Saw a pair in fairly thick jungle in the low hills two miles out on May 13th. In the setting sun their crests appeared lemon yellow and stood out fanwise from the head.

(1368) **Dryobates macei.** Fulvous-breasted Pied Woodpecker. Seen two or three times in the jungles bordering the Foy Scheme dam.

(1394) **Brachypternus benghalensis.** Golden-backed Woodpecker. Common A pair of these birds were boring a hole in a tree close to a Railway official's bungalow in Chittagong on April 23rd. On its completion however a pair of Common Mynas took possession.

(1432) **Thereiceryx lineatus hodgsoni.** Assam Lineated Barbet. Not very common in the station.

(1436) **Cyanops asiatica asiatica.** Blue-throated Barbet. Only seen in the jungle-covered low hills such as at the Foy Scheme.

(1446) **Xantholæma haemacephala indica.** Burmese Crimson-breasted Barbet. Somewhat scarce.

Cuculus canorus. A Cuckoo of this species was heard calling in a railway bungalow compound on April 23rd.

(1456) **Cuculus micropteras micropterus.** Indian Cuckoo. Excessively common. They started calling in the second week of March.

Eudynamis scolopaceus. Koel.

(1479) **Rhopodytes tristis tristis.** Large Himalayan Green-billed Malkoha. I remarked this bird in the better wooded patches concealing the villages in the cultivated areas as well as in thicker jungle along the hills.

(1489) **Taccocua leschenaulti affinis.** Bengal Sirkeer Cuckoo.

(1491) **Centropus sinensis intermedius.** Hume's Crow-Pheasant. The chuckling laugh is much more frequently indulged in than the hooting note.

(1508) **Psittacula alexandri fasciata.** Indian Red-breasted Paroquet. This very noisy bird is the common Paroquet of Chittagong. Two pairs were noted nesting in holes in casuarinas in the station in April.

(1513) **Coryllis vernalis vernalis.** Indian Loriquet. Common.

(1519) **Coracias benghalensis affinis.** Burmese Roller. Quite common on our arrival in March, but all had disappeared before the month was out.

Merops orientalis. Green Bee-Eater.

(1526) **Merops superciliosus javanicus.** Blue-tailed Bee-Eater. Very common and breeding freely in April and May. An enormous colony, which must have numbered a hundred pairs, was nesting in the face of a sandy cliff close to Sholashahr Railway Station, a suburb of Chittagong.

(1533) **Alcedo atthis bengalensis.** Common Indian Kingfisher. Not very common. This was the only Kingfisher I ever saw along the streams, which were not suitable for the Pied Kingfisher. The main river and its tributaries are tidal for many miles inland, and on the only two occasions I went up by launch I saw no Kingfishers of any kind.

(1551) **Halcyon smyrnensis fusca.** Indian White-breasted Kingfisher. Common in the station and breeding freely in April and May.

Upupa epops. There is no resident Hoopoe in Chittagong. I saw three or four (probably saturata) soon after our arrival i.e. between March 5th and 17th but none after the latter date.

(1599) **Micropus affinis subfuscatus.** Malay House-Swift.

(1600) **Cypsiurus batasiensis batasiensis.** Bengal Palm-Swift.

(1661) **Bubo coromandus coromandus.** Dusky Horned Owl. Common. Their rumbling calls were to be heard in the evenings from every suitable clump of trees. We had a pair in our own compound. In Rajputana these birds called mainly in the rains and breeding season but they were calling all the time we were in Chittagong.

(1684) **Athene brama indica.** Northern Spotted Owlet. Rather uncommon. In fact I only heard them at a small village a mile or so north of Chittagong.

(1689) **Glaucidium cuculoides rufescens.** Burmese Barred Owlet. The common Owl of Chittagong. We had two pairs in our compound on the outskirts.

(1706) **Sarcogyps calvus.** Black Vulture. Quite common.

(1711) **Gyps indicus nudiceps.** Northern Long-billed Vulture. Common.

(1713) **Pseudogyps bengalensis.** Indian White-backed Vulture.

(1730) **Falco chiquera chiquera.** Red-headed Merlin. This bird was quite common in Mymensingh but I only saw it occasionally at Chittagong.

(1780) **Ichthyophaga ichthyaetus ichthyaetus.** Large Grey-headed Fishing-Eagle.

(1784) **Haliastur indus indus.** Brahminy Kite.

(1788) **Milvus migrans govinda.** Common Pariah Kite.

(1792) **Circus cyaneus cyaneus.** Hen-Harrier. The Harriers had mostly left when we arrived in Chittagong, but I saw one Hen-Harrier, a late straggler,

on May 1st. The Pied Harrier, still common when we left Mymensingh, was never seen, and the next bird too only a couple of times.

(1794) **Circus aeruginosus aeruginosus.** Marsh Harrier. Last seen on May 2nd.

(1819) **Pernis ptilorhynchus ruficollis.** Indian Crested Honey-Buzzard. Comparatively common. A pair were always hanging about our compound, making their presence known by a high-pitched trisyllabic squeal uttered frequently when on the wing. On one occasion as I drove up to the bungalow, I nearly ran into one as I came over the crest of the hill. It was on the ground busy devouring termites. When the winged swarms appeared they were always much in evidence along with the Common and Brahminy Kites, Mynas and Crows, wheeling to and fro screaming continuously.

(1826) **Crocopus phoenicopterus viridifrons.** Burmese Green Pigeon. Building in March.

(1856) **Columbia livia intermedia.** Indian Blue Rock-Pigeon.

(1874) **Streptopelia chinensis tigrina.** Burmese Spotted Dove. Exceedingly common.

(1900) **Polyplectron bicalcaratum bicalcaratum.** Burmese Peacock-Pheasant.

(1903) **Gallus bankiva murghi.** Common Red Jungle-Fowl. Fairly common all along the hills from the commencement of the forests at the Foy Scheme.

(1921) **Gennaeus horsfieldii horsfieldii.** Black-breasted Kalij Pheasant.

(1997) **Turnix suscitator plumbipes.** Burmese Bustard-Quail.

(2022) **Amaurornis phoenicurus chinensis.** Chinese White-breasted Water-hen. Common.

(2031) **Metopodius indicus.** Bronze-winged Jacana. Very common. Every tank sufficiently weedy had at least one pair.

(2127) **Lobivanellus indicus atronuchalis.** Burmese Red-wattled Lapwing. Only seen once on May 2nd.

(2143) **Tringa ochrophus.** Green Sandpiper.

(2145) **Tringa hypoleucos.** Common Sandpiper.

(2150) **Glottis nebularia.** Greenshank.

(2170) **Capella gallinago gallinago.** Fantail Snipe.

(2173) **Capella stenura.** Pintail Snipe.

(2183) **Anhinga melanogaster.** Indian Darter.

(2218) **Ardea cinerea rectirostris.** Eastern Grey Heron.

(2225) **Egretta garzetta garzetta.** Little Egret.

(2226) **Bubulcus ibis coromandus.** Cattle Egret. Noted to be in breeding plumage on May 2nd.

(2229) **Ardeola grayii.** Indian Pond Heron.

(2237) **Ixobrychus sinensis sinensis.** Yellow Bittern.

(2238) **Ixobrychus cinnamomeus.** Chestnut Bittern. A male shot on May 24th had the testes the size of pea-nuts. It had a slightly digested whole frog in its stomach.

(2292) **Podiceps ruficollis capensis.** Indian Little Grebe.

THE MEDICINAL AND POISONOUS SEDGES OF INDIA

BY

J. F. CAIUS, S.J., F.L.S.

The CYPERACEAE are grass-like herbs broadly distributed all over the world, and especially in the cold regions of the northern hemisphere; they are gregarious in marshy plains, damp meadows, and the dry slopes of high mountains; they are less frequent in maritime estuaries. The family includes 85 genera, with about 2,600 species.

The medicinal and poisonous sedges of the world belong to 11 genera:—CAREX (cold and temperate regions); CYPERUS (Tropics and Subtropics); ERIOPHORUM (Arctic or Northern temperate regions); FIMBRISTYLIS (Tropics); GAHNIA (Australasia; from Singapore to the Sandwich Islands); JUNCELLUS (warm regions); KYLLINGA (Tropics and Subtropics); PYCREUS (warm and temperate regions); REMIREA (Tropics); SCIRPUS (cosmopolitan; as far as the Polar regions); SCLERIA (moist warm countries).

The medicinal and poisonous sedges of India belong to 7 genera:—CAREX, CYPERUS, FIMBRISTYLIS, JUNCELLUS, KYLLINGA, REMIREA, SCIRPUS.

A. Spikelets of few or many glumes; lower 1-2 glumes always empty, uppermost male empty or imperfect, intermediate ones bisexual:	
I. Flowering glumes usually many, all distichous; no hypogynous bristles:	
1. Style bifid; flowers 1 or 2 in spikelet; rhachilla of spikelet deciduous	KYLLINGA.
2. Style bifid; rhachilla of spikelet persistent; nut dorsally compressed	JUNCELLUS.
3. Style trifid; rhachilla of spikelet persistent after fall of glumes	CYPERUS.
II. Flowering glumes usually many in a spiral; hypogynous scales or bristles often present:	
1. Style-base persistent or completely deciduous; no hypogynous bristles; leafy plants ...	FIMBRISTYLIS.
2. Style-base not articulate passing into nut gradually; hypogynous bristles 0-6, undivided, linear, rarely oblong	SCIRPUS.
B. Spikelets sessile in dense digitate cylindric spikes; glumes 4, 3 empty, uppermost with a perfect flower	REMIREA.
C. Spikelets of male or female flowers, or both; nuts enclosed in an utricle entire or 2-fid at the tip only	CAREX.

CAREX.

This genus includes over 900 species broadly dispersed in cold and temperate regions, a few being found in mountainous tropical regions.

C. arenaria Linn., *C. disticha* Huds., and *C. hirta* Linn. are used medicinally in Europe; *C. macrocephala* Willd. and *C. siderosticta* Hance are similarly used in China.

Carex cernua Boott is found in Assam and extends to Tongking and Japan.

The plant is said to be toxic to cattle producing lack of appetite, loss of milk, and definite nervous symptoms.

CYPERUS.

This genus includes 300 species, natives of tropical and subtropical regions, a few being found in temperate regions. It abounds on the shores of tropical rivers, and in the clearings of virgin forests.

The following species are used medicinally in Europe: *C. esculentus* Linn., *C. longus* Linn., *C. rotundus* Linn.—; in China, Indo-China, Malaya, and the Philippine Islands: *C. rotundus* Linn.—; in West Africa: *C. articulatus* Linn., *C. esculentus* Linn.—; in South Africa: *C. esculentus* Linn., *C. fastigiatus* Rottb., *C. longus* Linn., *C. sexangularis* Nees—; in Madagascar: *C. aequalis* Vahl, *C. alboviridis* C. B. Clarke, *C. esculentus* Linn.—; in Guiana: *C. elegans* Linn.

A. Rhachilla of spikelets not much winged; spikelets spicate or subracemose, linear, 6-20 flowered. Leaves and bracts long ... ... 1. *C. iria.*

B. Rhachilla of spikelets (usually conspicuously) winged:
1. Tall plants. Stolons long, hardening into creeping rhizomes. Leaves short. Glumes approximate, closely imbricate:
a. Spikelets shortly spicate, 12-50 flowered ... 2. *C. articulatus.*
b. Spikelets linear, pale straw-coloured ... ... 3. *C. scariosus.*
2. Tall or medium plants, stoloniferous or rhizome woody. Leaves and bracts long. Rhachilla of spikelets winged. Glumes closely imbricate:
a. Stem at base nodosely thickened:
i. Leaves flaccid, flat; umbels expanded, usually compound ... ... 5. *C. rotundus.*
ii. Leaves rigid, filiform, or very narrow; umbel simple, compact ... ... 7. *C. stoloniferus.*
b. Stem at base not nodose:
i. Stem 6-12 in. high; leaves as long or nearly so 6. *C. esculentus.*
ii. Stem 12-36 in. high; leaves ½-¾ stem ... ... 4. *C. longus.*
3. Tall stout plants. Stolons absent. Leaves and bracts long. Umbel large, compound. Spikes and spikelets many. Rhachilla of spikelets conspicuously winged. Anthers apiculate, not rarely crested. Style with its three branches small. Nut small ashy black.
Spikelets linear subterete suberect dirty straw-colour ... ... 8. *C. platyphyllus.*

1. **Cyperus iria** Linn. is found throughout India and Ceylon in rice fields. It extends to Malaya, Indo-China, China, Japan, Australia, Afghanistan, Persia, the Mediterranean, and tropical Africa.

The plant is tonic, stimulant, stomachic, and astringent.

Among the Mundas of Chota Nagpur the tuber is ground together with that of *C. rotundus*, and drunk in fever.

Bengal: Burachucha—; *Hasada*: Jimtu—; *Hindi*: Burachucha, Nagarmotha—; *Lao*: Yak dan din—; *Malay*: Rumput tuloh belalang—; *Mundari*: Huringloeongjimtu, Loeongjimtu, Loeongjintu—; *Naguri*: Jindu—; *Rajputana*: Moth—; *Sinhalese*: Welhiri—.

2. **Cyperus articulatus** Linn. occurs from Bengal to Ceylon on the banks of rivers and lakes. It inhabits the tropical and warm regions of both hemispheres.

The tuber is a good tonic and stimulant. It is used medicinally in Hausaland.

Arabic: Chasegj—; *Betsimisaraka*: Mita—; *Egypt*: Goreyb—; *Guinea*: Gorhe, Madia—; *Kanuri*: Kajiji—; *La Reunion*: Jambelon—; *West Indies*: Adrue—.

3. **Cyperus scariosus** Br. is found in Bengal and Pegu, and extends thence to Australia.

The root is recognized by both Ayurveda and Yunani. Hindu writers describe it as pungent, acrid and cooling; promoting the flow of milk; regulating the bodily temperature by its antipyretic and sedative action; useful in the treatment of biliousness, fever, dysentery; relieving thirst, fatigue, burning sensations, and bad taste in the mouth.

Mohammedan authors qualify the taste of the root as bitter, hot, and unpleasant. As a drug it relieves flatulence, stimulates the menstrual discharge, enriches the blood, and improves the appetite; it also checks abnormally profuse menstruation and urination; it is useful in the treatment of stuttering, offensive discharge from the nose, eye sore, brain and chest troubles, piles, swellings, lumbago, and scorpion sting.

In practice the root is considered cordial, stomachic, and desiccant; also diaphoretic and diuretic. A decoction is used in gonorrhoea and in syphilitic affections; and it has been found useful as an astringent in diarrhoea.

In cases of epilepsy the root is given in combination with valerian.

Caius and Mhaskar have shown experimentally that the drug is not an antidote to scorpion venom.

Arabic: Soad, Soadekufi—; *Bengal*: Nagarmutha—; *Burma*: Vomonniu—; *Canarese*: Konnarigadda, Nagarmusthe—; *Deccan*: Nagarmotah—; *Gujerati*: Nagaramothya—; *Hindi*: Nagarmotha—; *Malayalam*: Korakizhanna—; *Marathi*: Lawala—; *Persian*: Mushkezamin—; *Sanskrit*: Chakranksha, Charukesara, Chudalapindamusta, Kachharuha, Kalapini, Nadeyi, Nagarmusta, Nagarotha, Shishire, Vrishadhmankshi, Uchchta—; *Tamil*: Koraikilangu—; *Telugu*: Kolatungamuste, Tungagaddalaveru—; *Urdu*: Nagarmotha—.

4. **Cyperus longus** Linn. occurs at Quetta and Mount Abu. It extends westwards to the Atlantic.

The bitter aromatic tuber is used in Spain as a stimulant, stomachic, and emmenagogue.

The Zulus prepare an enema from the tuber for children with stomach troubles. They also blow the powdered tuber into the nose and ears for colds and other troubles in these regions, and the tuber may be chewed for the same purposes.

At Filabusi in Southern Rhodesia the juice of the plant is regarded as being very poisonous and is said to burn the skin when applied to it.

Catalan: Castanyola—; *Chinese*: Hiang Fou Tzeu—; *Egypt*: Sa'ad—; *Filabusi*: Mlabie—; *French*: Souchet long, Souchet odorant—; *Italian*: Giunco odorato—; *Spanish*: Juncia olorosa—.

5. **Cyperus rotundus** Linn. is common in waste grounds, gardens, and roadsides in open spots. It is found throughout India and Ceylon, and in all warm parts of the world.

Ayurvedists describe the root as pungent, acrid, cooling, astringent, bitter, stomachic, and anthelmintic. It restores lost appetite, and is useful in leprosy, thirst, fever, diseases of the blood, biliousness, dysentery, intense itching, pain, vomiting, epilepsy, ophthalmia, and erysipelas.

According to Arabian and Persian writers the root is attenuant, diuretic, emmenagogue, diaphoretic, anthelmintic, and vulnerary. They recommend it for the treatment of ulcers and sores, fevers, dyspepsia, and urinary calculus. They prescribe it in large doses as an anthelmintic.

The roots are commonly used as a diaphoretic and astringent. They are also credited with stimulant and diuretic properties. They are held in great esteem as a cure for disorders of the stomach and irritation of the bowels. They are scraped and pounded with green ginger and, in this form, mixed with honey, they are given in cases of dysentery in doses of about a scruple, and are said to have been given with benefit in cholera. They are used too as a worm remedy. In the Philippines the bruised root is applied to the face for toothache.

In the Konkan the fresh tubers are applied to the breast to stimulate the flow of milk. In Chota Nagpur a decoction is used in fever.

In Malaya the tubers are smoked in cases of pain in the nose. In Cambodia they are a common remedy for fever and retention of urine.

According to the Chinese the small tubers act on the lungs and liver. Their general action is tonic, stimulating and stomachic.

In Ceylon a decoction is given in fever, diarrhoea, dyspepsia and stomach complaints.

The tuber is an Ayurvedic medicine for snake bites and scorpion stings; but Mhaskar and Caius have demonstrated that it is useless in the treatment of either snake bite or scorpion sting.

Sanjiva Rao, Panicker and Sudborough have studied the chemical composition of the essential oil from the tubers, but have not been able to isolate any pure substances from it (1925). Further work (1928) by Kimura and Ohtani does not throw any light on the therapeutic properties of the drug.

Annam: Cu co, Huong phu—; *Arabic*: Suad—; *Australia*: Yelka—; *Bengal*: Ghun, Motha, Mutha, Nagurmotha—; *Bicol*: Botobotones—; *Bombay*: Barikmoth, Musta—; *Cambodia*: Kravalchruk, Kravanhchruk—; *Canarese*: Tungegadde—; *Chinese*: Houi T'eou Ts'in, Hsiang Fu, So Ts'ao—; *Deccan*: Korekijhar—; *Egypt*: Burbeyt, Dis, Negil, Sa'ad, Sa'ad-el-homar, Sibl-el-ma'iz—; *English*: Nut Grass—; *Guam*: Chaguan, Humatag—; *Gujerati*: Motha—; *Hamadan*: So-ad—; *Hasada*: Sunumsangga—; *Hausa*: Ayaaya—; *Hindi*: Ghun, Motha, Mutha, Nagurmotha—; *Ho*: Rotesila—; *Iraq*: Ghusainiyah, Sa'ad, Su'aid, Sijil—; *Japan*: Hamasage, Kobushi—; *Kut*: Ghusainiyah—; *Lao*: Ya m'niu mu—; *La Reunion*: Oumine—; *Malaya*: Heong foo, Rumput haliva hitam—; *Marathi*: Bimbal, Motha—; *Mundari*: Bathabiiir—; *Naguri*: Mothatasad, Pirjimtu—; *Nasirabad*: Kabb—; *New Caledonia*: Jilio—; *Pampangan*: Cusung, Galonalpas, Malaapolid, Mota, Omading, Omadiung, Onoran, Sursur—; *Persian*: Suad, Su'd, Muschk-i-zemin—; *Sadani*: Mothaghas—; *Sanskrit*: Abda, Arnoda, Bhadrakshi, Bhadramusta, Gangeya, Granthi,

Gundra, Hima, Kachhola, Kakshottha, Kasheru, Krodeshtha, Kuru, Kurubilva, Kutannata, Musta, Mustaka, Sugandhigranthila, Valya, Varahi, Varida, Vindakhya—; *Santali*: Tandisura—; *Sinhalese*: Kalanduru—; *Sokoto*: Girigiri—; *Spanish*: Juncia redunda—; *Sudan*: Seid—; *Tagalog*: Mutha—; *Tamil*: Kora, Korai—; *Telugu*: Bhadramuste, Gandala, Kaivartakamuste, Mustakamu, Shakhatungaveru, Tungamuste—; *United States of America*: Nut Grass—; *Uraon*: Utrubanda—.

6. **Cyperus esculentus** Linn. inhabits the Upper Gangetic Plain and is found scattered from the Punjab to the Nilgiris and Anamalais. It is distributed over Southern Europe, Africa and America.

According to Ayurveda the tuber is cooling, sweet, acrid; galactagogue, astringent to the bowels, aphrodisiac; sharpens the appetite and improves the taste; useful in eye troubles, burning sensations, and leprosy; disturbs both heat production and heat regulation in the body.

The juice expressed from the tubers is used as an aphrodisiac in Sierra Leone and on the Gold Coast. In Guinea the tubers are given as a cooling drink; the leaves are applied topically for headache.

The root is an Egyptian remedy for colic and hypochondriasis.

The Zulus chew portions of the root for the relief of indigestion, especially when this condition is accompanied by foul breath. Zulu girls, with a view to hastening the inception of menstruation, eat porridge in which a handful of the boiled roots has been mashed.

In Madagascar the tuber is used as a stimulant and aphrodisiac.

The tubers are used as a vegetable in Southern Europe, and Northern and Southern Africa, and, after roasting and grinding, as a substitute for coffee and cocoa. They contain fatty acids, sucrose and starch; but no alkaloid, caffeine or asparagin.

Ada: Fie—; *Afrikaans*: Euntjie, Hoendernintjie, Uintjie—; *Catalan*: Chufa—; *Egypt*: El-aswad, Es-sogheyyer, Habb-el-'aziz, Habb-el-'azizza, Sa'ad—; *English*: Chufa, Earth Almond, Ground-almond, Nut Sedge, Rush Nut, Tiger-nuts, Zulu Nut—; *Ewe*: Fie, Fio—; *Fanti*: Atadwe—; *French*: Souchet comestible, Souchet sultan, Souchet tubéreux, Trasi—; *French West Africa*: N'ton—; *Fululde*: Watuje—; *Ga*: Atangwe—; *Greek*: Kiperos—; *Hausa*: Aya—; *Hindi*: Chichada—; *Hova*: Karepoka—; *Kreni*: Fio—; *Krobo*: Fai—; *Madagascar*: Karekika—; *Malinke*: Toki—; *Malta*: Babbagiggi, Chufa, Dolcichini, Edible Rushnut, Habbghaziz—; *Puniab*: Dila, Kaseru—; *Sanskrit*: Kasernka, Kshudramusta, Sugandhi, Sukanda, Sukareshta—; *Spanish*: Chufa, Juncia avellanada—; *Transvaal*: Einches—; *Twi*: Atadwe—; *United States*: Chufa—; *West Africa*: Rush Nut, Tiger Nut—; *Zulu*: inDawo—.

7. **Cyperus stoloniferus** Retz is found on the shores of India, especially in sea sand, from Sind to Ceylon, Coromandel and the Malay Peninsula. It has also been found in the Nilgiri Mountains. It is common in Malava where it is found in the sandy sea shores, and in tidal mud: in the former short and wiry, in the latter taller and longer-leaved. It is distributed to China, Australia and Mauritius.

The scented tuber is reputed stomachic, and considered a good stimulant for the heart.

Persian: Mutransialian—; *South India*: Jatamansi—.

8. **Cyperus platyphyllus** Roem. and Schult. occurs in the Deccan Peninsula and in Ceylon.

The tuber is said to be tonic and stimulant.

Fimbristylis.

This genus consists of 225 species, chiefly tropical.

Fimbristylis junciformis Kunth occurs throughout India from Kashmir to Madras and Pegu, up to altitudes of 1,500-5,000 ft. It is also found in the islands of Ceylon and Madagascar and the Philippines.

The Santals use the root in dysentery.

Santali: Bindimuthi—.

Juncellus.

The genus numbers about 20 species inhabiting all warm regions.

Juncellus inundatus C. B. Clarke is frequent in swamps, from Sylhet to the sea. It extends to China.

The tubers are used as a tonic and stimulating medicine.

Bengal: Pati—; *Hindi*: Pati—.

Kyllinga.

This genus includes 50 species inhabiting tropical and sub-tropical regions.

K. odorata Vahl is used medicinally in Brazil.

A. Nut-bearing glume winged in upper half of keel ... 1. *K. monocephala.*
B. Nut-bearing glume not winged in the upper half of its keel:
1. Rhizome practically absent ... ... 2. *K. triceps.*
2. Rhizome elongate ... ... 3. *K. brevifolia.*

1. **Kyllinga monocephala** Rottb. is found throughout India and Ceylon, generally growing in the shade. It is very common in the waste grounds and along the roadsides of Singapore and other parts of the Malay Peninsula. It occurs in the hot and warm regions of the Old World, except the Mediterranean.

The root is a popular cooling medicine much used in fevers. It is often used in the same way and for the same purposes as that of *K. triceps*.

The herb is used as an antidote in many parts of India; but Mhaskar and Caius have shown that it is not an antidote to either snake venom or scorpion venom.

Bengal: Nirbishi, Svetagothubi—; *English*: Button Sedge—; *Guam*: Botoncillo, Chaguan lemac—; *Hawaii*: Kaluja—; *Hindi*: Nirbishi, Swetgothubi—; *Malay*: Rumput butong—; *Malayalam*: Mottenga, Pimottenga—; *Marathi*: Mustu—; *Pampangan*: Malaapolid—; *Sanskrit*: Musta, Nirvisha—; *Tagalog*: Mustu—; *Pampangan*: Malaapolid—; *Sanskrit*: Musta, Nirvisha—; *Tagalog*: Anuang—; *Visayan*: Barubatones, Barubotones, Bolobotones, Borobotones, Bosicad, Botonsilo, Malabotones, Mutha, Sudsud, Tobotobolangit—.

2. **Kyllinga triceps** Rottb. is to be found in Sind, Gujerat, Deccan, Konkan, the Southern Mahratta Country, the North-West Provinces, Rajputana, Burma, Ceylon. It extends to China, North Australia and Africa.

The herb is an Ayurvedic drug described as bitter and cooling, good against infection or poison, useful in healing wounds and regulating the heat of the body, valuable in the treatment of nervous troubles and of diseases of the blood.

In Malabar a decoction of the roots is used to relieve thirst in fevers and diabetes. Oil boiled with the roots is used to relieve intensive itching of the skin.

The roots yield an essential oil which is used to promote the action of the liver and to relieve thirst in fevers and diabetes.

Bengal: Nirbishi, Svetagothubi—; *Hindi*: Nirbisi, Shwetgothubi—; *Malayalam*: Mottenga, Pimottenga—; *Marathi*: Mustu—; *Sanskrit*: Apavisha, Avisha, Nirvisha, Vishabhava, Vishaha, Vishahantri, Vishavairini, Vivisha—.

3. **Kyllinga brevifolia** Rottb. is common throughout India, Ceylon and Malacca. It is common on roadsides and waste ground in the Malay Peninsula. It thrives in all warm regions, except the Mediterranean.

The Malays use the rhizome for poulticing sore legs.

Malay: Rumput tuki—.

Remirea.

The only species of this genus, **R. maritima** Aubl., is found on all tropical sea-shores. It is common in sea-sand in Canara, Tenasserim, the Malay Peninsula, the Nicobars, Ceylon. It is very common in tropical America.

The stock is astringent and diuretic. An infusion of the root is given as a sudorific and diuretic in Brazil and Guiana.

Betsimisaraka: Bararatandriaka—; *Brazil*: Parahura—; *French Guiana*: Remire—.

Scirpus.

The genus includes about 200 species, dispersed all over the world, as far as the Polar regions.

S. lacustris Linn. is used medicinally in Europe, *S. maritimus* Linn. in China, *S. cernuus* Vahl and *S. paludicola* Kunth in South Africa.

A. Nut marked with transverse wavy lines; hypogynous bristles absent:
  1. Spikelets in a single lateral dense head ... 1. *S. articulatus.*
  2. Spikelets clustered in rays of a lateral umbel ... 2. *S. corymbosus*
B. Nut not marked with transverse wavy lines; hypogynous bristles present:
  1. Glumes 2-fid at the apex:
    a. Stems cylindrical. Rhizome thick ... ... 3. *S. lacustris.*
    b. Stems trigonous. Rhizome with tuber-like round swellings ... ... 4. *S. maritimus*
  2. Glumes not 2-fid at the apex ... ... 5. *S. grossus.*

1. **Scirpus articulatus** Linn. is found throughout India from the Himalaya to Ceylon and Moulmein, ascending up to 3,000 ft. It extends to the Philippine Islands, Australia and Africa.

The plant is used as a purgative.

Bengal: Putputichechka—; *Hindi*: Chichora, Patpatichechka—; *Telugu*: Luttipittaalli—.

2. **Scirpus corymbosus** Heyne occurs in Western India, Mount Abu, Goonah, Jubbulpore, Hyderabad and Bangalore. It is also found in Africa and Madagascar.

In South Africa it is suspected to be poisonous to cattle.

3. **Scirpus lacustris** Linn. is to be found in Kashmir and Ladak reaching altitudes of 4,500-5,000 ft., also in Muneypore. It is distributed over Europe, Africa, Australia and North America.

The stock is astringent and diuretic.

French: Jonc des chaisiers, Jonc d'eau, Jonc d'étang, Scirpe des marais—; *Madagascar*: Sabotraka, Savotraka—; *Malta*: Bass, Common Bulrush, Giunco di palude—.

4. **Scirpus maritimus** Linn. is found from Kashmir, Kashgar —10,000 ft., and Moradabad to Mysore and Malabar. It is distributed all over the Old World and is represented by varieties in Australia and America.

The root is used in China as an astringent and diuretic.

Chinese: Ching San Ling—; *Egypt*: Debshe—; *Malta*: Sea-side Clubrush, Spurt Grass, Mosca, Erba nocca—; *Nasirabad*: Kab—; *Punjab*: Dila, Murak—; *Sibi*: Kab—.

5. **Scirpus grossus** Linn. fil. occurs throughout India with the exception of the North-Western area. It is found from Sind and Assam to Ceylon and Malacca, extending to the Malay Islands, Cochinchina and Indo-China.

According to Ayurveda its properties are the same as those of *Cyperus esculentus*.

Yunanists describe the root as slightly sweet, cooling, laxative, tonic to the liver, good against infection and poison, diuretic; useful in burning sensations, vomiting, diarrhoea, fever, and gonorrhoea.

The root has astringent properties and is given to check diarrhoea and vomiting.

Bengal: Kasura, Kesari, Kesor, Kesur—; *Bombay*: Kachera—; *Hindi*: Kasuru, Kesur—; *Malay*: Rumput mendarong, Rumput murong, Rumput musiang—; *Marathi*: Kasara—; *Mundari*: Jomekesari, Kesari, Khesari, Marangkesari—; *Sanskrit*: Gundakanda, Kaseru, Kasernka—; *Telugu*: Gundatungagaddi—; *Uraon*: Kesari—; *Urdu*: Kaseru—.

REVIEWS.

I. POPULAR HANDBOOK OF INDIAN BIRDS. By HUGH WHISTLER, F.Z.S., M.B.O.U. Second Edition. Illustrated. Gurney & Jackson, London (1935). Price 15 shillings net.

Lovers of Indian bird-life will welcome the appearance of the second—revised and enlarged—edition of this useful volume, first issued in 1928 and reviewed on page 180, vol. xxxiii of the *Journal*. As most of the outstanding features of the work have already been commented on by the previous reviewer, it is only necessary now to indicate wherein the present volume differs from its predecessor and to what extent the criticisms then made have been met.

As against the 17 full page plates (81 figures) including 4 in colour, and the 85 text-figures of the first edition the present work contains 20 full page plates (95 figures) of which 5 are coloured, and 96 figures in the text. The number of pages in the present edition is 513 as against the previous 438, while for the 250 species described at length before there are now 275 besides which 230 species are mentioned in short paragraphs giving the salient points in their description and distribution. Most of the commoner birds of the vast Indian Empire thus find a place in the present volume. The text has been carefully revised and brought in line with the advances made by Indian ornithology during the last few years.

The criticism on the first edition—partly justified—that it dealt very largely or more or less exclusively with the birds of North-West or Western India no longer holds, and though the author fully realises the impossibility of any two opinions agreeing as to which are and which are not amongst the really 'common' birds of India, he has succeeded remarkably well in making the selection as representative as possible.

Sizes of birds given in inches, as is the case in the present volume, convey extraordinarily little to the man in the street. We would have liked the sizes expressed in some more intelligible form e.g. by comparison with some of our commonest species such as Crow, Myna, Bulbul, Sparrow and others. A table of measurements of these 'standards' at the beginning of the book might have helped the reader to get a better idea of the figures where they appeared in the text. Personally we also think—and perhaps many may not agree—that the time is long past when even in popular ornithological works the use of the inch as a unit of measurement should be encouraged. In view of present-day methods and tendencies and of the universal recognition of geographical races, it seems to us necessary and desirable that ornithologists should grow up with their ideas of size in millimetres rather than in inches and their cumbersome fractions. Therefore, *if* measurements are given at all they should, to be of any value, be expressed in the metric system. It is only fair to mention, however, that in the present instance these points have not been overlooked by the author. He weighed them carefully but finally came to the conclusion that as the measurement of length is practically valueless except to the 'popular' observer, it might be as well to give it in inches since they are familiar to him, and even the most lay can hold his two forefingers up and say 'That is about six inches'.

Inspite of the increase in bulk and contents it is gratifying to note that the old price has been maintained. The book in its present form is all that the average bird-lover can desire and, as it fills a very distinct niche in Indian natural history literature, we can confidently predict the same popularity for it as was enjoyed by its predecessor.

S. A. A.

II. TIGER UND MENSCH. By BENGT BERG. 9½″×7″. 187 pages, 63 plates. Dietrich Reimer/Ernst Vohsen, Berlin (1935). Price, 4.80 R.M.

On the continent of Europe the name of Bengt Berg is synonymous with superbly illustrated books on natural history. He enjoys the reputation of being one of the foremost nature photographers and has a style of writing

that goes direct to the heart of the nature lover. Both these qualities reflect directly upon the popularity of his wide and ever-increasing range of books, many of which have run into several editions and to between twenty-five and thirty-seven thousand copies each.

The earlier publications on which rests the fame of Bengt Berg concerned themselves mostly with birds, but spurred no doubt by his achievements and by the possibilities he discovered when in India some years ago to make photographic records for his book *Der Lämmergeier im Himalaya*, he has of recent years taken to photographing the wild animals of the Indian jungles. His magnificent studies of the Rhinoceros (*R. unicornis*) in Bengal may be seen in his book *Meine Jagd nach dem Einhorn*, published in 1932 or thereabouts.

The present book, dealing principally with the tiger, is evidently written for stay-at-home foreigners who have only seen the animal behind bars in a Zoo, and have at best somewhat hazy and fantastic notions regarding its life and habits. While it contains nothing that can be called startlingly original or which cannot be found in any good book on Indian natural history, some of the points dealt with are of more than usual interest and reflect keenly on the author's powers of observation. As the book is in German and may not be intelligible to many of our readers, it may perhaps be desirable to touch on some of its contents briefly, though this must necessarily be in rather disjointed fashion.

Doubt is cast by the author on the customary explanation for striped and spotted colouration that it is protective or obliterative in a jungle environment, since most of its possessors move about chiefly in the dark when there is no sunshine through the foliage or the grass and reeds to render the colouration advantageous. It is stressed, however, that spotted or striped colouration is most obliterative in moonlight.

It is suggested that the fact of there being so many more tigresses than tigers may be accounted for by the probability that adult males kill off their male descendants as soon as the latter start coming into direct competition with them. The Maharajah of Alwar, who is said to possess an incomparable knowledge of the tiger of his part of the country, assesses the proportion of tigers to tigresses as 1:5. In Alwar it appears that only tigers are shot and tigresses spared, which may account for this great disparity, but even elsewhere the proportion of the sexes is unequal. The author believes that the tiger is polygamous and claims to have studied the relations of the sexes first hand when after them for photographing purposes. The tiger is said to visit successive females in different areas or valleys, may be 10 or 15 kilometers distant from one another. Their wooing and courtship ceremonials as read from the spoor of a pair are described, and at page 59 a photograph is given of the impression in the sand on a stream bank where copulation had taken place.

A story retailing the steps that lead up to the making of a man-eater is rather well told, and the photograph accompanying it of a tigress slinking downhill through bamboo jungle is a particularly lifelike one.

The author agrees with most sportsmen in considering that Kipling is wrong in giving a better character to the panther in the *Jungle Book* than to the tiger.

The economic usefulness of the tiger is indicated by the statement that in many places where tigers have been shot out, jungle villages have had to be abandoned owing to the enormous increase in pigs and deer which rendered agriculture impossible. Many aboriginals are said to exist solely on food obtained from tiger kills through following the movements of vultures.

The correctness of the huge annual mortality statistics, officially attributed to tiger, panther and other wild animals is questioned. The author thinks they may be due to incorrect information supplied by petty officials, as whenever any unaccountable disappearance or death takes place in a village, it is either attributed to tiger or panther, or in their absence to cobras.

The comparative risks involved in following up wounded animals is discussed. Tiger and lion are given first place on account of their powers of concealment and of making themselves invisible coupled with their extreme vitality—even when mortally wounded—and the septic nature of their bites and mauling. Owing to the wooded character of the tiger's terrain as compared with the lion's, the former is considered far more dangerous and the relatively greater casualties among tiger hunters is cited as evidence of this.

The various methods of hunting tiger in India—machans, beats, etc., are described.

The author estimates—on what grounds we are not told—that the Hyderabad State may contain from five to six hundred tigers. Far behind come three or four States with half that number, and after these 50 to 150 tigers can be reckoned in each of the better-known tiger hunting States. He guesses that Nepal has probably not more tigers than Hyderabad. It is observed that their tiger population is an asset to the princes, not so much for their own sport as for entertaining distinguished guests with. 'Whoever in India can present a highly placed guest with a tiger, has a trump card in his hand which puts every other in the shade.' One Maharaja said to the author about his neighbour: 'A fine State and an excellent administrator, but' (this with a satisfied chuckle) 'he has no tigers!'

Some shrewd remarks concerning the shoots of distinguished guests in Indian States, the arrangements made for them and the measuring of tigers shot by the great ones show keen insight on the author's part. He has, however, great praise for the sportsmanship of the Indian princes. The Maharaja of Rewa is said to have shot over 600 tigers and hopes to complete his 1,000 some day.

There follows an extraordinary story of a vendetta between Bani Singh (a 'Bengali'!) and Yat Aung, a Burman, where the former is forcibly, and through an artifice, tied up as bait for a man-eating tiger. It is a bizarre and hair-raising episode graphically told, and remarkable, if true.

The facsimile reproduction of a letter from the Divisional Forest Officer, Nimar Division, testifying to the fact that the author's wife sat up alone in a machan one night and shot two tigers seems to us somewhat superfluous, but it perhaps carries its appeal to foreign readers!

The last chapter deals chiefly with the Rhinoceros (*R. unicornis*) and its present position in Bengal where it had recently reached the point of extinction at the hands of roving bands of poachers backed by Chinese gold. The author, by his book *Meine Jagd nach dem Einhorn*, claims to have roused the interest which culminated in the protective measures that have since been enforced. We are constrained to challenge this claim as extravagant, and not only unfair to Shebbeare, the Chief Conservator of Forests, Bengal, who has been the prime mover in this matter for years, but also an insult to the Forest Department and to the various bodies that have been striving in the interests of Wild Life Conservation in India.

Bengt Berg photographed a rhino calf three years previously and the same animal (distinguished by an old wound mark) again in the same spot on his last visit. He observes that unlike elephants, the rhino remains constant to its haunts, a factor which facilitates its destruction by poachers, but at the same time simplifies the question of its supervision by game watchers.

Particular interest attaches to this book in view of the somewhat warm discussions that have recently taken place in the Miscellaneous Notes section of the *Journal* regarding the ethics of flashlight photography. The objection raised was that the methods employed by Bengt Berg (for his identity can no longer remain concealed) in photographing wild animals at night were reprehensible and unsportsmanlike. What this gentleman apparently did in India was to plaster the jungle, especially the vicinity of water-holes, etc., with a number of automatic cameras worked by trip-wires running across the beaten tracks of animals. When the wire was tripped, the flash went off with the report of a hand-grenade and, being synchronised with the shutter, resulted in the animal photographing itself. It was contended that a number of such explosions going off in the course of a night had the effect of scaring away wild animals and speedily clearing the neighbourhood of game. If such methods of photographing were indulged in solely with the object and under the name of 'sport', we would join forces with the critics to condemn them whole heartedly. Fortunately, by virtue of the cost of such outfits and the expense of working them, it is unlikely that Bengt Berg's methods will ever become a serious menace to wild life in India. In the author's case, we think it is patent that he was not indulging in this pastime for the sake of sport alone. He was plainly doing it to obtain material for his books, one of which we have before us now, and naturally he wanted the maximum of results in the minimum of time. Illustrated books of this kind are all too few in India not to be

welcomed whenever they appear, and considering that they help, as little else can, in arousing interest in wild life and creating public opinion in its favour—vital to the success of any efforts at conservation—we are of opinion that some slight indulgence is called for of means that justify the end so admirably, especially as they result in no *permanent* harm to wild life. It will be realised by all, of course, that a thing of this sort can very easily be overdone and therefore, as a general practice, it is one to be discouraged.

The reproduction of the photographs does full justice to their charm and exquisiteness, and the printing of blocks on both sides of a sheet, has in our opinion, not detracted in any way from the artistic quality of the work as has been claimed by the publishers of two well-known books of the kind in England. An agreeable feature of the volume is its very modest price, equivalent at the present rate of exchange to about five rupees; this is a factor that must tell a great deal on its circulation under present economic conditions.

It is rather a pity that the letterpress should have been in the ornate Gothic type and not the clearer, easily-read Roman as has lately been the tendency in Germany to adopt. But this reversion may perhaps be part of the Hitlerian campaign for purification of Nordic institutions!

The excellent photographs alone entitle the book to a place in every nature lover's library.

S. A. A.

III. ZUR KENNTNIS NORDOSTASIATISCHER VÖGEL: Ein Beitrag zur Systematik, Biologie und Verbreitung der Vögel Kamtschatkas und der Kurilen. By STEN BERGMAN. Paper cover 10″×8″; 268 pp.; 2 maps; 16 plates. Albert Bonniers Förlag, Stockholm (1935). Price, 20 Kronor.

This volume embodies the results of the author's two ornithological expeditions, the first to the Kamtschatka Peninsula (1920-22) and the second to the Kuril Islands (1929-30) north of Japan.

The expeditions were financed by the Swedish Academy of Sciences, the Swedish Anthropological and Geographical Society and by other institutions and private persons. One of the latter, being a ship-owner, provided free transport to the members of the first expedition and their baggage to and from Japan, a form of public spiritedness that may well be emulated by our own shipping magnates and railway authorities in India!

The collections made by the expeditions were worked out by the author at the Natural History Museum, Stockholm, with the collaboration of such eminent authorities as Prof. Dr. Einar Lönnberg, Prof. Dr. Hialmar Rendahl and Dr. Nils Gyldenstolpe. The Leningrad Museum was also visited in this connection and we find the help of the late Prof. P. Suschkin and of the present director of the Bird Department, Dr. B. Stegmann, acknowledged. The material from Kamtschatka was partly sold and partly presented to the Stockholm Museum, while that from the Kuril Islands, which was richer both in species and in specimens, was presented by the author to the same institution.

A comprehensive history of ornithology in Kamtschatka and the Kurils is followed by geographical and topographical notes on the Peninsula and Islands, also some data as regards vegetation and climate. Then comes a short account of the author's itinerary on the two expeditions which is succeeded immediately by the systematic lists, arranged in separate sections, and containing some good field notes. Unfortunately we find no separate section dealing with Migration which would have added very considerably to the usefulness of the work as far as we in India are concerned. Since the author was in Kamtschatka continuously for three summers and two winters, he must have had the opportunity for accumulating ample data bearing on this subject. The times of arrival and departure of migrants are, however, briefly mentioned under individual species.

To us in India the greatest interest in the book lies in the fact that many of our winter visitors, especially to Assam and Burma, but also to Ceylon and the eastern side of the peninsula, come from round about the parts dealt with therein. Of the 133 forms listed from Kamtschatka we notice that 42 are cold weather visitors to the Indian Empire, while of the 144 forms from the Kurils we receive no less than 47. Many of these birds breed in the Kamts-

chatka Peninsula and/or the Kuril Islands, but others merely pass through on their way to and from their breeding grounds still farther north.

It is good to find that wherever a race is listed which has at some time or other been described as a novelty by the author himself, the reference and original description is quoted in extenso making it convenient for workers who cannot have access to all the journals—mostly Swedish—in which they were first published.

The fact that specimens of *Muscicapa latirostris* from the southern Kuril Islands in the proximity of northern Japan, have been determined as belonging to the typical race, *latirostris* Raffles, and not to *poonensis* Sykes which according to the *Fauna* (vol. ii, p. 249) they should be, would appear to support the contention of Messrs. Whistler and Kinnear (*J.B.N.H.S.*, vol. xxxvi, p. 86) that this Flycatcher has no races—at any rate that *poonensis* of the *Fauna* cannot be recognised. The measurements given by Mr. Bergman for his Kuril specimens (3 ♂♂ wing 70-72 mm., 4 ♀♀ wing 68.5 mm.) certainly agree well enough with birds from Sumatra etc. (*latirostris* according to the *Fauna*) as well as with those from the plains of India and also again with the measurements given by Mr. Stuart Baker for birds from 'Japan to the Himalayas' (i.e. his *poonensis*).

The photographs—32 in all—of topographical, vegetational and avian subjects are excellent, and the extensive and useful bibliography at the end of the book adds considerably to its value as a work of reference.

S. A. A.

IV. LAC AND INDIAN LAC RESEARCH INSTITUTE. By Dorothy Norris, P. M. Glover and R. W. Aldis. (Calcutta, 1934. Price Rs. 2-8.)

The Indian lac industry was greatly affected by the war, as it not only altered the value but also the direction of the lac trade. The lac, as is well known, is virtually an Indian monopoly, and its high price during and after the war greatly stimulated the manufacture of synthetical rival products. The Government of India fearing the fate of the Indigo industry appointed a Commission to investigate the conditions of the industry and make recommendations for safeguarding it. The report of the Commission was issued in 1921, and as a result in 1925 the Indian Lac Research Institute was founded with its headquarters at Namkum, Ranchi (Bihar and Orissa).

The work under review after briefly surveying the Indian lac industry, in which is included its early history and its entomological aspect, gives an account of the areas of major importance in lac cultivation and the uses of shellac. The synthetic substitutes of lac are discussed in detail, and a short chapter is devoted to the necessity for research. The foundation and work of the Lac Research Institute at Namkum are discussed in detail in a later chapter. In connection with the latter a full account is given of the biochemical, chemical, physio-chemical and entomological research at the Institute. A detailed bibliography is added and a glossary explaining the terms used in the work is appended. Detailed statistics of lac production in Assam, Burma and countries outside India are also given and the question of the future of the lac industry in the country is discussed in detail.

The work, which is well written and fully illustrated, is very opportune and should serve as a work of reference hereafter.

B. P.

V. THE FAUNA OF BRITISH INDIA, INCLUDING CEYLON AND BURMA. Reptilia and Amphibia. By Malcolm A. Smith. (Vol. II. *Sauria*, pp. i-ix, 1-440, 1 pl., 2 maps, text-figs. February 1935, London.) Published under the authority of the Secretary of State for India in Council and edited by Lt.-Col. R. B. S. Sewell, F.R.S. Taylor and Francis, 30 shillings.

In my review of the first volume of the series (*Journ., Bombay Nat. Hist. Soc.*, xxxv, p. 881, 1932) attention was directed to the great improvement effected by Dr. Malcolm A. Smith in his revision of a part of Boulenger's

work published in 1890. The same high standard has been maintained in the treatment of lizards, which form the subject matter of the second volume.

In the introduction the author gives a short but succinct account of the structure of the animals, with particular reference to the skin, the teeth, the salivary glands, the tongue, the cloaca, the femoral glands and the eggs. The changes in colour and colour-patterns are briefly described and a note on the fragility of tail is also added. The phenomena of evolution and devolution are illustrated by reference to the diversities in the structure of the adhesive digital pads, the eyes, the limbs, the digital characters and the degree of degeneration of the ear. Attention is also directed to the partial or total degeneration of limbs and to the probable significance of the digital characters. Reference is made to the close affinity which certain Indo-Chinese and Malayan lizards have with forms that inhabit Southern India and it is pointed out that no satisfactory explanation has so far been given for this discontinuous distribution of the species. Skins of lizards are now extensively used for making leather and Dr. Smith gives very useful information on the subject under the section entitled 'Economics'. For non-technical readers the hints under 'Preservation and Examination of Specimens' and 'Measurements' should prove very useful.

The systematic account of lizards contains a description of 297 species, 248 of which are from the Indian Empire. Much valuable information is included under each species and the workers on the group will always be indebted to the author for indicating, so far as possible, the type-localities and the present location of the types of the species treated. The work is full of notes based on personal observations and much biological information has been collected from other sources as well. The volume is fully illustrated. In short, for the present-day needs of taxonomic workers, museum curators and amateurs the work is most helpful and the author is to be congratulated on this production. The next volume on 'Snakes' will be awaited with considerable interest by Herpetologists in particular and naturalists in general.

S. L. H.

MISCELLANEOUS NOTES.

I.—A NOTE ON THE DISCOVERY OF *PIPISTRELLUS MORDAX* (PETERS) THE GRIZZLED BAT IN CEYLON.

Amongst a small collection of Pipistrelles sent down to me during 1933 by Mr. A. C. Tutein-Nolthenius from West Haputale, Ohiya, were two specimens of a bat that I had not previously seen in Ceylon. At first, I was inclined to believe that they were representatives of a new species, but as neither of them were good specimens I laid them aside until further specimens should be forthcoming. Later, as no others were then obtainable, I forwarded them to the South Kensington Museum, together with a few specimens of other species, for the opinion of Mr. M. A. C. Hinton.

In the meanwhile, however, on my return from leave in England, Mr. Tutein-Nolthenius forwarded to me a further complete specimen of the same species that he had caught in his bungalow. This, after careful study, confirmed by comparison with a specimen very kindly sent down to me by the authorities of the Bombay Natural History Society, I find to be an undoubted specimen of the Grizzled Bat, *Pipistrellus mordax* (Peters).

The type-locality of this species is given as Java, but the only existing Indian specimens have been obtained from Kumaon, Calcutta, Darjeeling and Kurseong (6,000 ft.) in the Eastern Himalayas, so it is of great interest to find that the species is also resident in Ceylon.

West Haputale, Ohiya, where it was found by Mr. Tutein-Nolthenius is in the highest part of the Central mountain cluster of Ceylon, the bungalow being at an altitude of 6,000 ft.

As only three specimens have been secured in spite of careful search, and as it has not been found previously, it would appear that the species is confined in Ceylon to the highest hills and that it is not at all plentiful.

The occurrence of Himalayan species in Ceylon is not unusual, a number of the mountain forms in Ceylon being very closely allied to, if not identical with, Himalayan forms; but it is curious that, in a number of instances, no similar or allied forms have yet been found in the Nilgiris. It is quite likely, however, that when the fauna of the higher South Indian mountains is better known, some of the species that at present have been recorded only from Ceylon and the Himalayas will be found in the intervening mountain tracts.

COLOMBO, CEYLON. W. A. A. PHILLIPS.

January 23, 1935.

II.—TIGERS IN THE SUNDERBANS.

I enclose the measurements of a Sunderbans tiger which I shot on the 28th December. I have heard that at one time you were anxious to collect data regarding the tigers of the Bengal Sunderbans, which seem to show very definite traits as a distinct race. It is a very different animal from the tiger of the Bengal duars (Terai).

As you know the Sunderbans tiger is a born man-eater and a source of endless trouble and inconvenience to us Forest Officers. Last year alone, there were 45 deaths of forest coolies attributed to tigers. We pay out high rewards to professional shikaries for the destruction of tigers, and since last March have received between 30 and 40 skins and skulls of tigers destroyed.

The skulls are usually destroyed, and are often sent in bad condition by the shikaries, but if you are interested, I can probably get some good skulls for you.

The tiger whose measurements I enclose was shot by me from my steam-launch at 4-30 p.m. on the 28th December 1934. At the time it was swimming across the Betmore Khal, a channel about ¼ of a mile wide. I shot the tiger through the head and killed it dead, and the body floated quite buoyantly. The tiger was a typical Sunderbans animal, an old male in good condition, short and stubby, with a heavy barrel-shaped body, and a coat of rather a pale tawny colour.

If the Sunderbans tiger are of any special interest to you, and if you think I can collect any specimens or data of value, I shall be glad to hear from you.

T. V. DENT,
I.F.S.

SUNDERBANS FOREST DIVISION,
KHULNA, BENGAL.
January 4, 1935.

[The measurements given by Mr. Dent of the tiger shot by him are as follows:—

Body Length (over curves)	9′
,, ,, (between pegs)	8′ 8″
Tail	2′ 10″
Height at shoulder	34½ ″
Girth behind shoulder	43½ ″

Mr. Pocock in his recent article on Tigers (*Journ., Bombay Nat. Hist. Soc.*, vol. xxxiii, p. 505) has shown how little is really known as regards variation among tigers in India due to age, season or locality. To arrive at any definite conclusions regarding such variation it is necessary to examine properly sexed skins and skulls obtained at different seasons from different parts of the country. The peculiar conditions under which tigers live in the Sunderbans may produce variation sufficient to differentiate them from tigers found in other parts of India. But without adequate data it is impossible to say whether such variation occurs, or if it does, to indicate its extent. We therefore gladly avail ourselves of Mr. Dent's offer to collect material from the Sunderbans and would

welcome any notes that he can send us. We should also like to take this opportunity of once again drawing the attention of members to the need of obtaining skins and skulls of tigers from other parts of the country. We are aware that sportsmen do not usually part with such trophies but there may be many occasions when such contributions to our collections may be possible.—EDS.]

III.—TIGER KILLING SOLITARY BULL BISON (*BIBOS GAURUS*).

In the past six months three fine solitary bull bison have been killed by tiger on the Billigirirangans: all carried good and old heads.

Previous to this I have only known of four actual kills of solitary bulls (in twenty years) and of several unsuccessful attacks.

HONNAMETTI ESTATE,
ATTIKAN P.O., *via* MYSORE.
January 3, 1935.

R. C. MORRIS,
F.Z.S., F.R.G.S.

IV.—TIGERS BURYING THEIR KILL.

As it has been questioned as to whether tigers sometimes bury their kill in Burma or not, I venture to record an interesting case that came to my notice in the Bhamo District.

A natural kill of a sambhur was reported to me, and I hurried off to see it. The sambhur had been killed, and dragged into a depression among long grass, but the villagers had taken the meat; and when I saw it nothing much remained. The man who showed me the kill then told me that the tiger had last night removed the few bones that had been left, and had buried them nearby. We went to see. About 20 yards out in the forest and under some teak trees I came across a considerable mound—perhaps three feet high, and of diameter about six feet across. It had been undoubtedly made by the tiger for his claws and pugs showed how he had scraped up the heap most clearly—just as if it had been raked up into a heap with a garden rake! It consisted of various debris to be found around, earth leaves, sticks, stones etc.—but what was most remarkable was that *a thick bough of a tree had been placed on top and right across it all*, as if to keep the whole down securely. There were no man tracks, or signs of man about, and I had little doubt that it was the tiger who had done this. The Burman with me assured me it was the work of the tiger. The bough was about eight feet long and about six inches in diameter—quite a weighty affair.

From under the heap came sufficient smell to leave no doubt about what was there. I did not disturb the mound.

That night I sat up in a teak tree over the mound. Rain began to fall slowly and it was very difficult to hear anything as the raindrops fell on the wide teak leaves. When it was quite dark I thought I detected a slight sound in the vicinity of the heap—then there was a sudden rush and the sound of the dog of wood cast aside.

Nothing else happened. In the morning I examined the place carefully. The log had indeed been cast aside and was now lying about three feet away from the heap!

It must have been the tiger, but he had been scared by my presence and had plunged away. The fact that he had removed the log was sufficient proof to me that *he had himself placed it there* in the first instance. Tigers in Burma are excessively shy of anything in the shape of a trap, and had a man placed the log over the heap the tiger would most certainly not have dared to touch it.

TAUNGGYI, SOUTH SHAN STATES,
BURMA. T. R. LIVESEY.
March 29, 1935.

V.—HOW TIGERS KILL THEIR PREY.

In Burma all the buffalo I have seen killed by tigers had been hamstrung—the hocks, or one hock, crushed by a bite. I think this is invariably the way they kill buffalo, bison and tsaine in this country. In this way they do not risk an injury from the horns of the beast attacked. Burmans who have actually witnessed such attacks on their village buffaloes describe it as taking place in this manner, but they add that once the tiger has been able to roll the buffalo over by this crushing of the hock, he attacks, not the neck, but the belly. This is ripped up and causes death. I can quite believe this, as the neck of these large animals is too thick and massive for a tiger to bite into and reach a vital part, and besides there is the danger of injury from the horns and forefeet of the fallen prey. Neck bites are probably taken after death.

Do tigers and lions ever kill their game with a blow from their fore paw? I believe that they never do, and that they are quite incapable of delivering a powerful blow in this manner. It would seem to be against all reason, for they seek to grasp their game, not knock it away from them!

Kills never show such broken bones and bruises as would result from killing by blows.

It is constantly stated in popular articles that they do kill by a blow. Recently Major Forhan in the *Illustrated Weekly of India* stated in an article on the man-eaters of Tsavo that a man had been 'obviously killed by a blow' but gave no further details to substantiate this astonishing statement.

In the old days the Rajput princes used to sew up the mouths of tigers and cut off their claws, and then wrestle them with men. Sir Pertap Singh used to tell us so. If tigers could deliver a death blow the men would have been killed. The whole point of such contests was that man and tiger fought on equal terms.

TAUNGGYI, SOUTH SHAN STATES,
BURMA. T. R. LIVESEY.
March 29, 1935.

VI.—NOTE ON THE RECORD INDIAN LION (*PANTHERA LEO PERSICA* MEYER).

What is believed to be the record Indian lion was shot in the Gir Forest of Junagadh by Lord Belper on 8th March 1935. It was carefully measured between pegs and showed a length of 9 ft. 9½ in. The previous record, at least for the Gir Lion, is believed to have been 9 ft. 7 in.

JUNAGADH. P. R. CADELL.
April 9, 1935.

[The largest Indian lioness measured 9 ft. 5 in. (Rowland Ward 1928 Edition.)—EDS.]

VII.—ANTI-RABIC TREATMENT OF AN INDIAN LION (*PANTHERA LEO PERSICA* MEYER).

On 15th March 1935, a dog entered the Sakar Bagh in Junagadh, where a number of Gir lions are kept in captivity, and, after biting two local dogs, ran up to the bars of the open air compound of the cages in which the lions are kept. Sultan, a six year old lion, rushed to the bars to have a look at the dog which promptly bit upon the muzzle. Those who saw the incident agree that Sultan did not bite or strike at the dog, which however collapsed. A gun was procured and the dog was shot. It was almost certainly mad. When the matter was reported orders were issued for anti-rabic serum for animals to be obtained, but, as there seemed likely to be some delay in getting it, it was arranged for the lion to be inoculated with the serum kept in the local hospital for the treatment of human beings. An ingenious arrangement was prepared by Mr. E. A. Alton, Motor and Aeroplane Officer, whereby Sultan, having been induced to enter a small cage, was cooped at one end of it by a movable board. The serum was then injected by Mr. G. B. Fernandes, Veterinary Surgeon, in the loose skin below the belly. Sultan was allowed, after the injection, to return to his own cage. He did not appear to feel the prick of the injection, and entered the small cage daily without objection till the treatment was completed. The daily dose given was 10 cc. i.e., double the normal dose for a human being. No signs of rabies have appeared.

JUNAGADH. P. R. CADELL.
April 9, 1935.

VIII.—ABNORMAL DENTAL GROWTH IN A RAT.

(*With a photo*).

At Paungde (Burma), in the course of energetic trapping during the plague season of 1932, a rat attracted special attention by the size of its teeth which prevented its entry into the trap. A photograph of this rat was exhibited at a meeting of the Zoological Society of London on May 17th, 1932. The comparative rarity of

the condition and the special features associated with it, together with the fact that neither the photo nor description has yet been published, render desirable a record of this case of abnormal incisor growth. The rat was identified as *Rattus norwegicus* (Erxleben 1777).

Abnormal teeth in a rat.

The length of the body was 4.5 in., that of the tail 3.75, and that of the hind-foot 1.25. The inferior lateral incisors have grown in a more or less, semi-oval shape successively turn upward, backward, and slightly outward. In their first quarter, they enclose and come in apposition with the lateral aspects of the front part of the upper jaw including the nose, and lie free in the rest of their course. When viewed from the front the upper jaw appears to be wedged in between the lower parts of the pair of 'tusks'. Each individual tusk is approximately 3.5 cm. in length and 2 mm. in diameter at its base: in cross-section the base is circular but, as the tusk tapers to a point, it becomes flattened. The pair of central incisors is also abnormal, each being approximately 1 cm. long. In addition a stump of an old broken tusk can be seen.

As a result of these abnormal dental growths the facial appearance of the animal is considerably altered. The upper jaw is separated from the lower by a gap of 8 mm., the mouth being closed by the dental bars like a prison gate.

The abnormal growth of rodent incisors is reputed to be of common occurrence, but rarely do we find such abnormal features as the present example. What causes this abnormal growth? Cases of abnormal growth of human incisors are known. The factors which produce these may also be responsible for the formation of abnormal rodent ones, though to a greater extent. Close apposition of two sets of teeth keeps their size within normal limits: loss of that apposition, for any reason, reduces or prevents wear. Further, the mechanical features associated with mandibular movements cause the dental outgrowths to take the direction of greatest mechanical advantage. Whether the abnormal dental direction, resulting in abnormal dental growths, is the outcome of a congenital malformation, or of an acquired traumatic or other pathological condition, cannot be definitely stated. The lack of any evidence of trauma or disease favours the probability of the condition being congenital. Whatever the original causative factors,

that the resulting condition must have profoundly affected the dietetic habits of the animal is obvious, the animal not only being deprived of the important cutting function of the teeth, but also having to encounter great mechanical inconvenience in biting and mastication: this is the explanation of its emaciated appearance.

PAUNGDE, BURMA. R. L. SONI,
February 23, 1935. M.B., B.S.

[The specimen has since been submitted to Sir Frank Collyer, Royal College of Surgeons, London, whose report is awaited.—EDS.]

IX.—BIRTH OF AN ELEPHANT CALF (*ELEPHAS MAXIMUS* LINN.).

During a shooting trip at the end of last year, at Christmas, my friend Mr. N. H. Dendy of Tillicoultry Estate, Lindula, came across something so unusual and interesting that I think it should be recorded in the *Journal*.

Mr. Dendy was camped near the Menik Ganga, the river, one of the natural boundaries of the Yala Wild Life Sanctuary, soon to be declared the first Strict Natural Reserve in Southern Province, Ceylon. One morning quite early Mr. Dendy and his men walking along the high river bank, disturbed and watched a cow elephant and her calf.

After about half an hour the mother and calf moved away slowly into the dense forest along the river. The men remarked that the calf could not possibly be much older than a day or two. They had never seen so small a calf.

Going further, something red on the sands drew their attention and going down to look, they found the perfectly fresh placenta of the elephant. Knowing the elephant's habits, this must be a most rare experience and it would be of interest to know if this has ever been recorded before. It was early in the morning so the sun was not high enough up yet to shine and dry it. A certain proof the elephant had calved that night or even, and I think more likely, only a few hours before the party reached the place. It is known that an elephant calf is able to get up and follow the mother about two hours after birth, while various authorities state that the elephant eats the placenta.

At any rate it must be extremely rare to find it, as the sun would soon dry it up, if jackals, crocodile, etc. had not made away with it. The very exceptional drought this poor country has suffered from so severely, no doubt made the elephant choose this unusual place for the calving, knowing that the pools left in the river, were the only water she could get within miles. As a rule the elephant mother chooses the most dense cover she can find, which is all the more reason few, if any, have ever come across so remarkable a find in the jungles and wilds.

In the sand, Mr. Dendy and his men could see clearly the place she had laid down to give birth.

Mr. Dendy estimates the total weight of the placenta at about 5 to 6 lbs. The far side, darkly coloured, consisted more or less of solid flesh, the lighter coloured and a small patch on the right, was like frothy blood. Much to the surprise of Mr. Dendy, after some hesitation, the excited men asked if they might take it, they explained that when washed and dried, the solid part would make a very valuable and excellent medicine. It is said that a small bit of the dried substance, dissolved in a little lime juice and water, will at once relieve a woman's labour pains, or will help to advance an overdue confinement.

All folklore is of great interest, but considering the so great rareness of ever finding the placenta of a wild elephant, this bit of jungle lore is all the more unique.

Both men, as well as others who have spent their lifetime as watchers in the sanctuary and the neighbouring reserve, had never seen the placenta and knew of no one who ever had. The two men with Mr. Dendy had never come across the calving place of an elephant, a very rare thing to find. And yet, handed down for generations, they one and all knew the story of this most valuable medicine.

It was not quite clear from the impressions in the sand, to be quite certain about the position the cow elephant had occupied, but in all probability she must have been lying on her right side, her back turned towards the place where the men are standing.

In this connection it is of interest to remember the photograph of a cow elephant which died in calving, published in 'Kill, or be killed', by Major W. Robert Foran. This photo clearly shows the animal lying in the kneeling position. I have not been able to find any authority who describes the true position the elephant calves.

It would be of interest to know if any one has ever come across so rare and unusual a find as described above.

WEST HAPUTALE,
OHIYA, CEYLON. A. C. TUTEIN-NOLTHENIUS.

April 9, 1935.

[G. H. Evans in his work on *Elephants and Their Diseases* describes the birth of an elephant calf on information obtained from an experienced Burman—'When about to give birth the female seeks soft ground. The calf may be presented head and fore feet or the hinder parts may appear first. If the membranes are not ruptured by an attendant, the female does so with her foot. The young one lies from one to two hours after birth, occasionally moving ears, trunk, limbs, after which it gets on its legs and can walk. Elephants even in the wild state may die in labour—the author records an instance. A newly born calf can walk well enough after a few days to follow the mother on a short march, and in the wild state, when a calf has been dropped, the herd remains in the vicinity until it is able to follow the mother; which is generally in about 48 hours. The author is of opinion that the 'after birth' is usually eaten. It comes away 15 or 20 minutes after the birth of the calf.—EDS.]

X.—GROWTH AND SHEDDING OF ANTLERS OF SAMBUR AND SWAMP DEER IN ASSAM.

In No. 3 of vol. xxxvii, I saw a note about 'Growth and Shedding of Antlers in the Swamp Deer (*Rucervus duvaucelli*) in Manipur State'.

I saw Swamp Deer in Assam, along the border of Bhootan and along the foot of the hills, in spring, 1892 and also some of the poorly horned Sambur of that area.

On the 8th of March, I shot a sambur with horns fairly worn out by rubbing against the grass. The same day, I saw another one with horns hardly half grown and, of course, in velvet.

On March 14th, at a place ralled Raimana, a large Swamp Deer had horns half grown, in velvet, with the brow tine fully developed and the fork above showing the beginning of the other tines.

On March 18th, another Swamp Deer appeared to me to have tines almost fully grown except the top ones.

On March 21st, I shot a fine Swamp Deer, at a place called Kochugaon. His horns were still in velvet but fully grown, just the tips of the top tines were still a bit soft and rounded. By a strange piece of luck, from the back of my elephant, I saw a shed horn in perfect condition on the ground which the elephant picked up for me. It was only a few hundred yards from the place where I had shot the stag and, to all appearances, must have been one of the very same stag. I kept it, and was sorry that it was not on the stag at our meeting.

I consider that the beginning of the rains is probably the time when the Swamp Deer in Assam are in their prime. This would show a difference of season to that of Manipur, but this may vary from one place to another according to the locality.

MONTEVRAN, CHAUMONT-SUR-THARONNE,
LOIR-ET-CHER, FRANCE. VISCOUNT ED. DE PONCINS.

January 10, 1935.

XI.—SOME LITTLE-KNOWN BIRDS OF NORTHERN BURMA.

I have already recorded in the *Ibis* of January 1935 the occurrence of the birds mentioned below in the Myitkyina District of Upper Burma. As the records are so few and far between, the following additional notes made in the District in 1934-35 are possibly worth recording.

Psittiparus g. gularis. Grey-headed Parrot-bill.

The only published Burma record is of one obtained by Capt. W. M. F. Gamble at Tutuga (Myitkyina District) in January 1933. A male was brought to me by an Atzi at Sadon on December 21st 1934, obtained at about 3,500 ft. with a pellet bow, in bamboo (iris red brown, bill orange-yellow, legs slaty-green).

Ciconia nigra. Black Stork.

This is probably an annual visitor to the upper reaches of the Irrawaddy, as I saw two large gatherings on sandbanks in November 1934, one being in exactly the same place as I observed them in November 1933.

Ardea imperialis. Great White-bellied Heron.

I again found this bird by no means uncommon between Sinbo and Myitkyina in November 1934. Individuals were seen at various places along the river and were not at all shy, feeding close to villages, and allowing a launch to approach quite near to them, before they took to flight.

Podiceps c. cristatus. Great Crested Grebe.

There are two previous recorded occurrences of this Grebe from the District but very few Burma records otherwise. On November 20th, 1934, I saw one on the river a few miles south of Myitkyina, and shot one of a pair on the Hokat jheel still further south. On November 21st I saw one swimming with a party of cormorants near Sinbo.

J. K. STANFORD,
Indian Civil Service.

MYITKYINA,
UPPER BURMA.

December 21, 1934.

XII.—MATING HABITS OF MYNAHS AND CROWS.

Between January and March, I had occasion to observe the pairing habits of certain birds. My attention was attracted by the extraordinary noise made by some Common Mynahs (*Acridotheres tristis*). To me, it seemed, that a pair of them were in a deadly combat. I watched them from a distance. A third one suddenly appeared on the scene but it remained an indifferent spectator. The interesting aspect of the combat was, that though the participants could have separated and taken to wing they continued the struggle. Each fiercely pecked at the other's beak, legs, wings or body. Finally the combat ended. The birds lay by each other with their vents apposed. This continued for about 15 seconds, then they parted and flew off.

It was then, I concluded that the strenuous combat may have been only a method of courtship or 'love play' and the apparent rest they took was actual copulation.

I was able to watch the behaviour of some mynahs two days later when two pairs were through a similar performance. They began their 'fight' on the branches and the house-tops and finally fell to the ground in the course of the combat. What I presume was that copulation took place during the 10-15 seconds of quiescence which followed. The whole performance was repeated at short intervals.

It is interesting to compare this habit of mynahs with the normal pairing habits of birds. The same method is apparently adopted by crows. Coitus is presumably effected side by side with

Ramsay's Bar-wing (*Actinodura ramsayi*). The Bird in the nest.

Nest and eggs of Ramsay's Bar-wing (*Actinodura ramsayi*).

the vents apposed, which, if my conclusion is correct is in contrast to the normal position of other birds such as sparrows, kites, etc.

It is interesting to note that the observations suggest two different ways of pairing in birds.

MEDICAL COLLEGE, K. I. VARGHESE, M.A.
VIZAGAPATAM.
February 18, 1935.

[There is a general belief that crows copulate in the manner suggested by the writer of the note; colour is lent to this belief by the frequent combats which take place between crows during the period which immediately precedes their breeding season and also by the fact that copulation is rarely observed. However, on the rare occasions when it has been observed, the act was performed in the manner normal with birds. Mr. Salim Ali has made such observations and has seen crows pairing usually early in the morning. We do not therefore consider that we have any real evidence in support of the popular belief that there is a deviation from the normal in the mating habits of crows, nor do we consider that the writer of the above note is justified in his conclusion that the combats between mynahs are a preliminary to mating or that coitus takes place during the brief period of quiescence which follows a combat. Unless some pairs are actually shot in the act of scuffling and sexed and the passage of the male sperm ascertained by microscopic examination one could not accept the evidence offered by Mr. Varghese as conclusive. It is more than likely that the scuffles which take place among these birds are between rival pairs, both males and females sometimes join in the mêlée. Mr. Salim A. Ali in a recent letter to the Society mentions that he has seen several pairs of mynahs mating in the ordinary manner and that he hopes to collect further evidence on this point. We hope that Mr. Varghese will continue his observations regarding the mating habits of these common birds.—EDS.]

XIII.—NIDIFICATION OF THE SHAN STATES BAR-WING [*ACTINODURA RAMSAYI RAMSAYI* (WALDEN).].

(*With a plate*).

As the nidification of this bird remains still undescribed, I send you a note and photographs of a nest found by me two years ago.

It was on April 11, 1933, that I found the first nest of this Bar-wing, in the Southern Shan States, up in the hills at Sintaung, some twelve miles south of Taunggyi. The elevation above sea-level would be about 5,500 ft. That locality is particularly beautiful, wild rocky peaks rising to nearly 7,000 ft., with open down lands and ravines, patches of thick forest and green glades between. The local hill tribe are the Taung-yos, and they know a great deal about their birds. To them this Bar-wing is known as 'Nget pi pi'—presumably from its loud call note.

I was resting by a cave and waterfall, by the side of a rocky, scrub-covered hill, when I noticed a Bar-wing with building material in its bill fly up into a lot of creepers overhanging some rocks. But on searching the creeper carefully I could not see any signs of the building nest. .The creeper was not a dense one, but somewhat dried-up, and yellow, with a good deal of feathery, 'silk' on it. I returned in five days' time, and to my delight, the birds were there. The nest I could now make out built very slenderly out on the edge of the creeper amongst the 'silk'. As the bird was still sitting on her nest when I got to within three yards of her, I was able to take a photograph of her sitting on the nest. Her tail is seen sticking out over the edge of the nest—long and straight.

There were two eggs—typical Bar-wings—but handsomer ones than those I had previously seen in the Chin Hills.

The nest, suspended in the half-dried-up creeper, hung out some ten feet from the ground over the rocks—a part of the same creeper ascending a thickly foliaged tree near by. It was made of yellowish round roots and was lined with finer ones of the same character. The outer part of the nest had some of the creeper's feathery yellowish-white 'silk' worked into it, so that the nest was by no means easy to distinguish. Had I not known the exact spot I would surely have overlooked it.

The eggs measured approximately 23 mm. by 17.4 mm. They were of a delicate blue-green—the colour we associate with eggs of the English song thrush—but rather paler, and still more beautiful as the shells were of a delicate texture and being so thin gave the eggs a lovely transparency. The markings were few but bold in character—a few blotches and scrolls of purplish chocolate—some of the scrolls being drawn out into hair-lines. There were a few underlying blotches of lilac colour. The markings were mostly situated at the larger end of the eggs almost forming a zone.

Subsequently I saw many more of these Bar-wings' eggs, and they were all of the same type—but there are occasionally some that are weakly coloured, and such eggs approximate somewhat in appearance to a certain type of egg rarely laid by *Leioptila melanoleuca radcliffei*.

It has been said that the Bar-wings are very similar to the Sibias. Morphologically that may be so, but their appearance and habits are different, the Bar-wings being secretive birds, somewhat heavy in flight, and keeping to the lower growth, while the Sibias are elegant and conspicuous birds. But both have sweet and loud musical call notes—tender, pleading and somewhat mournful.

The call note—or is it the song-note?—of this Bar-wing is loud and plaintive and can be heard at a great distance. It consists of six notes falling in cadence—'Pi-pi pi-pi pi-yuuu' the last note being mournful, plaintive and prolonged. There is about two seconds' interval between each double note, and about one second's interval between each 'pi-pi'.

Recently I heard a bird calling in the thick, green jungles 60 miles north of Myitkyina which I took to be a Bar-wing. The

call was of the same character but consisted of 'Pi-yuu—pi-yuu—pi-yuu'—the intervals being somewhat longer—say four seconds, between each double note.

In future bird books let us hope some attempt will be made to describe with something approaching accuracy the colouration of birds' plumage and their eggs; and also their notes. The former should be described in terms of recognised artists' colours—which are the colours nearest to nature's—and a colour chart, as a guide, published on the front page. Birds do not wear chemically-coloured ladies' dresses! And as to the songs and notes of birds, a proper system is much to be desired. It should not neglect to give the approximate intervals between notes as such are very characteristic of the different species of birds.

TAUNGGYI, SOUTH SHAN STATES,
BURMA. T. R. LIVESEY.
March 17, 1935.

XIV.—NIDIFICATION OF THE BLACK-HEADED BABBLER [*RHOPOCICHLA A. ATRICEPS* (OATES)].

With reference to Capt. Bates' letter on the nidification of the Black-headed Babbler (*Rhopocichla a. atriceps*), I am pretty sure that Davidson was right in stating that this bird builds 'cock' nests which are never intended for breeding purposes. Wherever the species occurs one finds dozens of these nests in the jungles at all times of the year. They are very loosely and untidily constructed, usually in full view and I have never seen one with any lining. Dead bamboo leaves are the favourite material and I found one beautiful specimen made entirely of skeleton leaves. Though I have disturbed birds roosting in this type of nest, all those which I have found containing eggs or young have been much smaller and more neatly and firmly woven. Unlike the 'cock' nests they are usually very well hidden and have a lining of black rootlets or grass. While, as Bates says, one may find half a dozen of the former type in as many yards of thicket, the breeding nests are usually quite isolated. The Ceylonese sub-species *nigrifrons* has precisely the same habits.

COOVERCOLLY,
SOMWARPET, COORG. F. N. BETTS.
December 31, 1934.

XV.—ON THE OCCURRENCE OF THE TIBETAN SISKIN [*SPINUS THIBETANUS* (HUME)] IN NORTHERN BURMA.

In the *Ibis*[1] for April 1935 I recorded the occurrence of this rare finch in March 1933 near Sadon in the Myitkyina District at about 3,000 ft. Prior to this, it had only been known in India from the Tibet-Sikkim border, and in Burma from three obtained by Lord Cranbrook at 6,600 ft. in the Adung Valley (in the far

[1] *Ibis*, 13th Ser. Vol. V, p.265.

north of the Myitkyina District) in March 1931. On December 20, 1934, I obtained four out of a flock of about 20 birds in the valley of the N'Gri Hka about 6 miles west of Sadon, at a height of about 2,000 ft., one of which I was unable to preserve. They were all singing together with a typical Siskin note, in a tree after bathing in the stream. Two of those obtained, sexed as females, were heavily striped on the upper parts. (Iris, brown; bill, bone-grey; legs and feet, vivid brown.)

MYITKYINA,
UPPER BURMA.
December 21, 1934.

J. K. STANFORD,
Indian Civil Service.

XVI.—VULTURES FEEDING AT NIGHT.

On December 15, 1934, while Mr. and Mrs. P. Learoyd of Ootacamund were sitting up over a tiger kill at the foot of the Billigirirangans, vultures descended from the surroundig trees at about 8 p.m. and by 11 p.m. had completely demolished the remains of the kill. Although it was moonlight, I cannot recall a similar case having occurred before.

HONNAMETTI ESTATE,
ATTIKAN P.O., *via* MYSORE.
January 3, 1935.

R. C. MORRIS,
F.Z.S., F.R.G.S.

XVII.—PEREGRINE AND SPUR-WINGED PLOVER.

The delightful note by Mr. Stanford describing the drill-dance and manifestation of the Spur-winged Plover prompts me to tell of a most curious incident I witnessed in Burma a few years ago in which the Spur-winged Plover—the Japanese Print Bird—played an astonishing rôle.

I was slowly ascending the lovely Salween River in Karenni in a small boat, when my attention was attracted by a Spur-winged Plover in a very frenzy of agitation. He had come to the very end of a sand-spit just in front of my boat, and as I came to within about twenty yards of him, *he actually took to the water like a duck and swam out into the river*. He rode the water easily and lightly—with grace. I was dumbfounded at this exhibition! He then suddenly ducked *and dived clean under*! At the same moment there was a tearing sound and a fine Peregrine came at his stoop and skimmed over the ripples where the Plover had disappeared!

After about three or four seconds up bobbed the Plover again on the surface tittering with fear, while the Peregrine looking over his shoulder swung up and round to repeat his stoop. Then he came again at the Plover and as before just when he was within a few yards the wily Plover again dived! By this time my boat was nearly on top of the Plover who bobbed up, and then began to swim ashore. The Peregrine had flown off baffled completely by these tactics. The Plover landed safely and ran along the shore, still very rattled by his narrow escape from death.

And so I left him there bobbing up and down and shaking the wet off his plumage on a sandy-spit by the Salween.

TAUNGGYI, SOUTH SHAN STATES,
BURMA. T. R. LIVESEY.
March 29, 1935.

XVIII.—DISTRIBUTION OF THE INDIAN HOOPOE (*UPUPA EPOPS ORIENTALIS* STUART BAKER).

On page 308 of vol. iv of the *Fauna of British India* (2nd edition), as an instance of the wandering habits of Hoopoes, *Upupa epops orientalis* is quoted as breeding as high as Sukna in Darjeeling, some 7,000 ft. elevation.

As a resident of the Darjeeling District for many years, I write to say that Sukna is at the foot of the hills at 1,000 ft. elevation and is on the actual natural dividing line between hills and plains with sal forest on the north side and tea and rice fields on the south.

In fifteen years I have never seen any other Hoopoe but *U. e. saturata* in these Hills, which passes through in late August or early September returning in March and April, some birds dallying quite a while by the wayside. The earliest recorded downward date is August 17th and the latest upward date is May 17th when two birds hung about the tea garden for 3 weeks and then suddenly disappeared.

Round Siliguri, some 7 or 8 miles from the foot of the hills I have seen both *U. e. saturata* and *U. e. orientalis* together, in December, the latter being resident.

The reference to Sukna and Darjeeling on page 311 is ambiguous but the reference on page 308 shows that Sukna is assumed to be the same elevation as Darjeeling, thereby greatly enhancing the difficulty of dividing up the sub-species.

NAMRING T.E.,
RUNGLI RUNGLIOT P.O., W. H. MATTHEWS.
N. BENGAL.
March 8, 1935.

XIX.—THE LESSER FLORICAN [*SYPHEOTIDES INDICA* (MILLER)] IN THE KONKAN.

A female Lesser Florican was shot by Mr. J. Stokoe near Karjat at the foot of the Bhor Ghat on Sunday the 20th January 1935. As the Florican rarely enters the area lying between the Western Ghats and the sea, the record is of interest.

BOMBAY NAT. HIST. SOC.,
6, APOLLO STREET. S. H. PRATER,
February 2, 1935. C.M.Z.S.

XX.—SOME NOTES ON WOODCOCK (*SCOLOPAX R. RUSTICOLA* LINN.) IN BURMA.

The *Fauna* (2nd edition) states that in India the Woodcock is 'merely a casual migrant to the plains, the great majority of the Himalayan birds being resident or merely moving to lower levels in the winter'. Its breeding haunts are stated to be the Himalayas from 8,000-12,000 ft. and the 'mountains of Northern China'.

Mr. E. B. Bloech (*Journal*, vol. xxxiii, p. 715) has shown that the Woodcock is a regular winter visitor to the western edge of the Pegu Yoma in Lower Burma. It certainly occurs regularly in winter at about 3,000 ft. near Maymyo in the Shan States, which is only 26 miles away from one of the driest parts of the dry zone. Mr. E. W. Allan, of the Indian Forest Service, found it common at about 3,000 ft. in the Kyangin township of Henzada District in the Henzada-Arakan Yoma. Capt. E. H. Cooke shot a migrant in the Fort at Mandalay, and I have recorded its occurrence in 1929 in the plains of Prome District. I also once saw a Woodcock, almost certainly a passing migrant, which had been disturbed out of a neighbouring garden, fly over the tennis-court of the Monywa Club on the Chindwin in October or November 1924. Col. R. M. Jacob tells me it is to be found regularly in various parts of the Chin Hills in winter, from 5,000 ft. upwards. These occurrences suggest that it is not a casual, but a regular, winter migrant over a very large part of Burma, to be found from late October to March whenever conditions are suitable. In the Myitkyina District of Northern Burma it certainly occurs, as a winter visitor, in some numbers over an area of 15,000-20,000 miles both in the plains and in the hills. On October 23, 1934, one flew over the Myitkyina Club at dusk, and I saw another flighting at dusk out of my garden in the same week. These were probably birds on migration. Capt. D. M. Fife tells me they occur at Laukhaung (3,000 ft.) in the N'Mai and Ngawchang Valleys and round the Panwa Pass on the Yunnan border (6,000 ft.) from December to mid-February. In January 1935, Messrs. A. S. Vernay, R. C. Morris and myself found a number flighting in every evening to wet ditches and paddy stubble on the edge of evergreen forest near Lonhkin in the Jade Mines. I saw at least three of these birds come high over the trees in the dusk, set their wings and stoop like a snipe or a falcon down to their feeding-grounds, though once they had started to feed they more or less fluttered up and gave very easy shots. In some of these ditches, the marks of their beaks and feet could be seen by day, and indicated where to wait for them. On January 1, 1935, I shot two feeding by day, on the Talawgyi plain, one in dew-covered short grass like wild barley; which at the time was full of feeding snipe, and the other on the edge of a jheel where it was feeding with Fantail and Painted Snipe about 9 a.m. In late February 1935, while we were beating for jungle fowl in scrub jungle opposite Myitkyina, as many as eight were flushed and six shot within a radius of about 300 yds. These birds were lying in dry scrub and bamboo jungle, and their feeding ground was pro-

bably the mud of a backwater of the Irrawaddy 200 yds. away. In early March, Capt. J. G. Hurrell saw as many as six in one jungle-fowl beat near Myitkyina. I have seen these birds flushed out of quite dry grass jungle by day, but one of their favourite haunts seems scrub or cane-brake jungle where shallow streams run out into the fields. Capt. Lyle tells me he has shot them at Sima (4,000 ft.) flighting to places where springs come out of the hillside. They rarely fly far in a beat and when first flushed, if not shot at, usually pitch again within 100 yds. It is to be hoped that before long the Woodcock will be found breeding in the hills of the North-East Frontier of Burma, on the Tibet or Yunnan border. There must be some breeding area in between the Himalayas and the North China hills which is yet to be discovered.

MYITKYINA.
April 14, 1935.

J. K. STANFORD,
Indian Civil Service.

XXI.—ALBINO FAN-TAIL SNIPE (*CAPELLA G. GALLINAGO* LINN.).

I am sending you under separate cover a white snipe I shot about 20 miles from Bangalore on the 20th instant. I don't know how common such a specimen is but thought it might interest you.

I was shooting the border of a shallow tank where the snipe were fairly plentiful but wild. A couple got up together at extreme range and I fired the left barrel at the leading snipe but missed. I then noticed that the second one appeared completely white. I marked it down about 400 yds. further on and eventually shot it sitting as I didn't want it to escape again! It was very conspicuous, being visible from well over 100 yds. away where an ordinary snipe would have been unnoticed at 20. I apologise for the very bad skinning but I had to do it late at night.

Lt.-Col. J. V. J. Ellis, R.A., who has since gone home, told me about last November that he had seen a white snipe while shooting from Bangalore, but had failed to get a shot at it.

R. A. MESS,
BANGALORE.
January 23, 1935.

H. C. M. DUNN,
Lt., R.A.

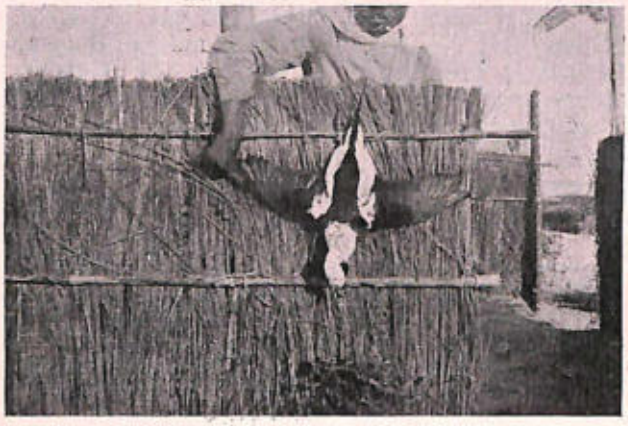
XXII.—A SECOND RECORD OF THE OCCURRENCE OF THE LONG-TAILED DUCK (*CLANGULA HYEMALIS* LINN.) IN INDIA.

IN INDIA.

(*With a photo*).

I enclose herewith two photographs of a specimen of a drake Long-tailed Duck, *Clangula hyemalis*, which I shot on a wide sweep of the River Brahmaputra at Messaki, at the western end of the Pasighat Sub-Division of the Sadiya Frontier Tract, on Wednesday the 23rd of January, 1935. I tried to skin the bird,

but knowing very little of the business and how to preserve the skin, it went bad in the end. I kept one of the long tail 'pins' however which I also enclose herewith. The other 'pin' was somewhat shorter. I do not think there is any possibility of a mistake in identification for the black and white plumage with the black chest and white abdomen, the long 'pins' in the tail and the pink and black bill (a typical duck's bill) were to my mind unmistak-



The Long-tailed Duck (*Clangula hyemalis*)

able. The bird when first seen was swimming in the water quite close to the boat in which my wife and I were; but it seemed unable to fly. It gave a fine exhibition of diving before it was shot. I killed it thinking it was an injured smew. Later I discovered the apparent reason for its inability to fly, for it was gorged right up to the mouth with small freshwater shrimps. There were two other flocks of duck on the same water of which the males looked black and white and were apparently; the females looked dark brown, through a pair of field glasses. I was unable to get a shot at them for they were very wild. I cannot say therefore for certain if they were the same species as the one I shot, although the black and white birds in the flocks looked the same from the distance. These two flocks were on the same water on 16th February 1935 when I returned to Messaki on the homeward journey of my tour, but although I tried hard to secure another bird, I failed, for they were as wild as ever.

I cannot account for the bird I shot for its presence where I shot it seems very extraordinary indeed. It was very fat and seemed very heavy for its size. It was in splendid condition. Doubt will probably be cast on the record since I see that the duck has only been recorded once before in India and that from Baluchistan, but I think the accompanying photographs will set it at rest.

PASIGHAT, N.-E. FRONTIER,
ASSAM, INDIA.
April 1, 1935.

R. E. PARSONS,
Assistant Political Officer.

XXIII.—THE OCCURRENCE OF THE SCAUP (*NYROCA M. MARILA* LINN.) IN THE BHAVNAGAR STATE.

Many thanks for your kind information about the duck I sent to you, and which was indentified as the Scaup (*Nyroca m. marila*).

I shot this duck in the last shoot of the season on the 22nd February last, at a place called Hathab, about 17 miles from Bhavnagar along the sea coast. The tank is about a mile from the village and consists purely of rain water. It is very badly situated for a shoot as the sea is about 150 yds. away, only a range of sand dunes dividing the tank from the sea. It has a small patch of reeds, but not thick enough to give any cover. All the ducks after being shot at for a very short time, make straight for the sea and very poor shooting is to be had. For this reason I arranged to have two Peregrine Falcons to 'wait on', so as to keep the ducks in the tank. As a result we shot 35 ducks out of about 100, with 3 guns. I think this is a very good bag considering the bad situation of the tank.

There were many other varieties of ducks, mostly Tufted Pochard (*Nyroca fuligula*) and Gadwall (*Chaulelasmus streperus*).

Another rare duck was shot by one of my friends. This small duck was flying very much slower than the others; its greyish-white colouring made it quite distinctive. It was eventually wounded and secured. I identified it as a female Marbled Teal (*Marmaronetta angustirostris*). It is still alive at our duck house. This species is a rare visitor here only. One male specimen was shot in 1931 at a village called Tarsamya just two miles from Bhavnagar.

NILAMBAG PALACE,
BHAVNAGAR. K. S. DHARMA KUMARSINHJI.
March 10, 1935.

XXIV.—THE BRONZE-CAPPED TEAL [*EUNETTA FULGATA* (GEORGI)] IN THE SAMASTIPUR DISTRICT, BENGAL.

I have sent under registered post today the head of a duck for identification as no one on the shoot could identify the same, some of the Mallahs having been out shooting in this jheel with Planters for more than 50 years. Most unfortunately the young Mallah who picked it up 'hilal-karoed' it, before it was seen by us.

One of my old orderlies called it a Bengal Duck. Mr. E. Abbott of Hathwa who was shooting, has shot on this jheel for over 50 years and has never seen any bird like it.

On this same jheel, a Baikal Teal was shot about 4 years ago.

HURSINGPORE, SAMASTIPUR P.O.,
B. N. W. RY. C. I. PARR.
February 4, 1935.

[The head sent by Mr. Parr was that of a Bronze-capped teal. —EDS.]

XXV.—OCCURRENCE OF THE MARBLED DUCK [*MARMARONETTA ANGUSTIROSTRIS* (MÉNÉTRIÉS)] NEAR POONA.

On the 15th December 1934, I was duck shooting at Ravengaon Lake 54 miles south-east of Poona, the duck were very plentiful, more so than in the last four years that I have spent in this district. Amongst the duck I shot was a solitary bird which you have since identified as a Marbled Teal (*Marmaronetta angustirostris*). This is the only occasion that I have seen this duck in these parts though I have seen several shot at Khush Dil Khan near Quetta. I was interested to hear that this bird has not been recorded further south than Baroda.

7, Lothian Road, Poona. F. C. HICKIE, *Lt.-Col.*

January 31, 1935.

[The Marbled Duck is a common cold weather visitant to Sind and is less abundant in the provinces which adjoin it. From this area it occurs as a straggler in other parts of India. In the Bombay Presidency it has been recorded from Gujerat and Kathiawar, but not, as far as we are aware, so far south as Poona.—Eds.]

XXVI.—THE SHELDRAKE [*SARKIDIORNIS MELANOTUS* (PENN.)] AND THE COMB DUCK [*TADORNA TADORNA* (LINN.)] IN SIND.

The Sheldrake or Dunn Duck. One was shot at Bhujo (Jungshai District, Sind) by Major Osborne, Royal Sussex Regiment on the 11th December 1934 (very far south for this duck). One was shot at Badin, Hyderabad District, Sind, between the 24th and 30th December last year by a party consisting of officers of the Royal Sussex.

The Nukta or Comb Duck. One was shot at Mirpur Bothoro, Sind, between the 17th and 20th November 1933 by Major Osborne, Royal Sussex Regiment.

Karachi. C. B. RUBIE, *Lt.-Col.*

January 21, 1935.

[The Sheldrake is a rare visitor to Sind. It has been secured on the Manchar Lake and at Jhunpur on the Khinjar Jheel.—Eds.]

[The Nukta has been previously recorded from the Kati Dhand, Sujawal District (Webb, *J.B.N.H.S.*, vol. xxi, p. 685) and has been obtained at Badin.—Eds.]

XXVII.—ARRIVAL DATES OF MIGRANT BIRDS IN COORG.

I subpend a list of arrival dates of migrants this cold weather in case they may be of interest.

September 3. Marsh Harrier.
September 5. Grey Wagtail.
September 9. Pintail Snipe.
September 21. Common Indian Bee-eater (Local migrant).
September 17. Eastern Swallow.
September 29. Brown Shrike.
October 5. Great Reed Warbler.
October 5. Red Breasted Flycatcher.
October 8. Black Drongo (Local migrant).
October 10. Indian Oriole (Local migrant).
October 16. Indian Pitta (Local migrant).
October 17. Black-headed Cuckoo Shrike (Local migrant).
October 17. Blue-headed Rock Thrush.
October 18. Indian Blue Chat.
October 19. Forest Wagtail.
October 26. White Wagtail.
November 3. Indian Tree Pipit.
October 26. Verditer Flycatcher.
November 23. Hoopoe (Local migrant).
December 2. Yellow-Throated Sparrow (Local migrant).

Most species were a week or so later in arriving this season than usual.

COOVERCOLLY,
SOMWARPET, COORG.

F. N. BETTS.

December 31, 1934.

XXVIII.—AN ADDITION TO THE LIST OF SNAKES OF BOMBAY AND SALSETTE: *CORONELLA BRACHYURA*.

I am sending you under separate cover a specimen of *Coronella brachyura* which I recently obtained at Marole, in Salsette Island. This species is not listed in Mr. Prater's *Snakes of Bombay Island and Salsette*.

Another snake that does not appear to have been recorded from our Island is *Typhlops acutus*. There are two specimens of this snake in the collection at St. Xavier's College, Bombay, one obtained by Mr. C. McCann at Tulsi, and the other by myself at Andheri.

Trimeresurus anamalensis is recorded as 'straying into Mahim wood' by Vidal (*J.B.N.H.S.*, v. p. 65). Does the specimen exist? or is it to be considered as a result of confusion with *gramineus*?

GODREJ HOUSE,
ANDHERI.

HUMAYUN ABDULALI.

April 23, 1935.

[*Coronella brachyura*, a rare snake has hitherto been recorded only from the Deccan. Its discovery in Salsette indicates an extension of its range into the Konkan. It is probable that Vidal's record of the occurrence of the Anamalay Viper *T. anamalensis* in Mahim is the result of a confusion with the Common Green Pit Viper (*T. gramineus*). The latter is found in the hills of Salsette. One was killed at Malabar Hill, Bombay, where it was found in a grass cart. Snakes are sometimes imported in this way. There is in the Society's collection a hatchling of a Malay Python (*P. reticulatus*) which was killed while unloading teak from a ship in the Bombay Docks.—EDS.].

XXIX.—A FURTHER LIST OF SNAKES FROM AHMEDNAGAR.

In continuation of my note on 'Snakes at Ahmednagar' published in the *Journal of the Bombay Natural History Society* on 15th November 1932, this note is sent, which covers a period of about 14 months, from 8th June 1932, on my return from leave, to 3rd August 1933, when I was transferred to Belgaum as Civil Surgeon. During this time an additional number of snakes was seen by me—230 from the Town and District of Nagar. This brings the total number of snakes seen from this district, including those mentioned in my previous note, to 479 and hence is useful as a general index of the variety of snakes found in this part, the number being sufficiently large for this purpose. Out of the 230 snakes, 39 were from Visapur, 36 from Newasa, 6 from Jamkhed, 3 from Shevgaon, 2 from Parner and 1 from Toka, in Ahmednagar District.

The snakes were:—

1. The Common Blind Snake (*Typhlops braminus*)—9. 8 of these were found in my (Civil Surgeon's) bungalow.

2. The Red Earth-Boa (*Eryx conicus*)—11. 6 of these were from Nagar and 5 from the District. The longest was 2 ft.

3. Python (*Python molurus*)—1. This was 7 ft. long and was brought from Kharda in the District and was seen with a snakeman.

4. Checkered Water-Snake (*Tropidonotus piscator*)—7. 6 from the District and 1 from Nagar.

5. Buff-Striped Keel-back (*Tropidonotus stolatus*)—1. A complete cast skin of this snake was seen.

6. Green Keel-back (*Macropisthodon plumbicolor*)—49. 27 from Nagar and 22 in the District. In my last note I had mentioned 32, so it is quite a common snake (81 out of 479). The hatching period of this snake seems to be the month of June as young specimens 7 in. and 8 in. long were commonly seen in June and July.

7. Common Wolf Snake (*Lycodon aulicus*)—28. 22 from Nagar and 6 from the District. Another common snake (76 out of 479). A brood of 6 young ones, about 8 in. long, was found in one of the rooms of the Ahmednagar Club on 22nd May 1933.

8. Dhaman (*Zamenis mucosus*)—12. 9 from Nagar and 3 from the District. The longest was 8 ft., another being 7 ft. 8 in.

9. Fasciolated Dhaman (*Zamenis fasciolatus*)—5. One from Nagar and 4 from the District, all from Visapur, where this seems to be a common snake.

10. The Spotted or the Graceful Dhaman (*Zamenis gracilis*) —4. 2 from Nagar and 2 from the District.

11. The Trinket Snake (*Coluber helena*)—22. A common enough snake (total number 56). 16 were from the Town and 6 from the District. In the Town of Nagar this is a common snake. The longest was 50 in., some other big ones being 47½ in., 46 in., 44 in. and 42 in. One 38 in. long was seen on the ledge of the deep well in my compound, about 4 ft. from the surface of the water and was brought up alive, entangled on lowering some small branches of the ordinary Ber tree on a rope, on 8th December 1933.

12. The Common Brown Tree Snake (*Dipsadomorphus trigonatus*)—21. 11 from Nagar and 10 from the District. A fairly common snake (total number 55). One good fresh live specimen was secured from the well in my compound on 17th November 1932 where it was seen swimming. It was brought up entangled on Ber twigs (*Zizyphus jujuba*, Natural order, *Rhamnaceae*). The well has a wall about 3 ft. high and the snake must have fallen in the well from an overhanging Pilu tree (*Salvadora persica*, Natural order, *Salvadoraceae*), where probably it went in search of bird's eggs.

Two were also seen swimming in the well in the Dispensary at Shevgaon, whence they were also brought up alive.

13. The Common Kukri Snake (*Oligodon subgriseus*)—2. 1 from Nagar and 1 from the district.

14. The Banded Kukri Snake (*Simotes arnensis*)—2. 1 from Visapur in the District and 1 from the well in my compound, where it was seen swimming on 17th November 1932 and was brought up similarly to the common Brown Tree Snake mentioned in 11 above and on the same date.

15. The Three-striped Coral Snake (*Callophis trimaculatus*)— 2. From the district—1 from Newasa and 1 from Visapur.

16. The Common Krait (*Bungarus caeruleus*)—9. 2 from Vispaur in the District and 2 were from my bungalow compound; 1 from the compound of the Indian Military Hospital. One was found at 3 a.m. in the engine room of the City Electric Supply Co. One 9 in. long was found on 17th July 1932. The hatching period of this snake here seems to be the months of June and July.

In my last note I had mentioned that no kraits were found on the south side of Bhingar Nullah, but in this lot, 4 were found on the south side and 3 on the north of the nullah, showing that its distribution is not limited to either side.

17. The Cobra (*Naia tripudians*)—27. 15 from near Nagar and 12 from the District. 1 wheaten-coloured from Kharda. The others were dark coloured. All were binocellate. The longest was 62 in., the other big ones being 56 in., 48 in. and 43 in.

18. The Russell's Viper (*Vipera russelli*)—4. All from the District. 3 from Newasa and 1 from Toka, six miles from Newasa, where the River Pravara joins the Godavari River.

19. The Phoorsa (*Echis carinata*)—8. All these were found in one place only in the District, at Newasa, which is on the River Pravara. They were all found in the Dispensary compound which is very near the bank of the river. If anyone wishes to get Phoorsas in this district, this is a place to remember.

These were all the 19 species found and mentioned in my last note. Four other species were also found in this new collection. These are:—

20. *Typhlops porrectus*. A variety of blind snake, not recorded from this District before. It was seen at Jamkhed Dispensary in the District on 19th January 1933.

21. Spot-bellied Polyodont (*Polyodontophis subpunctatus*)—3. 2 from Nagar and 1 from Newasa in the District.

22. Yellow-spotted Wolf Snake (*Lycodon flavomaculatus*). Only 1 specimen was found near Cursetjee's shop in the Ahmedabad Cantonment on 29th November 1932. This is the first one recorded from Nagar though it has been recorded from Poona, Nasik, Dharwar, Sangli, in the Western Ghats.

23. *Coronella brachyura*. One specimen of this from Visapur in the District was seen on 1st December 1932. This is considered a rare species as only three specimens were recorded until recently (from Poona and Berar). Dr. Lindberg from Kurduwadi, Sholapur District, in his note in the *Bombay Natural History Society Journal* of November 1932 on 'Snakes on the Barsi Light Railway' mentioned that he collected 10 of these. So this species is not so rare as it was made out to be but is fairly common in the Deccan and probably in the adjoining parts of Berar. But being a small thin snake few persons kill it or preserve it. The specimen I got in Visapur is in the British Museum now.

POONA. K. G. GHARPUREY,

June 23, 1934. *Lt.-Col.*, I.M.S.,

Offg. Surgeon-General with the Govt. of Bombay.

XXX.—MATING OF THE HAMADRYAD OR KING COBRA (*NAIA BUNGARUS* SCHLEG.).

On the 28th instant at 5-30 p.m., after returning from a walk I was ascending the hill leading to my bungalow, which is 80 ft. above the alluvium flats, a coolie drew my attention to what I would describe as a bundle of snakes, all entangled, coming down the hill towards me. On making closer investigation, I found it was two Hamadryads mating. I immediately sent for my gun and the first shot hit the smaller one of the two, which at once fastened its fangs on to the larger one. The second shot hit the big one in the centre of the back and it in turn seized the smaller one by the head. The third shot into the hood finished him off.

Both snakes were jet black in colour, with bluish markings underneath. The inner side of the hoods were yellow with a tinge

of red around the edges. The measurements of the bigger one were as follows:—

Length.	12 feet 10 inches.
Circumference.	10 inches.
Width of head.	3½ do.
Width of hood.	1 foot 2 inches.

I might mention that when the hood was measured, it was not unduly stretched.

I only measured the length of the small one which was 8 ft. I have had the heads of the snakes cut off and placed in a covered basket in a stream and when the flesh has fallen away, I shall forward the skulls for your inspection.

As old Karen and Burman jungle folks have informed me that they have never come across a Hamadryad the length and size of the larger one I shot, it would be interesting to know if this is anything like a record.

PALAW, *Via* MERGUI.
January 31, 1935.

W. J. L. SMITH,
Manager,
Malayan and General Trust (1933), *Ltd.*

[The largest known Hamadryad, the skin of which is in the collection of the Society, measured 15 ft. 5 in. Col. Wall records two specimens of over 14 ft. There is a reference to an 18 ft. specimen in Ditmar's *Snakes of the World*.—EDS.]

XXXI.—OCCURRENCE OF *DIPSADOMORPHUS MULTIMACULATA* SCHLEG. IN ASSAM.

An example of this snake was sent to the Society for identification by Major C. S. P. Hamilton, Chief Medical Officer, Juri Valley Medical Association, Juri, South Sylhet, Assam. Boulenger, *Fauna of British India*, 'Reptiles', p. 361, limits the distribution of this species to Burma, Southern China, Siam, Malay Peninsula and Archipelago.

BOMBAY NAT. HIST. SOCIETY.
February 15, 1934.

S. H. PRATER,
C.M.Z.S.

XXXII.—THE COMMON CHAMAELEON (*CHAMAELEON ZEYLANICUS* LAURENTI) IN GUJARAT.

I noticed a note in Vol. xxxvi, No. 2 by Mr. Acharya on the unfrequent occurrence of *Chamaeleon calcaratus*[1] in Gujarat. It might interest readers to know that in July 1933 our servants caught a very fine and large specimen in a Nim tree beside the bungalow in our compound in Borsad. He was very friendly and

[1] [*Chamaeleon calcaratus* Boulenger is now considered a synonym of *C. zeylanicus* Laurenti.—Eds.]

we even managed to get a photograph of him which however would not bear reprinting owing to the dullness of the monsoon day.

Again in September 1934 a young one was caught at the College. He was full of fun and walked all over me without showing any anger or fear except when he noticed the tiny coloured flowers on my frock, when he puffed himself out and spat and tried to snap at what he must have thought were wonderful insects which would make a delicious meal!

These are the only two I have seen in nine years in Gujarat.

MARY BROWN MEMORIAL TRAINING COLLEGE,
BORSAD. AGNES T. BARRY,
February 7, 1935. *Principal.*

XXXIII.—RATE OF GROWTH OF THE MUGGER [*CROCODILUS PALUSTRIS* (LESSON)].

On the 1st June 1915, I secured a baby mugger 11 in. long, which had recently left the egg. I kept it in the vivarium of the Museum where it lived for over 19 years, growing yearly at the rate of 2 to 9 in. or a rough average of 4 in. yearly. As it had attained to over a length of 7 ft. and as no suitable accommodation could be secured for it locally I have presented it to the Victoria Gardens, Bombay.

CENTRAL MUSEUM, NAGPUR. E. A. D'ABREU,
November 15, 1934. F.Z.S.

XXXIV.—BUTTERFLIES OF LAHORE.

I have read Brigadier W. H. Evans's comment on my reply to his original note on my paper on the 'Butterflies of Lahore' (*Bulletin of the Department of Zoology*, Panjab University, vol. i, pp. 1-61, pl. i-iv, April 1931) published in the *Journal of the Bombay Natural History Society*, vol. xxxv, No. 4, dated 15th July 1932. I would once more emphasize the fact that only one specimen each of the four species under discussion was collected by me from Lahore. It is not certain whether those species occur in a wild state in Lahore or the specimens I collected had been imported from elsewhere.

According to Brigadier Evans 'Mr. Antram's record of *Melitaea didyma* from the Punjab is certainly incorrect'. I may point out that the above species has been recorded from the Punjab by Bingham also (*Fauna of British India*, 'Butterflies', vol. i, 1905, p. 454).

Brigadier Evans's remark that the species which Mr. Rhe-Philipe missed from Lahore and which were subsequently collected by me 'have doubtless existed there for centuries' seems to imply that the butterfly fauna of a locality does not undergo any change.

Such an assumption would not be in accordance with observed facts.

GOVERNMENT COLLEGE,
LAHORE. D. R. PURI.
December 5, 1932.

[Mr. Puri states that only one specimen each of the four species under discussion was 'collected' by him in Lahore. In the next sentence he states that he is not certain whether these species occur in the wild state in Lahore or whether they had been imported from elsewhere. His 'collecting' may therefore suggest that the specimens in question might have been given him by someone who may have 'said' that he had got them in Lahore. It seems difficult otherwise to explain Mr. Puri's statement that 'it is not certain whether those species occur in wild state' in Lahore.

As regards *Melitaea didyma*, the Punjab species is actually *trivia* and the distribution of *didyma* does not extend to the plains.

Mr. Puri suggests that the Punjab may slowly change its fauna, but changes of the nature implied by the author of the note do not occur such as the sudden influx of butterflies from thousands of miles away or the descent of high elevation insects to the Indian plains.—EDS.]

XXXV.—MIMICRY: BEING NOTES ON CERTAIN INDIAN BUTTERFLIES.

On page 529 of his classic *Butterfly Hunting in Many Lands*, Dr. Longstaff writes: 'It may not be without interest to record a number of cases in which a collector with defective eyesight has actually been deceived (at any rate momentarily) by mimics in the field'. It is hoped that the following brief notes by a collector, who prides himself on the keenness of his sight, may prove of equal interest.

Papilio polytes, L. ssp. *romulus*, Cr. female and *Byasa hector*, L. female. A good cabinet mimic. I have never seen the two species flying together, in fact the only living *hector* I have seen were males, but their flight seemed more direct and businesslike than that of the mimic. It is of course possible that the females fly in a more hesitating manner.

Papilio polytes, L. ssp. *romulus*, Cr. ♀ f. *stichius*, Hbn. and *Byasa aristolochiae*, F. *aristolochiae*. This form is usually described in books as the '*aristolochiae* form of female'. It is, in my opinion, a poor cabinet mimic and an even less convincing field one. Both its flight and general appearance are unlike the so-called model and I have never been deceived, even momentarily, by it.

Chilasa clytia, L. *clytia* and *Euploea core*, Cr. *core*. *Chilasa clytia*, L. f. *dissimilis*, L. and f. *dissimillima*, Evans and *Danais limniace*, Cr. ssp. *mutina*, Fruhs. These are not over convincing mimics when seen in the cabinet. In flight, however, they are almost perfect, so much so that I have given up recording cases where I have been deceived by single specimens. I once even

caught two *E. core* and one *C. clytia* with one stroke under the impression that I was catching three of the *Euploea* (vide *Entomologist*, lxvi, p. 119). The slow sailing flight of the mimic, when undisturbed, is an exact imitation of that of the model; if frightened, however, it dashes off with the typical Papilionid flight. When at rest on flowers they are easily distinguished as the mimic keeps up an incessant fluttering whilst the model rests either with the wings motionless or slowly opens and shuts them.

Pareronia valeria, Cr. ssp. *hippia*, F. female and *Danais aglea*, Cr. I have coupled these two species together as there is no other Danaid small enough to act as model, but I have never seen them flying together. They are a fairly good cabinet pair and the Pierid has the typical Danaid flight. Dr. Longstaff records having mistaken the female of *Pareronia ceylonica*, Feld. for this Danaid in Ceylon.

Elymnias hypermnestra, L. ssp. *undularis*, Drury, female and *Danais plexippus*, L. A fair cabinet mimic. It is not, however, very convincing in the field as the flight is very much weaker than that of the model. It also settles frequently and shews the non-Danaine underside.

Elymnias malelas, Hew. *malelas* male and *Euploea* sp. The only specimen I have seen alive was caught whilst touring near Darjeeling under the impression that it was one of the blue Euploeas.

Hestina nama, Dbl. and *Danais tytia*, Gray, *tytia*. A good cabinet pair. I have never seen the Danaid alive but I was completely deceived by the mimic when first I met it and was surprised to find that I had caught a Nymphalid and not a Danaid.

Hypolimnas misippus, L. female and *Danais chrysippus*, L. An almost perfect cabinet mimic and equally good in the field. I have a specimen which was caught after being watched some time, both flying and at rest, and which was only recognised as a Nymphalid when it was being papered.

Argynnis hyperbius, L. *hyperbius* female and *Danais chrysippus*, L. A poor cabinet mimic of either *D. chrysippus*, L. or *D. plexippus*, L. On the wing it resembles a brown *Danais* but the resemblance is not definite enough for it to be mistaken for any given species.

D. G. SEVASTOPULO,
F.R.E.S.

LONDON.
August 21, 1933.

XXXVI.—A PRELIMINARY LIST OF THE *PYRALIDAE* OF CALCUTTA.

Most local lists are concerned with the Rhopalocera, so a list of one of the more neglected families of the Heterocera may be of interest. The *Pyralidae* listed below have all been caught at light in the heart of Calcutta during the last three years. Hampson, whom I have followed as regards nomenclature, names 1,136 species of *Pyralidae* in the fourth volume of Moths in the *Fauna of British*

India, published in 1896. My list consists of 91 species and I still have a fair number awaiting identification.

Galleria mellonella, L.
Ancylolomia chrysographella, Koll.
Ramila marginella, Moore.
Scirpophaga auriflua, Zell.
Schoenobius immeritalis, Wlk.
,, *bipunctifer*, Wlk.
,, *adjurellus*, Wlk.
,, *incertellus*, Wlk.
Cirrhochrista brizoalis, Wlk.
Euzophera perticella, Rag.
Nephopteryx paurosema, Meyr.
,, *leucophaella*, Zell.
Phycita hemixanthella, Hmpsn.
Hypsopygia mauritialis, Boisd.
Pyralis pictalis, Curt.
,, *manihotalis*, Guen.
Tamraca torridalis, Led.
Herculia nigrivitta, Wlk.
,, *igniflualis*, Wlk.
,, *suffusalis*, Wlk.
Nymphula crisonalis, Wlk.
,, *fluctuosalis*, Zell.
,, *depunctalis*, Guen.
Oligostigma bilineale, Snell.
Talanga sexpunctalis, Moore.
Hymenoptychis sordida, Zell.
Tatobotys varanesalis, Wlk.
Bradina admixtalis, Wlk.
Hydrorybina bicolor, Moore.
Pycnarmon virgatalis, Moore.
,, *caberalis*, Guen.
,, *meritalis*, Wlk.
Zinckenia fascialis, Cram.
Eurrhyparodes tricoloralis, Zell.
,, *bracteolalis*, Zell.
Agrotera basinotata, Hmpsn.
Pagyda traducalis, Zell.
Erota elutalis, Wlk.
,, *ornatalis*, Dup.
Cnaphalocrocis medinalis, Guen.
Marasmia venilialis, Wlk.
,, *trebiusalis*, Wlk.
,, *trapezalis*, Guen.
Syngamia floridalis, Zell.
Bocchoris acamasalis, Wlk.
Dichocrocis evaxalis, Wlk.
Ceratarcha umbrosa, Swinh.
Botyodes asialis, Guen.
,, *flavibasalis*, Moore.
Sylepta aurantiacalis, Fisch.
,, *lunalis*, Guen.
,, *derogata*, Fab.
Lygropia quaternalis, Zell.
Agathodes ostentalis, Hubn.
Glyphodes laticostalis, Guen.
,, *negatalis*, Wlk.
,, *psittacalis*, Hubn.
,, *hilaralis*, Wlk.
,, *marginata*, Hmpsn.
,, *vertumnalis*, Guen.
,, *unionalis*, Hubn.
,, *stolalis*, Guen.
,, *bivitralis*, Guen.
,, *caesalis*, Wlk.
,, *canthusalis*, Wlk.
,, *pyloalis*, Wlk.
,, *bicolor*, Swains.
,, *indica*, Saund.
Pygospila tyres, Cram.
Euclasta defamatalis, Wlk.
Lepyrodes neptis, Cram.
,, *geometralis*, Guen.
Analyta sigulalis, Guen.
,, *melanopalis*, Guen.
Leucinodes orbonalis, Guen.
,, *apicalis*, Hmpsn.
Crocidolomia binotalis, Zell.
Sameodes cancellalis, Zell.
Archernis tropicalis, Wlk.
Terastia meticulosalis, Guen.
Isocentris filalis, Guen.
Maruca testulalis, Geyer.
Tetridia caletoralis, Wlk.
Pachynoa sabelialis, Guen.
Pachyzancla licarsisalis, Wlk.
Antigastra catalaunalis, Dup.
Noorda blitealis, Wlk.
,, *fessalis*, Swinh.
Pionea albicostalis, Swinh.
,, *leucanalis*, Swinh.
Pyrausta incoloralis, Guen.

CALCUTTA.
January 8, 1935.

D. G. SEVASTOPULO,
F.R.E.S.

XXXVII.—A NOTE ON *ELYMNIAS HYPERMNESTRA UNDULARIS*, DRURY.

The hatching of the larva of *E. hypermnestra undularis* is sufficiently unusual to merit recording.

Lepidopterous larvae, as a general rule, escape from the ovum by eating an untidy hole in the shell, through which they emerge. The subject of this note, however, does not act in this way but instead cuts neatly round the ovum, about three-quarters up from the base, making a hinged cap. This is presumably forced open by the larva and then falls back into place. The larva rests beside the apparently intact eggshell for a few hours and then eats it as its first meal.

This is the only species of Satyrid that I have bred from ova, so I cannot say if this habit is usual in the family. If it is, I have never seen it recorded. No other Lepidopteron that I have bred has treated the egg in this way.

Since writing my note on the hatching of the larva of this species, I have received a specimen page, describing the life-history of *Satyrus* (*Melanargia*) *galathea*, L., from *The Complete Book of British Butterflies* by F. W. Frohawk.

In this Mr. Frohawk writes: 'Upon hatching, the young larva eats round the crown of the egg, cutting out a large circular lid, and pushes it off upon emerging'. This habit may, therefore, be more or less general among the Satyridae.

CALCUTTA. D. G. SEVASTOPULO,
January 8, 1935. F.R.E.S.

XXXVIII.—WAX-PRODUCTION IN MEALY BUGS: *ALEURODIDAE*.[1]

The secretion of wax is a very commonplace phenomenon in many of the *Homoptera* and is particularly noticeable in all the families of *Sternorhyncha*. Wax is secreted by special structures known as *wax-glands*, *wax-cells* and *wax-pores*. The arrangement, position and structure of these may differ in different families. The secretion of wax is found in the larval as well as in the adult stages. In the family *Aleurodidae*, wax-secretion is profuse in the adults of all the species, but not found to the same extent in the larvae. Generally three types of wax-pores are found in the larvae of *Aleurodidae*: (1) simple, (2) agglomerate and (3) compound. The structure of the simple and compound wax-pores is as follows:—

Simple wax-pores are circular holes of small or large size in diameter from .017 mm. to .027 mm. These exist in greater numbers in those species which secrete a large quantity of wax. In

[1] These observations were made on *Trialeurodes vaporariorum*—the greenhouse white fly—at Edinburgh, under Dr. C. B. Williams, now the Chief Entomologist, Rothamsted, England.

compound pores the holes have a chitinous ring surrounding them and a definite elevated cup-like structure. Within the cup the pores are arranged in a ring and are produced into more or less elevated rods or tubes.

In the adults there are chitinous plates which are placed ventrally on the abdominal segments and are known as wax-plates. These may be comparable to the wax-plates in honey bees. There are two pairs of these plates in the female placed on the third and fourth segments respectively, and four pairs in the male on the third, fourth, fifth and sixth segments. These wax-plates appear like thick pads and are oily yellow in appearance. They are separated by a median line in the centre of the abdomen but extend considerably outwards on both sides so that they can be very clearly seen laterally as they are bounded by a black line.

In the female both the plates appear to be equal in dimensions, but in the male the first one is bigger and the succeeding ones gradually reduced in size. When viewed under microscope these present an appearance of plates possessing minute holes arranged in regular rows.

When highly magnified (1,200 times under the oil-immersion lens) these holes appear like cells in a honeycomb. These are the minute circular pores through which wax comes out or is forced out in small minute particles or threads. In thin microtome sections taken through these wax-glands there is seen a single layer of secreting cells with large nuclei which contain vacuoles. There are numerous granules in these vacuoles which are found in a large number towards the outer side.

A careful examination of these plates in a male of *T. vaporariorum*, under a very high magnification, shows that each of the last three plates contains 40 rows of 90 cells each at an average; the first one has 50 rows as it is larger. Thus the total number of pores of one side comes to 3,600 × 3 = 10,800 plus 50 × 90 = 4,500 = 15,300 or approximately 15,500 and both the sides together will bring the number to 31,000. Each side on the abdomen the space occupied (longitudinally) is .3 mm. In the female there are only two pairs of plates which are rather broader and occupy space to the extent of .23 mm. each side. Each of the plates contains pores in rows of 63 × 95 and 60 × 95 cells respectively. The total number of pores on one side thus comes to 11,685 or nearly 12,000. It is not understood why the number of pores is less in females.

Freshly hatched specimens are perfectly free from any wax particles soon after emergence. The wax-plates, not being at work, cannot be marked out very clearly.

I give below my observation on a specimen for about 5 hours from its emergence. It was a male. It extricated itself with great difficulty from the pupal case which operation took it about an hour. This was at 10 a.m. In the first two hours no wax was seen being secreted but only the wax-plates assumed an oily olive appearance.

Then one of the plates (on the left side) was seen covered with white flocculent material which soon after drying became white,

The insect (which was under a binocular) was actively moving its legs first of one side and then of the other. In this way the legs actually brushed off the wax accumulated on the plate and by dashing the legs here and there it distributed the wax or the meal all over its body.

As the plates on the left side were active, the left side of the body was covered with wax, first the abdomen and its end, then the underside of the wings and then the front part of the body. Gradually all the plates began to secrete wax which was being spread all over the body. All the plates were in full action by 3 p.m. i.e. 5 hours after emergence.

The structure of the meal or the wax secreted is very peculiar. It is in the form of spiral threads as if forced out through small holes, but under abnormal conditions, or if the meal is not constantly removed by the brushes on the legs, it assumes the form of long threads appearing like silken combs or tufts. While observing the eclosion of flies from the pupae, I have seen several specimens with three-fourths of their body out and struggling hard to extricate the last part of the body. The insect stands erect and dashes its legs in the air; with wings in the unexpanded condition. The wax-plates are active and the wax begins to appear on the body. As no brushing off is possible in that condition, the wax goes on accumulating and a very thick brush-like layer is formed.

Under the microscope these appear like bunches of long threads with one end curved. I have also observed cases of partial emergence wherein the flies have died after the upper part of the body —head and thorax—having come out, the abdomen remaining inside the pupal case. In such cases I have found after pulling out the abdomen that it was full of waxy brushes, proving thereby that the wax-plates were actively secreting wax even though the abdomen was enclosed in the pupal covering.

DEPARTMENT OF AGRICULTURE,
BOMBAY.
January 8, 1935.

V. G. DESHPANDE,
M.AG. (Bom.), PH.D. (Edin.).

XXXIX.—AN ANNOTATED LIST OF INDO-CEYLONESE TERMITES.

Since the publication of the Catalogue of Indo-Ceylonese Termites (vol. xxvii, No. 3) the writer has come across a paper on 'New Termites from India' by Thomas E. Snyder (*Proceedings of the United States National Museum*, vol. 82, Art. 16, pp. 1-15, pl. 1, 1933). The paper deals with the following species:—

Fam. *Kalotermitidae*:

Kalotermes (*Neotermes*) *andamanensis*, Snyder. A new species, from North Andaman Island. 'Close to *Kalotermes* (*N*) *greeni*, Desneaux of Ceylon.'

Kalotermes (*Neotermes*) *bosei*, Snyder. From Mathranwala, Dehra Dun, United Provinces, India. 'ex. *Ficus* sp.'

Kalotermes (*Neotermes*) *gardneri*, Snyder. From Dehra Dun. 'ex. rotten *Mangifera indica*.'

Fam. *Rhinotermitidae*: *Heterotermes malabaricus*, Snyder. From 'South Mangalore, 400 ft. Malabar Coast.'

Fam. *Termitidae*: *Termes* (*Termes*) *dehraduni*, Snyder. Also from Dehra Dun.

Termes (*Termes*) *malabaricus*, Holmgren. Also from Dehra Dun.

Termes (*Cyclotermes*) *almorensis*, Snyder. 'West Almora Forest Division, United Provinces, India. Altitude 5,000 ft.'

Microtermes pubescens, Snyder. From 'Dehra Dun, United Provinces, attacking aerial roots of *Ficus bengalensis*.'

Nasutitermes (*Nasutitermes*) *fletcheri*, Holmgren. Recorded from 'Anamalai Hills, 2,400 ft., Madras.'

Nasutitermes (*Rotunditermes*) *anamalaiensis*, Snyder. 'Anamalai Hills, 2,400 ft., Madras.'

Nasutitermes (*Subulitermes*) *gardneri*, Snyder. 'Rangirum, Darjeeling, Bengal, India, in rotted wood at an elevation of 6,000 ft.'

Microtermes beesoni, Snyder. 'Chakata Range, Haldwani, United Provinces, India.'

Microtermes championi, Snyder. 'Haldwani District, Kumaon, United Provinces, India.'

All the above ones, except *Nasutitermes* (*Nasutitermes*) *fletcheri*, Holmgren and *Termes* (*Termes*) *malabaricus*, Holmgren, are new species described by Snyder.

AGRICULTURAL RESEARCH INSTITUTE,
LAWLEY ROAD, COIMBATORE. V. MARGABANDHU.
November 27, 1934.

XL.—A NOTE ON THE DISTRIBUTION, OVIPOSITION AND PARENTAL CARE OF *SCUTIGERELLA UNGUICULATA* HANSEN VAR. *INDICA* GRAVELY.

(*With two text-figures*).

Soon after the first few monsoon rains in 1932 I collected from Kovalam[1] a number of specimens of *Scutigerella unguiculata* Hansen var. *indica*, which Gravely recorded from Calcutta (4)[2].

[1] Seven miles to the south of Trivandrum near the coast.
[2] The number in brackets denotes the literature referred to.

Later on when collecting cryptozoic forms from various places near Trivandrum and also from Ponmudi hills (3,500 ft. above sea-level in the Western Ghats), I found that it occurred fairly abundantly in all wet situations under stones, and under rotting leaves and timber.

As this variety recorded from Calcutta occurs in the southern extremity of India it is probable that it may be distributed in the intermediate regions also. Gravely in a footnote (4) says that he had found this form in Kandy and Pattipola in Ceylon and adds that Green had told him about a similar looking centipede that he had seen at the top of Namunukuli hill and says that it is probable that it is widely distributed throughout the Island. Last March I myself collected this variety from Kandy and from various parts of the Uva Province including Passara (3,000 ft.) at the foot of the Namunukuli hill, and am in a position to confirm the opinion of Gravely regarding its wide distribution in the Island of Ceylon.

The species *subunguiculata* Imms is recorded from Danaulti in Tehri Garhwal. It is the only species of *Scutigerella* recorded from India (3). *Scutigerella unguiculata* Hansen is from La Moka, Venezuela (2).

Habits.—These active little creatures avoid light. The specimens are not found during summer but suddenly make their appearance in large numbers as the rainy season commences. A specimen that I kept in a small tube three months ago with a small quantity of moist earth is still living.[1] The only food it had since then is the blue green alga formed inside the tube. I have reared a number of specimens and have never found them to be predaceous.

Oviposition.—The animal lays five to nine eggs at a time. I have seen the captive animal laying the eggs in groups of two or three in a careless manner whereas in natural conditions they are laid in a single cluster. The eggs are held together though not very firmly.

Each egg is imperfectly oval with a number of projections resembling a morous fruit (fig. 1). These projections are formed by the silken network that the animal spins on the surface with the aid of its cerci. Wherever the silken threads reticulate a projection is found. Figure 2 shows the photomicrograph of an egg-mass mounted in balsam. The silken network has dissolved and the eggs have moved apart. It is probable that the secretion from the cerci is of a fatty nature.

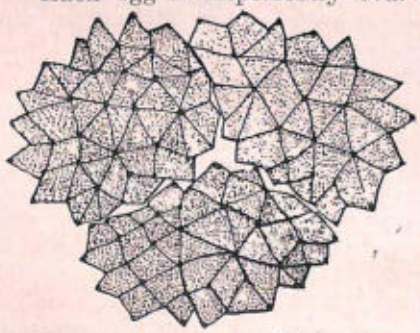


FIG. 1. A cluster of three eggs.

Parental care.—It is particularly interesting to note that this

[1] The animal died a month after this note had been sent.

minute creature exhibits a sort of parental care that I have observed only among the *Chilopods* in *Myriapoda*. The *Diplopods* always leave the eggs after safely depositing them. The way in which *Scutigerella* incubates the eggs is slightly different from that of the common centipedes *Scolopendra* and *Geophilus*. The *Scutigerella* simply remains over the eggs that are arranged in the manner of a disc probably till hatching time (which I have not seen). In the case of *Scolopendra* the mother bends once round the eggs and embryos and holds them together by the aid of its legs; and in the case of *Geophilus* the mother coils its long body round the eggs a number of times with the anterior end alone free.

FIG. 2. Egg-mass.

Recently when a stone was turned over I saw a specimen of *Scutigerella* incubating its eggs. The creature instead of running away calmly remained near the eggs and began to eat them. This work took about five minutes, after which it began to move about actively. On examination I found that the contents of four eggs had been completely sucked, the shells alone of which remained, while the fifth one remained untouched. *Scolopendra* also behaves in a similar way but only in captivity.

REFERENCES

1. 1876. Wood-Mason, J. 'Exhibition of Forms of *Arthropoda* new to India', *Proc. Asiat. Soc. Bengal*, 1876, pp. 174-5.
2. 1904. Hansen, H. J. 'The Genera and Species of *Symphyla*', *Q.J.M.S.* (*N.S.*), xlvii, 1904, pp. 1-101, pl. i-vii.
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September 20, 1934.

XLI.—OBSERVATIONS ON THE OVIPOSITION AND DEVELOPMENTAL STAGES OF A SPECIES OF *POLYXENUS*.

(*With* 2 *plates*).

Since July 1933 I have been engaged in working out the anatomy and development of this Diplopod which occurs fairly abundantly in Kovalam, 7 miles to the south of Trivandrum. A

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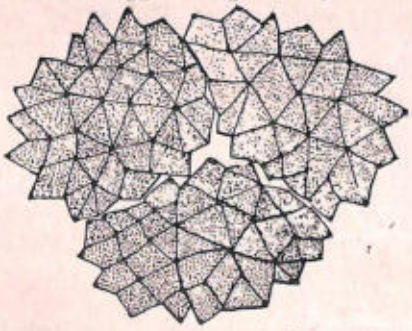
Each egg is imperfectly oval with a number of projections resembling a morous fruit (fig. 1). These projections are formed by the silken network that the animal spins on the surface with the aid of its cerci. Wherever the silken threads reticulate a projection is found. Figure 2 shows the photomicrograph of an egg-mass mounted in balsam. The silken network has dissolved and the eggs have moved apart. It is probable that the secretion from the cerci is of a fatty nature.



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XLI.—OBSERVATIONS ON THE OVIPOSITION AND DEVELOPMENTAL STAGES OF A SPECIES OF *POLYXENUS*.

(*With* 2 *plates*).

Since July 1933 I have been engaged in working out the anatomy and development of this Diplopod which occurs fairly abundantly in Kovalam, 7 miles to the south of Trivandrum. A

detailed account of the anatomy and development is in course of preparation and will be published later.

This Pselaphognathous Diplopod (provisionally determined as a species of *Polyxenus*) is seen under stones and under the barks of trees. The adult measures from 3.5 to 4 mm. There are transverse rows of setae on the head and tergites (fig. 1). The pleurae bear setae in bundles. The sternite of the last segment which is apodal bears a thick median bundle of long setae specially constructed to serve as an organ of defence for the animal (fig. 2).

The antennae are eight-jointed, and the two laterally placed eye-groups are each composed of 8 ocelli. There are 11 trunk segments with 13 pairs of legs. Genital openings are situated behind the coxae of the second pair of legs and the anus is situated on the 10th segment.

The females are usually slightly larger than the males and especially so when distended with ripe ova. Copulation takes place many days before oviposition. In the vas deferens the spermatozoa are short and kidney-shaped and appear to be provided with a membranous covering. After the transference of the spermatozoa into the receptacula seminales of the female the membranous covering disappears and the spermatozoa grow in length.

Eggs are laid at night. The mother envelopes the egg-mass with a large number of setae from its postanal median bundle which it voluntarily dislodges for the purpose (fig. 3). This setal envelope efficiently helps to scare away the egg-eating enemies which in this case is a microscopic mite belonging to the family *Tyroglyphidae* and a Neuropteran insect belonging to the family *Psoscidae* commonly known as a book-louse.

Usually 20 to 40 eggs are laid in the form of a plate one layer thick. The eggs are oval or kidney-shaped and measure 0.32 mm. long and 0.18 mm. broad and are arranged vertically with their broader side up.

About nine days after the eggs are laid the eggshell ruptures in the middle transversely and there wriggles out from it the pupa which remains quiescent for seven days.

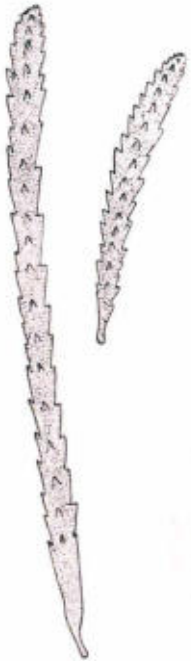
The pupa is encased in a thin membrane formed by a secretion of the embryonic ectodermal cells. The surface of the pupa is tuberculated. Rudiments of antennae, limbs and pleural projections are seen as small buds.

(It may be stated here that the presence of a pupal stage in the life-history of *Pselaphognatha* has not been recorded by any of the previous workers on this group.)

On the fourth day 5 simple ocelli develop on each side of the pupa. The pupa which is at first pure white in colour acquires a brownish tinge.

On the seventh day the pupal membrane ruptures in the region of the head and a tiny white larva bearing 3 pairs of legs comes out and actively moves about and feeds.

The stages of the larval development are shown in the tabulated form. The interval from moult to moult is very variable. It



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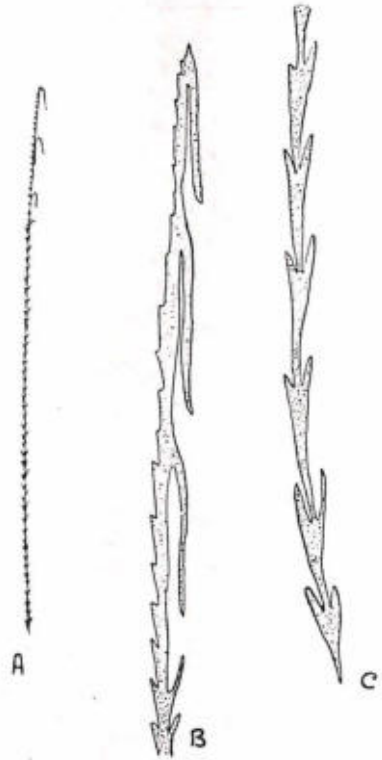

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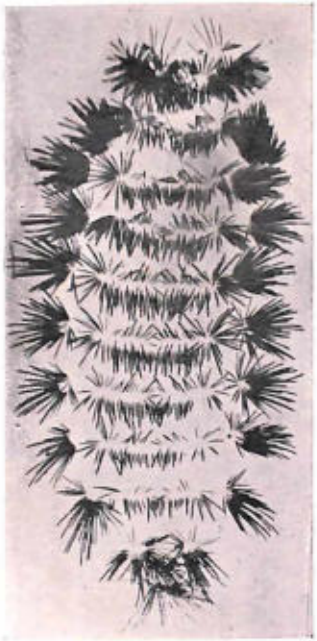
1. Ordinary setae. 2. Defensive setae.
3. Pupa, front view (mag. ×170).



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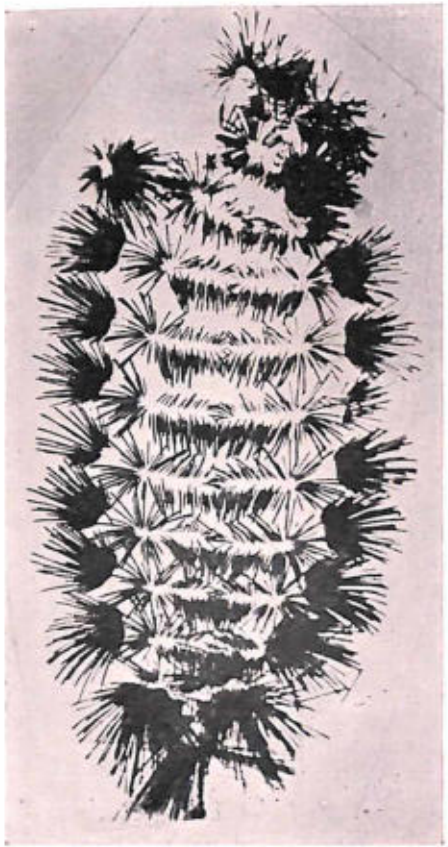

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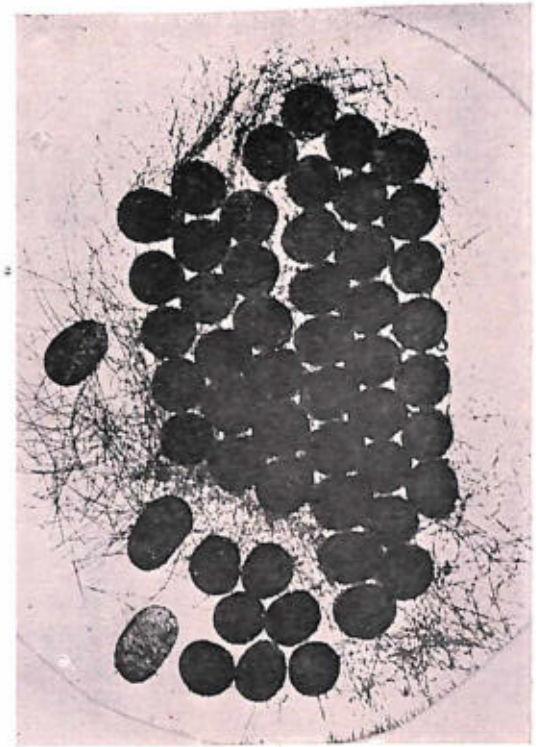

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4. Moult of male. 5. Moult of female. 6. Egg mass with the setae all round.

depends on the quality of food supplied and other conditions of rearing. In the later stages there is a progressive increase in the intervals between the succeeding moults.

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II ...	5	4		16 ,,
III ...	6	5		3 weeks.
IV ...	7	6		3 to 4 weeks.
V ...	8	8		4 to 7 ,,
VI ...	9	10	♂ ♀	7 to 10 ,,
VII ...	10	12	♂ ♀	7 to 10 ,,
VIII ...	11	13	♂ ♀	8 to 10 ,,

The animal continues to moult even after acquiring the full complement of segments and appendages. The details of the developmental stages of *Polyxenus* represented in the tabular statement above agree fairly closely with those of female *Polyxenus lagurus* as investigated by Reinecke.

The female becomes sexually mature only long after acquiring the full number of legs and appendages whereas the male becomes sexually mature even when it possesses only 10 segments and 12 pairs of legs. During moulting the old setae are all shed along with the exoskeleton and the new setae that replace them are pure shining white in colour turning grey on the second day.

The figures 5 and 6 show the moults of a male, female at the VIII stage. Photomicrographed.

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August 20, 1934.

XLII.—PRECOCIOUS GERMINATION.

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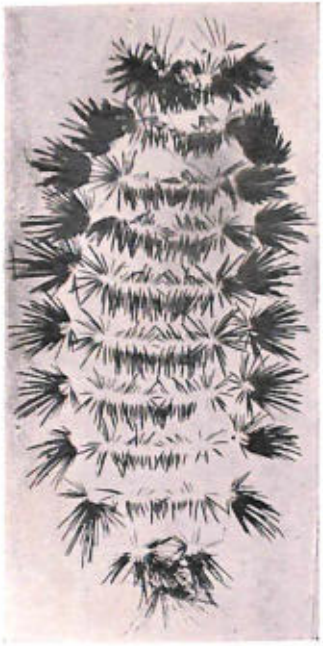

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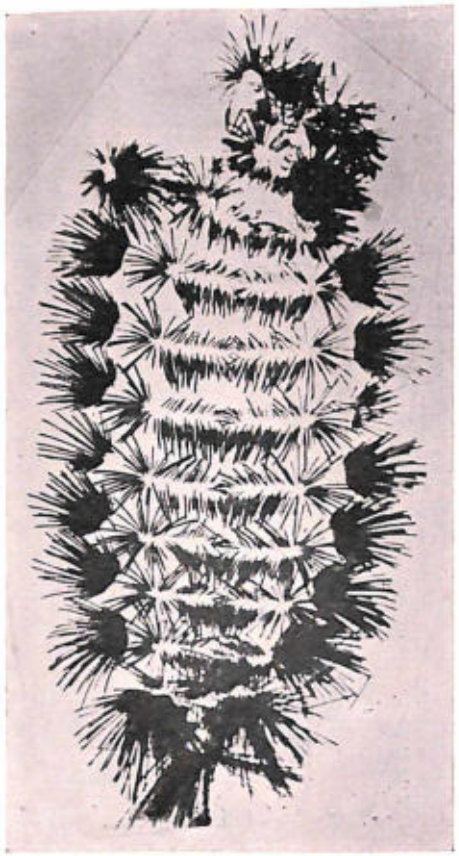

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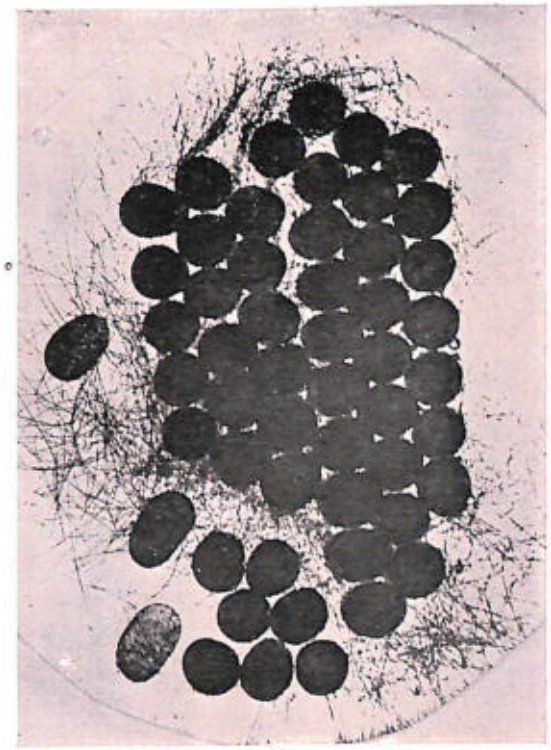

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4. Moult of male. 5. Moult of female. 6. Egg mass with the setae all round.

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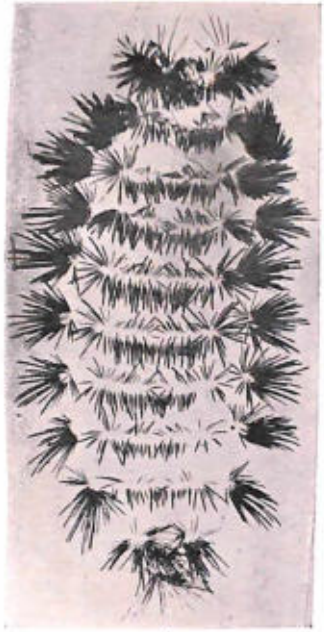

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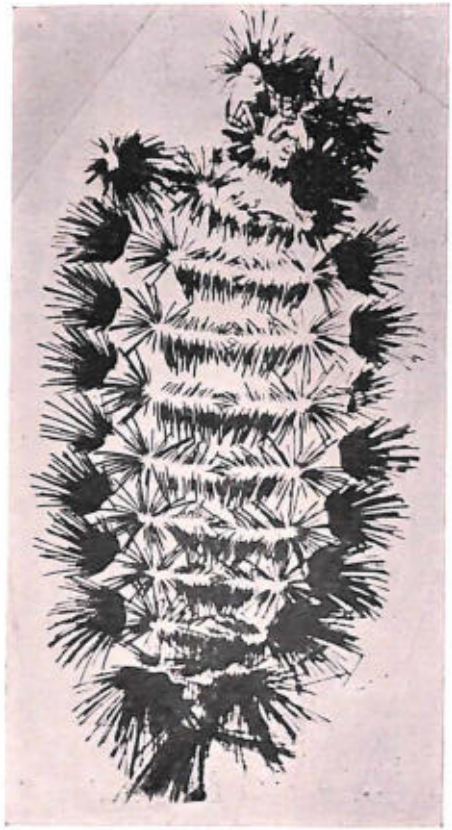

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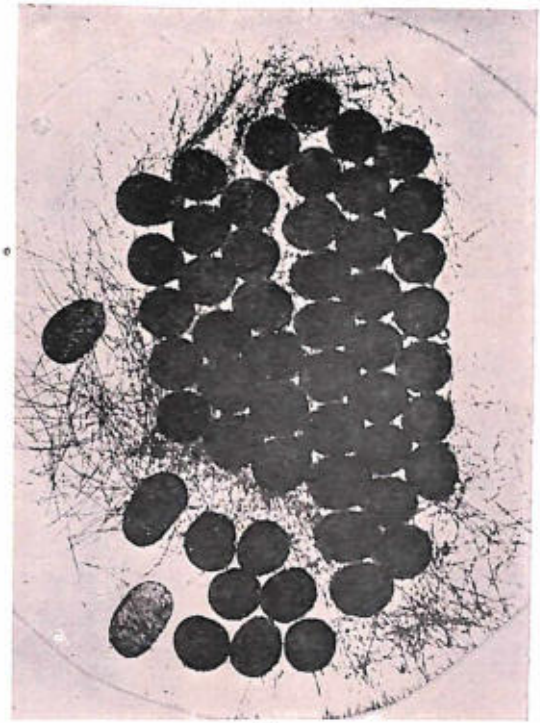

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[1] *Current Science*, 1934, iii, 3, 128.

obtained from the market. If the former, this will be perhaps the first case of its kind seen. If the latter, it should be noted that this is not at all a rare phenomenon. Such mango seeds, germinating inside the mother fruit, have been frequently observed by me, particularly from specimens obtained late in the season, or even long after the fruiting normally ends. In this connection, however, one fails to see the significance of the remark that the development of the radicle was due to unfavourable conditions of the soil. Where does the soil come in at all—much less its unfavourable effect—in these cases, is not at all clear. These are points on which one would like to have more light thrown. On the other hand, as will be shown later, such cases of precocious germination are indeed due to the particularly favourable environment of the seed. Another point that may be mentiond in connection with germination of this type is that the otherwise soft pulp becomes hard and 'knotted' in the vicinity of the germinating radicle.

If the fruit showing the peculiarity was purchased from the market, it is to be noted that the fibreless varieties of mango, to which the *Fazli* belongs, are always artificially ripened in a packing of hay or some similar stuff. The nature of the packing material varies according to the time when the fruits are required for consumption.

Furthermore, such cases of precocious germination are not rare even otherwise. They have been seen and reported in other fleshy fruits, which specially seem to favour such germination. *Papaya* is one such. In this fruit germinating seeds have been observed not only by me, but also reported by others.[1, 3] Other fleshy fruits characterised by the same feature are: *Cacti*, *Melocanna bambusoides*,[2] *Cucurbita*, apples, tomatoes, etc.,[3] *Dracaena*, Mandarin orange, *Mermecodia*.[1]

With reference to the author's statement that such a form of germination is known in the case of viviparous mode of life, it is merely begging the question. 'Viviparous mode of life' is a somewhat vague and loose statement, not always connoting the same idea. It has been used in a wider sense to mean, for example, the uninterrupted development of the embryo, without a resting period (or a seed stage), whether or not within the fruit itself; as also in a more restricted sense, of germination in the fruit on the plant. (Mattfeld, as cited by Engler,[3] excludes under this designation the germination of the seeds altogether, including these under 'Bioteknose', and restricts it to cases of sprouting of detached shoots, buds and bulbils, in the position of flowers, endowed with the capacity of living and developing independently.) The latter, however, is the more generally accepted view.

If used in the latter sense, it should mean that the fruit with the germinating seed was obtained directly from the plant, which is not clear. If the former, then there are already a number of plants in which uninterrupted development of the germ

[1] Guppy, 1906. *Observations of a Naturalist in the Pacific*, ii. London.
[2] Goebel, 1923. *Organographie der Pflanzen*, iii. Jena.
[3] Engler, 1926. *Pflanzenfam.* xiv a. Leipzig.

from the fertilised egg to the complete seedling, has been reported. Some examples of fleshy fruits have already been mentioned above. But there are also *dry* fruits in which similar relation is found. Such are, for example, *Crinum* and *Cryptocoryne*,[1] among others, where there is an uninterrupted development of the germ even under ordinary conditions. Others whose seeds do not ordinarily germinate but do so when the temperature and humidity of the surroundings are high are: *Dryobalanops camphora*, wheat grains on the stalk,[1] *Ipomea glaberrima, I. peltata, Hibiscus diversifolius, Croton sp., Luffa cylindrica,*[2] *Juncus, Epilobium, Agrostemma, Papaver somniferum, Tetranema mexicana,*[3] *Avena* sativa.[4] Mr. Joshi[5] also mentions *Atriplex* and *Suaeda*, but these were collected in wet weather in December.

Really speaking, vivipary is found to be, on analysis, the final expression of a continuous chain of events, beginning with the detachment of immature seed with a rudimentary embryo, and, therefore, requiring an obligatory period of rest for ripening in the soil, and ending with those seedlings which remain growing for months on the tree e.g. *Rhizophora, Brugiera*, etc. The intermediate links are represented by (1) those seeds which are quite mature when detached from the parent and hence ready to germinate as soon as fallen on the ground; (2) seeds which merely begin to germinate while still on the plant, but soon get detached and fall off e.g. *Laguncularia* and (3) mangrove plants where germination is completed on the tree, but the seedling is forthwith liberated, e.g., *Avicennia*. It is, in fact, a matter of small beginnings, or as Guppy[2] conceives and puts it 'a matter of small endings'. According to him it represents an adaptation to primitive condition, when in remote geological times, there was a uniform climate over the whole of the earth (an inference not wholly accepted[6]), and the resting period of the seeds is due to the differentiation of the climate and the ushering in of distinct seasons. Joshi,[7] however, demurs to his explanation and has suggested that the viviparous habit probably arose as a deviation from the normal, and that it is a device to dodge the injurious action of the saline habitat in preventing the germination of the seed in the soil. According to him the viviparous plants have become grouped together near the sea-shore, because the habit really proved useful there, characterised as it is by a constantly high salinity throughout the year.

The obligatory resting period may be due to a variety of causes. As already indicated, the seed may be detached when the embryo

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[1] Goebel, 1889. *Pflanzenbiol. Schild*, i, 117-134. Marburg.
[2] Guppy, 1906. *Observations of a Naturalist in the Pacific*, ii. London.
[3] Engler, 1926. *Pflanzenfam.* xiv a. Leipzig.
[4] Weaver and Clements, 1929. *Plant Ecology*. New York and London.
[5] Joshi, 1932. *Journ. Ind. Bot. Soc.*, xi.
[6] Seward, 1931. *Plant Life through the Ages*. Cambridge.
[7] Joshi, 1933. *Journ. Ecol.*, xxi, 1.

is still immature. In other cases the resting period may be necessary in order to complete chemical changes, known as after-ripening, which are necessary before germination can start. In still other cases (examples already cited) it may be merely facultative and determined by the physical conditions of the environment. A particularly striking example of this was reported by me[1] in the case of gram, where the sappy green seeds, under certain circumstances, may continue their uninterrupted development, although normally the seeds of this plant undergo a period of rest.

On an examination of the cases of precocious germination of seeds, otherwise requiring a resting period, the fact which clearly emerges, is that great humidity combined with a high temperature are predominantly associated with the phenomenon in question.[2] From this the germination of the mango seed inside the pulpy fruit is quite intelligible. The conditions under which ripening mangoes are stored, buried in a mass of hay or some similar stuff, in the steamy atmosphere of the rainy season and further enhanced by the ripening juicy pulp of the fruit itself, are most ideal for favouring and maintaining uninterrupted development of the embryo. Therefore, in these conditions it is not surprising that what appears by comparison to be precocious germination, should result. In fact, as Goebel[3] has pointed out, the absence of a resting period in inhabitants of moist localities is bound up with the fact that from their ripening seeds not so much water is withdrawn as under conditions obtaining elsewhere.[3] Analogous conditions exist with regard to the mango seed, and the same explanation would appear to apply to the case in question.

BENARES HINDU UNIVERSITY. N. K. TIWARY.

February 1935.

XLIII.—ROOT FORMATION FROM LEAF-CUTTINGS.

On pages 105-106, vol. iii, No. 3, of *Current Science* Mr. P. E. Mullik[4] records interesting observations on the development of roots from the petiole of *Ficus religiosa* leaf, noted incidentally during an investigation of an altogether different kind. In his note the author gives a brief account of the process of root-formation from the petiole of the leaves kept in tap-water as well as in Pfeffer's dilute nutrient solution. He, however, adds that when

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[1] Tiwary, 1932. *Beihefte zum Bot. Centralbl.*, xlix, 1. Dresden—N.

[2] This precocious germination is also seen in the spores of the *Bryophyta*, e.g., *Pellia*, *Androcryphia*, *Fegatella*, *Dendroceros*, all inhabitants of moist localities, the spores germinating while still inside the *sporogonium* (Goebel, 1915-1918. *Organographie*, ii, 757).

[3] Goebel, 1923. *Organographie der Pflanzen*, ii. Jena.

[4] *Current Science*, 1934, iii, 105-106.

'one of the leaves with roots was placed in moist sand to see if any shoot would come out' . . . 'it began to show signs of decay' after three days.

Mr. Mullik does not make any mention of the previous literature on the subject, though the development of adventitious roots on leaves, and even the regeneration of an entire plant by the detached leaves are of fairly general occurrence and well known to gardeners who employ them for propagating several species. In this note I propose to deal with observations of a like nature hitherto recorded by various workers.

Identical behaviour on the part of the leaves of *Fittonia verschaffeltii* placed in moist soil was recorded by Krishnamurti.[1] Subsequently Patwardhan[2] and Mullan[3] named other plants in which the phenomenon had been noticed. In later papers Isbell,[4] and Roberts and Lawrence[5] have recorded their own observations on the subject.

Moreover there exists an extensive literature in connection with the phenomenon of regeneration. This has been specially dealt with by Goebel[6] who besides recording his own interesting observations and giving interpretation of the facts, cites also previous literature. More recently, an extensive monograph on the subject of regeneration and transplantation in animals and plants has been published by Korschelt.[7]

Kerner[8] has also discussed the subject in his classical work. This author cites numerous examples of plants regenerating adventitious roots, and even developing buds on severed leaves. The latter have in consequence been extensively employed in horticultural practice. Kenner also records the development of buds on scales and floral leaves. According to him, and other authors, epiphyllous buds, stimulated to develop artificially on severed leaves, are also found naturally on some plants. *Bryophyllum* is the best known example. But many other plants exhibiting the same peculiarity and belonging to several families, in which *Cruciferae, Gesneraceae* and *Liliaceae* predominate, are also listed.

More recently Molisch[9] has treated of the topic in some detail. He states that the capacity of leaves to develop roots is very widespread, but that leaves developing both roots and buds are not found in many plants. The leaves of the former category, therefore, cannot be utilised for propagation purposes. A few additional names are mentioned by the author.

The observations of Mr. Mullik are interesting in so much as the phenomenon had not hitherto been recorded for *Ficus religiosa*. One hopes that Mr. Mullik's observations will be successfully concluded and extended further by him and others, as one is really

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[2] *Ibid.*, 1931, x, 165.
[3] *Ibid.*, 1931, x, 167.
[4] *Bot. Gaz.*, 1931, xci, 411.
[5] *Bot. Gaz.*, 1933, xciv, 421.
[6] *Organography of Plants* Engl. Trans., 1900, i, 45ff.
[7] *Regeneration und Transplantation*, 1927, i. Berlin.
[8] *Natural History of Plants* Engl. Trans., ii, 40ff.
[9] *Pflanzenphysiologie als Theorie der Gartnerei*, 1930. Jena.

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THE COMMISSIONERS FOR THE PORT OF CALCUTTA UNDER SECTION 5, ACT III (B.C.) OF 1890.

Name of Commissioner.	By whom elected or appointed.	Date of commencement of office.	Date on which term of office expires.	REMARKS.
The Hon'ble Mr. C. J. Stevenson-Moore, C. V. O., Chairman.	Government	26-10-1916	...	
Henry Jephson Hilary, Vice-Chairman	Ditto	19-3-1915	...	Combd. lv. for 9 mos. from 1-4-1916. On war leave from 1-1-1917.
Sydney Charles Williams, offg. Vice-Chairman.	Ditto	1-4-1916	...	
The Hon'ble Mr. James Mackenzie	Bengal Chamber of Commerce.	3-12-1915	2-12-1917	
Edward Hugh Bray	Ditto ...	24-1-1916	23-1-1918	
Walter Erskine Crum	Ditto ...	9-2-1919	8-2-1919	
The Hon'ble Sir Francis Hugh Stewart, KT. C.I.E.	Ditto ...	4-4-1916	3-4-1918	
Cecil Frank Beadel	Ditto ...	11-1-1917	10-1-1919	
Ambica Charan Laha	Bengal National Chamber of Commerce.	13-5-1916	12-5-1918	
William Heath Phelps ...	Trades Association ...	24-2-1917	23-2-1919	
The Hon'ble Raja Rasheecase Law, C.I.E.	Corporation of Calcutta	17-10-1916	16-10-1918	
Agent, Bengal-Nagpur Railway ...	Government	8-6-1914	...	*Ex-officio.*
Agent, East Indian Railway ...	Ditto	19-4-1914	...	Ditto.
Captain-Superintendent, Royal Indian Marine, Kidderpore Dock Yard.	Ditto	1-5-1916	...	Ditto.
Collector of Customs, Calcutta ...	Ditto	6-8-1907	...	Ditto.
Agent, Eastern Bengal Railway ...	Ditto	19-4-1913	...	Ditto.

THE COMMISSIONERS FOR THE PORT OF CALCUTTA UNDER SECTION 5 ACT III (B. C.) OF 1890.

Appointment.	NAME.	Date of appointment.	Salary.	REMARKS.
			Rs.	
Medical Officer	Lt.-Col. Robert Bird, C.I.E., M.V.O., I.M.S.	1-4-1904	600	
Chief Engineer	John Scott, M. INST. C.E. ...	12-7-1909	2,500	
Deputy Conservator of the Port.	Comdr. Ernest Algernon Constable, R.N. (Retd.).	15-2-1915	1,250—50—1,500	
Traffic Manager ...	T. J. McCloughlin ...	12-10-1914	2,000	
Chief Accountant ...	Norman George Park ...	11-6-1912	1,400—80 1,800.	
Secretary	John McGlashan, M. INST. C.E.	1-4-1916	1,500	Actg.

Commissioners for the Port of Chittagong.

NAME.	Date of appointment.	NAME.	Date of appointment.
NOMINATED COMMISSIONERS.		ELECTED COMMISSIONERS.	
1. K. C. De, C.I.E., *Chairman* ...	1-5-1916	1. Babu Upendra Lal Roy ...	2-9-1916.
2. A. H. Clayton, I.C.S., *Vice-Chairman* ...	30-12-1915	2. Mr. A. R. Leishman	21-11-1916.
3. W. W. Nind	2-9-1916	3. The Hon'ble Mr. E. A. Martin ...	2-9-1916.
4. R. S. Hawkins, Agent, A.-B. Ry. ...	2-9-1916		
5. W. J. Kerr	2-9-1916		
6. Munshi Abdur Rahman Dobash ...	2-9-1916		

GRADATION LIST OF THE BENGAL PILOT SERVICE.

Covenanted or Licensed.	NAME.	Date of— Present rank.	Date of— First entry.	Grade and date of last examination.		REMARKS.
Branch Pilots (Established No. 18): covenanted 17, licensed 1.						
L	*Leonard Frederick Gee Smyth*	*9-12-1895*	*7-8-1876*	*B. P.,*	*2-11-1893*	*Comdg. S. P. V. Fraser.*
C	John Sherman	4-7-1904	28-10-1883	Do.,	14-10-1901	
C	William Bryant, V.D. ...	21-7-1906	28-10-1886	Do.,	14-10-1901	
C	*Charles George Budge* ...	*23-4-1907*	*29-10-1886*	*Do.,*	*14-1-1902*	*Combd. le. for 2 years from 8-3-1917.*
C	Godfrey Francis Thorpe ...	10-11-1908	28-10-1886	Do.,	14-10-1901	
C	*Herbert Edward Mackenzie* ...	*1-4-1911*	*29-4-1887*	*Do.,*	*14-1-1902*	*Comdg. S. P. V. Lady Fraser.*
C	John Horatio Lindquist ...	27-3-1911	27-9-1887	Do.,	15-7-1902	
C	Smeaton John Knighton Chase, V.D.	8-8-1911	27-10-1887	Do.,	23-12-1902	
C	*Charles Forrest Keys* ...	*17-6-1912*	*27-10-1887*	*Do.,*	*14-1-1902*	*Combd. le. for 1 yr. 3 mos. and 18 days from 1-4-1916, p.m.*
C	*William Hamilton Dunlop Allison.*	*20-3-1913*	*19-4-1890*	*Do.,*	*24-10-1902*	*Combd. le. for 6 mos. from 21-5-1915. Services temporarily placed under Admiralty from 20-7-1915.*
C	Richard Stracey Smyth ...	1-4-1913	19-4-1890	Do.,	14-10-1901	
C	*Harry Dyer Lindquist* ...	*1-6-1913*	*18-11-1890*	*Do.,*	*15-4-1904*	*Combd. le. for 2 years from 30-10-1914 + 14 mos. Received a commission in the R. I. M.*
C	John Frederick Fox ...	1-4-1914	27-4-1891	Do.,	14-7-1903	
C	Henry George Howe Bartlett	27-5-1914	5-4-1892	Do.,	16-1-1906	
C	*Hay Gerard Fox* ...	*3-11-1914*	*5-4-1892*	*Do.,*	*13-1-1905*	*Combd. le. for 2 years from 1-11-1915. Services placed under Admiralty.*
C	Edmund Paul Bryant ...	26-3-1915	20-10-1892	Do.,	11-1-1904	
C	*Frederick William Moore* ...	*5-11-1915*	*15-8-1893*	*Do.,*	*17-10-1905*	*Combd. le. for 1 year from 17-7-1916.*
C	Joseph Hudson ...	27-4-1916	28-10-1893	Do.,	17-10-1905	

Pilots receive 50 per cent. pilotage.

GRADATION LIST OF THE BENGAL PILOT SERVICE.

Covenanted or licensed.	NAME.	Date of— Present rank.	Date of— First entry.	Grade and date of last examination.		REMARKS.
Master Pilot (Established No. 30): Senior—Covenanted 23.						
C	Arthur William Michie ...	22-11-1903	15-11-1894	B. P.,	17-10-1905	Acting Branch Pilot.
C	Paul James Wilson ...	4-2-1905	5-4-1891	Do.,	12-4-1907	Ditto ditto.
C	Herbert Ancell	21-9-1905	20-10-1892	Do.,	7-1-1910	Ditto ditto.
C	Arthur Francis Paull ...	11-11-1904	11-11-1896	Do.,	12-10-1906	Ditto ditto.
C	Edward Alfred Ward ...	11-11-1905	11-11-1897	Do.,	4-10-1907	Ditto ditto.
C	Archie John Roland Coachafer.	11-11-1905	11-11-1897	Do.,	1-11-1907	Ditto ditto.
C	*Gerald Edward Champness ...*	*30-10-1906*	*25-10-1898*	*Do.,*	*9-1-1909*	*Comb. 1c. for 6 mos. from 13-12-1916.*
C	Arthur John William Ward ...	2-8-1907	2-5-1899	Do.,	10-7-1909	Special Pilot, B. I. S. N. Co.'s Rangoon Mail Steamers.
C	Herbert Alfred Cooper ...	27-6-1907	27-6-1899	Do.,	10-7-1909	Ditto ditto ditto.
C	*Sydney Hugh Reaks ...*	*2-2-1908*	*10-1-1900*	*Do.,*	*7-1-1910*	*Offg. Asst. Port Officer and Dy. Shipping Master.*
C	John Dunlop Allison ...	28-8-1908	28-8-1900	Do.,	7-7-1911	Special Pilot, B. I. S. N. Co.'s Rangoon Mail Steamers.
C	William Leon Allnutt ...	15-11-1908	15-11-1900	Do.,	6-4-1911	
C	Frank Lungley ...	27-4-1909	27-4-1901	Do.	7-7-1911	On patrol duty.
C	*Cecil Trevor Park ...*	*25-5-1908*	*15-11-1900*	*Do.,*	*7-7-1911*	*On mily duty.*
C	Arthur Henry Mauger ...	12-1-1910	9-5-1901	Do.,	12-1-1912	On examining duty at Kulpi.
C	*Arthur John May ...*	*1-4-1911*	*20-3-1903*	*Do.,*	*11-4-1913*	*On mily. duty.*
C	Charles William Henry Ansell	8-8-1911	18-6-1903	Do.,	11-4-1913	
C	Cyril Albert Devereil Greenland.	27-5-1911	14-5-1902	Do.,	3-10-1913	
C	*Howard Lindsay Emmerson*	*17-6-1919*	*22-4-1904*	*Do.*	*3-10-1913*	*Combd. 1c. for 2 years from 6-1-1916. Accepted tempy. Commission in R. I. M.*

Pilots receive 50 per cent. pilotage.

GRADATION LIST OF THE BENGAL PILOT SERVICE.

Covenanted or Licensed.	NAME.	DATE OF— Present rank.	DATE OF— First entry.	Grade and date of last examination.	REMARKS.
Master Pilot (Established No. 30): Senior—Covenanted 22.					
C	Vivian Cooper	20-3-1913	16-5-1904	B. P., 3-10-1913	
C	*Fredric Thomas Hart* ...	*1-6-1913*	*18-6-1904*	*Do., -1-1915*	*Combd. le. for 2 years from 23-1-1916.*
C	Charles Leo Byrne Owens ...	23-2-1914	16-6-1902	Do., 8-1-1915	
Junior—Covenanted 6.					
C	*Ernest Geoffrey Bacon* ...	*1-4-1914*	*15-2-1905*	*B. P., 12-4-1915*	*Combd. le. for 2 years from 5-2-1916.*
C	*George Golding* ...	*27-5-1914*	*15-2-1905*	*Master, 10-1-1913*	*On military duty.*
C	*George Stamper Scoby* ...	*3-11-1914*	*15-5-1905*	*Do., 15-4-1914*	*Combd. le. for 1 year from 10-7-1915. Accepted a tempy. commission under the Admiralty.*
C	Douglas Ingram-Halford ...	26-3-1915	10-3-1906	B. P., 20-10-1916	Acting senior Master Pilot.
C	Albert Henry Dove ...	1-6-1915	18-6-1907	Do., 20-10-1916	Ditto.
C	Douglas Leonard Vine ...	10-9-1916	10-3-1909	Master 7-7-1916	On examining duty at Kulpi.
Mate Pilots (Established No. 10)—Covenanted 5.					
C	*Percy Ridley*	*12-4-1915*	*28-12-1907*	*Mate, 11-4-1913*	*Combd. le. for 6 mos. from 12-3-1915 Accepted temporary Naval commission.*
C	*Lewis John Macdonald* ...	*27-7-1913*	*27-1-1909*	*Do., 11-7-1913*	*On military duty.*
C	Jocelyn Charles Penrose Rawlins.	14-7-1914	29-12-1908	Do., 10-7-1914	Chief Officer, S. P. V. *Lady Fraser.*
C	Francis Hubert Alexander Lendrum.	15-1-1916	1-11-1909	Do., 14-1-1916	Chief Officer, S. P.V. *Fraser.*
C	William Crutchlow ...	13-4-1915	27-1-1916	Do., 7-4-1916	

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GRADATION LIST OF THE BENGAL PILOT SERVICE.

Covenanted or Licensed.	NAME.	DATE OF— Present rank.	DATE OF— First entry.	Grade and date of last examination.	REMARKS.
	Leadsmen Apprentices, 10 (Sanctioned No. 16).				
	(*a*) First Mates.				
C	William Colgan Mayston ...	10-2-1916	10-2-1912	First Mate, 14-1-1916	
	(*b*) Second Mates.				
C	*George T. Labey* ...	*11-5-1912*	*11-5-1910*	*2nd Mate, 10-4-1912*	*Combd. le. for 1 year and 3 mos. from 25-11-1913; leave extended till end of war.*
C	*Fulbert Audley Archdale* ...	*10-1-1914*	*8-1-1912*	*Do., 9-1-1914*	*On military duty.*
C	William Murton Taylor ...	29-5-1915	29-5-1913	Do., 12-4-1915	2nd Officer, S. P. V. *Fraser.*
C	John Siderfin Davis ...	15-1-1916	27-12-1913	Do., 14-1-1916	
C	Walter Ramsay McClymont ...	25-1-1916	25-1-1914	Do., 14-1-1916	On patrol duty.
C	Geoffrey Purrott ...	7-2-1916	7-2-1914	Do., 14-1-1916	
	(*b*) Leadsmen Apprentices.				
C	*Ernest Errington King* ...	...	*15-12-1912*	.....	*Combd. le. for 6 mos. from 4-7-1914. + 1 mon.; leave extended till end of war.*
C	*Howard Oakley Long* ...	...	*6-5-1914*	.....	*Extraordinary leave without allowance for 12 mos. from 8-1-1915. On military duty.*
C	Noel Edward Garnett° ...	...	13-6-1916	.....	2nd officer, S. P. V. *Lady Fraser.*

° Pilots receive 50 per cent. pilotage.

PART

DEPARTMENT OF PUBLIC

No.	NAME.	Date of first appointment to Government service.	Date of first appointment to the Education Department, whether permanent or temporary.	Date of appointment to the Indian Educational Service or the former graded service.	Substantive appointment and date.
	Director of Public				
1	The Hon'ble Mr. William Woodword Hornell, M.R.A.S., M.A. (Oxon) (*c*).	...	12-5-1913	12-5-1913	.....
	Indian Educa				
	Personal Allowances, First				
1	Henry Rosher James, M.A. (Oxon)	9-2-1890	9-2-1890	Class I, 16-11-1915.	Inspector of Schools, Presidency Division.*
2	Bernard Heaton (*b*)† ...	1-10-1887	13-11-1891	Class I, 1-12-1915.	Principal, Civil Engineering College, Sibpur, 12-6-1904.
3	(Held in abeyance) ...	...	...	..	.....
	Personal Allowances, Second				
1	Charles William Peake, M.A. (Oxon) (*b*) (*c*).	21-12-1895	26-12-1895	Class II, 19-12-1912.	Professor, Presidency College, 14-1-1906 *
2	Cuthbert Edmund Cullis, M.A. (Cantab) Ph. D. (*c*).	17-11-1900	17-11-1900	Class II, 16-11-1915.	Professor, Presidency College, 23-11-1909.
3	Henry Ernest Stapleton, M.A., P.Sc. (Oxon) (*c*).	15-11-1900	15-11-1900	15-11-1900	Inspector of Schools, Dacca Division, 4-10-1905.
4	Wilfred Hermann Everett, B.A., B.E., (R.U.I.), M.I. Mech. E., M.I.E.E.	29-11-1901	29-11-1901	Class II, 1-12-1915.	Professor, Civil Engineering College, Sibpur, 29-1-1901.

*Admitted to the Calcutta house-building and house-allowance scheme from 1-11-1906.
†Permanently retained in the Civil Engineering College, Sibpur—*vide* Genl. Dept. No. 3073, dated 31-10-1912.

XXII.

INSTRUCTION, BENGAL.

Salary.	Officiating appointment and date thereof.	Personal allowance.	REMARKS.
Instruction*(2,000—100—2,500).			
Rr. A. P. 2,300 0 0	.....	Rs.	Addl. Member, Bengal Legislative Council.
tional Service.			
Grade—(3)—(250—50—500).			
1,000 0 0	.....	500	Combined leave from 27-2-16 to 7-11-17, viz., privilege leave for 3 months and furlough for the remaining period.
1,000 0 0	.....	500	Draws tempy. allow. at Rs. 200 a month from 1-7-1915. Also Secretary, Mining Education Advisory Board of Bengal and Bihar and Orissa. Secretary, B. Final Examination Board of Bengal and Bihar and Orissa; Secretary, Pleaders' Survey Examination Board of Bengal.
.....	.....	.....	Mr. W. A. J. Archbold holds the post of Principal, Dacca College, on terms personal to himself.
Grade—(4)—(200—10—250)			
1,000 0 0	.....	200	Also Meteorologist, Calcutta.
1,000 0 0	.....	200	Also Bursar of the Presy. College, on an allowance of Rs. 150 a month.
1,000 0 0	.....	200—10—250	Secretary, Central Text-book Committee, Dacca. On deputation to military duty.
1,000 0 0	Superintendent of Industries and Inspector of Technical Institutions, Bengal, 18-11-1911.	200	Draws a local allowance of Rs. 200 per month and acting allowance of Rs. 200 per month while he holds the present acting appointment.

(b) Fellow of the Calcutta University.
(c) Passed in Bengali by the higher standard.

No.	NAME.	Date of first appointment to Government service.	Date of first appointment to the Education Department, whether permanent or temporary.	Date of appointment to the Indian Educational Service or the former graded service.	Substantive appointment and date.
					Other
1	Francis Charles Turner, M.A. (Oxon) (*b*).	12-12-1903	12-12-1903	12-12-1903	Asst. Dir. of Public Instruction, Bengal, 16-11-1915.***
2	Thomas Henry Richardson, M.A., B.A.I. (Dub.), M.I.C.E. Ireland.‡	5-1-1901	9-11-1903	1-3-1905	Professor, Civil Engineering College, Sibpur, 6-3-1905.
3	John Rothney Barrow, B.A. (Cantab.) (*b*).	9-6-1905	9-6-1905	9-6-1905	Principal, Chittagong College, 16-11-1915.
4	Edward Heton Roberton, B.A., M.SC., M.I.M.E., F.G.S. (*e*).	19-11-1905	19-11-1905	19-11-1910	Professor of Mining Engineering, Civil Engineering College, Sibpur, 19-11-[illegible].
5	Edwin Roy Watson, M.A. (Cantab.), D.SC. (Lond.) (*b*).	29-10-1904	29-10-1904	30-10-1906	Professor (Chemistry), Dacca College, 14-3-1908.
6	William Christopher Wordsworth, M.A. (Oxon and Lond.) (*b*) (*c*) (*d*) (*f*).	25-1-1908	25-1-1908	25-1-1908	Principal, Presidency College, 27-2-1916.
7	Edward Philip Harrison, Ph D.	22-2-1908	22-2-1908	22-2-1908	Professor of Physics, Presidency College, 22-2-1908.**
8	Richard Bury Ramsbotham, M.A. (Oxon.). (*a*).	2-6-1908	2-6-1908	2-6-1908	Professor (History), Dacca College, 6-7-1908.
9	Theodore Oliver Douglas Dunn, M.A. (Glasgow). (*b*).	7-12-1908	7-12-1908	7-12-1908	Inspector of Schools, Burdwan Division, 8-10-1914.
	George Findlay Shirras, M.A. (*Aberdeen*), F.E.S., F.S.S. (*b*).	*10-4-1909*	*10-4-1909*	*10-4-1909*	.....

‡ Transferred from the P. W. D., where he joined on 5-1-1906.
*Admitted to the Calcutta house-building and house-allowance scheme from 1-11-1906.
** Ditto ditto ditto from 26-2-1911.
*** Ditto ditto ditto from 16-11-1915.
(*a*) Lecturer in Modern History, Calcutta University.

TIONAL SERVICE.

Salary.	Officiating appointment and date thereof.	Personal allowance.	REMARKS.
Officers.			
Rs. A. P.			
1,000 0 0	...	.....	Draws duty allce. of Rs. 100 a month. Also draws temporary allowance of Rs. 150 a month from 1-7-1915.
1,000 0 0	...	.....	Draws temporary allowance of Rs. 150 a month from 16-11-1915.
1,000 0 0			
1,000 0 0			
1,000 0 0	....	.....	Furlough for 1 year and 9 months from 9-5-1916.
950 0 0	.....	.....	Draws duty allce. of Rs. 400 a month from 27-2-1916.
950 0 0	.....	..	For two years. On deputation to military duty.
900 0 0	.....	.....	On deputation to military duty.
900 0 0	Inspector of Schools, Presidency Division, 6-12-1916.		Also Secy. Central Text-book Committee.
1,500—1,750	.....	.....	*Services placed at the disposal of the Government of India for 5 years from 1-4-1914 as Director, Dept. of Statistics. His lien is suspended from 1-4-1914 in terms of G. O. No. 1117, dated 4th March 1915.*

(*b*) Fellow of the Calcutta University.
(*c*) Passed in Bengali by the Higher Standard.
(*d*) Passed in Bengali by the High Proficiency Standard.
(*e*) Passed in Hindustani by the Higher Standard.
(*f*) Passed in Sanskrit by the High Proficiency Standard.

No.	NAME.	Date of first appointment to Government service.	Date of first appointment to the Education Department, whether permanent or temporary.	Date of appointment to the Indian Educational Service or the former graded service.	Substantive appointment and date.
					Other
10	Thomas Smith Sterling, M.A. (Cantab.). (*b*)(*c*)	16-10-1909	16-10-1909	16-10-1909	Professor, Presidency College ...
11	Edward Farley Oaten, M.A., LL.B. (Cantab). (*c*)	20-10-1909	20-10-1909	20-10-1909	Ditto ... ... 20-10-1909.
12	Evan Ebenezer Biss (*b*) (*h*) ...	7-11-1909	7-11-1909	7-11-1909	Principal, Dacca Training College, 7-11-1909.
13	Joseph Andrew Taylor, M.SC. (Birmingham). (*c*)***	7-11-1909	7-11-1909	7-11-1909	Asst. Director of Public Instruction for Muhammadan Education, Bengal, 21-8-1913.
14	Egerton Smith, M.A. (Leeds) ...	26-1-1910	26-1-1910	26-1-1910	Professor (English), Dacca College, 26-1-1910.
15	Charles Joseph Henderson, C.E. (Glasgow).	11-3-1910	11-3-1910	11-3-1910	Head Master, Dacca School of Engineering, 11-3-1910.
16	James William Holme, M.A. (Liverpool).	3-11-1910	3-11-1910	3-11-1910	Professor of English, Presidency College
17	Thomas Taliesin Williams, M.A. (Cantab.), B.SC. (Wales), F.S.S., F.R.S. (*b*).	30-12-1910	30-12-1910	30-12-1910	Professor (Economics), Dacca College, 30-12-1910.
18	Alexander Hamilton Harley, M.A. (Glasgow), M.R.A.S. (*e*)(*g*)(*h*)(*i*).	3-1-1911	3-1-1911	3-1-1911	Principal, Calcutta Madrasah ...
19	Alexander Macdonald, B.SC., M.A. (Glasgow).	27-1-1911	27-1-1911	27-1-1911	Professor, C. E. College, Sibpur, 24-6-1915
20	Robert Niven Gilchrist, F. R. E. S., M.A. (Aberdeen). (*c*).	11-2-1911	11-2-1911	11-2-1911	Principal, Krishnagar College, 6-7-1916.
21	David Burnett Meek, M.A., B.SC. (Glasgow).	11-2-1911	11-2-1911	11-2-1911	Professor (Physics), Dacca College, 12-2-1911.
22	John Mellor Bottomley, B.A. (Oxon.).	12-2-1911	12-2-1911	12-2-1911	Principal, Hooghly College, 13-7-1915 ...
23	William Edward Griffith, M.A. (Oxon.). (*c*).	17-12-1906	17-12-1906	26-2-1911	Principal, David Hare Training College.***

*** Admitted to the Calcutta house-building and house-allowance scheme from 21-8-1913.
(*b*) Fellow of the Calcutta University.
(*e*) Passed in Bengali by the Higher Standard.

TIONAL SERVICE.

Salary.	Officiating appointment and date thereof.	Personal allowance.	REMARKS.
Officers.			
Rs. A. P.			
850 0 0			
850 0 0	.....	.....	On deputation to military duty.
950 0 0	.....	.....	On special duty in the office of the D. P. I., Bengal for six months from 27-3-1917.
850 0 0	.....	.....	Draws duty allowance of Rs. 100 a month.
850 0 0	.....	.....	On deputation to military duty
850 0 0			
800 0 0	.....	.....	For two years.
800 0 0	.....	.....	Also Lecturer in Economics, Calcutta University.
1,000 0 0			
800 0 0			On deputation to military duty.
800 0 0			
800 0 0			
800 0 0			
800 0 0	Inspector of Schools, Burdwan Division, 5-12-1916.		

(e) Passed in Hindustani by the Higher Standard
(g) Passed in proficiency in Hindustani.
(h) Commenced on special rate of pay.
(i) Passed the Degree of Honour in Arabic

No.	NAME.	Date of first appointment to Government service.	Date of first appointment to the Education Department, whether permanent or temporary.	Date of appointment to the Indian Educational Service or the former graded service.	Substantive appointment and date.
					Other
24	John William Gunn, M.A. (Cantab.). (*a*).	11-3-1911	11-3-1911	11-3-1911	Inspector of Schools, Chittagong Division, 19-2-1914.
25	Jehangir Cooverjee Coyajee, B.A. (Cantab.), LL.B. (Bom.).	...	17-3-1911	17-3-1911	Professor of Political Economy, Presidency College, 17-3-1911.
26	Prabhu Datta Shastri, M.A., M.O.L., B.T. (Punjab), Ph. D. (Keil), M.S.G. (Berlin), B.Sc. (Oxon).	14-10-1905	14-10-1905	31-8-1912	Professor of Philosophy, Presidency College.
27	Michael Philip West, B.A. (Oxon). (*a*).	30-11-1912	30-11-1912	30-11-1912	Vice-Principal, Dacca Training College, 8-9-1913.
28	Geoffrey D'O. Maclear, B.A. (Oxon).	1912	16-12-1912	16-12-1912	Inspector of European Schools, Bengal, 19-12-1912.
29	George Harry Langley, M.A. (Lond.).	1913	13-1-1913	13-1-1913	Supernumerary Professor, Dacca College, 29-3-1913.
30	Charles A. King	1914	29-3-1914	29-3-1914	Professor of Mechanical Engineering, C. E. College.
31	Alfred Mercer, M.Sc. (Manchester).	28-10-1914	28-10-1914	28-10-1914	Professor, Master of Method, David Hare Training College.
32	Bhupati Mohan Sen, M.A. ...	9-7-1915	9-7-1915	9-7-1915	Professor, Dacca College ... ...
33	Wilfred Saunders, B.Sc. (London).	20-11-1915	20-11-1915	20-11-1915	Professor of Chemistry, Civil Engineering College.
34	Kuruvila Zachariah, B.A. (Oxon.)	1916	10-1-1916	10-1-1916	Professor, Presidency College ... ...
35	Walter Allen Jenkins, M.Sc. (Sheffield).	1916	2-3-1916	2-3-1916	Professor of Physics, Dacca College.
36*	Walter Francis Papworth ...	1915	2-4-1915	2-4-1915	Asst. Master in the Residential School for Indian Boys, Calcutta.
37	Vacant	...	...	...	Professor of Mathematics, Presidency College.
38		...	...	...	Professor, David Hare Training College.
39		...	...	...	Inspector of Schools, Rajshahi Division.
40		...	...	...	Professor, Dacca College.
41		...	...	...	Professor, Presy. College.
42		...	...	...	Ditto.
	Birendra Chandra Gupta ...	...	...	...	.....
	Banabilas Ray, M.A., B. T. ...	...	...	...	.....
	Rajendra Nath Sen ...	...	...	...	.....

(*a*) Passed in Bengali

* One apptt. sanctioned temporarily for 5 years from

TIONAL SERVICE.

Salary.	Officiating appointment and date thereof.	Personal allowance.	REMARKS.
Officers.			
Rs. A. P.			
800 0 0	Inspector of Schools, Dacca Division, 18-1-1916.	.....	
800 0 0	.....	.....	For two years.
750 0 0	.....	.....	For two years.
700 0 0	Inspector of Schools, Chittagong Division, 10-12-16.	.....	
700 0 0	.....	.....	For two years. On deputation to military duty.
700 0 0	.....	.....	For two years.
850 0 0	.....	.....	For two years.
600 0 0	Inspector of European Schools, Bengal, 28-6-1915.	.....	For two years. Draws conveyance allowance of Rs. 30 a month.
550 0 0	.....	.....	
550 0 0	.....	.....	For two years. On deputation to military duty.
550 0 0	.....	.....	For two years.
550 0 0	.....	.....	For two years.
500 0 0	.....	.....	Temporary for 5 years from 2-4 1915.
.....	.....	.....	Dr. D. N. Mullick, offg.
.....	.....	.....	
.....	.....	.....	Dr. P. Chatarji, offg.
.....	.....	.....	
.....	.....	.....	Bivan Bihari De, offg.
.....	.....	.....	
650 0 0	*Professor of Electrical Engineering, C. E. College.*	.....	*Tempy.*
.....	*Professor, D. H. Training College, 1-3-1913.*	.....	
333 5 4	*Professor of Chemistry C. E. College* ...	...	

by the higher standard.
2nd April 1915—*vide* Secretary of State's despatch No. 158, dated 6th October 1916.

No.	NAME.	Date of first appointment to Government service.	Date of first appointment to the Education Department, whether permanent or temporary.	Date of appointment to the Indian Educational Service or the former graded service.	Substantive appointment and date.
	Officers of the Indian Educational				
1	Percy Brown, A.R.C.A. (*f*) ...	9-5-1899	9-5-1899	9-5-1899	Principal, School of Art, and Keeper of the Art Gallery, 12-1-1909.
2	Miss Lilian Winifred Brock, B.A. (Lond.). (*c*)°	15-1-1904	15-1-1904	15-1-1904	Inspectress of Schools, Presidency and Burdwan Divisions (Calcutta), 15-2-1904.
3	Miss Maria Vaughan Irons, M.A., (T. C. D.)	20-11-1915	20-11-1915	20-11-1915	Inspectress of Girls' Schools, Dacca Circle, 20-11-1915.
4	Miss Anne Louise Janau, B.Sc. Hons. (Lond.)	2-11-1916	2-11-1916	2-11-1916	Principal, Bethune College, 2-11-1916.
	Officers outside the list of				
1	Vacant	...	..	...	Superintendent of Industries and Inspector of Technical and Industrial Institutions in Bengal.
2	Edmund Hoogewerf, A.M.S.T. (Manchester), F.S.S.	3-11-1908	3-11-1908	3-11-1908	Principal, Serampore Weaving Institute
	John Alexander Chapman ...	*1-7-1905*	*1-7-1905*	*1-7-1905*	*Librarian Imperial Library, 18-3-1910*
1	W. A. J. Archbold,°° M.A., LL.B. (*b*).	18-11-1909	18-11-1909	.....	Principal, Dacca College and Law College, 18-11-1909.

maximum pay of Rs. 750 a month.

* Rising from Rs. 400 to Rs. 500 by an annual increment of Rs. 20—*vid*
† The pay of Rs. 400—20—500 settled under her present agreement with Government of India's (Home Department) No. 209, dated 12th April
(*b*) Fellow of the Calcutta University.
(*c*) Passed in Bengali by the Higher Standard.
(*f*) Passed in Urdu by the higher standard.
†† Pay raised by triennial increment of Rs. 50 up to a maximum of
°° Permitted to count his services from 16-1-1910 towards pension—*vide* Secretary of State's despatch No. 157.
††† *Vide* Government of India's order No. 476, dated 18th May 1916, from 5th July 1916.

TIONAL SERVICE.

Salary.	Officiating appointment and date thereof.	Personal allowance.	REMARKS.
Service on special rates of pay.			
Rs. A. P. 1,000 0 0	.....	.....	Draws an allowance of Rs. 150 a month for supervising the exhibition work of the Archæological section of the Indian Museum.
600 0 0?	...	.....	Draws a local allowance of Rs. 100 and conveyance allowance of Rs. 35 a month. Combined leave for one year, viz., privilege leave for 3 months and furlough for the rest from 12-10-1916. Miss Hridayabala Bose, offg.
100—20—500 ††	.....	.....	Conveyance allowance Rs. 35 and house allowance Rs. 100. For two years.
400—20—500 —25—750. †††	.....	.....	On probation for two years. Draws local allowance of Rs. 200 a month and rent-free quarters.
the Indian Educational Service.			
1,000—100—1,500			
500—50—750			
400—20—500	.....	.....	*Services placed under the Government of India, Education Department, from 25-1-1911.*
1,250—50—1,500	.....	.....	

Government of India's (Home Department) No. 156, dated 29th February 1904.
stand till maximum is attained, and thereafter triennial increments of Rs. 50 will be admissible subject to a
1906.

Rs. 750—*vide* Government Order No. 3319, dated 31st August 1914.
dated the 18th November 1910.

No.	Name.	Date of first appointment to Government service.	Date of first appointment to the Education Department, whether permanent or temporary.	Date of appointment to the Provincial Educational Service.	Date of appointment to the present class.
	Class I—				
1	Praphulla Chandra Ray, D.Sc. (Edin.), C.I.E. (*b*) ...	1889	24-6-1889	1-8-1896	1-2-1905
2	Jogendra Nath Das Gupta, B.A. (Oxon.), (Bar.-at-Law). (*b*).	1890	1-2-1890	1-8-1896	10-9-1905
3	Debendra Nath Mallik, B.A. (Cantab.), D.Sc. (Dub.), F.R.S.E. (*b*)	1893	12-7-1893	1-8-1896	5-11-1912
4	Rai Bahadur Dr. Purnananda Chatarji, B.A. (Calcutta), D.Sc. (Edin.).	1894	9-11-1894	9-11-1894	17-8-1910
5	Rai Bhupati Nath Das Bahadur, M.A. (Cal.), B.Sc. (Lond.)	1897	3-4-1897	3-4-1897	1-4-1915
	Class II—				
1	Manomohan Ghose, B.A. (Oxon.) ...	1895	16-11-1896	16-11-1896	10-9-1905
2	Muhammad Ibrahim Khan Bahadur, B.A. (Cal.) ...	1885	18-7-1885	1-8-1896	1-11-1908
3	Herbert Alick Stark, B.A. (Cal.), M.R.A.S. ...	1895	1-7-1895	1-8-1896	1-4-1910
4	Jyoti Bhushan Bhaduri, M.A. (Cal.), F.C.S. (London).	1897	28-6-1897	28-6-1897	1-7-1911
5	Rai Bahadur Kumudini Kanta Banarji, M.A. (Cal.) (*b*)	1887	4-7-1887	1-8-1896	27-9-1908
6	Rai Sahib Pramada Kumar Basu, M.A. (Cal.) ...	1905	1-5-1905	27-9-1908	1-4-1912
7	Paul William Byers, I.C.E.	1894	23-3-1894	1-8-1896	5-11-1912
8	Subodh Chandra Mahalanabis, B.Sc. (Edin.), F.R.S.E. (*b*).	1900	17-9-1900	17-9-1900	6-11-1914

(b) Fellow of the Calcutta
Admitted to the

TIONAL SERVICE.

Substantive appointment and date thereof.	Officiating appointment and date thereof.	Acting allowance.	REMARKS.
—Rs. 700 (5).			
Professor, Presidency College, 15-6-1889 ...	.....	Rs.	Services placed at the disposal of the Calcutta University from 2-11-1916. Draws spl. P. A. of Rs. 150 a month.
Professor, Presidency College, 3-10-1902 ...	.....	100	Draws spl. P. A. of Rs. 150 a month. Offg. in the Indian Educational Service in place of Mr. Oten in military duty.
Professor, Presidency College, 2-7-1908 ...	.....	.....	Offg. in the Indian Educational Service. Draws spl. P. A. of Rs. 150 a month. Hem Ch. Sen Gupta, offg.
Professor, Presidency College ...	Inspector of Schools, Rajshahi Division.	.....	Offg. in the Indian Educational Service. Draws spl. P. A. of Rs. 150 a month.
Professor, Dacca College, 19-6-1913 ...	.. ...	100	Also Secretary to the Provincial Advisory Committee for Indian Students, Dacca. Gets duty allce. of Rs. 100 a month. Offg. in the I. E. S. from 5th July 1916, *vice* Mr. Watson on leave.
—Rs. 600 (8).			
Professor, Presidency College, 21-10-1903.			
Addl. Inspr. of Schools, Presidency Divn.			
Addl. Inspr. of Schools, Presidency Divn.	Principal, Dacca Training College, 7-11-19 16.	100	Offg. in the Indian Educational Service in place of Mr. Biss on deputation.
Professor, Presy. College, 19-4-1909.			
Principal, Rajshahi College, 1-10-1898 ...	.....	.....	House allce. Rs. 60.
2nd Inspr. of Schools, Dacca Divn., 30-11-1911.	.....	.....	Combined leave for 6 months, viz., privilege leave for 3 months and furlough for the rest from 2-1-1917.
Teacher in the Apprentice Dept., Civil Engineering College, Sibpur, 23-3-1894.	.....	.....	Has extension of service up to 6-8-1916 + 1 year.
Professor, Presidency College	.....	.....	Draws personal allowance of Rs. 150 a month. Also Dean of the Presidency College on an allowance of Rs. 100 per mensem from 16-8-1916.

University.
Calcutta house allowance scheme from 1st November 1906.

No.	NAME.	Date of first appointment to Government service.	Date of first appointment to the Education Department, whether permanent or temporary.	Date of appointment to the Provincial Educational Service.	Date of appointment to the present class.
	Class III				
1	Alfred Aston Barnes, M.A. (Dublin)	1897	1-4-1897	3-6-1901	1-7-1911
2	Joseph Valentine Francies,* F.C.S.	1897	20-3-1905	20-3-1905	1-4-1912
3	Babu Rakhal Das Ghosh, M.A. (Cal.)	1903	22-6-1903	22-6-1903	1-4-1912
4	Babu Raj Mohan Sen, M.A. (Cal.)	1882	12-8-1882	1-8-1896	7-7-1914
5	Babu Paresh Nath Sen, B.A. (Cal.)	1882	26-6-1882	1-8-1896	1-11-1915
6	Babu Phani Bhushan Basu, M.A. (Cal.)	1885	1-6-1885	21-10-1903	2-12-1915
7	Babu Satish Chandra De, M.A., B.L. (Cal.) ...	1892	7-7-1892	1-8-1896	17-1-1916
8	Khan Bahadur Ahsanullah, M.A. (Cal.), M.R.S.A. (Lond.).	1896	1-8-1896	29-[illegible]-1904	16-4-1916
9	Babu Muralidhar Banarji, M.A. (Cal.)	1891	21-11-1891	1-8-1896	13-11-1916
10	Shams-ul-Ulama Mufti Muhammad Abdulla Tonki ...	1917	27-1-1917	27-1-1917	27-1-1917
	Class IV—Rs. 400				
1	Babu Bidhu Bhushan Goswami, M.A. (Cal.) (b)	1888	20-6-1888	1-8-1896	1-12-1912
2	Babu Rakhal Raj Biswas, M.A. (Cal.)	1894	18-[illegible]-1894	1-8-1896	16-7-1913

* Permitted to count his services from March 1897 in the P. W. D., U. P.
(a) Sanctioned in G. O. No. 1662, dated 8th April 1914.
(b) Fellow of the Calcutta University.
(c) Addl. Professor of Political Economy and Political Philosophy.

TIONAL SERVICE.

Substantive appointment and date thereof.	Officiating appointment and date thereof.	Acting allowance.	REMARKS.
—Rs. 500 (9)+1(*c*) 10.			
		Rs.	
Head Master, Victoria School, Kurseong, 1-3-1901.	.....	.....	Draws local allowance of Rs. 150 a month.
Superintendent, Apprentice Department and Assistant Professor of Drawing, Civil Engineering College, 20-3-1905.	.....	.....	On military duty. (Mr. D. R. G. Turnbull appointed sub. *pro tem.*) 2-3-1917.
Professor (English), Dacca College, as a Supernumerary Officer, 2-4-1912.			
Professor (Mathematics), Rajshahi College, 4-7-1883.	.....	.....	Has extension of service for four years from 16-6-1914.
Professor, Bethune College, 1-9-1886 ...	.....	.....	Has extension of service for five years from 16-7-1913.
Addl. Inspr. of Schools, Burdwan Divn.	Additional Inspector of Schools, Presidency Division.	.....	Has extension of service for one year + 1 from 16-7-1916
Professor, Presidency College, 4-7-1916 ...	Professor of English, Dacca College, 8-11-1916.	100	Offg. in the I. E. S., *vice* Mr. Smith on deputation to military duty.
Addl. Inspector of Schools, Presy. Division.			
Professor, Sanskrit College.			
Head Maulvi, Calcutta Madrasah	.....	.....	Sub. *pro tem.* On probation for one year.
—[12+1 (*a*)=13].			
Professor (Sanskrit), Dacca College, 8-12-1906.			
Professor, Krishnagar College, 2-7-1901.			

towards pension—*vide* G. O. No. 1481, dated 3rd September 1906.

‡Admitted to the Calcutta house-building and house-allowance scheme from 1-11-1906.
Presidency College, from 1-11-15—*vide* G. O. No. 3108, dated the 2nd August 1915.

No.	NAME.	Date of first appointment to Government service.	Date of first appointment to the Education Department, whether permanent or temporary.	Date of appointment to the Provincial Educational Service.	Date of appointment to the present class.
					Class IV—Rs. 400
3	Babu Hriday Chandra Banarji, M.A., B.L. (Cal.) ...	1887	1-7-1887	1-8-1896	13-4-1913
4	Babu Nalini Mohan Sanyal, M.A. (Cal.) ...	1886	14-6-1886	13-12-1902	1-8-1913
5	Dr. Aditya Nath Mukharji, M.A., Ph.D. (Cal.) ...	1901	21-8-1901	21-8-1901	7-7-1914
6	Mrs. Kumudini Das, B.A. (Cal.)	1902	1-3-1902	1-3-1902	18-8-1914
7	Babu Chuni Lal Sarkar, B.E. (Cal.)	1895	5-11-1895	1-3-1897	6-11-1914
8	Babu Bijay Gopal Mukharji, M.A. (Cal.) ...	1897	28-6-1897	28-6-1897	1-11-1915
9	Babu Sarada Prasanna Das, M.A. (Cal.) ...	1898	15-7-1898	15-7-1898	2-12-1915
10	Babu Krishna Chandra Bhattacharji, M.A. (Cal.). (P. R. student).	1898	3-9-1898	3-9-1898	17-1-1916
11	Babu Satyendra Nath Bhadra, M.A. (Cal.) ...	1898	26-7-1898	1-10-1898	28-3-1916
12	Babu Purna Chandra Kundu, M.A. (Cal.) ...	1899	14-7-1899	1-1-1901	16-4-1916
13	Mahamahopadhyaya Satish Chandra Acharji, Vidyabhushan, M.A., Ph.D., M.R.A.S., F.A.S.B. (Cal.). (*b*) (*c*).	1894	6-1-1894	23-3-1902	13-11-1916
					Class V—Rs. 350
1	Babu Harish Chandra Datta, M.A. (Cal.) ...	1890	17-2-1890	1-8-1896	1-12-1912
2	Babu Hem Chandra Sarkar, M.A. (Allahabad) ...	1898	16-7-1898	1-3-1901	16-2-1913
3	Shams-ul-Ulama Abu Nasr Muhammad Wahid, M.A. (Cal.). (*b*).	1896	1-3-1896	1-6-1901	1-7-1913
4	Babu Aswini Kumar Mukharji, M.A. (Cal.) ...	1901	1-7-1901	10-12-1901	1-8-1913

(*a*) Sanctioned in G. O.
(*b*) Fellow of the Calcutta
(*c*) Passed first and second examination

TIONAL SERVICE.

Substantive appointment and date thereof.	Officiating appointment and date thereof.	Acting allowance.	REMARKS.
—[12+1 (*a*)=13].			
Demonstrator in Physics, Presy. College.	.....	Rs. 100	Offg. in the I. E. S. from 26-1-1916.
Asst. Inspector of Schools, Burdwan Division, 25-10-1905.	Assistant Inspector of School, Rajshahi Division.		
Professor, Presidency College.			
Asst. Inspectress of Schools, Dacca ...	.....	.....	On combined leave for 9 months, viz., privilege leave for 1 month and 20 days and the rest on medical leave from 1-4-1916 (Miss Charu Shila Ray, offg.).
Teacher of Surveying, Civil Engineering College, Sibpur, 1-3-1897.			
Professor, Bethune College, 10-4-1905.			
Professor, Presidency College, 10-7-1915.			
Professor (Philosophy and Logic), Bethune College, 30-9-1914.			
Professor (English), Dacca College, 29-6-1908.	.....	100	Offg. in the I. E. S. from 7-7-1915, *vice* Mr. Stapleton on deputation (Babu Hiran Kumar Banerji offg. in the P. E. S.).
Professor (Physics), Chittagong College, 8-11-1910.			
Principal, Sanskrit College, 1-12-1910 ...	.....	.....	Draws an allowance of Rs. 100 a month as University Lecturer in Pali.
—[15+1 (*a*)=16].			
Assistant Inspr. of Schools, Presidency Divn., 16-4-1908.			
Professor, Krishnagar College, 7-7-1913.	Assistant Inspector of Schools, Burdwan Division, 15-2-17.		
Principal, Dacca Madrasah, 23-9-1905 ...	.....	.....	Gets house allowance of Rs. 35 a month.
Professor (History), Dacca College, 10-12-1901.	.....	100	Offg. in the I. E. S., *vice* Mr. Ramsbotham on military duty (Babu Jiban Ch. Talukdar, offg., 20-9-1916).

No. 1662, dated 8th April 1914.
University.
in the Tibetan language

No.	NAME.	Date of first appointment to Government service.	Date of first appointment to the Education Department, whether permanent or temporary.	Date of appointment to the Provincial Educational Service.	Date of appointment to the present class.
	Class V—Rs. 350				
5	Babu Kiran Chandra Mitra, M.A. (Cal.) ...	1898	28-3-1898	1-10-1902	1-8-1913
6	Babu Bama Charan Bhattacharji, M.A. (Cal.) ...	1896	3-7-1896	21-12-1901	27-5-1914
7	Babu Hem Chandra De, M.A. (Cal.) ...	1901	26-12-1901	1-10-1902	7-7-1914
8	Babu Panchanan Neogi, M.A. (Cal.), F.C.S. (Lond.), (P. R. Student). ...	1907	11-11-1907	30-1-1908	18-8-1914
9	Babu Harendra Narayan Chakrabatti, B.A. (Cal.) ...	1883	10-12-1883	1-11-1907	6-11-1914
10	Babu Jatindra Chandra Guha, M.A. (Cal.) ...	1902	30-6-1902	30-6-1902	1-11-1915
11	Babu Khagendra Nath Mitra, M.A.	1902	8-9-1902	1-7-1903	2-12-1915
	Dr. Shyama Das Mukharji, M.A., PH.D. (*Cal.*) ...	*1903*	*21-9-1903*	*21-9-1903*	*7-12-1916*
12	Babu Rakhal Das Chakrabatti, M.A. (Cal.) ...	1886	29-4-1886	19-5-1905	7-12-1915
13	Babu Hari Das Saha, M.A. (Cal.)	1899	1-12-1899	26-7-1904	17-1-1916
14	Rai Sahib Debendra Kumar Ray, M.A. (Cal.) ...	1894	5-2-1894	24-1-1905	28-3-1916
15	Shams-ul-Ulama Kamaluddin Ahmad, M.A. (Cal.), M.R.A.S. (Lond.). (*b*). ...	1905	1-8-1905	10-9-1905	16-4-1916
	Babu Bipin Bihari Sen, M.A., B.L. (*Cal.*) ...	*1903*	*26-7-1904*	*26-7-1904*	*13-11-1916*
16	Babu Ramendra Nath Ghosh, M.A. (Cal.) ...	1903	12-12-1904	12-12-1904	13-11-1916
	Class VI—Rs. 300				
1	Shams-ul-'Ulama Safi-'Ullah	1904	27-11-1905	27-11-1905	5-11-1912
2	Babu Purna Chandra Bhattacharji, M.A. (Cal.) ...	1901	29-6-1901	1-11-1905	1-12-1912
3	Babu Santosh Kumar Chatarji, M.A. (Cal.) ...	1904	15-4-1904	29-5-1906	1-12-1912
4	Mr. Jiban Mohan Basu, M.A., B.Sc. (Edin.), (Bar.-at-Law).	1910	23-7-1910	23-7-1910	16-2-1913

(*a*) Sanctioned in G. O.
(*b*) Fellow of the Calcutta

TIONAL SERVICE.

Substantive appointment and date thereof.	Officiating appointment and date thereof.	Acting allowance.	REMARKS.
—[15+1 (*a*)=16].			
Professor, Krishnagar College, 1-7-1912.		Rs.	
Professor (Physics), Rajshahi College, 3-11-1910.			
Professor, Rajshahi College.			
Professor (Chemistry), Rajshahi College, 11-11-1907.			
2nd Inspector of Schools, Dacca Division, 20-1-1914.			
Professor (English), Rajshahi College, 2-1-1908.			
Professor, Presidency College.			
Assistant Inspector of Schools, Dacca Division.	.....	.....	*Services lent to the Calcutta University for 2 years. Lien suspended.*
Asst. Inspr. of Schools, Presy. Division, 6-6-1908.	.....	.....	Drawa conveyance allowance of Rs. 10 a month.
Professor (Chemistry), Dacca College, 31-10-1905.			
Supdt., Dacca Normal School, 27-6-1906.			
Principal, Chittagong Madrasah, 1-8-1905.	.....	.....	Combined leave for 2 years from 14th August 1916, viz., p. l. for 3 months and leave without pay for the rest.
Professor, Hooghly College, 16-12-1903 ...	.....	.....	*Services lent to the Calcutta University for 5 years.*
Professor, Krishnagar College, 8-7-1910.			
—[21+1 (*a*)=22].			
Additional Maulvi, Arabic Dept., Calcutta Madrasah.			
Professor, Hooghly College, 7-11-1905.			
Professor (History), Rajshahi College, 11-11-1907.			
Professor (Mathematics), Chittagong College, 23-7-1910.			

No. 1662, dated 8th April 1914.
University.

No.	NAME.	Date of first appointment to Government service.	Date of first appointment to the Education Department, whether permanent or temporary.	Date of appointment to the Provincial Educational Service.	Date of appointment to the present class.
					Class VI—Rs. 300
5	Babu Hari Narayan Bose	1891	23-1-1891	21-4-1906	13-4-1913
6	Babu Gopi Bhusan Sen, B.A. (Cal.)	1888	18-7-1888	9-8-1906	1-7-1913
7	Maulvi Matloob Ahmad Khan Chaudhuri, M.A. (Calcutta).	1894	26-11-1894	1-11-1907	1-8-1913
8	Miss Hridaybala Basu, M.A. (Cal.)	1906	30-5-1906	30-5-1906	1-8-1913
9	Mr. Bawa Kartar Singh, M.A. (Cantab.), F.C.S. (Lond.)	1911	19-7-1911	19-7-1911	27-5-1914
10	Dr. M. Musharraful Hukk, PH.D. (Halle) ...	1911	17-9-1911	17-9-1911	7-7-1914
11	Babu Pramatha Nath Chatarji, M.A. (Cal.) ...	1891	7-2-1891	16-10-1911	18-8-1914
12	Babu Abinash Chandra Mazumdar, M.A. (Cal.), B.L. ...	1908	1-11-1908	1-11-1908	6-11-1914
13	Maulvi Muhammad Irfan, M.A. (Cal.)	1900	14-6-1900	17-9-1905	1-11-1915
14	Babu Narendra Nath Chakrabatti, M.A. (Cal.) ...	1903	17-11-1903	29-6-1909	2-12-1915
15	Babu Chinta Haran Chakrabatti (I), B.A. (Cal.) ...	1890	10-10-1890	1-9-1907	7-12-1915
16	Maulvi Kabir-ud-din Ahmad, B.A. (Cal.)	1891	7-5-1891	4-11-1907	17-1-1916
17	Babu Srish Chandra Chakrabatti, B.A. (Cal.) ...	1896	4-7-1896	1-7-1908	28-3-1916
18	Babu Surendra Nath Ghosh, M.A. (Cal.) ...	1901	9-3-1901	27-9-1908	16-4-1916
19	Babu Naresh Chandra Ghosh, M.A. (Cal.) ...	1908	1-7-1908	29-9-1908	13-11-1916
20	Babu Gopal Chandra Sarkar, B.A. (Cal.) ...	1883	11-5-1883	21-9-1908	15-1-1917
21	Babu Manmatha Nath Rudra, M.A. (Cal.)	1890	15-9-1904	30-9-1907	13-11-1916
22	Miss Indumukhi Nath	1907	31-8-1907	31-8-1907	16-12-1916

TIONAL SERVICE.

Substantive appointment and date thereof.	Officiating appointment and date thereof.	Acting allowance.	REMARKS.
—[21+1=22].			
Head Master, Govt. School of Art, 15-8-1905.		Rs.	
Professor, Hooghly College, 8-11-1916.			
Head Master, Hooghly Collegiate School, 10-4-1913.	Assistant Inspector of Schools, Burdwan Division.		
Special Asst. Inspectress of Schools, Calcutta	Inspectress of Schools, Presidency and Burdwan Divisions, 20-9-1916.	100	Offg. in the I. E.
Professor (Chemistry), Dacca College, 19-7-1911.			
Professor (Arabic and Persian), Dacca College, 9-11-1908.			
Addl. Inspr. of Schools, Burdwan Divn.			
Professor (Philosophy), Dacca College, 1-11-1908.			
Professor (Arabic and Persian), Dacca College, 9-11-1908.			
Professor, Sanskrit College, 13-12-1913.			
Head Master, Rajshahi Collegiate School, 2-3-1913.			
2nd Inspector of Schools, Chittagong Division, 21-1-1914.	Additional Inspector of Schools, Burdwan Division, 22-9-1915.		
Professor (Sanskrit), Rajshahi College, 1-7-1908.			
Professor (Physics), Dacca College, 27-9-1908.	.....	100	
Professor (Math.), Dacca College, 27-9-1908			
Assistant Inspector of Schools, Rajshahi Division, Jalpaiguri, 4-7-1910.	2nd Inspector of Schools, Dacca Division.	.....	Has extension of service for 1 year + 1 year from 16-8-1915.
Librarian, Bengal Library	.....	.....	Sub. *pro tem.*
Asst. Inspectress of Schools, Burdwan Division.	.....	.....	Sub. *pro tem.*

No.	NAME.	Date of first appointment to Government service.	Date of first appointment to the Education Department, whether permanent or temporary.	Date of appointment to the Provincial Educational Service.	Date of appointment to the present class.
					Class VI—Rs. 300
5	Babu Hari Narayan Bose	1891	23-1-1891	21-4-1906	13-4-1913
6	Babu Gopi Bhusan Sen, B.A. (Cal.)	1888	18-7-1888	9-8-1906	1-7-1913
7	Maulvi Matloob Ahmad Khan Chaudhuri, M.A. (Calcutta).	1894	26-11-1894	1-11-1907	1-8-1913
8	Miss Hridaybala Basu, M.A. (Cal.)	1906	30-5-1906	30-5-1906	1-8-1913
9	Mr. Bawa Kartar Singh, M.A. (Cantab.), F.C.S. (Lond.)	1911	19-7-1911	19-7-1911	27-5-1914
10	Dr. M. Musharraful Hukk, PH.D. (Halle) ...	1911	17-9-1911	17-9-1911	7-7-1914
11	Babu Pramatha Nath Chatarji, M.A. (Cal.) ...	1891	7-2-1891	16-10-1911	18-8-1914
12	Babu Abinash Chandra Mazumdar, M.A. (Cal.), B.L. ...	1908	1-11-1908	1-11-1908	6-11-1914
13	Maulvi Muhammad Irfan, M.A. (Cal.)	1900	14-6-1900	17-9-1905	1-11-1915
14	Babu Narendra Nath Chakrabatti, M.A. (Cal.) ...	1903	17-11-1903	29-6-1909	2-12-1915
15	Babu Chinta Haran Chakrabatti (I), B.A. (Cal.) ...	1890	10-10-1890	1-9-1907	7-12-1915
16	Maulvi Kabir-ud-din Ahmad, B.A. (Cal.)	1891	7-5-1891	4-11-1907	17-1-1916
17	Babu Srish Chandra Chakrabatti, B.A. (Cal.) ...	1896	4-7-1896	1-7-1908	28-3-1916
18	Babu Surendra Nath Ghosh, M.A. (Cal.) ...	1901	9-3-1901	27-9-1908	16-4-1916
19	Babu Naresh Chandra Ghosh, M.A. (Cal.) ...	1908	1-7-1908	29-9-1908	13-11-1916
20	Babu Gopal Chandra Sarkar, B.A. (Cal.) ...	1883	11-5-1883	21-9-1908	16-1-1917
21	Babu Manmatha Nath Rudra, M.A. (Cal.)	1890	15-9-1904	30-9-1907	13-11-1916
22	Miss Indumukhi Nath	1907	31-8-1907	31-8-1907	16-12-1916

TIONAL SERVICE.

Substantive appointment and date thereof.	Officiating appointment and date thereof.	Acting allowance.	REMARKS.
—[21+1=22].			
Head Master, Govt. School of Art, 15-8-1905.		Rs.	
Professor, Hooghly College, 8-11-1916.			
Head Master, Hooghly Collegiate School, 10-4-1913.	Assistant Inspector of Schools, Burdwan Division.		
Special Asst. Inspectress of Schools, Calcutta	Inspectress of Schools, Presidency and Burdwan Divisions, 30-9-1916.	100	Offg. in the I. E.
Professor (Chemistry), Dacca College, 19-7-1911.			
Professor (Arabic and Persian), Dacca College, 9-11-1908.			
Addl. Inspr. of Schools, Burdwan Divn.			
Professor (Philosophy), Dacca College, 1-11-1908.			
Professor (Arabic and Persian), Dacca College, 9-11-1908.			
Professor, Sanskrit College, 13-12-1913.			
Head Master, Rajshahi Collegiate School, 2-3-1913.			
2nd Inspector of Schools, Chittagong Division, 21-1-1914.	Additional Inspector of Schools, Burdwan Division, 22-9-1915.		
Professor (Sanskrit), Rajshahi College, 1-7-1908.			
Professor (Physics), Dacca College, 27-9-1908.	.....	100	
Professor (Math.), Dacca College, 27-9-1908			
Assistant Inspector of Schools, Rajshahi Division, Jalpaiguri, 4-7-1910.	2nd Inspector of Schools, Dacca Division.	.....	Rs. extension of service for 1 year + 1 year from 16-8-1915.
Librarian, Bengal Library	.....	.....	Sub. *pro tem.*
Asst. Inspectress of Schools, Burdwan Division.	.....	.....	Sub. *pro tem.*

No.	NAME.	Date of first appointment to Government service.	Date of first appointment to the Education Department, whether permanent or temporary.	Date of appointment to the Provincial Educational Service.	Date of appointment to the present class.
	Class VII—Rs. 250				
1	Maulvi Muhammad Sulaiman, B.A. (Cal.) ...	1894	6-1-1894	26-9-1907	1-4-1912
2	Babu Padmini Bhusan Rudra, M.A. (Cal.) ...	1908	20-7-1908	27-5-1909	1-4-1912
	Maulvi Ghulam Yazdani, M.A. (*Punjab*), M.R.A.S. (*Lond.*).	*1909*	*24-6-1909*	*24-6-1909*	*1-4-1912*
3	Babu Nripendra Chandra Banarji, M.A.	1907	10-4-1907	29-6-1909	1-4-1912
	Frederic James Cuerden, F.S.I.	*1905*	*14-12-1907*	*14-12-1907*	*5-5-1912*
4	Dr. Nagendra Mohan Gupta, PH.D. (Vienna) ...	1912	4-7-1912	4-7-1912	4-7-1912
5	Babu Praphulla Chandra Ghosh, M.A. (Cal.) ...	1907	21-8-1908	21-8-1908	10-8-1912
6	Babu Aghor Nath Banarji, M.A., B.L. (Cal.) ...	1896	1-1-1896	5-3-1908	15-10-1912
7	Maulvi Alfaz-ud-din Ahmad, M.A. (Cal.) ...	1896	.....	14-3-1908	5-11-1912
8	Babu Beni Madhab Das, M.A. (Cal.)	1892	2-1-1892	1-5-1908	1-12-1912
9	Babu Ashutosh Shastri, M.A. (Cal.)	1895	1-5-1895	1-11-1908	1-12-1912
10	Babu Hem Chandra Das Gupta, M.A. (Cal.), F.G.S. (Lond.)	1903	24-6-1903	2-12-1908	16-2-1913
11	Babu Hari Lal Chaudhuri, M.A. (Cal.)	1903	16-10-1903	16-10-1903	13-4-1913
12	Maulvi Bahar-ud-din Ahmad, M.R.A.S.L. (London), F.R. MET. SOC. (Lond.).	1905	5-7-1909	5-7-1909	1-7-1913
13	Rai Sahib Bidhu Bhusan Mazumdar, B.A. (Cal.) ...	1893	1-3-1893	10-8-1909	1-8-1913
14	Babu Ashutosh Maitra, M.A. (Cal.)	1909	22-11-1909	22-11-1909	1-8-191[illegible]
15	Maulvi Muhammad Musa, B.A. (Cal.)	1909	4-4-1909	2-11-1910	1-8-1913

(*a*) Additional Professor of Philosophy in the Presidency College from
(*b*) Sanctioned the post of 2nd Mistress

TIONAL SERVICE.

Substantive appointment and date thereof.	Officiating appointment and date thereof.	Acting allowance.	REMARKS.
—[31+1 (*a*)+1 (*b*)=33].			
Assistant Inspector of Schools, Rajshahi Division, 4-7-1910.			
Professor (English), Dacca College, 27-5-1909.			
Professor (Arabic and Persian), Rajshahi College, 24-6-1905.	...	.....	Services transferred to the Nizam's Government. Maulvi Abdul Hakim, M. A., offg. from 11-8-1915.
Professor (English), Rajshahi College, 29-6-1909.	Professor, Presidency College, 6-1-1917		
Instructor of Surveying for the Mining classes attached to the C. E. College, 15-12-1907.	.....	.....	*Services placed at the disposal of the Central Provinces Administration (Mr. C. V. Newman, offg., from 14-5-1915.)*
Supdt., Rangpur Normal School, 26-6-1917.			
Profr., Presy. College, 21-8-1908.			
Asst. Inspr. of Schools, Burdwan Divn., 17-8-1908.	.....	.....	Combined leave for 6 months, viz., privilege leave for 7 days and medical leave for the rest from 15-2-1917. Maulvi Matloob Ahmad Khan Chaudhury, offg.
Assistant Inspector of Schools, Presy. Divn., 29-9-1913.	Assistant Inspector of Schools, Dacca (Barisal).	.....	Babu Kasi Bhusan Sen, offg.
Head Master, Sanskrit Collegiate School, 14-12-1914.			
Professor, Presy. College, Calcutta, 1-12-1910.			
Demonstrator in Geology, Presidency College.			
Professor, Hooghly College, 31-8-1912.			
Librarian, Dacca College 5-7-1909.			
Inspector of Residence of Students in the town of Dacca, 27-6-1911.	.....	.....	Draws conveyance. Rs. 30.
Professor, Rajshahi College, 22-11-1909.			
Supdt., Hooghly Madrasah, 2-11-1910.			

1st July 1913, *vide* Government order No. 8, dated the 2nd January 1915
Eden High School for Girls, Dacca—*vide* Government order No. 453 T.G., dated the 31st August 1916.

No.	NAME.	Date of first appointment to Government service.	Date of first appointment to the Education Department, whether permanent or temporary.	Date of appointment to the Provincial Educational Service.	Date of appointment to the present class.
					Class VII—Rs. 250
	Babu Jogeswar Ghosh, M.A. (*Cal.*), PH.D.... ...	*1907*	*19-8-1907*	*1-4-1910*	*18-8-1914*
16	Mr. Surendra Nath Maitra, M.A. (Cal.), B.A. (Cantab), A.R.C.S. (Lon.).	1907	.....	1-4-1910	16-4-1916
17	Babu Bidhubhusan Datta, M.A. (Cal.)	1905	3-1-1905	1-4-1910	6-11-1914
18	Babu Nibaran Chandra Bhattacharji, M.A. (Cal.) ...	1904	8-2-1904	1-4-1910	1-11-1915
19	Babu Bhagabat Kumar Goswami Shastri, M.A. (Cal.)...	1910	2-4-1910	2-4-1910	2-12-1915
20	Khan Sahib Maulvi Abdul Aziz, B.A. (Cal.) (No. I) ...	1888	21-12-1888	10-5-1910	7-12-1915
21	Babu Kshitish Chandra Ray, M.A. (Cal.)... ...	1910	5-7-1910	5-7-1910	17-1-1916
22	Babu Binay Kumar Sen, M.A. (Cal.)	1908	6-7-1908	25-7-1910	13-11-1916
23	Babu Abhay Charan Das, M.A. (Cal.)	1886	17-6-1886	27-11-1914	27-11-1914
24	Babu Raj Kumar Das, M.A. (Cal.)	1889	9-9-1889	6-12-1914	6-12-1914
25	Mrs. Saralabala Mitra, B.A. (Cal.) (*a*)	1901	26-8-1901	26-3-1915	1-11-1915
26	Maulvi Fida Ali Khan, M.A. (Cal.)	1910	6-9-1910	6-9-1910	7-12-1915
27	Babu Nilmani Chakrabatti, M.A (Cal.)	1908	25-11-1908	1-12-1910	17-1-1916
28	Babu Bhabesh Chandra Banarji, M.A. (Cal.) ...	1907	26-8-1907	1-4-1911	16-4-1916
29	Miss R. B. Verulkor, L.L.A. ... ... (St. Andrews) (*b*).	1897	15-6-1897	31-8-1916	31-8-1916
30	Babu Chinta Haran Chakrabatti (II), M.A., B.T. ...	1903	13-2-1903	8-4-1911	13-11-1916
31	Babu Kalipada Sarkar, M.A. (Cal.)	1896	24-6-1916	16-1-1917	16-1-1917
32 33	} Vacant.				

(*a*) Holds a Cambridge Teachership Certificate.
(*b*) Passed the Vernacular Examination.

TIONAL SERVICE.

Substantive appointment and date thereof.	Officiating appointment and date thereof.	Acting allowance.	REMARKS.
—[31+1+1=33].			
		Rs.	
Professor, Chittagong College	.....		*Services lent temply. for 1 year to the A. M. College, Mymensingh.* Lien suspended from 11-12-1913.
Demonstrator of Physics, Presidency College	Professor, C. E. College, Sibpur ...	100	Offg. in the I. E. S., vice Mr. Sanders on military duty.
Demonstrator of Chemistry, Presidency College, 2-11-1916.			
Professor of Physiology, Presidency College	.....	.....	Draws allnce. of Rs. 125 a month as Supdt. of the Eden Hindu Hostel.
Professor of Sanskrit, Hooghly College, 2-4-1910.			
Assistant Inspector of Schools, Chittagong Division, 10-5-1910.			
rofessor (Chemistry), Chittagong College, 5-7-1910.			
Professor (History), Chittagong College, 25-7-1910.	Professor (History) Presidency College, 2-11-16. Sub. *pro tem.*	.....	
Head Master, Dacca Collegiate School, 27-11-1914.			
Head Master, Krishnagar Collegiate School, 6-12-1914.			
Additional Assistant Inspectress of Schools, Dacca.	.....	.....	Sub. *pro tem.* Will continue as Lady Principal, Government Training School for Female Teachers, Calcutta.
Professor (Arabic and Persian), Hooghly College, 16-9-1914.	.....	.....	Sub. *pro tem.*
Professor of Sanskrit and Pali, Presidency College.	.....	.....	Ditto.
Professor of Sanskrit, Krishnagar College, 1-4-1911.	.....	.....	Ditto.
2nd Mistress, Eden High School for Girls, Dacca, 31-5-1909.	Principal, Eden High School for Girls, Dacca.	.....	Draws Rs. 40 a month as Superintendent of the Hostel.
Professor David Hare Training College ...	Principal, David Hare Training College, 5-12-16.	100	Offg. in the I. E. S. Draws conveyance allowance of Rs. 20 a month. Sub. *pro tem.*
Assistant Inspector of Schools, Chittagong Division.	.....	.....	On probation.

No.	NAME.	Date of first appointment to Government service.	Date of first appointment to the Education Department, whether permanent or temporary.	Date of appointment to the Provincial Educational Service.	Date of appointment to the present class.
	Class VIII.—Rs. 200—[38+1 (*b*)+1 (*c*)+1 (*d*)+1 (*e*)+1 (*f*)+1 (*g*)+1 (*h*)+1 (*i*)				
1	Mahamahopadhyaya Pramatha Nath Tarkabhusan ...	1897	5-11-1897	14-5-1911	14-5-1911
2	Maulvi Muhammad Yusuf, M.A. (Cal.)	1911	30-6-1911	30-6-1911	30-6-1911
3	Babu Monoranjan Mitra, B.A., B.T. (Cal.) ...	1908	3-8-1908	4-7-1911	4-7-1911
	Babu Sachindra Chandra Das Gupta, M.A. (Cal.) ...	*1911*	*5-7-1911*	*5-7-1911*	*5-7-1911*
4	Babu Hem Chandra Sen Gupta, M.A. (Cal.) ...	1911	7-7-1911	7-7-1911	7-7-1911
5	Babu Surendra Nath Das Gupta, M.A. (Cal.) ...	1911	19-9-1911	19-9-1911	19-9-1911
6	Babu Sarat Chandra Brahmachari, M.A., B.T. (Cal.) ...	1899	7-9-1899	31-12-1911	31-12-1911
7	Babu Rai Charan Biswas, M.A. (Cal.)	1912	9-4-1912	9-4-1912	9-4-1912
8	Miss Mabel Singh, B.A. (Cal.)	1912	15-5-1912	15-5-1912	15-5-1912
9	Babu Nripendra Kumar Dutta, M.A. (Cal.) ...	1912	10-7-1912	10-7-1912	10-7-1912
10	Babu Bankim Das Banarji, M.A. (Cal.)	.....	.....	6-11-1912	6-11-1912
11	Babu Srikumar Banarji, M.A. (Cal.)	1912	13-11-1912	13-11-1912	13-11-1912
12	Babu Surendra Nath Das, B.E. (Cal.)	1906	11-12-1906	1-12-1912	1-12-1912

(*b*) Professor of Botany at the Presidency College from 1-7-1913, *vide* G. O. No. 227, dated 10th January 1913.
(*c*) Professor of Mathematics, Presidency College *vide* G. O. No. 1779 P.—G., dated 13th September 1913.
(*d*) Special Asst. Inspectress of Schools, Calcutta.
(*e*) Addl. Asst. Inspectress of Schools, Presidency Division,
(*f*) Ditto ditto. Burdwan Division, } *vide* G. O. No. 2248T.- G dated 10-10-1913.
(*g*) Assistant Inspectress for zenana work and Muhammadan Education in the mufassal for Presy. and Burdwan Divisions.
(*h*) Professor of Botany, Presidency College, } *vide* G. O. No 150, dated 10-1-1914.
(*i*) Ditto Philosophy, ditto,
(*j*) Asst. Inspector of Schools, for Muhammadan Education, Presidency Division, for two years,
Ditto, ditto, Burdwan ditto, } *vide* G. O. No. 1256. dated 21-3-1914
Ditto, ditto, Dacca ditto,
Ditto, ditto, Chittagong ditto,
Ditto, ditto, Rajshahi ditto.

TIONAL SERVICE.

Substantive appointment and date thereof.	Officiating appointment and date thereof.	Acting allowance.	REMARKS.
+5 (j)+1 (k)+2 (l)−3 (m)+1 (n)+1 (o)+2 (p)+1 (q)−1 (r)=55.]			
Professor, Sanskrit College.		Rs.	
Head Master, Anglo-Persian Dept., Calcutta Madrasah, 30-6-1911.	.. ...	.....	Draws allce. of Rs. 100 a month as Supdt., Baker Madrasah Hostel.
Professor, Training College, Dacca, 4-7-1911	Vice-Principal, Training College Dacca, 7-7-1915.	100	Offg. in the I. E. S. (Babu Nagendra Nath Mazumdar, offg. in the P. E. S.
Professor (Economics), Dacca College, 5-7-1911.	.....	.....	*Transferred to Govt. of India, Finance Dept.*
Assistant Inspector of Schools, Burdwan Division, 17-7-1915.	Professor of Mathematics, Presidency College.		
Professor (Sanskrit and Bengali), Chittagong College, 19-9-1911.			
Head Master, Hooghly Training School.			
Professor (Mathematics), Rajshahi College, 9-4-1912.			
Assistant Inspectress of Schools, Presy. Division.	Special Assistant Inspectress of Schools, Calcutta, 12-10-1916.		
Professor (History), Hooghly College, 12-1-1915.			
Professor of Math., Dacca College.			
Professor, Presidency College.			
Lecturer in Civil Engineering, Civil Engineering College.	.....	.....	Draws an allowance of Rs. 125 a month as Superintendent of the Hindu Mess of the Civil Engineering College.

(*k*) Addl. Asst. Inspectress of Schools, Dacca, *vide* G. O. No. 2348 T.—G., dated 10th October 1913.

(*l*) Professors of History, Rajshahi College, *vide* G. O. Nos. 2300 and 2320, dated 15th and 17th June 1914.

(*m*) One for the exclusion of the post of the Bengali Translator to Government, / One for the substitution of the post of Mechanical Engineering in the Indian Educational Service. / One for the substitution of an Indian Educational Service Inspector for a Provincial Educational Service Inspector. } *vide* G. O. No. 392. T.—G., dated 15th June 1914.

(*n*) Additional Professor of Philosophy, Presidency College—*vide* Government Order No. 433, dated the 28th January 1915.

(*o*) Sanctioned temporarily from 1-7-1914 to 31-3-1916 for the Lady Principal, Training School for Female Teachers, Calcutta, *vide* Government Order No. 1283, dated 13th March 1915.

(*p*) Additional Demonstrators of Chemistry, Presideney College—*vide* Government Order No. 3049, dated the 27th July 1915.

(*q*) Professor of Pali at Chittagong College—*vide* Government Order No. 1283, dated the 14th August 1916.

(*r*) Abolished the post of Lady Principal, Bethune College—*vide* Government Order No. 1273, dated the 10th August 1916.

No.	NAME.	Date of first appointment to Government service.	Date of first appointment to the Education Department, whether permanent or temporary.	Date of appointment to the Provincial Educational Service.	Date of appointment to the present class.
					Class VIII—
13	Shams-ul-Ulama Maulvi Mir Muhammad ...	1896	9-7-1896	3-1-1913	3-1-1913
14	Maulvi A. S. H. Hussain, B.A. (Cal.)	.....	.....	7-5-1913	7-5-1913
15	Mr. Jogendra Chandra Nag, B.Sc. (California) ...	1913	2-7-1913	2-7-1913	2-7-1913
16	Babu Debendra Nath Sen, M.A. (Cal.)	1905	27-6-1905	1-8-1913	1-8-1913
17	Babu Krishnadhan Banarji, M.A. (Cal.)	1910	11-8-1910	1-8-1913	1-8-1913
18	Babu Karunamoy Khastgir, M.Sc. (Cal.)	1912	.....	4-11-1913	4-11-1913
19	Babu Basanta Kumar Ray, M.A.	1910	11-7-1910	12-12-1913	12-12-1913
20	Mr. Satis Chandra Basu, B.A. (Cal.), A.M. (Nebraska) ...	1914	14-1-1914	14-1-1914	14-1-1914
21	Miss Sybil Webb, B.A.	1914	27-3-1914	27-3-1914	27-3-1914
22	Miss Mrinalini Bose	1914	1-4-1914	1-4-1914	1-4-1914
23	Miss Hriday Violet Mitra, B.A. (Cal.)	1914	7-4-1914	7-4-1914	7-4-1914
24	Miss Niroj Bashini Shome, B.A., B.T. (Cal.) ...	1911	21-12-1911	16-4-1914	16-4-1914
25	Maulvi Kazi Imdadul Haq, B.A., B.T.	1905	11-10-1905	20-4-1914	21-3-1916
26	Maulvi Muhammad Maula Baksh, B.A. (Cal.) ...	1902	11-3-1902	26-4-1914	21-3-1916
27	Miss Kamini Bose	1914	1-5-1914	1-5-1914	1-5-1914
28	Maulvi Tasaddak Ahmad, B.A., B.T.	1906	8-12-1906	7-5-1914	21-3-1916
29	Maulvi A. S. M. Azam, M.A., B.L.	1914	5-4-1914	6-4-1914	21-3-1916
30	Babu Narendra Mohan Basu, M.Sc.	1914	1-7-1914	1-7-1914	1-7-1914
31	Maulvi Hidayet Hossain	1910	.....	6-7-1914	6-7-1914
32	Babu Paresh Chandra Mukharji, M.A.	1914	13-7-1914	13-7-1914	13-7-1914
33	Babu Upendra Nath Ghosal, M.A.	1909	.....	15-8-1914	15-8-1914
34	Babu Jyotish Chandra Chatarji, M.A.	1914	10-8-1914	10-8-1914	10-8-1914
35	Mr. Rajani Kanta Dutt, M.A.	1914	17-8-1914	17-8-1914	17-8-1914
36	Babu Rabindra Narayan Ghosh, M.A.	1914	1-9-1914	1-9-1914	1-9-1914

TIONAL SERVICE.

Substantative appointment and date thereof.	Officiating appointment and date thereof.	Acting allowance.	REMARKS.
Rs. 200—(55).			
Assistant Superintendent, Hooghly Madrasah, 3-1-1913.			
Asst. Inspr. of Schools, Burdwan Division, 29-9-1913.			
Professor of Botany, Presidency College, 2-7-1913.			
Professor of History, Krishnagar College, 1-8-1913.			
Professor, Sanskrit College, 1-8-1913.	Professor, Presidency College, 30-1-1917	.....	
Professor of English, Presidency College ...	.....		
Professor, Chittagong College, 12-12-1913.			
Professor of Economics, Dacca College, 14-1-1914.			
Assistant Inspectress of Schools, Comilla ...	.....	.....	On probation. Conveyance allowance of Rs. 30 a month. Combined leave for 1 year and 1 month from 20-7-1916 (Miss Surabala Ghose, offg.).
Assistant Inspectress of Schools, Rajshahi Division.			
Addl. Assistant Inspectress of Schools, Presidency Division.			
Additional Assistant Inspectress of Schools for Burdwan Division.	Assistant Inspectress of Schools, Presidency, 12-10-1916.	.....	(Miss Abala Sarkar, B.A., B. T., offg.).
Head Master, Calcutta Training School, 2-1-1917.			
Asst. Inspector of Schools for Muhammadan Education, Presidency Division.			
Assistant Inspectress of Schools for Zenana Work and Muhammadan Education in the mufassal for the Presidency and Burdwan Divisions.			
Asst. Inspector of Schools for Muhammadan Education, Burdwan Division, 5-2-1917.			
Assistant Inspector of Schools for Muhammadan Education, Rajshahi Division.	.....	.....	Combined leave for six months, viz., privilege leave for 44 days and medical leave for the remaining period from 5-2-1917.
Demonstrator of Physiology, Presidency College.			
Professor of Arabic and Persian, Presidency College.	.....	.....	Draws allowance of Rs. 75 a month as Supdt. of Govt. Moslem Hotel at Calcutta.
Professor, Dacca College, 2-1-1915.			
Professor of History, Rajshahi College.			
Ditto.			
Additional Professor of Philosophy, Presidency College.			
Professor of English, Krishnagar College, 6-7-1916.			

No.	NAME.	Date of first appointment to Government service.	Date of first appointment to the Education Department, whether permanent or temporary.	Date of appointment to the Provincial Educational Service.	Date of appointment to the present class.
					Class VIII—
37	Maulvi Abul Hashem Khan Chaudhuri, M.A. (English)	1902	14-7-1902	6-11-1914	6-11-1914
38	Maulvi Abdur Rahman Khan, M.A. (Cal.) B.T. ...	1914	17-11-1914	17-11-1914	17-11-1914
39	Maulvi Muhammad Sanaullah, M.A. (Cal.) ...	1914	7-12-1914	7-12-1914	7-12-1914
40	Babu Abinash Chandra Bose, M.A. (Cal.) ...	1913	1-7-1913	.....	17-7-1915
41	Babu Satis Chandra Mukarji, M.A. (Cal.) ...	1907	1907	2-8-1915	2-8-1915
42	Babu Rasik Lal Dutta, M.A. (Cal.)	1915	2-8-1915	2-8-1915	2-8-1915
43	Maulvi Abdul Latif, B.A. (Cal.)	.....	.....	1-11-1915	1-11-1915
44	Babu Panchanan Das Mukharji, M.A. (Cal.), F.R.E.S. (Lond.).	1916	4-1-1916	4-1-1916	4-1-1916
45	Babu Harakanta Bose, B.A. (Cal.)	1892	25-4-1892	17-1-1916	17-1-1916
46	Babu Gurubandhu Bhattacharya, B.A. (Cal.), B.T. (Cal.)	1901	11-2-1901	19-6-1916	19-6-1916
47	Babu Mahima Ranjan Barua, M.A.	1910	5-7-1910	1-7-1916	1-7-1916
48	Dr. Anukul Chandra Sarkar, M.A. (Cal.)	1916	.....	16-8-1916	16-8-1916
49	Babu Satish Chandra Sen, B.A. (Cal.)	.....	.....	.....	.....
50	Maulvi Khabiruddin Ahmad, B.A., B.T.	1905	13-6-1908	13-6-1908	.....
51	Babu Surendra Chandra Banarji	.....	.....	.....	.....
52	Maulvi Saiyid Mohsin Ali, B.A.	1897	.....	9-3-1917	9-3-1917
53	Akshay Kumar Sarkar, M.A.	.....	.....	.....	.....
54	Rai Sahib Aswini Kumar Das, M.A.	.....	.....	.....	.....
	Babu Bhupendra Chandra Bose, M.A., B.L. ...	.....	.....	.....	.....
	Babu Dwijendra Kumar Majumdar	.....	.....	.....	.....
	Babu Hari Das Mukharji, M.A.	.....	.....	.....	.....
	Babu Jiban Chandra Talukdar	.....	.....	.....	.....
	Mr. Kiran Shankar Ray, M.A.	.....	.....	.....	.....
	Babu Ramapada Mazumdar	.....	.....	.....	.....
	Babu Bidhubusan Sen Gupta	.....	.....	.....	.....
	Babu Basanta Kumar Ghosh, M.A.	.....	.....	.....	.....
	Babu Kashi Bhushan Sen	.....	.....	.....	.....
55	Vacant.				
					Officer on Special
	Miss Lena Sorabji	16-1-1909	16-1-1909	.....	16-1-1909

TIONAL SERVICE.

Substantive appointment and date thereof.	Officiating appointment and date thereof.	Acting allowance.	REMARKS.
Rs. 200—(55).			
Asstt. Inspector of Schools, Dacca Division			
Professor, Training College, Dacca ...			
Professor of Persian, Chittagong College, 7-12-1914.	.....	.....	On probation.
Professor, Hooghly College, 1-7-1913.			
Additional Demonstrator in Chemistry, Presidency College.	.....	.....	
Ditto ...	.....	.....	
Asstt. Inspector of Schools, Dacca Division (Dacca).	.....	.....	Substantively provisionally.
Additional Professor of Political Economy and Political Philosophy, Presidency College	.....	.....	On probation.
Head Master, Hare School, 4-12-1916 ...	.....	.....	
Supdt., Chittagong Normal School	.....	.....	Ditto.
Professor of Pali, Chittagong College.			
Demonstrator in Chemistry, Presidency College.	.....	.....	Ditto.
Head Master, Hindu School	.....	.....	On probation for one year.
Asst. Inspector of Schools for Muhammadan Education, Dacca Division.	.....	.....	Ditto.
Professor of Botany, Presidency College.			
Asstt. Inspector of Schools for Muhammadan Education, Chittagong Division, 2-3-1917.	.....	.....	Ditto.
Professor of History, Chittagong College, 29-1-1917.	.....		
Asst. Inspector of Schools, Dacca (Barisal)	Asstt. Inspector of Schools, Burdwan Division, 1-2-1917.	.....	On probation for one year.
Professor, Presidency College	.....	.....	*Offg. in place of Dr. P. C. Roy, offg. in I. E. S.*
.....	*Demonstrator, Presidency College.*		
.....	*Professor, Dacca College.*		
.....	*Ditto.*		
.....	*Professor (History) Sanskrit College, 30-1-1917.*	.....	*Offg. in place of Mr. J. N. Das Gupta.*
.....	*Professor, Rajshahi College.*		
.....	*Professor, Krishnagar College.*		
.....	*Professor, David Hare Training College.*		
.....	*Asstt. Inspector of Schools, Presidency Division.*		
Rate of pay.			
Lady Principal of the Eden High School for Girls, Dacca, 16-1-1909.	.....	.....	Pay Rs. 500—40—700. House allowance Rs. 100. Priv. lv. for 3 mos. from 1-4-1917.

No.	NAME.	Date of first appointment to Government service.	Date of first appointment to the Education Department, whether permanent or temporary.	Date of appointment to the Subordinate Educational Service.	Date of appointment to the present class.
					Class I—
1	George William Lawrence	1882	.....	.....	1-10-1898
2	Gerald Ramsay Ballantine	1901	.....	.....	10-9-1905
	Babu Jogendra Nath Hajra, M.A.	*1884*	*18-12-1884*	*23-3-1883*	*15-1-1910*
3	Kenneth Evans	26-6-1905	26-6-1905	26-6-1905	1-10-1911
4	Ernest Edward Sharp, B.A.	1897	1-4-1897	1-4-1897	1-4-1912
5	Babu Bharat Bandhu Laha, M.A.	1895	1895	1-8-1896	1-4-1912
6	Miss Ada Stocker	1903	12-11-1902	12-11-1902	1-4-1912
7	Babu Abinash Chandra Sen, B.A. (Cal.)	1886	21-6-1886	21-6-1886	1-4-1912
8	Babu Kali Pada Sarkar, M.A. (Cal.)	1896	24-6-1896	24-6-1896	16-1-1913
9	Charles Stanley Price	1894	3-7-1894	3-7-1894	1-7-1913
10	Miss Surabala Ghosh, B.A. (Cal.)	1893	1-7-1893	1-7-1893	1-5-1914
11	Miss Hemprabha Bose, M.A. (Cal.)	1893	1-4-1893	1-4-1893	16-11-1914
12	Miss Saralabala Rakshit, B.A. (Cal.)	1900	16-7-1900	7-6-1905	6-12-1914
13	Maulvi Muhammad Quasim	1886	16-1-1886	16-1-1886	1-7-1915
14	Maulvi Abdul 'Aziz (No. II)	1884	20-9-1884	1-7-1910	16-10-1915
15	Babu Atul Chandra Banarji, M.A. (Cal.)	1896	6-8-1896	19-7-1897	5-12-1915
16	Maulvi Abul Maqsud, B.A. (Cal.)	1897	10-4-1897	10-4-1897	21-12-1915
17	Babu Nalini Kumar Datta, M.A. (Philosop y, class II)	1899	2-8-1899	2-8-1899	1-2-1916
18	T. G. Barker	1905	5-12-1905	5-12-1905	18-7-1916
19	Babu Ishan Chandra Sen, B.A. (A Course) ...	1886	7-7-1816	24-11-1893	18-7-1916

TIONAL SERVICE.

Substantive appointment and date thereof.	Officiating appointment and date thereof.	Acting allowance.	REMARKS.
Rs. 250—(19).			
		Rs.	
Foreman Instructor, Civil Engineering College, Sibpur.	.....	.....	Draws a personal allowance of Rs. 25 a month. Also draws a personal allowance of Rs. 19—10—100 from 1-6-1910. Has extension of service up to the date immediately preceding the date of commencement of the vacation of the C. E. College.
Foreman Instructor, Civil Engineering College, Sibpur, 31-12-1901.	.....	.....	Draws a personal allowance of Rs. 10—10—100 from 21-10-1910.
Lecturer, Midnapore College, 12-1-1897 ..	.....	.....	*Lien suspended from 1-4-1912. Draws personal allowance of Rs. 50 a month. Has extension of service for two years from 8-6-1916.*
Foreman Instructor, Dacca School of Engineering, 26-6-1905.	.....	.....	House allowance of Rs. 50, conveyance allowance Rs. 20 and personal allowance of Rs. 10—10—100.
Assistant Master, Victoria Boys' School, Kurseong, 29-10-1903.	.....	.....	Draws compensatory allowance of Rs. 55 a month.
Head Master, Bogra Zilla School, 25-4-1916	.....	.....	Draws duty allowance of Rs. 50 a month.
Assistant Head Mistress, Dow Hill Girls' School.	.....	.....	Draws exchange compensation allowance at 6¼ per cent. Draws compensatory allowance of Rs. 50 a month. Furlough for 1 year from 15-3-1917 (Miss Francis, offg.).
Head Master, Birbhum Zilla School ...	.....	.....	Draws duty allowance of Rs. 50 a month. Has extension of service for one years from 16-7-1916.
Deputy Inspector of Schools, Bankura ...	.....	.....	Appointed as Asistant Inspector of Schools, Chittagong Division, on probation.
Assistant Master, Victoria Boys' School, Kurseong.	.....	.....	Draws compensatory allowance of Rs. 55 a month.
Lecturer, Bethune College	Asstt. Inspectress of Schools, Comilla, 11-11-1916.	.....	Offg. in the Provincial Educational Service.
Head Mistress, Bethune Collegiate School, and Lecturer, Bethune College.	Lecturer, Bethune College, 12-2-1914.		
Head Mistress, Vidyamayee High School for Girls.	1st Asstt. Mistress, Eden High School for Girls, Dacca.		
Asst. Maulvi, Calcutta Madrasah	.....	.....	Draws allowance of Rs. 75 a month as Superintendent of the Elliott Madrasah Hostel.
Lecturer in Arabic and Persian, Dacca College.			
Assistant Superintendent, Dacca Normal School.			
Asst. Head Maulvi, A. P. Dept., Dacca Madrasah.	.....	.....	Draws a duty allowance of Rs. 20 a month.
Lecturer, Rajshahi College, 2-7-1910.			
Assistant Master, Victoria Boys' School, Kurseong.	.....	.....	Draws compensatory local allowance of Rs. 55 a month.
Head Master, Faridpur Zilla School	.....	.....	Draws duty allowance of Rs. 50 a month.

No.	NAME.	Date of first appointment to Government service.	Date of first appointment to the Education Department, whether permanent or temporary.	Date of appointment to the Subordinate Educational Service.	Date of appointment to the present class.
					Class II—
1	Babu Satis Narayan Chaudhuri B.A. (A Course) (trained at Kurseong)	10-12-1892	10-12-1892	10-12-1892	1-4-1912
2	Babu Rampada Mazumdar, M.A. (English, class II)	22-11-1909	22-11-1909	22-11-1909	1-4-1912
3	Babu Amrita Lal Chaterji, B.A.	1885	1885	...	1-4-1912
4	Babu Tarini Prasad Mukharji, B.A. (B Course) ...	1884	...	...	1-4-1912
5	Rai Sahib Aswini Kumar Das, M.A. (English, class II), (Trained at Kurseong).	1902	1-4-1902	1-4-1902	1-4-1912
6	Babu Phatik Chandra Chakravarti, B.A. (B Course with Honours in English), (Trained at Kurseong).	18-11-1886	18-11-1886	1-6-1895	1-4-1913
7	Babu Kashi Bhusan Sen, B.A. (A Course) ...	14-11-1886	14-11-1886	14-11-1886	3-4-1912
8	Babu Priya Nath Brahmachari, B.A. (A Course), Cal. ...	13-7-1888	13-7-1888	13-7-1888	16-1-1913
9	Mrs. L. E. Sharp	1898	30-11-1898	30-11-1898	7-5-1913
10	Babu Kamada Charan Chakrabatti, M.A. (Physics), class I.	1897	...	...	1-7-1913
11	Babu Hem Chandra Datta Gupta, M.A. (Chem., class III), B.L.	1908	1908	1-4-1910	1-7-1913
12	C. A. Gooch	1910	19-5-1910	19-5-1910	14-8-1913
13	Babu Ramesh Chandra Das, B.A. (A Course) ...	1890	20-11-1890	20-11-1890	15-6-1914
14	Babu Gobinda Chandra Chakrabatti, B.A. (A Course)	1888	12-9-1888	12-9-1888	15-6-1914
15	Ram Das Bhattacharji, M.A., B T	1887	...	...	1-11-1914
16	Janaki Nath Bhattacharji	1886	1886	...	6-11-1914

(a) One post of Assistant, Officer of Director of Public Instruction, abolished—*vide* Government Order
(b) One post of Professor of Pali Chittagong College—*vide* Government Order No. 1283, dated the 14th

TIONAL SERVICE.

Substantive appointment and date thereof.	Officiating appointment and date thereof.	Acting allowance.	REMARKS.
Rs. 200—(34)—1 (*a*)—1 (*b*) = 32.			
		Rs.	
Assistant Head Master, Bogra Zilla School, 15-5-1916.	.....	.....	Draws duty allowance of Rs. 20 a month.
Lecturer, Rajshahi College.	Professor, Rajshahi College	50	Offg. in the Provincial Educational Service.
Deputy Inspector of Schools, Burdwan ...			
Assistant Head Master, Hindu School ...	.....	.....	Draws duty allowance of Rs. 20 a month.
Deputy Inspector of Schools, 24-Parganas, 2-2-1911.	Assistant Inspector of Schools, Burdwan Division.	.....	Offg. in the Provincial Educational Service.
Head Master, Khulna Zilla School, 4-7-1907	.....	.....	Draws duty allowance of Rs. 50 a month.
Deputy Inspector of Schools, Calcutta ...	.....	.....	Draws conveyance allowance of Rs. 35 a month. Confirmed provisionally as Deputy Inspector of Schools, Calcutta. On extension of service for one year from 22-7-1917.
Deputy Inspector of Schools, Murshidabad, 2-10-1913.			
Assistant Mistress, Victoria Boys' School, Kurseong.	.....	.....	Draws compensatory allowance of Rs. 55 a month.
Demonstrator, Civil Engineering College ...			
Demonstrator in Chemistry, Krishnagar College, 3-4-1912.			
Assistant Master, Victoria Boys' School, Kurseong.	.....	.....	Draws compensatory allowance of Rs. 55 a month.
District Deputy Inspector of Schools, Chittagong, 6-6-1911.			
District Deputy Inspector of Schools, Jalpaiguri, 11-11-1909.	District Deputy Inspector of Schools, Bogra.		
Assistant Head Master, Dacca Collegiate School.			
Lecturer in Sanskrit, Krishnagar College, 1-4-1901.	.....	.....	Has extension of service for 1+1 year from 16-10-1915.

No. 4668, dated the 21st December 1915.
August 1916.

No.	NAME.	Date of first appointment to Government service.	Date of first appointment to the Education Department, whether permanent or temporary.	Date of appointment to the Subordinate Educational Service.	Date of appointment to the present class.
					Class II—
1	Babu Satis Narayan Chaudhuri B.A. (A Course) (trained at Kurseong)	10-12-1892	10-12-1892	10-12-1892	1-4-1912
2	Babu Rampada Mazumdar, M.A. (English, class II)	22-11-1909	22-11-1909	22-11-1909	1-4-1912
3	Babu Amrita Lal Chaterji, B.A.	1885	1885	...	1-4-1912
4	Babu Tarini Prasad Mukharji, B.A. (B Course) ...	1884	...	...	1-4-1912
5	Rai Sahib Aswini Kumar Das, M.A. (English, class II), (Trained at Kurseong).	1902	1-4-1902	1-4-1902	1-4-1912
6	Babu Phatik Chandra Chakravarti, B.A. (B Course with Honours in English), (Trained at Kurseong).	18-11-1886	18-11-1886	1-6-1895	1-4-1912
7	Babu Kashi Bhusan Sen, B.A. (A Course) ...	14-11-1886	14-11-1886	14-11-1886	3-4-1912
8	Babu Priya Nath Brahmachari, B.A. (A Course), Cal. ...	13-7-1888	13-7-1888	13-7-1888	16-1-1913
9	Mrs. L. E. Sharp	1898	30-11-1898	30-11-1898	7-5-1913
10	Babu Kamada Charan Chakrabatti, M.A. (Physics), class I.	1897	...	...	1-7-1913
11	Babu Hem Chandra Datta Gupta, M.A. (Chem., class III), B.L.	1908	1908	1-4-1910	1-7-1913
12	C. A. Gooch	1910	13-5-1910	19-5-1910	14-8-1913
13	Babu Ramesh Chandra Das, B.A. (A Course) ...	1890	20-11-1890	20-11-1890	15-6-1914
14	Babu Gobinda Chandra Chakrabatti, B.A. (A Course)	1888	12-9-1888	12-9-1888	15-6-1914
15	Ram Das Bhattacharji, M.A., B T	1887	...	...	1-11-1914
16	Janaki Nath Bhattacharji	1886	1886	...	6-11-1914

(a) One post of Assistant, Officer of Director of Public Instruction, abolished—*vide* Government Order
(b) One post of Professor of Pali Chittagong College—*vide* Government Order No. 1283, dated the 14th

TIONAL SERVICE.

Substantive appointment and date thereof.	Officiating appointment and date thereof.	Acting allowance.	REMARKS.
Rs. 200—(34)—1 (*a*)—1 (*b*)=32.			
		Rs.	
Assistant Head Master, Bogra Zilla School, 15-5-1916.	.....	.....	Draws duty allowance of Rs. 20 a month.
Lecturer, Rajshahi College.	Professor, Rajshahi College	50	Offg. in the Provincial Educational Service.
Deputy Inspector of Schools, Burdwan ...			
Assistant Head Master, Hindu School ...	.....	.....	Draws duty allowance of Rs. 20 a month.
Deputy Inspector of Schools, 24-Parganas, 2-2-1911.	Assistant Inspector of Schools, Burdwan Division.	.....	Offg. in the Provincial Educational Service.
Head Master, Khulna Zilla School, 4-7-1907	.....	.....	Draws duty allowance of Rs. 50 a month.
Deputy Inspector of Schools, Calcutta ...	.....	.....	Draws conveyance allowance of Rs. 35 a month. Confirmed provisionally as Deputy Inspector of Schools, Calcutta. On extension of service for one year from 22-7-1917.
Deputy Inspector of Schools, Murshidabad, 2-10-1913.			
Assistant Mistress, Victoria Boys' School, Kurseong.	.....	.....	Draws compensatory allowance of Rs. 55 a month.
Demonstrator, Civil Engineering College ...			
Demonstrator in Chemistry, Krishnagar College, 3-4-1912.			
Assistant Master, Victoria Boys' School, Kurseong.	.....	.....	Draws compensatory allowance of Rs. 55 a month.
District Deputy Inspector of Schools, Chittagong, 6-6-1911.			
District Deputy Inspector of Schools, Jalpaiguri, 11-11-1909.	District Deputy Inspector of Schools, Bogra.		
Assistant Head Master, Dacca Collegiate School.			
Lecturer in Sanskrit, Krishnagar College, 1-4-1901.	.....	.....	Has extension of service for 1+1 year from 16-10-1915.

No. 4668, dated the 21st December 1915.
August 1916.

No.	NAME.	Date of first appointment to Government service.	Date of first appointment to the Education Department, whether permanent or temporary.	Date of appointment to the Subordinate Educational Service.	Date of appointment to the present class.
					Class II—
17	P. G. Williams	1914	...	9-11-1914	9-11-1914
18	Basanta Kumar Mitra, B.A. (A Course)	1889	3-5-1889	1-8-1896	6-12-1914
19	Khabiruddin Ahmad, B.A. (B Course), B.T. ...	1905	13-6-1908	13-6-1908	24-6-1915
20	Samarash Ray Chaudhuri, B.A., B.E.	1905	3-7-1905	3-7-1905	1-7-1915
21	Shams-ul Ulam Maulvi, Abul Khair Abdul Waheb ...	1911	...	...	7-8-1915
22	Ram Chandra	12th October 1891	18-4-1904	26-7-1911	16-10-1915
23	H. G. Landeman	1910	5-12-1915	5-12-1915	5-12-1915
24	Babu Kshirod Chandra Sen, B.A.	1908	15-6-1908	15-6-1908	21-12-1915
	Satis Chandra Sen, B.A.	*1895*	*17-7-1895*	*17-7-1895*	*21-12-1915*
25	Maulvi Muhammad Hussain	1885	1-1-1885	1-1-1885	1-2-1916
26	Babu Umesh Chandra Roy	1891	1-9-1891	1-9-1891	9-2-1916
27	Muhammad Wahidun Nabi, B.A.	1895	1-4-1895	12-10-1898	18-7-1916
	Atour Rahaman, M.A., No. I	*1910*	*15-7-1910*	*15-7-1910*	*18-7-1916*
28	Kalipada Bhattacharji, B.A.	1888	27-7-1888	8-8-1891	18-7-1916
29	A. R. Greene, B.A.	1901	1901	1901	3-11-1916
30	J. J. Elliot, B.A.	1904	7-3-1904	7-3-1904	23-11-1916
31	Miss J. Russell	1898	1-3-1898	1-3-1898	23-11-1916
32	Babu Akshay Kumar Mukharji, B.A.	1896	31-12-1896	31-12-1896	4-12-1916

TIONAL SERVICE.

Substantive appointment and date thereof.	Officiating appointment and date thereof.	Acting allowance.	REMARKS.
Rs. 200—(32).			
		Rs.	
Foreman Instructor, Civil Engineering College, Sibpur.			
Head Master, Dinajpur Zilla School.			
District Deputy Inspector of Schools, Tippera.	.....		Appointed substantively *pro tempore* to be Asstt. Inspector of Schools for Muhammadan Education, Dacca Division and in Class VIII of the P. E. S., *vice* Maulvi Kazi Imdadul Huq on deputation.
Assistant Head Master, Dacca School of Engineering.			
Assistant Maulvi, Senior Section, Arabic Department, Calcutta Madrasah.			
Deputy Keeper, Government Art Gallery.			
Foreman Instructor, Civil Engineering College, Sibpur.			
Head Master, Barisal Zilla School, 11-9-1915	.....	.....	Duty allowance of Rs. 50 a month.
Head Master Darjeeling High School, 1-4-1916.	.....	.....	*Ditto ditto.*
Head Maulvi, Arabic Department, Chittagong Madrasah.	.....	.....	Has extension of service from 16-12-15 to 15-12-16.
Asst. Head Master, Jalpaiguri Zilla School	.....	.....	Duty allowance of Rs. 20 a month.
Head Master, Comilla Zilla School ...	.....	.....	Duty allowance of Rs. 50 a month.
Lecturer (English) Rajshahi College. ...	.....	.....	Appointed Assistant Inspector of Schools for Muhammadan Education, Assam, on probation.
Asst Head Master, A.-P. Dept., Calcutta Madrasah.	.....	.....	Duty allowance of Rs. 20 a month.
Asst. Master, Victoria Boys' School Kurseong.	.....	.....	Personal allowance of Rs. 25 a month.
Teacher of Engineering, Victoria Boys' School, Kurseong.	.....	.....	
Asst. Mistress, Dow Hill Girls' School, Kurseong.	.....	.....	Sub. *pro tem.*
District Deputy Inspectors of Schools, Dacca.	.....	.....	Sub. *pro tem.*

OFFICERS NOT WITHIN THE CLASSIFIED LIST.

NAME.	Date of first appointment to Education Department.	Present appointment and date.	Salary.	REMARKS.
			Rs.	
Babu Indu Bhusan Bhaduri ...	.....	Law Lecturer, Krishnagar College.	.....	Paid from fees. His salary must not exceed the limit of Rs. 2,400 a year.
Babu Probhash Chandra Mitra, B.L.	.....	Ditto (P. L. classes), Hooghly College.	.....	Ditto ditto.
H. Cecil Jones	.....	Lecturer on Geology, Presidency College, 20-11-1914.	200	
Miss Elizabeth Davies† ...	4-3-1907	Asst. Mistress, Kindergarten Method, Dow Hill Training School, 4-3-1907.	305	Draws compensatory allowance of Rs. 50 a month.
Mr. Ashutosh Guha, B.A., B.SC., Tech. A. M. S. T. (Manchester).	.....	Asst. Principal, Serampore Weaving Institute, 2-1-1917.	250—25—500	On probation for one year.
Mrs. Saralabala Mitra, B.A. (Cal.). (Camb. Teachership Certificate).	26-8-1901	Principal, Training School for Female Teachers, Calcutta, 1-10-1908.	250	Apptd. substantively as Assistant Inspectress of Schools, Dacca, 1-11-15.
Jamini Prakash Gangali ...	19-6-1916.	Vice-Principal, Government School of Art, Calcutta, 19-6 1916.	350—40—550	On probation for one year.
James Henry Little, B.A. (*a*) ...	1904	Head Master, Nawab Bahadur's Institution, Murshidabad, 19-5-1910.	250—$\frac{25}{2}$—500	
William Bernard Finnigan ...	1-5-1903	Personal Assistant to Director of Public Instruction, Bengal, 1-7-1913.	300—40—500	
Miss Pauline Elizabeth Aimee Fisher.	20-10-1915	Head Mistress, Dow Hill School, 20-10-1915.	300—20—500	For two years. Draws local allowance of Rs. 150 a month.
Babu Girendra Kumar Sen ...	.....	Offg. Principal, Commercial Institute.	300	
Patrick Michael O'Riordan M.C.A. (Camb.).	11-7-1912	Addl. Teacher, Victoria Boys' School, Kurseong.	200—$\frac{20}{2}$—400	For two years. On deputation to military duty. (Mr. LePatourel offg. on Rs. 100 from 14-3-1916.)
Miss Irene Wilkins ...	21-3-1914	Mistress of Domestic Economy and Housewifery, Dow Hill School, 3-3-1914.	200—10—250	Draws compensatory allowance of Rs. 50 a month. Leave out of India from 27-8-16 to 4-12-16 in combination of the winter vacation of the school.
Maulvi Fakhruddin Ahmed ...	2-7-1915	Asstt. Master, Hastings House School.	300—50—500	Temporary.
Bankim Ch. Chaterji ...	2-7-1915	Ditto ditto ...	200—25—300	Ditto
H. C. Read	.....	Tempy. Lecturer in Mining ...	750	For 2 yrs. + 6 months from 1-9-1915.

NOTE.—For officers of the Medical Colleges and Schools, *see* Part XXII.

† Will receive an annual increment of Rs. 15 from 1st April each year commencing from 1910 until the seventeenth year of her service, when she will receive an increment of Rs. 5 to bring her salary up to Rs. 400.

a) Passed in Bengali by the higher standard

OFFICERS NOT WITHIN THE CLASSIFIED LIST.

NAME.	Date of first appointment to Education Department.	Present appointment and date.	Salary.	REMARKS.
			Rs.	
Nares Chandra Sen Gupta ...	14-8-1916	Vice-Principal, Law College, Dacca, 14-8-1916.	750	
T. J. Collins	5-9-1911	Head Master, Armanitola High School, Dacca, 5-9-1911.	350—20—750	
R. K. Das (Bar.-at-Law) ...	16-9-1913	Law Lecturer, Dacca College, 16-9-1913.	200	
Babu Sharat Chandra Ghosh, B.L.	.....	Law Lecturer, Dacca College, 9-7-1913.	200	For 1 + 1 year from 9-7-1915.
Babu Sharat Chandra Ray, B.L. (Cal.)	21-6-1900	Law Lecturer, Rajshahi College, 16-7-1900.	.....	Paid from fees. His salary must not exceed the limit of Rs. 2,400 a year.
Babu Rajani Ranjan Sen, B.L. (Cal.).	21-10-1903	Law Lecturer, Chittagong College, 21-10-1903.	.....	Ditto ditto.
Miss Wears Taylor ...	25-9-1905	Mistress of Method, Eden High School for Girls, Dacca, 5-3-1909.	200	

CONTROLLING STAFF, DEPARTMENT OF PUBLIC INSTRUCTION.

Direction.

Designation of officer.	NAME OF OFFICER.	Salary per mensem.	REMARKS.
		Rs	
Director of Public Instruction	The Hon'ble Mr. W. W. Hornell, M.R.A.S., M.A. (Oxon.).	2,300	Addl. Member, Bengal Council.
Superintendent of Industries and Inspector of Technical and Industrial Institutions in Bengal.	W. H. Everett, B.A., B.E. (offg.)	1,200	Draws a local allowance of Rs. 200 a month, acting allowance of Rs. 200 a month.
Assistant Director of Public Instruction	F. C. Turner, M.A. ...	1,000	Draws duty allowance of Rs. 100 a month, and temporary allowance of Rs. 150 a month.
Ditto Ditto for Muhammadan Education, Bengal.	J. A. Taylor, M.Sc. ...	800	Draws duty allowance of Rs. 100 a month.
Personal Assistant to the Director of Public Instruction.	William Bernard Finnigan ...	300—40—500	Apptd. permanently, 1-7-1913.

CONTROLLING STAFF, DEPARTMENT OF PUBLIC INSTRUCTION.

Inspection.

Designation of officer.	NAME OF OFFICER.	Salary per mensem.	REMARKS.
Inspectors and Inspectresses of Schools.			
		Rs.	
Inspector of Schools, Burdwan Division	T. O. D. Dunn, M.A (Glasgow) W. E. Griffith (offg.)	850	Offg. Inspector of Schools, Presidency Divn.
Ditto, (Addl.) (Chinsurah)... ... (Burdwan, Birbhum and Bankura.)	Babu Phani Bhushan Basu, M.A. Maulvi Kabiruddin Ahmad (offg.).	400	Offg. Additional Inspector of Schools, Presy. Divn.
Ditto, (Addl.) ditto ... ... (Howrah and Midnapore.)	Babu Pramatha Nath Chatarji, M.A. (Cal.).	300	
Ditto, Presidency Division, (Calcutta).	H. R. James, M.A. (Oxon.) ... T. O. D. Dunn (offg.).	1,000+500 P.A.	Combined leave from 27-2-1916 to 7-11-1917.
Ditto, (Addl.) (Calcutta) ... ... (Jessore and Khulna.	Khan Bahadur Ahsanullah, M.A. (Cal.), M.R.A.S. (Lond.).	500	
Ditto, (Addl.) Presidency Division (24 Parganas.)	Khan Bahadur Muhammad Ibrahim, B.A. (Cal.).	600	
Ditto, (Addl.) (Calcutta) ... ... (Nadia and Murshidabad.)	H. A. Stark, B.A. (Cal.). ... Babu Phani Bhusan Bose (offg.).	600	On deputation to the Dacca T. College.
Ditto, Dacca Division	Henry Ernest Stapleton, M.A., B.Sc. (Oxon.). J. W. Gunn (offg.).	1,000	P. A. 200—10—250. On deputation to military duty.
2nd Inspector of Schools, Dacca Division... ...	Rai Sahib Pramoda Kumar Basu, M.A. (Cal.). Babu Gopal Chandra Sarkar (offg.)	600	On leave.
Ditto, ditto	Babu Harendra Narayan Chakrabatti, B.A. (Cal.).	350	
Inspector of Schools, Chittagong Division ...	J. W. Gunn, M.A. (Cantab) ... M. P. West (offg.).	750	Offg. Inspector of Schools, Dacca Divn.
2nd Inspector of Schools, Chittagong Division ...	Maulvi Kabiruddin Ahmad ...	300	Offg. Addl. Inspector of Schools, Burdwan Divn
Inspector of Schools, Rajshahi Division	Rai Bahadur Dr. Purnananda Chatarji, B.A. (offg.).	700	
Inspector of European Schools	G. D'O. Maclear, B.A. (Oxon.) ... A. Mercer (offg.).	650	On deputation to military duty.
Inspectress of Schools, Presidency and Burdwan Divisions.	Miss L. W. Brock, B.A. (Lond.)... (Miss Hridayabala Bose (offg.).	600	Draws a fixed conveyance allowance of Rs. 35 and a local allowance of Rs. 100 a month. Combined leave for one year from 12-10-1916.
Inspectress of Girls' Schools, Dacca Circle ...	Miss M. V. Irons, M.A. (Dub.).	400	

CONTROLLING STAFF, DEPARTMENT OF PUBLIC INSTRUCTION.

Inspection.

Assistant Inspectors and Assistant Inspectresses of Schools.

Designation of officer.	NAME OF OFFICER.	Salary per mensem.	REMARKS.
		Rs.	
Assistant Inspector of Schools, Burdwan Division	Babu Hem Chandra Sen Gupta, M.A. Rai Sahib Aswani Kumar Das (offg.).	200	(offg. Professor Presidency College.)
Ditto ditto ...	Babu Nalini Mohan Sanyal, M.A. Babu Hem Chandra Sarkar (offg.).	400	Offg. Asstt. Inspector of Schools, Rajshahi Division.
Ditto ditto ...	Maulvi A. S. H. Husain ...	200	
Ditto ditto ...	Babu Aghor Nath Banarji, M.A., B.L. Maulvi Matloob Ahmad Khan Chowdhury (offg.)	250	On leave.
Ditto for Muhammadan Education, Burdwan Division (Chinsurah).	Maulvi Tusadaq Ahmed, B.A. B.T.	200	
Ditto Presidency Division (Jessore and Khulna).	Babu Harish Chandra Datta, M.A.	350	
Asstt. Inspector of Schools, Presidency Division (Nadia and Murshidabad).	Babu Rakhal Das Chakarbatti, M.A.	300	Draws a conveyance allowance of Rs. 10 a month. Offg. Assistant Inspector of Schools, Dacca Division.
Ditto ditto (Calcutta and 24-Parganas).	Maulvi Alfazuddin Ahmad, M.A. Babu Kashi Bhusan Sen (offg.)	250	
Assistant Inspector of Schools for Muhammadan Education, Presidency Division (Calcutta).	Maulvi Muhammad Maula Baksh, B.A.	200	Draws a conveyance allowance of Rs. 10 a month.
Special Assistant Inspectress of Schools, Calcutta (Calcutta).	Miss Hridaybala Basu, M.A. ... Miss Mabel Singh (offg.).	300	Offg. Inspectress of Schools, Presy. and Burdwan Divns.
Assistant Inspectress of Schools, Burdwan Division.	Miss Indumukhi Nath ...	300	
Additional Ditto, ditto (Midnapore).	Miss Niroj Bashini Shome, B.A. B.T. Miss Abala Sarkar, B.A., B.T. (offg.).	200	Offg. Assistant Inspectress of Schools, Presidency Divn.
Ditto, Presidency Division (Berhampore).	Miss Hriday Violet Mitra, B.A. ...	200	
Assistant Inspectress of Schools, Presidency Division (Calcutta).	Miss Mabel Singh, B.A. ... Miss Niroj Basini Shome, (offg.).	200	Offg. Special Asstt. Inspectress of Schools, Calcutta.
Ditto, for Zenana Work and Muhammadan Education, in the Muffasal, for Presidency and Burdwan Divisions (Calcutta).	Miss Kamini Bose	200	

CONTROLLING STAFF, DEPARTMENT OF PUBLIC INSTRUCTION.

Inspection.

Designation of officer.	NAME OF OFFICER.	Salary per mensem.	REMARKS.
Assistant Inspectors and Assistant Inspectresses of Schools.			
		Rs.	
Assistant Inspector of Schools, Dacca Division (Dacca).	Maulvi Abul Hashem Khan Chaudhuri.	200	
Ditto *Ditto* ...	*Babu Shyam Das Mukherji* ...	...	*Lien suspended, on deputation.*
Ditto ditto ...	Maulvi Abdul Latif, B.A. ...	200	Substantively provisionally.
Assistant Inspector of Schools for Muhammadan Education, Dacca Division (Mymensingh).	Maulvi Khubiruddin Ahmad ...	200	
Assistant Inspector of Schools, Dacca Division (Barisal).	Rai Sahib Aswini Kumar Das ... Maulvi Alfajuddin Ahmad (offg.)	200	Offg. Assistant Inspector of Schools, Burdwan Division.
Assistant Inspector of Schools, Chittagong Division.	Maulvi Abdul Aziz (No. I) ...	250	
Ditto ditto ...	Babu Kalipada Sarkar, M.A. ...	250	
Assistant Inspector of Schools for Muhammadan Education, Chittagong Division (Comilla).	Maulvi Syed Mohsin Ali, B.A. ...	200	
Assistant Inspector of Schools, Rajshahi Division (Jalpaiguri).	Babu Gopal Chandra Sarkar, B.A. (Cal.). Babu Nalini Mohan Sanyal (offg.)	300	Offg. 2nd Inspector of Schools, Dacca Division.
Assistant Inspector of Schools, Rajshahi Division (Rampur Boalia).	Maulvi Muhammad Sulaiman, B.A. (Cal.)	250	
Assistant Inspector of Schools for Muhammadan Education, Rajshahi Division (Bogra).	Maulvi A. S. M. Azam ...	200	Combd. lv. for six months from 5-2-1917.
Additional Assistant Inspectress of Schools, Dacca (Faridpur).	Mrs. Saralabala Mitra, B.A. (Cambridge Teachership Certificate).	250	Will continue as Lady Principal, Govt. Training School for Female Teachers, Calcutta. (Miss Lilabati Ghose, offg.).
Ditto, Comilla (Comilla)	Miss Sybil Webb, B.A. ... (Miss Surabala Ghosh, offg.), 11-11-1916.	200	Draws conveyance allowance of Rs. 30 a month. Comb. lv for 1 year + 1 month from 20-7-1916.
Assistant Inspectress of Girls' Schools, Rajshahi Division (Jalpaiguri).	Miss Mrinalini Bose ...	200	
Assistant Inspectress of Schools, Dacca (Dacca)...	Mrs. Kumudini Das ...	400	On leave.

PART XXIII.

ECCLESIASTICAL DEPARTMENT.

Season of appointment.	NAME.	Date of rank.	APPOINTMENT, STATION AND REMARKS.
	Lord Bishop of Calcutta and Metropolitan of India.		
1913 ...	Lefroy, Most Revd. George Alfred, D.D.	19-12-1913	*Ex-officio.* Fellow of the Calcutta University.
	List of Chaplains.		
1898 ...	Stuart, Canon Robert William Hall, M.A.	10-5-1908	Senior Chaplain, St. Paul's Cathedral, Calcutta. 8-11-1915.
1897 ...	Smith, Canon Joseph Frank, M.A., B.D., A.K.C.	9-6-1910	Chaplain of St. James's Church, Calcutta. 14-12-1916.
1898 ...	Firminger, Ven'ble Walter Kelly, M.A., B.D.*	24-5-1911	Archdeacon of Calcutta, 1-1-1914. Senior Chaplain, St. John's Church, Calcutta. 7-10-1916.
1899 ...	*Stokoe, Cecil George, M.A. ...*	*27-6-1912*	*Services placed at the disposal of the Govt. of Bihar and Orissa, 20-3-1916. Combd. lv. for 14 mos. and 26 days from 1-7-1916.*
1906 ...	Keeling, Ernest William Philipps, B.A.	31-8-1913	Combd. lv. for 7 months and 14 days from 1-8 1916.
1902 ...	*Drawbridge, William Hamilton, M.A.*	*4-3-1915*	*Services placed at the disposal of the Assam Admns., from 25-1-1917.*
1902 ...	Parker, William Almair Hedley, M.A....	30-11-1915	Lv. on m. c. for 1 year + 3 mos., + 5 mos. 1-8-1915.
1903 ...	*Crozier, Philip Horsfall ...*	*5-12-1916*	*Services placed at the disposal of the Govt. of India, Army Dept., 6-6-1916. Senior Chaplain, 5-12-1916.*
	JUNIOR.		
1904 ...	Penley, Horace Octavius, M.A. ...	27-10-1907	Chaplain, St. Thomas' Church, Calcutta. 1-9-1915.

* Member of the Council of the Imperial Library, Calcutta.

ECCLESIASTICAL DEPARTMENT.

List of Chaplains.

Season of appointment.	NAME.	Date of rank.	APPOINTMENT, STATION AND REMARKS.
	JUNIOR.		
1905 ..	*Rilsdale, Arthur Cyril, M.A., F.R.A.S., F.R.Met S.*	*12-9-1908*	*Services placed at the disposal of the Govt. of Bihar and Orissa, 12-3-1917.*
1905 ...	Godber, John, M.A.	1-12-1908	Domestic Chaplain to the Lord Bishop, 4-11-1913, and Junior Chaplain, St. Paul's Cathedrals, 4-11-1916.
1909 ...	*Dyer, Basil Saunders, B.A.* ...	*31-8-1910*	*Services placed at the disposal of the Govt. of the Punjab, 13-3-1916.*
1908 ...	Martin, Herbert Craven Lunn, M.A. ...	20-1-1910	
1911 ...	*Spooner, Harold*	*6-4-1914*	*Services placed at the disposal of the Govt. of India, Army Dept., 14-7-1915.*
1911 ...	*Birch, Ormonde Winstanley* ...	*4-11-1914*	*Services placed at the disposal of the Govt. of India, Army Dept., 9-5-1915.*
1913 ...	*Thomson, Thomas Albert* ...	*5-1-1915*	*Services placed at the disposal of the Govt. of Bihar and Orissa, 1-11-1915.*
1913 ...	*Williams, Henry Frank Fullord, B.A.*	*20-2-1916*	*Services placed at the disposal of the Govt. of India, Army Dept., 27-2-1917.*
1913 ...	Wilkinson, Ernest Roland, M.A. ...	4-11-1916	Chaplain, Barrackpore, 27-11-1913 and Dum-Dum, 6-6-1916.
	PROBATIONARY.		
1915 ...	Grimes, Cecil John	26-1-1915	Chaplain, Fort William, and addl. Chaplain, St. John's Church, Calcutta, 7-10-1916, Addl. Honorary Chaplain (Church of England) 2nd (Presy.) Battalion, Calcutta Volunteer Rifles, 2-5-1915.
1915 ...	Tambling, Francis Gordon Hill ...	11-4-1915	Chaplain of Kidderpore, 1-11-1915.
1916 ...	Noake, Arthur Raynor, M.A. ...	23-1-1916	Services placed at the disposal of the Govt. of India, Army Dept., 16-8-1916.
1916 ...	Young, Ernest Joseph, B.A. ...	6-4-1916	Chaplain, Howrah, 25-4-1916.
1917 ...	*Newton, Richard Palmer, M.A.* ...	*5-2-1917*	*Services placed at the disposal of the Govt. of Bihar and Orissa, 23-2-1917.*

ECCLESIASTICAL DEPARTMENT.

Season of appointment.	NAME.	Allowance.	APPOINTMENT, STATION AND REMARKS.
	Government aided Chaplains.		
		Rs.	
1903 ...	Hugh Tregarthen Millet, B.A. ...	150	Chaplain, Chittagong.
1906 ...	Dennis Henry Goddard Dunne ...	150	Chaplain, Asansol and Raniganj.
1915 ...	Frank Burness Hadow, M.A. ...	100	Chaplain, Serampore and Lillooah, 1-4-1915.
1908 ...	Gordon Reynold Walters, B.A. ...	150	Chaplain, Saidpur, 4-3-1916.
1911 ...	Wilfred John Simmons, B.A. ...	150*	Chaplain, Kurseong.
1915 ...	Lionel Petter	150	Chaplain, St. Paul's, Scott's Lane, Calcutta, 23-12-1915.
1916 ...	Chas. Alfred Newbery	100	River Chaplain, 17-12-1915.
1916 ...	Walter Herbert Greame Holmes, M.A.	100	Junior Chaplain, St. John's Church, Calcutta, 20-12-1915.
		Date of rank.	
	Herbert Grayhurst Pearson (Bar-at-Law) ...	1905	Regr. of the Diocese.
	***Rupees 100 from the Education and Rs. 50 from the Ecclesiastical Budget**		
	Church of Scotland.		
1897 ...	Revd. William Thomson, M.A. ...	22-2-1910	Presidency Senior Chaplain, Bengal. 5-5-1914. Hony. Chaplain, Cossipore Artillery Volunteers, 30-4-1914.
1903 ...	Revd. Robert George Jamieson, M.A. ...	26-10-1916	Senior Chaplain, St. Andrew's Church, Calcutta.
	Church of Rome.		
1902 ...	The Most Revd. Archbishop Dr. Brice Meuleman, S.J.	.....	Archbishop, Calcutta.
1913 ..	Revd. Philip Carbery, S.J. ...	.....	Chaplain, Alipore Central Jail.

LIST OF OFFICERS APPOINTED UNDER THE MARRIAGE ACT, XV OF 1872.

District.	Marriage Registrars (a) under section 7.	Ministers licensed under section 6, Part I, to solemnize marriages.	Persons licensed under section 9, Part I, to grant marriage certificates to Native Christians.
1. Calcutta ...	.....	Revd. George Henry Hook.	Revd. George Henry Hook.
		,, Edward Holiday Owen.	
		Babu Tarini Charan Das.	
		Revd. John Watt.	Revd. John Watt.
			Christian Samuel.*
		,, Ithiel Wilfrid Morgan.	Revd. Ithiel Wilfrid Morgan.
			,, Bhagabati Charan Ghosh.
		,, Herbert Anderson.	,, Herbert Anderson.
	L. J. D'Santos (Senior Marriage Registrar).	,, Arthur Jewson.	
	Rai Bihari Lal Chandra, Bahadur.	.....	Rai Bihari Lal Chandra Bahadur.
		Revd. Arthur Willifer Young	Revd. Arthur Willifer Young.
		,, William Spence Urquhart, M.A.*	,, William Spence Urquhart, M.A.*
		,, John Cockburn Scrimgeour.	,, John Cockburn Scrimgeour.*
			,, Charles Henry Harvey.*
		,, Joseph Mark Comer.*	
		,, John Dickson Sinclair.*	,, John Dickson Sinclair.*
		,, Thomas James McClelland.	,, Thomas James McClelland.
		,, Andrew Warren.*	
		,, Thomas William Norledge (on leave).	,, Thomas William Norledge (on leave).
		,, William George Brockway.	
		Staff Captain James McKeller Richardson.	
		Revd. Andrew Sims.	

(a) All District Magistrates for the time being, Deputy Commissioners of the non-regulation Provinces and Extra Assistant Commissioners, Sonthal Parganas.

* All Ministers of Religion authorized to solemnize marriages under the Indian Christian Marriage Act. XV of 1872, are Registrars of Births and Deaths under Act VI of 1886.

LIST OF OFFICERS APPOINTED UNDER THE MARRIAGE ACT, XV OF 1872.

District.	Marriage Registrars (a) under section 7.	Ministers licensed under section 6, Part I, to solemnize marriages.	Persons licensed under section 9, Part I, to grant marriage certificate to Native Christians.
Calcutta—*concld.*	.....	Revd. Henry Alexander Hurd Barley.°	
		,, Colin C. Dawson.	Revd. Colin C. Dawson.
		,, James Howard Brown.‡ (Kaurapukur.)	
		,, Ernest Frederick Knight.‡	,, Rashamoy Biswas.
			,, Lakshmi Prasad Chaudhury.°
			,, Charu Kumar Mitra.
			,, Lalit Lochan Dutt.
			,, Nirmal Chandra Roy.
2. Burdwan ...	.....	Revd. William Pryce Byers.	Revd. William Pryce Byers.
		,, Arthur Stanley Hutchinson (temporarily absent).°	,, Arthur Stanley Hutchinson (temporarily absent).
			,, Ashutosh Banarji, Raniganj.
		,, T. R. Edwards.	
		,, John Drake.	,, Alexander Brown (temporarily absent).
		,, Ernest Muir (Kalna)	,, Ernest Muir (Kalna).
		,, J. W. Sergeant.	,, J. W. Sergeant.
		,, A. M. Spencer (Raniganj).	,, A. M. Spencer (Raniganj).
3. Birbhum ...	.....	.....	Babu Prasanna Kumar Das (Suri).
			Revd. J. P. Meik (Bolpur).
4. Bankura ...	Revd. George Ernest Woodford.°	Revd. George Ernest Woodford.°	
		,, John Mitchell.°	Revd. John Mitchell.°
		,, Arthur Ernest Brown.	,, Arthur Ernest Brown.
		,, Arthur Merchman Spencer (temporarily absent).	,, Arthur Merchman Spencer (temporarily absent).
5. Midnapore ...	.....	Revd. Z. O. D. Browne (Kharagpur).	
		Pelaram Kiscoo° (Lalgarh).	Mr. Kailash Chandra Mahapatra.°
		Revd. John A. Howard.	Revd. Charles Das.

(a) All District Magistrates for the time being, Deputy Commissioners of the non-regulation Provinces and Extra Assistant Commissioners, Sonthal Parganas.
(b) Licensed to solemnize marriages within the Presidency of Fort William in Bengal.
*All Ministers of Religion authorized to solemnize marriages under the Indian Christian Marriage Act, XV of 1872, are Registrars of Births and Deaths under Act VI of 1886.
† Holder of Kaisar-i-Hind Silver Medal.
‡ Within the Presidency of Fort William

LIST OF OFFICERS APPOINTED UNDER THE MARRIAGE ACT, XV OF 1872.

District.	Marriage Registrars (*a*) under section 7.	Ministers licensed under section 6, Part I, to solemnize marriages.	Persons licensed under section 9, Part I, to grant marriage certificates to Native Christians.
6. Hooghly ...	.....	George Howells, ° Serampore (temporarily absent).	Revd. Anukul Chandra Ghosh,° Serampore.
7. Howrah ...	.....	Revd. George Bryan Goldie,° Howrah. ,, W. D. Miller° ...	Revd. George Bryan Goldie,° Howrah. ,, W. D. Miller.°
8. 24-Parganas	.....	..... Revd. Winter Richard Le-Quesne. ,, Herbert Kirby,° Barrackpore. ,, Thomas James McClelland. ,, George William Shaw° ,, Hridoy Gopal Banerji ,, Geo. J Franklin ...	Revd. Kali Pada Banarji, (Kaurapukur). ,, Haranauda Mandal. ,, Santosh Kumar Saddar. ,, Winter Richard Le-Quesne. Prabhudhan Singh, Port Canning. Revd. Debendra Nath Ray, Mathurapur. ,, Ishan Chandra Das, Sundarbans. ,, George William Shaw.° ,, Nirmal Chandra Roy.° ,, Naba Kumar Chakrabatti.° ,, Radha Nath Das, Budge-Budge. Staff Captain James Richardson. ,, Hridoy Gopal Banerji. Revd. Geo. J. Franklin.
9. Murshidabad	.....	Revd. John Alfred Joyce ... ,, Evan Rees (Berhampore) (temporarily absent). ,, Paul Biswas (*b*) ... ,, Otto Harry Stursberg	Revd. John Alfred Joyce. ,, Evan Rees (Berhampore). ,, Kali Prasanna Mukharji (Berhampore). ,, Paul Biswas (*b*) (Berhampore). ,, Otto Harry Stursberg (Berhampore).

(*a*) All District Magistrates for the time being, Deputy Commissioners of the non-regulation Provinces and Extra Assistant Commissioners, Sonthal Parganas.
(*b*) Licensed to solemnize marriages within the Presidency of Fort William in Bengal.
° All Ministers of Religion authorized to solemnize marriages under the Indian Christian Marriage Act. XV of 1872, are Registrars of Births and Deaths under Act VI of 1886.

LIST OF OFFICERS APPOINTED UNDER THE MARRIAGE ACT, XV OF 1872.

District.	Marriage Registrars (a) under section 7.	Ministers licensed under section 6, Part I, to solemnize marriages.	Persons licensed under section 2, Part I, to grant marriage certificates to Native Christians.
10. Jessore ...	.....	Revd. John Reid° (Jessore)	Revd. John Reid° (Jessore).
			,, Prasanna Kumar Biswas° (Daulatpur).
11. Khulna ...	.....	Revd. William Wishart Milne.°	
		Babu Nagendra Nath Biswas°	Babu Ram Charan Sarkar.°
		Revd. Chandra Kanto Biswas	
12. Eastern Bengal.	.....		Revd. J. W. Roberts.
			James Jay Mohan Ray.
		Revd. W. Barry ...	Revd. W. Barry.
		,, O. O. Williams, B.SC. (Lond.).	,, O. O. Williams, B.SC. (Lond.).
		,, A. E. Summers ...	,, A. E. Summers.
		,, John Jones ...	,, John Jones.
		,, Robert Evans ...	,, Robert Evans.
		,, John Pengwern Jones	,, John Pengwern Jones.
		,, John Ceredig Evans ...	,, John Ceredig Evans.
		,, Robert Jones (c) ...	,, Robert Jones (c)
		,, Edward Williams ...	,, Edward Williams.
		,, William Morgan Jenkins.	,, William Morgan Jenkins.
		,, Edward Hugh Williams.	,, Edward Hugh Williams.
		,, John Gerland Williams	,, John Gerland Williams.
		,, George Russell Jarvie	,, George Russell Jarvie.
		,, J. M. Harries Rees ...	,, J. M. Harries Rees.
		,, T. D. Williams, Narayanganj (on leave)	,, T. D. Williams.
		,, T. Barber ...	,, T. Barber.

(a) All District Magistrates for the time being, Deputy Commissioners of the non-regulation Provinces and Extra Assistant Commissioners, Sonthal Parganas.
(c) Recipient of Kaisar-i-Hind Medal (second class).
° All Ministers of Religion authorized to solemnize marriages under the Indian Christian Marriage Act, XV of 1872, are Registrars of Births and Deaths under Act VI of 1886.

LIST OF OFFICERS APPOINTED UNDER THE MARRIAGE ACT, XV OF 1872.

District.	Marriage Registrars (a) under section 7.	Ministers licensed under section 6, Part I, to solemnize marriages.	Persons licensed under section 9, Part I, to grant marriage certificates to Native Christians.
13. Dacca ...	.....	Revd. Peter Noble.*	
		,, Harold Bridges.	
14. Bakarganj ...	.....	Revd. William Carey (Barisal).	
			Ananda Lal Sarkar.
		,, John Donald Raw ...	John Haldar.
			The pastors for the time being of the Baptist Mission Church at Dhamsur in Bakarganj.
15. Mymensingh	.....	Revd. Gobinda Chandra Daring	
	Revd. Hedley John Sutton.	.....	Revd. Dinerg Sangma.
		,, H. J. Sutton.	,, H. J. Sutton.
		,, Percy Charles Nall ...	,, Percy Charles Nall
			,, Naban Marak.
		,, Loraine Barber (Susang)	,, Loraine Barber (Susang).
16. Faridpur ...	Revd. Dr. C. S. Mead.		
	,, Shashi Bhushan Basu.	Hira Lal Singh.	
			Pastor Kailash Chandra Haldar.
			,, Akshay Kumar Kristodas. (c)
			The Pastors for the time being of the Baptist Mission Church at Dighalya in Faridpur.
		Revd. F. E. Paice.	Revd. F. E. Paice.

(a) All District Magistrates for the time being, Deputy Commissioners of the non-regulation Provinces and Extra Assistant Commissioners, Sonthal Parganas.
(b) Licensed to solemnize marriages within the Presidency of Fort William in Bengal.
(c) Licensed to grant certificates of marriages between Native Christians in the Presidency of Fort William in Bengal.
* All Ministers of Religion authorized to solemnize marriages under the Indian Christian Marriage Act. XV of 1872, are Registrars of Births and Deaths under Act VI of 1886.

LIST OF OFFICERS APPOINTED UNDER THE MARRIAGE ACT, XV OF 1872.

District.	Marriage Registrars (a) under section 7.	Ministers licensed under section 6, Part I, to solemnize marriages.	Persons licensed under section 9, Part I to grant marriage certificates to Native Christians.
17. Chittagong ...	.....	Revd. W. J. L. Wenger† ...	Revd. W. J. L. Wenger.†
18. Tippera ...	.....	Revd. John Tackle (on leave) „ Walter Frederick White (Brahmanbaria).	Revd. John Tackle (on leave). „ Krishna Chandra Ray (Comilla).
19. Noakhali ...	.....	.....	
20. Rajshahi ...	.....	Revd. William John Hamilton.	Revd. William John Hamilton.
21. Dinajpur ...	.....	Revd. A. E. Summers. „ Robert William Edmeads	Revd. A. E. Summers (on furlough). Pastor Jalpa Soren. Babu Mohendra Lal Sarkar. Babu Rasik Lal Shaha. „ Madhab Chandra Sarkar. Revd. Robert William Edmeads.
22. Jalpaiguri ...	.....	.....	Revd. Naiman. Revd. Percy Knight.
23. Rangpur ...	Revd. Stanley Griffiths Woollard.	.....	Revd. Stanley Griffiths Woollard.
24. Pabna ...	.....	.....	Babu Kailash Kristo Das. „ Upendra Kumar Das.
25. Malda ..	.....	Revd. Priya Nath Santh.	.....
26. Bogra ...	.....	.....	Rev. Howard William Cover.
27. Darjeeling ...	.....	Surjman Henry Mukhea.°	Revd. Jasbir Philip.° „ Dyongshi.° „ Namthak.° „ Ganga Prasad Pradhan.° „ Temba Saring.°

(a) All District Magistrates for the time being, Deputy Commissioners of the non-regulation Provinces and Extra Assistant Commissioners, Santhal Parganas.

° All Ministers of Religion authorized to solemnize marriages under the Indian Christian Marriage Act, XV of 1872, are Registrars of Births and Deaths under Act VI of 1886.

† Is not a Registrar of Births and Deaths under Act VI of 1886.

LIST OF OFFICERS APPOINTED UNDER THE MARRIAGE ACT, XV OF 1872.

Marriage Registrar for Eastern Bengal districts.

Revd. J. W. Roberts.

LIST OF MARRIAGE REGISTRARS UNDER ACT III of 1872.

1. Town of Calcutta—

Babu Kumud Bihari Sen (3-5-1898).
" Barada Kanta Bose (30-3-1906).
" Sundari Mohan Das (30-3-1906).
" Dwijendra Nath Pal (30-3-1906).
" Satyendra Nath Sen (19-9-1911).
" Lalit Mohan Das (9-11-1916).

2. Suburbs of Calcutta—

Babu Kumud Bihari Sen (3-5-1898).
" Dwijendra Nath Pal (20-8-1907).

3. Burdwan—

Babu Binod Bihari Bose (16-2-1904).

4. Midnapore—

Babu Bipin Bihari Sasmal for Contai subdivision (24-5-1907).

5. Howrah—

Babu Sharat Kumar Das (8-9-1905).
" Ekkari Singh Ray (8-9-1905).

6. 24-Parganas—

Babu Barada Kanta Bose (30-3-1906).
" Sundari Mohan Das (30-3-1906).
" Basanta Kumar Chandhuri, M.A.
" Dwijendra Nath Pal (20-8-1907).
" Satyendra Nath Sen (19-9-1911).

7. Dacca—

Babu Satish Chandra Ghosh (3-11-1902).

8. Mymensingh—

Babu Sashi Kumar Basu (7-2-1893).

9. Faridpur—

Babu Sashi Bhushan Mitra (14-6-1906).

10. Bakarganj—

Babu Binoy Bhusan Gupta (18-8-1916).

11. Chittagong—

Babu Harish Chandra Datta (26-7-1904).

12 Tippera—

Babu Rajani Nath Nandi, B.L. (14-10-1908).

13. Bogra—

Babu Sudhir Chandra Chatarji, L.M.S.

14. Pabna—

Babu Jala Dhar Sarkar (21-1-1893).

15. Darjeeling—

Dr. Bepin Bihari Sarkar.

Ex-officio Registrars—

Registrar of Calcutta, the District Sub-Registrars of Dacca, Mymensingh, Faridpur, Barisal, Chittagong, Comilla, Noakhali, Rajshahi, Dinajpur, Jalpaiguri, Rangpur, Bogra, Pabna, Malda, Alipore, Jessore, Khulna, Krishnagar, Suri, Burdwan, Hooghly, Howrah, Midnapore, Bankura, Berhampore and Darjeeling, and the Sub-Registrar of Amta are Marriage Registrars under Act III of 1872.

REGISTRARS OF BIRTHS AND DEATHS UNDER ACT VI OF 1886.

(1) All Sub-Registrars at head-quarters stations of districts are *ex-officio* Registrars of Births and Deaths within the jurisdiction of the Magistrate of the district and Registrar of Assurances, Calcutta, Registrar of Darjeeling.

(2) Sub-Registrars of Serampore (district Hooghly) ; Asansol, Raniganj (district Burdwan) ; Chuadanga and Meherpur (district Nadia) ; Behala, Baruipur, Sealdah, Cossipur, Khardaha (now at Barrackpore) ; Diamond Harbour (district 24-Parganas) ; Sirajganj (district Pabna) ; Saidpur, Goalundo and Madaripur (district Faridpur) ; Kurseong, Siliguri and Kalimpong (district Darjeeling) ; Narayanganj (district Dacca) ; and Chandpur (district Tippera) within their respective jurisdictions.

(3) All Ministers of religion in Bengal districts who are licensed to solemnize marriages under the Indian Christian Marriage Act, XV of 1872, for their respective congregations and in respect of persons for whom they may perform the offices of baptisms or burials.

Revd. S. G. Woollard (in Rangpur), Revd. Edward Holiday Owen (Darjeeling), the pastors of the Baptist Mission Church at Dhamsur in Bakarganj and that of the Baptist Mission Church at Dighaliya in Faridpur.

COMMITTEE FOR THE SUPERVISION OF MUHAMMADAN REGISTRARS IN BENGAL.

1.	Inspector-General of Registration, Bengal	President.
2.	Nawab A. F M. Abdur Rahman, Khan Bahadur	Member.
3.	„ Seraj-ul-Islam, Khan Bahadur	„
4.	The Hon'ble Nawab Saiyid Nawab Ali Chaudhuri, Khan Bahadur ...	„
5.	Nawab Khwaja Muhammad Yusuf, Khan Bahadur	„
6.	Nawabzada Muhammad Abdullah	„
7.	The Hon'ble Z R. Zahid Suhrawardy, M.A., B.L. (Bar-at-Law)	„
8.	Mr. Abdul Karim Abu Ahmad Ghaznavi	„
9.	The Hon'ble Mr. A. K. Fazlul Haq, M.A., B.L.	„
10.	Khan Bahadur Maulvi Muhammad Ibrahim	„
11.	Maulvi Muhammad Musa	„
12.	Maulvi Saiyid Abdul Jabbar Chaudhuri	„
13.	Maulvi Musharraf Hossain Khan Bahadur	„
14.	Maulvi Mazharul Anwar Chaudhuri	„
15.	Maulvi Muhammad Ismail Khan Chaudhuri	„

MUHAMMADAN REGISTRARS AND KAZIS.

Name.	Jurisdiction.
	BURDWAN.
Maulvi Saiyid Hamid-ullah	Burdwan (thana).
„ 'Abdul Wadud	Khandaghosh (thana).
„ 'Abdur Rashid	Satgachia (thana).
„ Abul Kasem *	Raona (thana).
„ Muhammad Ismail	Sahibganj (thana).
„ Chaudhuri Muhammad Asghur ...	Ausgram (thana).
„ 'Abdul Mannan	Katwa (thana).
„ Muhammad Abdul Halim	Mangalkot (thana).
„ Muhammad Isa	Kalna (thana)
„ Saiyid Sultan Ali *	Galsi (thana).
„ Muhammad 'Abdur Rahman ...	Purbasthali (thana).
„ Abul Husain	Jamalpur (thana).
„ Hafiz Muhammad Ahsan	Raniganj with Asansol, and Kaksa (thanas)
„ Mumayyiz-ul-Hakk	Manteshwar (thana).
„ Saiyid Sadullah	Ketugram (thana).

*Liable to pass Departmental Examination.

MUHAMMADAN REGISTRARS AND KAZIS.

NAME.	Jurisdiction.
Birbhum.	
Maulvi 'Abdul Kabir	Suri, Bolpur, Muhammadbazar, Illambazar and Sainthia (police-stations).
,, Saiyid Muhammad Mas'ud	Rampur Hât and Mayureshwar (thanas).
Khan Bahadur Muhammad Ahsan Husain ...	Rajnagar with Dubrajpur, and Khoirasole (police-stations).
Maulvi Saiyid Ahsan-ul-Karim	Nanoor and Labpur (thanas), with head-quarters at Balghani.
,, Saiyid Hashmat 'Ali	Nalhati and Murarai (thanas).
Bankura.	
Maulvi Lutfar Rahman	Indas, Sonamukhi, Kotalpur and Vishnupur (thanas).
Midnapore.	
Maulvi Sadar-ud-din Ahmad	Midnapore, Kharakpore, Salbani, Danton, Narayangarh, Binpur, Jhargram and Gopiballabhpur (thanas).
,, Saiyid Jawad Ali (on leave)... ...	Panskura and Debra, Sabang (thanas).
,, Mufakharal Hussain offg.	
,, Abdul Wahhab-ul-Qadiri	Keshpur (thana).
,, Saiyid Shah Hamid Ali	Ghatal, Chandrakona and Daspur (thanas).
,, Hasnur Rahman	Garhbeta (thana).
,, Amin-ud-din Ahmad	Tamluk and Sutahata (thanas).
,, Shaikh Nasir-ud-din Muhammad ...	Contai and Ramnagar (thanas).
,, Mir Khadim 'Ali	Maslandpur, Nandigram and Mahisadal (thanas).
,, Anisur Rahman Ahmed	Pataspur and Egra (thanas).
,, Nasir-ud-din	Bhagavanpur and Khajri (thanas).
Hooghly.	
Maulvi Saiyid Husain Shirazi*	Hooghly, Polba and Balagarh (thanas).
,, Muhammad Mohsin	Hooghly, Polba and Balagarh (thanas).
,, Khandkar Ali Naqi†	Pandua and Dhaniakhali (thanas).
,, Saiyid Kanait Husain	Haripal and Jangipara (thanas), with head-quarters at Belpore.
,, Abdul Muttalib	Arambagh, Goghat and Khanakul (thanas), head-quarters Arambagh.
,, 'Abdul Majid	Serampore, Singur and Chanditala (thanas).
Howrah.	
Maulvi Nurul Anam	Amta, Bagnan, Ulubaria and Syampur (thanas), with head-quarters at Ulubaria.
Qazi Rafi-'ud-din Ahmad	Howrah, Bantra, Golabari, Sibpur, Bally and Liloouh (police-stations),
Maulvi Amanat-ullah	Jagatballabhpur, Panchla, Domejur, Jagacha and Sankrail (police-stations).

* For Shia sect.
† Liable to pass Departmental Examination.

MUHAMMADAN REGISTRARS AND KAZIS.

NAME.	Jurisdiction.
24-Parganas.	
Maulvi Muhammad Ya'qub ...	... Bhawanipur, Alipore and Ballygunge, Tollyganj suburbs.
,, Hafiz Muhammad 'Abdul Hamid	... Maniktala, Beliaghata and Intally (thanas).
,, Khair-ul-Anam	... Baranagore, Chitpur, Cossipur and Ultadanga (thanas).
,, 'Ali Akram	... Watganj, Ikbalpur and Garden Reach at Kidderpore, the suburbs of Calcutta and thana Hastings in Calcutta.
,, Saiyid Nur-ul-Huda ...	... Barrackpore, Khardaha, Titagarh and Nawpara.
,, Mazhar-ul Haq ...	... Barasat, Habra and Diganga (thanas).
,, Nur Ahmad	... Baruipur, Jaynagar, Matla, Sonarpur.
Hafiz Nazir Ahmad	... Tollyganj, Vishnupur and Budge-Budge.
Khan Bahadur Ghulam Qasim ...	... Basirhat, Baduria, Haroa, Hasanabad, Sadeskhali and Swarupnagar.
Maulvi Abdul 'Azim	... Dum-Dum and Bhangore (thanas).
Khan Bahadur Zahir-ud-din Ahmad	... Naihati (thana).
Maulvi Abdul Jabbar	... Beniapukur (thana).
,, Muhammad Ibrahim ...	... Diamond Harbour, Magrahat, Fultah, Kulpi and Mathurapur (thanas).
,, Shaikh Abu Nasr Gilani*† ...	... Baranagar, Cossipur, Chitpur, Ultadanga, Maniktola, Beliaghata, Intally, Baniapukar, Ballygunge, Bhowanipur, Tollyganj, Alipore, Watganj, Garden Reach, Ekbalpur.
Calcutta.	
Maulvi Shaikh Abu Nasr Gilani*† ...	... 18 Wards of Calcutta, viz., (1) Shampukur, (2) Kumartooly, (3) Burtola, (4) Sukea Street, (5) Morchipara, (6) Jorasanko, (7) Jorabagan, (8) Burrabazar, (9) Colootolah, (10) Bowbazar, (11) Puddopukur, (12) Waterloo Street, (13) Fenwick Bazar, (14) Taltala, (15) Elliot Road, (16) Park Street, (17) Victoria Terrace, (18) Hastings.
,, Abdul Muhaimin ...	... Sukea Street, Moocheepara Shampukur, Burtola and Jorabagan, Bow Bazar (p.-s.)
,, Saiyid Maqbul Ahmad ...	... Barabazar, Waterloo Street and Jorasanko (p.-s.).
,, Muhammad Tahir ...	... Taltala and Park Street (p.-s.)
Nadia.	
Maulvi Muhammad Khurshid 'Ali ...	... Kumarkhali (thana).
,, Ifaz-ud-din Ahmad ...	... Kushtia, Mirpur and Daulatpur (thanas) and Damukdia (outpost).
,, Saiyid Muhammad Fazul-ur-Rahman	... Krishnagar, Chapra, Hanskhali, Kaliganj and Nakasipara (thanas).
Vacant.	Tehatta, Karimpur, Meherpur and Gangan (thanas).
,, Md. Abdul Mannan (offg.)	
,, Abu Fazl Abdul Bari ...	... Santipur, Ranaghat and Chakdaha (thanas).
,, Abdul Khaliq	... Chuadanga, Damurhuda and Alamdanga (thanas).
Murshidabad.	
Maulvi Muhammad Abdul Wahid ...	... Sujaganj, Beldanga, Daulatabad and Noada (thanas).
,, 'Ubaid-ur-Rahim ...	... Ramnagar, Dumkul and Hariharpara (thanas).
,, Khundkar Mehdi Hasan ...	... Gokarana, Bharatpur, Kandi, Barwan and Khargaon (thanas) at Sijgram.

* For Shia sect.
† Liable to pass Departmental Examination in Muhammadan Law.

MUHAMMADAN REGISTRARS AND KAZIS.

Name.	Jurisdiction.
Murshidabad.	
Maulvi Muhammad Abul Hasanat ...	... Murshidabad, Bhagwangola and Jiagunj (p.-s.).
,, Muti'ur Rahman ...	... Sagardighi and Nabagram (p.-s.)
,, Saiyid Shahabaz' Ali ...	... Lalgola, Mirzapur, Raghunathganj and Shamshirganj and Sooty (thanas).
Mirza Saiyid Asad-ullah Jalal-ud-din*	... Murshidabad, Sagardighi, Bhagwangola, Navagram and Jiagunj (thanas).
Jessore.	
Maulvi Muhammad Momrez† ...	.. Monirampore (thana) at Mujganni.
,, Muhammad Raqib-ud-din ...	... Jessore (thana).
,, 'Abdul Hamid	... Magura and Salikha (p.-s.).
,, 'Abdur Rauf	... Kotchandpur (thana).
,, Ihsan 'Ali	... Salkopa and Jhenida and outpost Harinakundu.
,, Shariat-ullah	... Jhikargacha and Keshabpur (thanas).
,, 'Saiyid 'Abdul Karim ...	... Alfadanga and Lohagara (police-stations).
,, Muhammad 'Abdul Hai ...	.. Kaliya (thana).
,, Muhammad Abdur Rahman	.. Narail and Abhoynagur (police-stations).
,, Abdul Wahed†	... Sripur (p -s.) at Dariapur Bazar.
Khulna.	
Maulvi Saiyid Khelafat Husain† ...	... Khulna p.-s. and Baitaghata (thanas).
Qazi Muhammad Hezb-ullah ...	... Dumuria and Paikgachha (thanas).
Maulvi Fazl-ur-Rahman ...	... Kalaroa (thana).
,, 'Abdul Khaliq Khundkar ...	... Magura, Satkhira, Asasuni and Kaliganj (thanas).
,, 'Abdul Majid	... Morelganj (thana).
,, 'Abdul Latif	... Mollahat (thana).
,, Abdus Sattar	... Rampal (thana).
Maulvi Nawab-ud-din Ahmad ...	... Bagerhat (thana).
,, Gulzar Ahmad	... Fultala (p.-s.).
Dacca.	
Maulvi 'Abdur Rauf	... Lalbagh (Kotwali) and Keraniganj (thanas).
,, Saiyid Muhammad Malih ...	... Narayanganj (thana).
,, Muhammad Mohsen ...	... Lohajung (independent outpost).
,, Muhammad Abdul Kuddus ...	... Kapasia and Kaliganj (stations).
,, Abdul Ghaffur	... Raipura (station)
,, Saiyid Abdus Samad ...	... Nawabganj (Jalal) (station).
,, Saiyid Abdul Haq ...	... Kaliakair and Dhamri (police-stations).
,, Abdul 'Aziz II	... Munshiganj and Tangibari (police-stations).
,, Maulvi Raushan Ali ...	... Rajabari (police-station).
,, Istamdade Haidar ...	... Srinagar (thana).
,, Said-ud-din Ahmad ...	... Manikganj (station).
,, Muhammad Qudrat-ullah ...	... Seal and Aricha (police-stations).
,, Abdul Latiff II ...	... Harirampur (station).
,, Ilahi Baksh	... Rupganj (police-station.)
,, Abdul 'Aziz I ...	... Manahardi (ditto).
,, 'Abdul Latif I	... Narsinghdi (ditto).
,, Muhammad Mohabat Ali ...	... Sabhar (ditto).

* Shia sect.
† Liable to pass Departmental Examination.

MUHAMMADAN REGISTRARS AND KAZIS.

NAME.	Jurisdiction.
Mymensingh.	
Maulvi Hafiz Muhammad Abdul Mannan ...	Certain villages in thana Iswarganj at Dattapara.
Saiyid Abdus Samad	Ditto ditto Gauripur.
,, Saiyid Muzaffar-ud-din Ahmad ...	Kendua (p.-s.).
,, Saiyidur Rahman	Muktagacha (station).
,, Muhammad Abdur Rahman ...	Netrakona (do.) (excluding the outpost of Barhatta).
,, 'Abdul Khaliq	Durgapur (do.).
,, Muhammad Ashraf Ali Khan ...	Phulpur (police-station).
,, Saiyid Abul Hussain Muhammad Ali ...	Tangail (ditto)
,, Sayed Abulkhair Muhammad Abdul Wadud	Jamalpur (thana).
,, Muhammad Ismail	Dewanganj (do.)
,, Aftabuddin	Thana Kotwali, without the police-station Trisal.
,, Muhammad Quazim-ud-din	Sherpur (station).
,, Saiyid Gawsur Reza	Trisal (police-station).
,, Samiruddin Ahmed	Haluaghat ditto)
,, 'Abdul Hakim Khan	Kishorganj (Bwlye).
,, Hakim Halim-ud-din Ahmad ...	Gafargaon (thana).
,, Abdur Rahman Ahmed	Gopalpur (police-station).
,, Muhammad Abdul Hai	Madhupur (ditto)
,, Saiyid Nurul Huda (on leave) ...	Bajitpur (police-station).
,, Nurul Haq	Bhairab (ditto).
,, Hakim Afsar-ud-din Ahmad ...	Nikli (Kathiadi) (station).
,, Sayid Abdul Halim	Kalihati (police-station).
,, Naibuddin	Ghatail (ditto).
,, Wahibullah	Nalitabari (thana).
,, Nawab 'Ali	Nandail (station).
,, Badiur Rahaman	Karimganj (Badla police-station and Khudirjangal villages in police-station Kishorganj).
,, Abdul Basit Khan	Nagarpur (police-station).
,, Muhammad Muazzam Khan on leave ...	Phulbaria (thana).
,, Nazmul Haq Khan (acting).	
,, Saiyid Fahimuddin	Barhatta (police-station), with head-quarters at Mohanganj.
,, Muhammad Ismail (on leave) ...	Astagram (police-station).
,, Abdul Basir (offg.).	
,, Abu Muhammad Mowaiz	Sharishabari (police-station).
,, Muhammad Sultan Khan	Bashail (ditto).
,, Saiyid Abul Mansur	Mirzapur (ditto).
,, A. K. M. Fazlul Haq*	Bhaluka (ditto).
,, Muhammad Abdul Wahab* ...	Khaliajuri (ditto) experimental for two years from 3rd April 1916.
Faridpur.	
Maulvi Nisar Hussain Khundkar	Palang (police-station).
,, Nuruddin Ahmed	Bhedarganj and Goshairhat (police-stations).
,, Saiyid Muhammad Ali	Faridpur (Kotwali) and station Awanpur.
,, A. M. Md. Abdur Rahaman* ...	Bhushna (station).
,, Fasihuddin Ahmad	Bhanga (station).
,, Mukhlisur Rahman	Goalundo (station).
,, Qazi Fazlul 'Azim	Pangsa (Kamarpur) (station).

* Liable to pass Departmental Examination.

MUHAMMADAN REGISTRARS AND KAZIS.

NAME.	Jurisdiction.
Faridpur.	
Khan Sahib Janab Ali Khan	Madaripur and Gopalpur (police-stations).
Maulvi Nur Ahmad	Gopalganj (station).
,, Khadim Husain Khundkar, Khan Sahib	Muksudpur (police-station).
,, Muhammad Adil-ud-din	Sibchar (ditto.).
,, Kazi Abdul Majid	Baliakandi (ditto.).
,, Saiyid Ahmad	Kotalipara (ditto.).
,, Anwar Ali Khundkar	Nagarkanda (ditto).
,, Abu Wase Raziuddin Ahmed on leave ...	Sadarpur (ditto).
,, Hafizuddin Ahmad (acting).	
,, Jasimuddin Ahmed*	Rajore (ditto).
,, Abdus Samad*	Kasiani (ditto).
Bakarganj.	
Maulvi Muhammad Ubaid-ul Ghani ...	Kotwali and Bakarganj (stations).
,, ,, Kamal	Nalchiti, Jhalakati (station) and Rajapur (outpost).
,, Mufizur Rahman	Gournadi (station).
,, Lutfur Rahman	Pirojpur (do.).
,, Ifaz-ud-din Ahmad	Bhola (station) and Daulatkhan.
,, Muhammad Ghyas-ud-din	Matbaria (thana).
,, ,, Ishaq	Bhandaria (station).
,, ,, Ishaq*	Patuakhali (thana).
,, Abdul Karim	Mehendiganj (station) and Badartuni (police-station).
,, Muhammad Abdul Latif	Barhanuddin (station) and outpost Tamizuddin Havildar's Hât.
,, Saiyid 'Abdul Qadir	Sarupkati (station) and outpost Nazirpur.
,, Muhammad Ismail	Bauphal (station).
,, Abdul Hadi	Amtali (police-station).
,, Abdul Gafur	Barguna (police-station).
,, Muhammad Israil	Galachipa (thana) (for two years from 23rd November 1914).
Chittagong.	
Maulvi Najmul Huda	Raojan (station).
,, Asad 'Ali	Rangania (police-station).
,, Muhammad Naqi	Chittagong (station).
,, Tamijuddin	Certain mouzas in thana Mirsarai.
,, Saiyid Abdul Hamid	Certain mouzas in thana Mirsarai with head-quarters at Zowarganj.
,, Mahabbat 'Ali	Phatikchari (station).
,, Amir Hussain	Police-station Sitakund.
,, Hafiz-ur-Rahman	Hathazari (thana).
,, Abdul Aziz	Patiya (thana).

*Liable to pass Departmental Examination

MUHAMMADAN REGISTRARS AND KAZIS.

NAME.	Jurisdiction.
Chittagong.	
Maulvi Ahmad-ul-Haq	Boalkhali (police-station) and certain mouzas in thana Patiya.
" Muhammad 'Abdul Majid	Anwara (independent outpost).
" 'Abdul 'Aziz	Adhunagar.†
" 'Abdus Samad	At Satkania.△
" Ghulam Subhan	Banskhali station and outpost Jaldi.
" Muhammad Ismail II	Chakaria (station).
" Anwar Ali	Kutubdia (police-station).
" Maulvi Mazharul Haq	Ramu (police-station).
" Abdur Rahman	Teknaf (station).
" Mahfuz Rabbi	Cox's Bazar (police-station) and Maiskhali (station).
Tippera.	
Maulvi 'Abdul Khan	Kasba (station).
" Nasir-ud-din Ahmad	At Gunabati (certain villages in thana Chandagram).
" Ahmadullah	Certain villages in thana Chaudagram.
" Manwar 'Ali	Laksam (station).
" Saiyid Muhammad Rashid (offg.) ...	At Daudkandi (certain villages in the police-station Daudkandi).
" Hafiz Muhammad Mahmood ...	Brahmanbaria (station).
" Muhammad Abdus Subhan ...	Nabinagar (do.).
" Muhammad Amjad Ali	Chandina (do.).
" Safatullah	Hajiganj (thana).
" Saiyid Ahmad Bakht	Comilla (thana).
" Muzaffar Ahmad	Moradnagar (station).
" Muhammad Jamal Khan	Matlab (do.).
" Abdul Bari*	Chandpur (thana).
" Saiyid Muhammad Ismail	Nasirnagar (police-station).
" Muhammad Abbas Ali	Homna (police-station).
" Muhammad Ismail Khan	At Hossaindi (certain villages in the police-station Daudkandi).
Noakhali.	
Maulvi Munir-ud-din Ahmad	Sandip.
" Muhammed Abdullah*	Lakhmipur (police-station).
" Minhaj-ud-din	Begamganj (ditto.).
" 'Ali Ahmad	Hatia station (excluding the outpost of Ramgati).
" Nasir-ud-din Ahmad	Chhagalnaiya (station).
" Muhammad Sirajul Haq	At Sudharam (certain mouzas in thana Sudharam).
" Tabarak Ali	At Farashganj (certain villages in thana Sudharam).
" Abdul Hakim	Feni (station excepting the mouzas which formed the jurisdiction of the Muhammadan Registrars of Mutiganj and Daganbhuiyan).
" Shamsul Islam	Ramganj (station).
" 'Abdul Majid	Daganbhuiyan (villages in thana Feni).

* Liable to pass Departmental Examination.

† At Adhunagar with jurisdiction over the villages mentioned in the list within the thana of Satkania.

‡ *Ex-officio* Sub-Registrar.

△ Excluding the villages which form the jurisdiction of the Muhammadan Registrar of Adhunagar.

MUHAMMADAN REGISTRARS AND KAZIS.

NAME.	Jurisdiction.
Noakhali.	
Maulvi Raihanuddin Ahmad (on leave) ...	Corsiddhi (Nanda Bhuiyan's Hât) (station).
,, Muhammad Saiyid (acting)	
,, 'Abdullah	Parsuram (outpost).
,, Mukhlis-ur Rahman ...	Ramgati (do.).
,, Muhammad Abdul Qadir ...	Raipura (police-station).
,, Abdul Majid ...	Senbagh (ditto.).
,, Nazir Ahmad ...	Companyganj (Bamni) (police-station).
,, Muhammad Hanif ...	At Mutiganj (village in thana Feni).
,, Anwarwallah (a) ...	At Kabirhat having jurisdiction over certain mouzas in thana Sudharam.
Rajshahi.	
Maulvi Muhammad Isa ...	Nator, Burigram and Singra (stations).
,, Abdur Rauf * ...	Charghat and Lalpur (thanas) (experimental for three years from 24-6-1912)+ 1 year + 1 year.
,, Mir Mansur Ali ...	Boalia, Godagari, Tanor, Bagmara and Nahatta.
,, Abdul Hamid ...	Nangaon and Panchupui (thanas), Badalgachi (police-station).
,, Matiur Rahman ...	Mahadebpur and Manda (thanas).
,, Abdul Majid ...	Puthia (thana) and Durgapur (outpost).
Dinajpur.	
Maulvi Kazi Abdul Jalil ...	Dinajpur (Kotwali) and Chinirbandar (police-station).
,, 'Muhammad Husain ...	Phulbari and Parbatipur (stations).
,, Muhammad Abdur Rashid ...	Rani-Sankali, Thakurgaon, Birganj and Pirganj (thanas).
,, Muhammad Musa on leave M. R. of Dinajpur (acting addition).	Kaliaganj, Raiganj and Banshihari (thanas).
,, Hafiz Ali	Patiram, Patnitola, Porsa and Gangarampur (stations).
,, Iman-ullah	Nawabganj (thana).
Jalpaiguri.	
Maulvi Ahmad Ali	Thanas Jalpaiguri, Raiganj, Pathgram and Maynaguri.
,, Muhammad Hasan Ali on leave	Damdim, Alipur Duars and Falakata (stations).
,, Muhammad Nazim (offg.).	
,, Tazim-ud-din Muhammad ...	Boda (station).
Darjeeling.	
Maulvi Mansural Haq*	Siliguri (thana).
Rangpur.	
Maulvi Abdul Aziz Khundkar ...	Mahiganj (thana).
,, Muhammad Abdul Ghafur ...	Nisbetganj, Kaliganj and Badarganj.
,, Afzaluddin Ahmad ...	Mithapukur (thana).
,, Kasimuddin Ahmad ...	Sadullapur (police-station).
,, Abdul Quddus	Nageswari (thana).
,, Rajab Ali	Gaibandha (police-station).
,, Nazir-ud-din Ahmad ...	Lalmonirhat (station).

* Liable to pass Departmental Examination.

MUHAMMADAN REGISTRARS AND KAZIS.

NAME.	Jurisdiction.
Rangpur.	
Maulvi Ahmad Ali	Dimla, (thana) with head-quarters at Khagakhairbari.
,, Zahurul Haq	Phulkumar (outpost).
,, Mufizuddin Ahmad	Ulipur station (excepting P.-S. Chilmari).
,, Muhammad 'Abdul Jalil Khundkar ...	Chilmari (p.-s.).
,, 'Abdul Karim	Nilphamari (thana).
,, Nasim-ud-din Ahmad	Sundarganj (station).
,, Muhammad Benazir	Pirganj (do.).
,, Muhammad-u'-Haq	Kurigram (do.).
,, Haider Ali	Kaliganj (thana).
,, Mahfuzar Rahman	Palasbari (outpost), with head-quarters at Chalitadaha.
,, Qazi Bashir-ud-din	Gobindganj (station) (excluding the outpost of Palasbari).
,, Bashiruddin Ahmed*	Jaldhaka (thana).
Bogra.	
Maulvi Muhammad Yakub	Bogra (thana).
,, Ali Ahmad	Shibganj (do.).
,, Saiyid Athar Hussain Ahmad ...	Sheriakandi (do.) with head-quarters at Noukhila.
,, Muhammad Habib-ur-Rahman Khundkar	Dhunat and Sherpur (thanas) with head-quarters at Sherpur.
,, Mumtazus Samad*	Adamdighi, Panchabibi (thanas) with head-quarters at Khanjanpur.
,, Mufiz-ud-din Ahmad	Khetlal (thana).
Pabna.	
Maulvi Nuruzzaman	Pabna (station) and Sara (independent outpost).
,, Abdul Fattah	Santhia (station) at Dulai.
,, Muhammad Yasin	Chatmohar (station).
,, Mizan-ur-Rahman	Ullapara (do.).
,, Siraj-ul-Haq	Raiganj (do.).
,, Mutiur Rahman	Sirajganj.
,, Saiyid Khurshed Alam	Mathura (station).
,, 'Ala-ud-din Ahmad	Shahazadpur (thana) with P.-S. Belkuchi.
Malda.	
Maulvi Muhammad Tegh Ali	Malda, Gajol, Nawabganj, Gomostapur, Englishbazar, Ratua, Kharba and Harishchandrapur (thanas).

* Liable to pass Departmental Examination.

PART XXIV.

BENGAL CIVIL MEDICAL DEPARTMENT.

OFFICE OF THE SURGEON-GENERAL WITH THE GOVERNMENT OF BENGAL.

Service.	Rank and Name.	Date of confirmation in the Civil Medical Dept.	Date of first commission.	Appointments, both substantive and officiating, and dates.	Salary of present appointment.	Remarks.
Y. M.	*Surgeon-General.*				Rs.	
31 0	Edwards, The Hon'ble William Rice, C.B., C.M.G., M.D., I.M.S.	1-4-1915	1-4-1886	*Surgeon-General with the Government of Bengal, 1-4-1915.	2,500	F. C. U. Appointment reserved for I. M. S. Officers. Administrative Medical Officer, E. B. Railway.
	Rai Sahib Mohendra Nath Bhattacharji.	.....	.....	Personal Asstt. to Surgeon-general with the Government of Bengal, 23-7-1912.	300—10—500	

LIST OF INDIAN MEDICAL SERVICE OFFICERS SERVING UNDER THE GOVERNMENT OF BENGAL.

Y. M.	*Lieutenant-Colonels.*				Rs.	
28 0	Anderson, Adam Rivers Steele, M.B., D.P.H., F.Z.S., I.M.S.	1-3-1893	30-3-1889	Civil Surgn., 1st class	1,300	On deputation, to mily. duty, 26-1-1916.
30 6	Green, Charles Robert Mortimer, F.R.C.S. (Eng.), D.P.H. (Camb.), M.D. (Durh.). (*d*).	26-6-1893	30-9-1886	*† Professor of Midwifery, Medical College, and Obstetric Physician and Surgn., Eden Hospl., Calcutta, 10-4-1908.	1,650	F. C. U. Mily. duty, 24-12-1916.

* Appointment in the gift of the Government of India.
† All full professorships in the Medical College (except those of Chemistry, Anatomy and Biology) are reserved for Commissioned Medical Officers. The tenure of the appointments of Principal and Professors, Medical College, is limited to 5 years, but may be extended by the Local Government for similar periods.
(d) Passed higher proficiency in Hindi.

BENGAL CIVIL MEDICAL DEPARTMENT.

List of Indian Medical Service Officers serving under the Government of Bengal.

Service. Y.	Service. M.	RANK AND NAME.	Date of confirmation in the Civil Medical Dept.	Date of first commission.	Appointments, both substantive and officiating, and dates.	Salary of present appointment.	REMARKS.
		Lieutenant-Colonels—contd.				Rs.	
29	6	Nott, Arthur Holbrook, M.D. (*b*)§	9-7-1896	1-10-1887	Civil Surgeon, 1st class.	1,450	On deputation, to mily. duty, 13-3-1915.
28	0	Calvert, John Telfer, M.B. (Lond.). M.R.C.P. (Lond.), D.P.H. (Camb.) (*b*)	9-7-1896	30-3-1889	*† Principal and Prof. of Medicine, Medl. College, Calcutta, and 1st Physician, College Hospti., 1-4-1912.	1,800	F. C. U.
29	6	Maynard, Frederic Pinsent, F.R.C.S. (Eng.), D.P.H., M.B. (Durh.). (*i*) (*b*)	16-9-1897	1-10-1887	*†Prof. of Ophthalmic Surgery., Medl Coll., Calcutta, and Ophthalmic Surgn., College Hospti., 21-11-1905, and Surgn.-Supdt., Mayo Hospti.	1,650	F. C. U. Granted an extension of the tenure of his apptt. for 5 years, from 19-11-1910. Further extension up to 31-3-1916 or until further orders.
26	2	O'Kinealy, Frederick ...	16-9-1897	31-1-1891	Surgeon.-Supdt., Presy. Genl. Hospti., Calcutta, 10-10-1913.	1,800	F. C. U.
25	8	Deare, Benjamin Hobbs, M.R.C.P. (Lond.), D.P.H. (Camb.). (*b*)	15-3-1898	28-7-1891	Prof. of Clinical Medicine and Materia Medica, Medl. College, Calcutta, and 2nd Physician, College Hospti., 7-4-1912.	1,550	F. C. U.
25	8	Bird, Robert, M.V.O., C.I.E., M.D., D.P.H. (Camb.), F.R.C.S. (Eng.), V.H.S.	15-3-1898	28-7-1891	*† Prof. of Surgery, Medl. Coll., Calcutta, and *ex-officio* Surgn. to the College Hospti., 12-5-1908.	1,550	F. C. U. Granted an extension of the tenure of his apptt. for 5 years, from 12-5-1913.
29	6	Buchanan, Walter James, C.I.E., M.D. (*b*)	16-6-1898	1-10-1887	Inspector-General of Prisons, Bengal, 3-7-1902.	2,000	
		Major.					
19	2	Gage, Andrew Thomas, M.B.	20-6-1898	28-1-1898	‡ Supdt., Royal Botanic Garden, Calcutta, and Lloyd Botanic Garden, Darjeeling, and of Cinchona Cultivation in Bengal, and Director of Botanical Survey in India, 31-7-1905.	1,300	On special duty under the Govt. of India, Deptt. of Rev. & Agri.

* Appointment in the gift of the Government of India.
† All full professorships in the Medical College (except those of Chemistry, Anatomy and Biology) are reserved for Commissioned Medical Officers. The tenure of the appointments of Principal and Professors, Medical College, is limited to 5 years, but may be extended by the Local Government for similar periods.
(*d*) Passed higher proficiency in Hindi. | § First class Civil Surgeon.
(*i*) Passed in Mundari. | ‡ Appointment in the gift of the Secretary of State.
(*b*) Passed in Bengali by the colloquial test.

BENGAL CIVIL MEDICAL DEPARTMENT.

Service.		Rank and Name.	Date of confirmation in the Civil Medical Dept.	Date of first commission.	Appointments, both substantive and officiating, and dates.	Salary of present appointment.	Remarks.
		List of Indian Medical Service Officers serving under the Government of Bengal.					
Y.	M.	*Lieutenant-Colonels*—concld.				Rs.	
23	8	Stevens, Cecil Robert, M.D. (Lond.), F.R.C.S. (Eng.). (*c*)	30-9-1898	29-7-1893	*†Prof. of Clinical and Operative Surgery, Medl. College, Calcutta, and Surgn. to the College Hospl., 17-6-1907.	1,500	Granted an extension of the tenure of his apptt. for five years from 16-6-1912. On deputation, to mily. duty, 24-11-1914.
23	8	Rogers, Sir Leonard, Kt, C.I.E., F.R.S., F.R.C.P., F.R.C.S. (Eng.), M.R. C.P., (Lond.), M.D. (Lond.).	3-3-1899	29-7-1893	*†Prof. of Pathology, Medl. Coll., and Bacteriologist to Government, 17-2-1906.	1,500 300 L.A. (D.A.)	F. C. U. Granted an extension of the tenure of his appt. for five years from 16-2-1911 + 5 years.
30	6	Hall, Edmund Alexander William, M.B., C.M.	2-4-1899	30-9-1886	Civil Surgeon, 1st class, 24-Parganas and Medl. Inspector of Emigrants (Colonial Emigration) 26-1-1916.	1,450 200 E. A. or D. A. 150 (D.A.)	
25	8	Wood, Harry Stotesbury, M.B., C.M. (*k*)	9-3-1900	28-7-1891	Civil Surgn., 1st class	1,350	On deputation, to mily. duty, 3-11-1915.
22	2	Gwyther, Arthur, M.B., F.R.C.S.E.	9-3-1900	29-1-1895	Civil Surgn., 2nd class	1,200	On leave for 2 years, from 10-10-1915, viz., priv. lv. for 2 mcs. and 2 days and furlo. for the remaining period. (on M. C.)
23	8	Newman, Ernest Alan Robert, M.D. (Cantab.). (*c*)	5-12-1900	29-7-1893	Civil Surgeon, 1st class (sub. *pro tem.*), Dacca, 18-11-1915.	1,200 100 A. A. 250 S.A. 200 L.A. 100 J.A. (D.A.)	
21	8	Waters, Ernest Edwin, M.D., M.R.C.P. (Lond.). (*c*)	5-12-1900	29-7-1895	Civil Surgn., 1st class sub. *pro tem.*), Howrah, 27-12-1915.	1,200 100 A. A. 100 L. A. 50 J. A. (D.A.)	
23	8	Mulvany, John (*b*) ...	21-6-1902	29-7-1893	Supdt., Central Jail, Alipore, 1-8-1912.	1,400	
21	2	Clemesha, William Wesley, M.D., D.P.H.	7-7-1902	29-1-1896	Sany. Commr., Bengal, 11-3-1910.	1,800	Gets allowance under Calcutta house allce. scheme. Sany. Commr. with the Govt. of India, 14-4-1915 (s. *p. t.*)
20	2	Lane, Clayton Arbuthnot M.D. (Lond.). (*b*)	24-3-1903	28-1-1897	Civil Surgeon, 1st class (sub. *pro tem.*), Hooghly.	1,200 100 A.A.	Offg: Civil Surgeon Serampore in addn.

* Appointment in the gift of the Government of India.
† All full professorships in the Medical College (except those of Chemistry, Anatomy and Biology) are reserved for Commissioned Medical Officers. The tenure of the appointments of Principal and Professors Medical College, is limited to 5 years, but may be extended by the Local Government for similar periods.
(*b*) Passed in Bengali by the colloquial test. | ‖ Holder of Kaisar-i-Hind Gold Medal.
(*c*) Passed high proficiency in Bengali. | (*k*) Passed in Manipuri, Beng. and Parvatiya (colloquial)
(*l*) Passed in Hindustani.

BENGAL CIVIL MEDICAL DEPARTMENT.

List of Indian Medical Service Officers serving under the Government of Bengal.

Service. Y.	Service. M.	RANK AND NAME.	Date of confirmation in the Civil Medical Dept.	Date of first commission.	Appointments, both substantive and officiating, and dates.	Salary of present appointment.	REMARKS.
		Major.				Rs.	
19	2	Rait, John Walter Forbes, M.B., B.S. (Lond.). (*a*)	26-2-1905	28-1-1898	Civil Surgeon, 2nd class	850	On deputation to mily. duty, 21-9-1914.
		Lieutenant-Colonel.					
21	2	Wilson, Roger Parker, F.R.C.S. (Eng.), D.P.H. (Camb.). (*a*)	21-7-1905	29-1-1896	Supdt., Campbell Medl. School and Hospital, Sealdah, 28-12-1913. Offg. Prof. of Clinical and Operative Surgery, Medl. College, Calcutta and Surgeon to the College Hospl. in addn., 11-3-1915.	1,800 300 A.A.	F. C. U.
		Major.					
17	8	McCay, David, M.D., R.U.I.	9-6-1905	27-7-1899	*(*b*) Prof. of Physiology, Medl. College, Calcutta, 9-6-1905.	1,150 300 L.A. 100 A. A. 200 Duty allce. 300*	Granted an extension of the tenure of his appt. for 5 years from 9-6-10 +5 years from 9-6-1915. Holding charge of the duties of the Resident Medl. Officer, Medical College Hospital, in addition, 18-9-1914. * From I. R. Fund.
		Lieutenant-Colonel.					
21	8	Windsor, Frank Needham, B.A., M.B., B.C. (Camb.), B.Sc. (Vict.) (*e*)	11-8-1905	29-7-1895	* Chemical Examiner, Bengal, and Prof. of Chemistry, Medl. College, Calcutta, 14-3-1911.	1,500	On deputation to mily. duty, 28-4-1915.
		Majors.					
17	2	MacGilchrist, Archibald Currie, M.A., M.D., D.SC., M.R.C.P. (Lond.). (*a*)	1-7-1906	27-1-1900	Civil Surgn., 2nd class.	850	On deputation to mily. duty, 4-11-1915.
14	8	Gourlay, Charles Aikman, M.A., M.D., CH.B., D.P.H. (*a*)	17-8-1906	26-7-1902	Civil Surgeon, 2nd class	750	On deputation to mily. duty, 1-9-1914.
		Lieutenant-Colonel.					
24	2	Parry, Edgar Rowe, M.B. (*a*) (*c*)	23-3-1907	30-1-1893	Supdt., Central Jail, Midnapore, 5-9-1912.	1,400	On deputation to mily. duty, 28-10-1914.
		Majors.					
17	2	Thurston, Edward Owen, M.B., F.R.C.S. (*a*)	5-6-1907	27-1-1900	Civil Surgeon, 2nd class	850	On deputation to mily. duty, 17-9-1914.

* Appointment in the gift of the Government of India.
(*a*) Passed in Bengali by the colloquial test.
(*b*) Professors of Physiology and Biology are permitted to avail themselves of the college vacation on the terms allowed to Educational officers. These two are at present the only non-practising Professors in Bengal.
(*c*) Passed in Bengali (colloquial) L. S.
(*e*) Debarred from private practice.

BENGAL CIVIL MEDICAL DEPARTMENT.

List of Indian Medical Service Officers serving under the Government of Bengal.

Service. Y.	Service. M.	RANK AND NAME.	Date of confirmation in the Civil Medical Dept.	Date of first commission.	Appointments, both substantive and officiating, and dates.	Salary of present appointment. Rs.	REMARKS.
		Majors.					
16	9	Coppinger, Walter Valentine, M.D. B.Sc., F.R.C.S.I. (Dub.). (*a*)	2-9-1907	28-6-1900	Civil Surgeon, 2nd class.	850	On deputation to mily. duty, 9-3-1915.
14	2	Goil, Dwarka Prasad, M.B., F.R.C.S.E. (*c*)	1-12-1908	31-1-1903	Civil Surgeon, 2nd class	750	On deputation to mily. duty, 23-10-1914.
15	9	Christian, John Beresford (*a*)	1-5-1909	27-6-1901	Civil Surgeon, 2nd class	750	On deputation to mily. duty, 18-11-1914.
16	9	Hamilton, William Gavin, D.H.P. (Camb.). (*a*)	9-9-1909	28-6-1900	Supdt., Central Jail, Dacca.	920	On deputation to mily. duty, 27-10-1914.
		Captain.					
11	2	O'Brien, Charles Richard, M.B. (*a*)	1-9-1910	1-2-1906	Civil Surgn., 2nd class	650	On deputation to mily. duty, 15-8-1914.
		Majors.					
17	8	Fry, Arthur Brownfield, M.D.	1-12-1910	27-7-1899	Spl. Dy. Sany. Commr. for Malaria Research, Bengal, 1-12-1910.	900 200 S.A.	On deputation to mily. duty, 21-10-1914.
12	7	Peebles, Alexander Spolding Mackie, M.D. (*a*)	15-7-1911	1-9-1904	Supdt., Central Lunatic Asylum, Berhampore, 24-7-1911.	650 400 S.A. 150 Addl. 75 J.A. Duty.	Offg. Civil Surgeon, Murshidabad, in addn., 25-9-1914.
		Captain.					
8	2	Jukes, Andrew Monro, M.D.	27-3-1913	30-1-1909	Dy. Sany. Commr., Presy. Circle, Bengal, 27-3-1913.	650 200 S.A.	Draws Calcutta house allowance. On deputation to mily. duty, 4-10-1914.
		Majors.					
18	8	Thompson, Frank Stuart Corbitt, M.B. (*a*)	28-8-1912	27-7-1898	Supdt., Presidency Jail	1,000	
15	2	Lloyd, Richard Ernest (*b*)	14-12-1913	29-1-1902	Profr. of Biology, Medl. College, Calcutta, 1-5-1909 (*s. p. t.*), 14-12-1913.	1,150 350 L.A. 100 A.A. 200 L.A. Duty.	F. C. U. Holding charge of the duties of Resdt. Medl. Officer Medl. College Hospl., in addn., 21-10-1914.
		Lt.-Col.					
20	2	*Woolley, Jasper Maxwell,* M.D.	27-11-1913	28-1-1897	.....	1,050	(*Tempy.*) *On deputation to mily. duty 26-10-1914.*

(a) Passed in Bengali by the colloquial test.
(b) Professors of Physiology and Biology are permitted to avail themselves of the college vacation on the terms allowed to Educational officers. These two are at present the only non-practising Professors in Bengal.
(c) Debarred from private practice.

BENGAL CIVIL MEDICAL DEPARTMENT.

Temporary Medical Officers.

Service. Y.	Service. M.	RANK AND NAME.	Date of transfer to the Civil Medical Dept.	Date of first commission.	Appointments, both substantive and officiating, and date.	Salary of present appointment.	REMARKS.
		Majors.				Rs.	
16	9	Mackelvie, Maxwell, M.B., F.R.C.S.E. (*a*)	March 1903	28-6-1900	.....	.....	On deputation to mily. duty, 19-9-1914.
15	9	Foster, Henry Bertram, M.D. (*a*)	22-5-1905	27-6-1901	Offg. Civil Surgeon, 2nd class, Darjeeling.	650 100 A.A. 100 J.A.	
15	2	Steen, Hugh Barkley, M.D.	1-2-1906	29-1-1902	Offg. Prof. of Midwifery, Medl. College, and Obstetric Physician and Surgeon, Medl. College Hospl., 24-12-1916.	A.A. 750 200 A.A.	
15	9	Moses, Owen St. John, M.D., F.R.C.S.E. (*a*)	22-3-1906	27-6-1901	Offg. Civil Surgeon, 2nd class Mymensingh, 28-1-1917.	750 100 A.A. 150 J.A.	
	8	Barnardo, Frederick Adolphus Fleming, M.B., F.R.C.S.E.	3-8-1906	26-7-1902	.....	...	On deputation to mily. duty, 16-8-1914.
15	2	Munro, David, M.B., F.R.C.S.E. (*a*)	12-10-1908	29-1-1902	.....	...	On deputation to mily. duty, 18-9-1914.
		Captain.					
11	2	Lee, Reginald Henry, M.B.	17-2-1909	1-2-1906	.....	...	On deputation to mily. duty, 18-8-1914.
		Major.					
14	7	Dutton, Hugh Reginald (*a*)	2-10-1909	1-9-1902	.....	...	On deputation to mily. duty, 9-8-1915.
		Captains.					
11	2	Godson, Charles Aubrey (*a*)	21-12-1905	1-2-1906	.....	...	On deputation to mily. duty, 14-8-1914.
11	2	Hume, Norman Haliburton, M.B. (*a*)	27-1-1910	1-2-1906	1st Resdt. Surgeon, Presy. Genl. Hospital, 8-11-1913 (sub. *pro tem.*).	1,000	Holding charge of the duties of 2nd Resdt. Surgeon in addn., 21-10-1914.
		Major.					
12	2	White, Arthur Denham, M.B.	23-3-1910	1-2-1905	.....	...	On deputation to mily. duty, 27-10-1914.

(*a*) Passed in Bengali by the colloquial test.

BENGAL CIVIL MEDICAL DEPARTMENT.

Temporary Medical Officers.

Service. Y.	Service. M.	RANK AND NAME.	Date of transfer to the Civil Medical Dept.	Date of first commission.	Appointments, both substantive and officiating, and date.	Salary of present appointment.	REMARKS.
		Majors.				Rs.	
14	7	Emslie-Smith, Harry, M.B.	...	1-9-1902	.....	...	On deputation to mily. duty, 14-8-1914.
12	7	Proctor, Alfred Henry, M.D. (*a*)	5-3-1911	1-9-1904	.....	...	On deputation to mily. duty, 12-8-1914.
		Captains.					
10	2	Harnett, Walter Lidwell, M.B., F.R.C.S.	...	2-2-1907	Surgeon to His Excellency the Governor of Bengal, 6-7-1914.	1,000	On deputation to mily. duty, 2-2-1916.
10	2	Sandes, John Drummond, M.B.	4-4-1911	2-2-1907	.....	...	On deputation to mily. duty, 11-8-1914.
9	8	Green-Armytage, Vivian Bartley, M.D.	1-6-1911	27-7-1907	.....	...	On deputation to mily. duty, 14-8-1914.
8	8	Lloyd, Reginald Broughton, M.B.	28-6-1912	1-8-1908	.....	...	On deputation to mily. duty, 21-10-1914.
9	2	Shorten, James Alfred, M.B.	23-5-1913	1-2-1908	.....	...	On deputation to mily. duty, 18-9-1914.
7	2	Mukherjee, Kalyan Kumar	5-12-1913	29-1-1910	Offg. Dy. Sany. Commr., Burdwan Circle, 8-12-1913.	...	On deputation to mily. duty, 2-10-1914.
10	2	Munro, Edmund Brodie, M.D.	5-3-1914	2-2-1907	.....	...	On deputation to mily. duty, 13-8-1914.
8	8	McNeill, Alister Argyll Campbell, M.B.	10-7-1914	1-8-1908	.....	...	On deputation to mily. duty, 15-8-1914.

	Date of re-employment.			
Major N. P. Sinha, I. M. S. (*Retired*).	20-1-1915	.....	Offg. Police Surgeon and Profr. of Medl. Jurisprudence Medl. College, Calcutta, 14-10-1915.	950 200 L. A. (Duty).	Draws also Calcutta house allowance.

(*a*) Passed in Bengali by the colloquial test.

MEDICAL COLLEGE HOSPITAL, CALCUTTA.

NAME AND RANK.	Date of present appointment.	Designation.	Pay.	REMARKS.
Lieutenant-Colonels.			Rs.	
Calvert, John Telfer, M.B. (Lond.), M.R.C.P. (Lond), D.P.H. (Camb.), I.M.S.	1-4-1912	† Principal and Professor of Medicine, Medical College, Calcutta, and First Physician, College Hospital.	1,800	Allowed to take consultation practice only.
Deare, Benjamin Hobbs, I.M.S.	7-4-1912	† Prof. of Clinical Medicine and Materia Medica, Medical College, and *ex-officio* Second Physician, College Hospital.	1,550	
Bird, Robert, M.V.O., C.I.E., M.D., F.R.C.S., I.M.S. V.H.S.	12-5-1908	† Profr. of Surgery, Medl. Coll., and *ex-officio* Surgn. to the College Hospital.	1,550	Granted an extension of the tenure of his apptt. for 5 years from 12-5-1913.
Green, Charles Robert Mortimer, M.D., F.R.C.S., D.P.H., I.M.S.	10-4-1903	† Profr. of Midwifery, Medl. Coll., and *ex-officio* Obstetric Physician and Surgn., Eden Hospital.	1,650	Mily. duty Major H.B. Steen, offg. 24-12-1916.
Stevens, Cecil Robert, M.D., F.R.C.S., I.M.S.	17-6-1907	† Profr. of Clinical and Operative Surgery, Medl. Coll., and Surgn. to the College Hospl.	1,500	Granted an extension of the tenure of his apptt. for 5 years from 16-6-1912. On deputation to mily. duty 21-11-1914. Lieut.-Col. R. P. Wilson offg. in addition, 11-3-1915.
Windsor, Frank Needham, B.A., M.B., B.C. (Camb.), B.Sc. (Vict.), I.M.S.	14-3-1911	† Chemical Exmr. to Govt. and Professor of Chemistry, Medl. College, Calcutta.	1,500	On deputation to mily. duty, 28-4-1915. Senior Civil Asstt. Surgeon Rai Chuni Lal Basu Bahadur I. S. O., offg., 28-4-1915.
Maynard, Frederic Pinsent, M.B., F.R.C.S., I.M.S.	21-11-1905	† Profr. of Ophthalmic Surgery, Medl. Coll. and Ophthalmic Surgn., College Hospital.	1,650	Also Surgeon-Supdt., Mayo Hospl. Granted an extension of the tenure of his apptt. for 5 years from 19-11-1910 + a further extension up to 31-3-1916 or until further orders.
Rogers, Sir Leonard, Kt., C.I.E., F.R.S., M.D., F.R.C.P., F.R.C.S., I.M.S.	17-2-1908	† Profr. of Pathology, Medl. College, also Bacteriologist to Govt.	1,500	Granted an extension of the tenure of his apptt. for 5 years from 16-2-1911 + 5 years.
Majors.				
McCay, David, M.D., I.M.S. ...	9-6-1905	† Profr. of Physiology, Medl. College.	1,150 300 L. A. 100 A. A. 200 L. A. (Duty).	Granted an extension of the tenure of his apptt. for 5 years, from 9-6-1910 and 5 years from 9-6-1915 Holding charge of the duties of the Resdt. Medl. Officer in addn., 18-8-1914.
Lloyd, Richard Ernest, I.M.S.	1-5-1909 14-12-1913	* Profr. of Biology, Medl. College.	1,150 300 L. A. 100 A. A. 200 L. A. (Duty).	Holding charge of the duties of Resdt. Medl. Officer Medl. College Hospl. in addn., 21-10-1914.
N. P. Sinha, I.M.S. (Retired)	14-10-1915	(a) Profr. of Medical Jurisprudence, Medl. College (temply.).	200 L. A. (Duty).	Also Police Surgeon, Calcutta (temply.) *See* foot-note, p. 26r.

* Appointment in the gift of the Government of India.

† All full Professorships in the Medical College (except those of Chemistry, Anatomy and Biology) are reserved for Commissioned Medical Officers. The tenure of the appointments of Principal and Professors, Medical College, is limited to 5 years, but may be extended by the Local Government for similar periods.

(a) For Bacteriological work. Also draws local allowance of Rs. 300.

MEDICAL COLLEGE HOSPITAL, CALCUTTA.

NAME AND RANK.	Date of present appointment.	Designation.	Pay.	REMARKS.
			Rs.	
Major J. H. Taylor ...	7-11-1910	(a) Profr. of Dentistry, Calcutta	300 L. A.	(a) *See* foot-note, p. 268
Mr. Lalit Mohan Banarji, F.R.C.S. (Eng.) (Offg.)	9-8-1916	Profr. of Anatomy ...	...	In addn. to his duties as Asstt. Professor of Anatomy.
Babu Tulsidas Kar ...	28-6-1912	Profr. of Physics ...	480	
Capt. Jukes, Andrew Monro, M.D., I.M.S.	13-7-1912	Profr. of Hygiene, Calcutta ...	650 200 S. A.	On deputation to mily. duty. No allowance admissible.
Capt. Neal, William Daniel, I.S.M.D.	2-11-1910	Asst. to the Supdt., Medl. Coll. Hospl.	450 200 Staff.	
Lieut. Gillson, William John, I.S.M.D.	27-6-1912	Apothy., Medl. Coll. Hospl. ...	300	On deputation to mily duty. Lieut. W. J. K. Stone, I.S.M.D., Supdt., Mily. Pupil Class, holding charge in addn., 23-10-1915.
Military Asst. Surgeon Warner, William George Henry.	1-11-1912	Asst. Apothy., Medl. Coll. Hospl.	...	On deputation to mily. duty, 8-9-1914. Tempy. Asst. Surgn. [illegible] Behari Dutt (offg.), 7-11-1914.
Assistant Surgeons.				
Rai Chuni Lal Basu Bahadur, I.S.O.	5-1-1894	First Asst. Chemical Examiner to Govt.	560 100 A. A. 300 Duty allce.	Also Chemical Examiner for the purposes of sec. 510, C. P. C. Offg. Chemical Examiner to Government, 28-4-1915.
Babu Hem Nath Adhikari ...	12-5-1894	Second Assistant Chemical Examiner to Govt.	350 90 Duty allce. 75 ch. allce.	Offg. 1st Asst. Chemical Examiner in addn., 11-5-1915.
Babu Hira Lal Singh ...	3-4-1897	Third Asst. Chemical Examiner to Govt.	325 80 Duty allce.	
Babu Satyendra Nath Sen ...	25-8-1899	Fourth Asst. Chemical Examiner to Govt.	270	
Babu Beni Madhab Chakrabatti	1-6-1912	Asst. Profr. of Physics and Chemistry.	210 100 Duty allce. 100 Hostel A. *i.e.* Duty allce.	
Babu Amulya Ratan Chakrabatti.	9-3-1916	Demonstrator, Physics and Chemistry, Medl. Coll., Calcutta.	100	Tempy. Asstt. Surgn.
Babu Nalini Ranjan Sen Gupta	11-7-1913	Registrar of Medical cases, Medl. Coll. Hospl. (d)	140	

† Reserved for I. M. S. officers. The tenure of each of these appointments is limited to 2 years. Allowed to retain lien until transferred to other substantive posts.

Officers holding these posts (except in priv. lv. vacancies) to hold them substantively if in permanent civil employ and sub. *pro tem.* if in tempy. civil employ. But this arrangement will be introduced after the present substantive holders have been transferred to other substantive appointments.

The tenure of appointment is for 1 year (may be extended by the Inspr.-General of Civil Hospitals).

MEDICAL COLLEGE HOSPITAL, CALCUTTA.

NAME AND RANK.	Date of present appointment.	Designation.	Pay.	REMARKS.
Assistant Surgeons.			Rs.	
Babu Charu Chandra Singh ...	11-5-1913	Registrar of Surgical cases ...	190	
Babu Jatindra Mohan Das ...	19-4-1914	Obstetrical Registrar	140 200 Duty allce. 50 L. A.	Holding charge of the duties of Resdt. Surgeon, Eden Hospl., in addn., 27-10-1914.
Babu Satya Ranjan Sen ...	25-8-1914	House Surgn., Surgical Outpatient Dept., Medl. Coll. Hospl. (*d*)	180	Also draws X-ray (duty) allowance at Rs. 20 from 25-8-1914.
Babu Satish Chandra Das ...	3-5-1913	Emergency Officer, Medl. Coll. Hospl.	140 50 Duty allce.	
Babu Kanak Chandra Baral ...	1-10-1915	Ditto ditto ...	100 50 Duty allce.	Tempy. Asstt. Surgn.
Mr. Lalit Mohan Banarji, F.R.C.S. (Eng.).	20-7-1916	Asst. Professor of Anatomy, Medl. Coll. (*a*)	300	The apptt. shall ordinarily be held by a 3rd grade Asstt. Surgeon. Offg. Profr. of Anatomy in addn. 9-8-1916.
Babu Nagendra Nath Chatarji	15-4-1912	Demonstrator, Anatomical Dept., Medl. Coll. (*a*)	160	
Maulvi Dabiruddin Ahmad ...	18-8-1916	Ditto ditto ...	160	
Babu Bipin Bihari Basak ...	18-6-1914	Ditto ditto ...	180	
Babu Madan Mohan Datta ...	25-6-1905	Demonstrator, Physiological Dept., Medl. Coll. (*c*)	200 100 L. A.	Payable by I. R. fund.
Babu Lal Mohan Ghosal ...	2-2-1906	Ditto ditto (*c*) ...	220 100 L. A.	Ditto.
Rai Gopal Chandra Chatarji Bahadur.	21-7-1905	Asst. Bacteriologist and Asst. Professor of Pathology, Medl. Coll. (*c*)	325 150 Duty allce.	
Babu Jitendra Nath Maitra ...	25-6-1912	Demonstrator, Pathological and Bacteriological Depts., Medl. Coll. (*c*)	140	
Babu Charu Chandra Basu ...	1-8-1912	Ditto ditto (*c*) ...	190	
Rai Satish Chandra Banarji Bahadur.	21-7-1905	Asst. Profr. of Physiology, Medl. Coll. (*c*)	260 150 L. A. 150 Duty allce.	Profr. from 9-6-1905. Payable by I. R. fund.

(*a*) The tenure of appointment is for 5 years
(*b*) Ditto ditto 2 years in the first instance.
(*c*) Ditto ditto 5 years (may be extended by the Inspr.-Genl. of Civil Hospitals).
(*d*) Ditto ditto 1 year ditto ditto.

MEDICAL COLLEGE HOSPITAL, CALCUTTA.

NAME AND RANK.	Date of present appointment.	Designation.	Pay.	REMARKS.
Assistant Surgeons.			Rs.	
Babu Ekendra Nath Ghosh ...	1-8-1908	Asst. Profr. of Biology (c) ...	170 100 duty allce.	
Babu Saileshwar Mukharji ...	3-8-1908	Demonstrator, Biological Dept. (c)	170	
Babu Bibhuti Bhusan Barat ...	31-12-1910	Ditto ditto ...	160	

(c) The tenure of appointment is for 5 years. (May be extended by the Surgeon-General with the Government of Bengal.)

PRESIDENCY GENERAL HOSPITAL.

Appointment.	NAME.	Date of appointment.	Pay.	REMARKS.
			Rs.	
Surgeon-Supdt.* ..	Lieut-Colonel Frederick O'Kinealy, I.M.S.	10-10-1913	1,800	
First Resdt. Surgeon* ...	Capt. Norman Haliburton Hume, M.B., I.M.S. (sub. *pro tem.*)	8-11-1913	1,000	Holding charge of the duties of 2nd Resdt. Surgeon in addn., 21-12-1914.
Second Resdt. Surgeon* ...	.....	...	...	
Assistant to Surgeon-Supdt.	Mily. Asst. Surgn. Adolphus Vincent Eates.	1-4-1912	250 200 S. A.	
Apothecary	Mily. Asst. Surgn. Frank Herbert Gleeson.	21-2-1906	250	On depn. to mily duty 14-5-1915. Tempy. Asst. Surgn. Susil Kumar Bhattacharji, offg., 4-10-1915.
Ditto	Mily. Asst. Surgn. Richard John Anthony.	7-11-1911	250 150 S. A.	On depn., to mily. duty 17-9-1915. Tempy. Asst. Surg on Haris Ch. Sen, offg., 18-9-1915.
Ditto	Mily. Asst. Surgn. Alfred Bertram Cornelius.	22-9-1913	150 50 S. A. (Duty).	On depn., to mily. duty 18-8-1914. Civil Asst. Surgn. Upendra Nath Das, offg., 2-5-1915.
Ditto	Mily. Asst. Surgn. C. G. deGruyther.	11-6-1914	150 100 Staff A.	On depn. to mily. duty 18-8-1914. Tempy. Civil Asst. Surgn. Jitendra Kumar Banarji, offg., 6-4-1915.
Ditto	Mily. Asst. Surgn. H. L. O. Fleming.	9-12-15	250 80 Staff A.	On depn. to mily. duty 1-2-1916. Tempy. Civil Asstt. Surgn. Binod Bihari Hajra, offg., 14-3-1916.
Civil Assistant Surgeon ...	Surendra Nath Ghosh (I) ...	15-2-1906	190 50 S. A. or duty allce. 30 H. R. A.	

* Reserved for I. M. S. Officers.

CAMPBELL MEDICAL SCHOOL AND HOSPITAL, SEALDAH, CALCUTTA.

Appointment.	NAME.	Date of appointment.	Pay.	REMARKS.
			Rs.	
Superintendent ...	Lt.-Col. Roger Parker Wilson, I.M.S.	28-12-1913	1,800 200 A. A.	Allowed to take consulting practice only. Offg. Profr. of Clinical and Operative Surgery, Medical College, Calcutta, and Surgeon to the College Hospital in addn., 11-3-1915.
Deputy Supdt. ...	Capt. Richard Sharples, I.S.M.D.	13-6-1905	450 200 S. A.	
Teacher of Surgery (a) ...	Asst. Surgn. Mr. Karuna Kumar Chatarji, F.R.C.S.I.	15-2-1910	210 100 S. A. or duty allce.	
Teacher of Medicine (a) ...	Asst. Surgn. Rai Upendra Nath Brahmachari Bahadur, M.A., M.D., D.SC., PH.D.	20-2-1905	250 150 S. A. or duty allce.	
Teacher of Materia Medica (a)	Asst. Surgn. Rai Hari Nath Ghosh Bahadur, M.D.	1-11-1905	325 150 S. A. or duty allce.	
Teacher of Midwifery (a)...	Asst. Surgn. Kedar Nath Das, M.D.	1-11-1899	300 150 S. A. or duty allce.	
Teacher of Medical Jurisprudence. (a)	Asst. Surgn. Rai Lalbihari Gangali Bahadur.	1-4-1910	190 100 S. A. or duty allce. 20 duty allce.	
Teacher of Anatomy (a) ...	Asst. Surgn. Mr. Bidhan Chandra Ray, M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.).	18-1-1912	150 100 S. A. or duty allce.	
Teacher of Physiology (a)	Asst. Surgn. Nanilal Pan ...	1-3-1909	210 100 S. A. or duty allce.	Is also Apothecary and in charge of Outdoor Dispensary. Priv. lv. for 6 weeks from 24-3-1917.
Teacher of Pathology and Hygiene. (a)	Asst. Surgn. Tarak Nath Sur	16-6-1911	180 100 S. A. or duty allce.	
Teacher of Physics and Chemistry.	Asst. Surgn. Rai Chuni Lal Basu Bahadur.	16-8-1898	560 100 A. A. 300 duty allce.	Honorarium of Rs. 300 a year.
Ex-officio Tutors, Tutorial classes.	Asst Surgn. Abinash Chandra Chatarji.	25-9-1912	290 25 duty allce. 70 L. A.	
	Asst. Surgn. Gauri Prasad Bhattacharji.	...	220 70 L. A.	

(a) The tenure of all teacherships in the Campbell and Dacca Medical Schools is for 5 years subject to extension by the Surgeon-General with the Government of Bengal.

DACCA MEDICAL SCHOOL.

Appointment.	RANK AND NAME.	Date of appointment.	Pay.	REMARKS.
			Rs.	
Superintendent ...	Lieut.-Col. E. A. R. Newman, M.D., I.M.S.	18-11-1915	300 M. S. A. (Duty.)	
Teacher of Surgery ...	Asst. Surgn. Jogendra Nath Mitra.	3-7-1910	250 100 S. A. (Duty.)	
Teacher of Medical Jurisprudence and Hygiene.	Asst. Surgn. Harendra Kumar Das.	26-3-1912	260 140 A. A. 75 J. A. or duty allce. 100 duty allce.	Offg. Civil Surgeon, Jelpaiguri, 12-5-1916.
	Asst. Surgn. Barada Sankar Bhattacharji, offg.	26-5-1916	250 70 A. A.	
Teacher of Medicine, Chemistry and Physics.	Asst. Surgn. Hem Chandra Sarkar.	28-2-1905	260 100 S. A. (Duty.)	
Teacher of Physiology, Pathology and Bacteriology.	Asst. Surgn. Benoy Lal Mazumdar.	20-9-1912	210 75 S. A. (Duty.)	
Teacher of Midwifery, and Materia Medica.	Asst. Surgn. Gynendra Nath Chatarji.	12-4-1916	200 75 S. A. or duty allce.	Offg. House Surgeon, Mitford Hospl., Dacca, in addn.
Teacher of Anatomy ...	Asst. Surgn. Guru Prasad Mitra.	10-4-1913	230 100 S. A. or duty allce.	

SPECIAL HOSPITALS.

			Rs.	
Supdt., Alipore Voluntary Venereal Hospital.	Lt.-Col. E. A. W. Hall, I.M.S.	26-1-1916	150 Duty allce.	
Supdt., Darjeeling Special Hospital.	Vacant.			
Supdt., Jellapahar Special Hospital.	Mily. Asst. Surgn. John Sleigh.	16-4-1882		
Supdt., Barrackpore Special Hospital.	Major F. W. Kendle, R.A.M.C.	18-3-1916	80	
Supdt., Dum-Dum Special Hospital.	Capt. C. Webb-Johnson, R.A.M.C.	24-3-1916	80	

LUNATIC ASYLUMS.

Appointment.	Rank and name.	Date of appointment.	Pay.	Remarks.
			Rs.	
Supdt., Central Lunatic Asylum, Berhampore.	Major Alexander Spalding Mackie Peebles, I.M.S.	24-7-1911	650 400 S. A.	The apptt. is open to the Indian Medical Service, but not exclusively reserved for that service, and permanent increase in the cadre of that service to fill the post is not sanctioned. Offg. Civil Surgeon, Murshidabad, in addn., 25-9-1914.
Dy. Supdt., Berhampore Asylum.	Lieut. Henry Valentine Mann, I.S.M.D.	5-7-1905	350 100 Staff. 100 P. A.	Also Inspector of Factories within the Presy. of Bengal. On depn. to mily. duty. Civil Asst. Surgeon Bidhu Bhusan Pal, offg., 24-2-1916.
Supdt., Bhawanipur European Asylum.	Capt. Norman Haliburton Hume, I.M.S.	8-11-1913		
Dy. Supdt., Bhawanipur European Asylum.	Mily. Asst. Surgn. Lawrence McCurtis.	1-7-1911	...	On depn. to mily. duty. Tempy. Civil Asst. Surgeon, Krishnadhan Sinha, 13-6-1916.
Supdt., Dacca Lunatic Asylum.	Lieut.-Col. E. A. R. Newman, I.M.S.	18-11-1915	250 L. A. A. (Duty.)	

MILITARY MEDICAL OFFICERS HOLDING COLLATERAL CHARGES.

Service.	Rank and name.	Date of apptt.	Date of first commission.	Appointments, both substantive and officiating, and dates.	Salary of present appointment.	Remarks.
					Rs.	
	Major F. W. Kendle, R.A.M.C.	18-3-1916	...	Barrackpore	80	
	Capt. C. Webb-Johnson, R.A.M.C.	24-3-1916	...	Dum-Dum	80	
				Buxa Duar, Jalpaiguri ...	30	

UNCOVENANTED MEDICAL OFFICERS.

Service. Y.	Service. M.	RANK AND NAME.	Date of confirmation.	Date of first commission.	Appointments, both substantive and officiating, and dates.	Salary of present appointment.	REMARKS.
						Rs.	
		Ashe, Reginald Stanislaus, M.B.*	17-3-1885	...	Civil Surgn., Rangpur, 16-3-1911 Offg. Civil Surgeon Rajshahi 4-11-1915.	700 300 C.J.A. (Duty adce.)	Retained in the service of Government up to 2-2-1918.
		Kumar Bhabendra Narayan.	1-4-1890	...	Civil Surgn., Bogra, 17-4-1912 Offg. Civil Surgeon, Tippera, 5-12-1915.	700 100 D.J.A. (Duty adce.)	
24	9	Banks, Charles, M.D.,† D.P.H ‡	7-6-1892	...	Supdt. of Emigration and Protector of Emigrants, Calcutta, 16-5-1897.	1,200 100 C.A.	Debarred from private practice. Granted priv. lv. combd. with furlo. for 6 mons. and 6 days from 13-4-1917.
24	7	Watts,* Vincent Leonard.	2-9-1892	...	Civil Surgn., Bankura, 23-6-1900	700 75 J.A. (Duty)	Retained in the service for one year from 6-4-1917.
6	11	Hossack, W. C. ...	1-5-1910	...	Health Officer, Port of Calcutta, 1-5-1910.	1,200 50 C. A.	Apptd. offg. Supdt. of Emigration and Protector of Emigrant in adv.
		Bentley, C. A., M.B., D.P.H. (a)	8-5-1911	...	Spl. Officer for Malaria Research, 8-5-1911.	1,560 200 L. A.	(Tempy. officer.) Sany. Commr., Bengal, 11-4-1915. (S. p. t., 9-11-1915.)
		Babu Tulsi Das Kar ...	28-6-1912	...	Prof. of Physics, Medl. Coll., Calcutta, 28-6-1912.	480	
		Dr. R. B. Khambata, M.R.C.S. (Eng.), D.P.H. (Cantab.).	...	...	Dy. Sany. Commr., Rajshahi Circle, 18-7-1913.	600	Offg. Dy. Sany. Commr. on Malaria Research.
		Dr. Muhammad Ibrahim Sufi, B.A., L.R.C.P.S. (Edin. and Glas.).	...	...	Dy. Sany. Commr., Dacca Circle, 7-4-1913.	600	
		Babu Bipin Behari Brahmachari.	4-5-1916	...	Dy. Sany. Commr., Presy. Circle, 4-5-1916.	450	(Tempy.)

	Date of re-employment.			Rs.	
Lt. A. Luke, I.S.M.D. (Retired).	15-9-1914	...	Medical Officer, E. B. Ry., Lalmonirhat (temply.), 12-5-1915	...	
Capt. D. S. Ollenback, I.S.M.D. (Retired).	16-9-1914	...	Medical Officer, E. B. Ry., Sealdah (temply.), 16-9-1914.	...	
Capt. H. Day, I.S.M.D. (Retired).	5-12-1914	...	Medical Officer, E. B. Ry., Kanchrapara (temply.), 5-12-1914.	...	
Rai Ganga Gobinda Sarkara Bahadur (Retired, C.S.).	15-11-1915	...	Civil Surgeon, Rangpur (temply.), 15-11-1915.	440 75 J. A. (Duty.)	
Capt. W. H. Harding, I.S.M.D. (Retired).	...	...	Offg. Resdt. Medical Officer Eden Sanitarium and Hospitals, Darjeeling, 15-3-1917.	...	

* Passed in Bengali by the Lower Standard.
† Ditto Uriya ditto.
‡ Holder of Kaiser-i-Hind silver medal.
(a) Ditto ditto medal of the first class

LIST OF MILITARY ASSISTANT SURGEONS.

Service.	Rank and name.	Date of confirmation.	Date of warrant rank.	Appointments, both substantive and officiating, and dates.	Salary of present appointment.	Remarks.
	Hony. Lieut.				Rs.	
	Brachio, John Jeremiah Alexander. (*b*)(*c*)	12-7-1898	25-2-1891	Civil Surgn., 2nd class, Birbhum, 25-11-1909.	450	On depn. to mily. duty, 1-10-1915.
	Hony. Captain.					
	Boërmel, Reginald Alexander. (*c*)	25-4-1892	11-2-1889	Civil Surgeon, 2nd class, Dinajpur, 13-10-1915.	550	On depn. to mily. duty, 14-1-1915.
	Hony. Lieut.					
	Mansfield, Henry (*c*)	6-12-1901	25-2-1891	Supdt., Albert Victor Asylum for Lepers, Gobra, Calcutta, 20-12-1913.	350	Passed in Pushtu. On depn. to mily. duty, 27-9-1915.
	Hony. Captains.					
	Galvin, Michael ...	1-2-1897	12-2-1885	Supdt. and Medl. Officer, Juvenile Jail, Alipore.	450 200 P.A.	
	Neal, William Daniel	6-3-1899	12-2-1885	Asst. to the Supdt., Medl. College Hospls., Calcutta, 2-11-1910.	450 200 S.A.	Retained in the service with effect from 12-6-1917.
	Sharples, Richard ...	3-5-1902	31-1-1884	Dy. Supdt., Campbell Medl. School and Hospl., Calcutta, 13-6-1905.	450 200 S.A.	Retained in the service with effect from 8-6-1915.
	First Class.					
	Fox, Sydney John Vere	19-9-1904	22-2-1899	Civil Surgeon, 2nd class, 20-12-1913.	350	On depn. to mily. duty, 22-9-1914.
	Hony. Lieut.					
	Mann, Henry Valentine.	20-9-1904	25-2-1891	Dy. Supdt., Lunatic Asylum, Berhampore, 5-7-1905.	350 100 Staff. 100 P.A.	On depn. to mily. duty, 24-2-1916.
	First Class.					
	Hurst, Francis Gerald (*d*)	18-10-1904	22-2-1899	House Surgeon, Mitford Hospl., Dacca, 15-9-1913.	150	On depn. to mily. duty, 17-8-1914.
	Duckworth, Arthur Robbins.	23-10-1904	16-2-1897	Asst. Health Officer, Port of Calcutta, 1-7-1911.	300	On depn. to mily. duty, 16-9-1915.
	Knight, Frank Ernest	16-9-1905	5-2-1895	House Surgeon, Genl. Hospl., Howrah, 10-1-1914.	...	On depn. to mily. duty, 20-9-1914.

(*a*) Passed in Uriya by the colloquial test. (*b*) Qualified in X-Ray work.
(*c*) Passed in Bengali by the colloquial test.
(*d*) Passed in the Lushai language. Passed in Bengali (colloquial) L. S.

LIST OF MILITARY ASSISTANT SURGEONS.

Service.	RANK AND NAME.	Date of confirmation.	Date of warrant rank.	Appointments, both substantive and officiating, and dates.	Salary of present appointment.	REMARKS.
	FIRST CLASS.				Rs.	
	Gleeson, Frank Herbert.*	16-2-1906	16-2-1897	Presy. Genl. Hospl., 21-2-1906.	250	On depn. to mily. duty, 14-8-1915.
	Thomas, John Douglas (*a*)	30-11-1906	5-2-1895	Medl. Officer, E. B. Ry., Sealdah, 7-8-1912.	...	Ditto, 16-9-1914.
	Marshall, William John.	23-12-1906	5-2-1895	Asst. Supdt. of Emigration, Embarkation Agent and Medl. Inspector of Emigrants, Goalundo, 8-1-1914.	...	Ditto, 11-9-1915.
	McCurtis, Lawrence ...	6-7-1908	12-3-1898	Dy. Supdt., Lunatic Asylum, Bhawanipur, Calcutta, 1-7-1911	...	Ditto, 19-8-1914.
	2ND CLASS.					
	Young, Harold Augustus.	23-8-1908	25-2-1904	Asst. to the Civil Surgn., 24-Parganas, 28-4-1913.	...	Ditto, 20-9-1914.
	FIRST CLASS					
	Chalke, James Charlemagne.*	4-12-1908	22-2-1899	His Excellency the Governor's Staff Dispensary, Calcutta, 12-11-1914.	250 320 A. A.	Holds tempy. charge of the current duties of the office of the Surgeon to H. E. the Governor of Bengal in addn., 20-2-1916.
	Eates, Adolphus Vincent.	13-4-1909	5-2-1895	Asst. to the Surgeon-Supdt., Presy. Genl. Hospl., 1-4-1912.	250 200 S. A.	
	deGruyther, Cecil Guy (*a*).	15-5-1909	22-2-1899	Presy. Genl. Hospl., 11-6-14 ...	150 100 S. A.	On depn. to mily. duty, 18-8-1914.
	Fleming, Henry Leonard Osborne.	16-5-1909	10-2-1896	Presy. Genl. Hospl., 9-12-1915	250 80 S. A.	On depn. to mily. duty, 1-2-1916.
	Holehouse, Alfred (*b*)	1-8-1909	12-3-1898	Police Training College, Sarda, Rajshahi	300 S. *p. t.*	On depn. to mily. duty, 17-8-1914.
	HONY. LIEUT.					
	Gillson, William John	26-8-1909	10-6-1892	Apothy., Medl. College Hospl., Calcutta, 27-6-1912.	300	On depn. to mily. duty, 4-2-1916.
	FIRST CLASS.					
	Anthony, Richard John	29-10-1909	17-2-1900	Presy. Genl. Hospl., Calcutta, 7-11-1911.	...	On depn. to mily. duty, 17-9-1915.

* Qualified in X-Ray work.
(*a*) Has had a course of instruction in Malaria.
(*b*) Qualified in First Aid to the Injured and Ambulance Work.

LIST OF MILITARY ASSISTANT SURGEONS.

Service.	Rank and Name.	Date of confirmation.	Date of warrant rank.	Appointments, both substantive and officiating, and dates.	Salary of present appointment.	Remarks.
	Hony. Lieut.				Rs.	
	Mathews, John Gustavus Thomas. (a)	24-3-1910	19-2-1894	Medical Officer, E. B. Ry., Saidpur, 2-1-1914.	...	On deputation to mily. duty, 21-8-1914.
	First Class.					
	Cornelius, Alfred Bertram. (a)	20-12-1910	10-2-1896	Presy. Genl. Hospl., Calcutta, 22-9-1913.	..	Ditto. 18-8-1914.
	Third Class.					
	Campbell, Arthur Duncan.	16-3-1911	27-2-1905	Offg., Presy. General Hospl., 2-4-1911.	...	Ditto. 18-8-1914.
	Second Class.					
	Simmons, Bertram Hope	29-6-1911	25-2-1904	Offg., Presy. Genl. Hospl., 5-9-1911.	...	Ditto. 3-10-1915.
	Hony. Lieut.					
	Stone, William Joseph Key.	14-7-1911	25-2-1891	Medical Officer, E. B. Ry., Kanchrapara, 16-7-1911.	...	Ditto. 15-9-1914.
	2ndd Class.					
	Warner, William George Henry.	3-12-1911	6-6-1904	Asst. Apothy., Medl. College Hospl., Calcutta, 1-11-1912.	...	Ditto. 6-9-1914.
	First Class.					
	Lopez, Archibald Percival.	7-2-1912	16-2-1897	Medl. Officer, E. B. Ry., 2-5-1914.	...	Ditto. 24-8-1914.
	Third Class.					
	Clarkson, Ruxton ...	6-9-1912	27-2-1905	Offg., Presy. Genl. Hospl., 13-9-1912	...	Ditto. 11-9-1914.
	First Class.					
	Mendis, Francis Xavier	3-2-1913	10-2-1896	Medical Officer, E. B. Ry., Katihar, 24-2-1914.	...	Ditto. 10-9-1914.
	Third Class.					
	Bedell, Percival Stanley	20-12-1913	1-3-1907	Police Training College, Sarda, Rajshahi, 4-1-1914 (offg.).	...	Ditto. 21-8-1914.
	First Class.					
	O'Connor William ...	.....	10-2-1896	Certifying Surgeon of Factories, Bengal, Barrackpur, 4-8-1915 (tempy.)	620	

(a) Has had a course of instruction in Malaria.

LIST OF CIVIL ASSISTANT SURGEONS OF THE SUBORDINATE MEDICAL DEPARTMENT.

No.	NAME.	Date of appointment.	Date of appointment to present grade.	Nature of appointment and date thereof.	Pay.	REMARKS.
	Assistant Surgeon appointed as Civil Surgeon.					
1	Babu Bharat Chandra Dhar, M.A.	8-7-1890	1-10-1912	Civil Surgeon, 2nd class, Nadia, 5-2-1913.	Rs. 480 75 J. A. or duty allce.	
2	Rai Ananda Lal Basu Bahadur, M.B.	21-5-1889	15-1-1913	Civil Surgeon, 2nd class, Bakarganj, 22-5-1916.	480 150 J. A. or duty allce.	Granted an extension of service up to 17-12-1917.
3	Khan Bahadur Maulvi Shaikh Ilahi Bukhsh.	12-8-1889	24-1-1915	Civil Surgeon, 2nd class, Jessore, 1-5-1916.	480 100 J. A. (Duty.)	
4	Babu Nripendra Nath Basu.	22-5-1893	1-3-1916	Civil Surgeon, 2nd class, Faridpur, 7-12-1917.	480 100 J. A. or duty allce.	
	Senior Grade on Rs. 350 a month.					
1	Rai Chuni Lal Basu, Bahadur, I.S.O., M.B., F.C.S. (Lond.).	31-3-1886	31-3-1907	1st Asst. Chemical Examiner to Government, 30-3-1894. Also Teacher of Physics and Chemistry, Campbell Medical School. Also a Chemical Examiner for the purposes of sec. 510, C. P. Code. Offg. Chemical Examiner to Govt., and Prof. of Chemistry, Medl. College, Calcutta. 28-4-1915.	500 100 A. A. 300 duty allce.	F. C. U. Extra apptt. in the senior grade. Retained in the service up to 12-3-1918.
2	Babu Pramatha Nath Banarji.	12-11-1891	1-4-1912	Diamond Harbour subdivn. and Dispy., 24-Parganas, 16-4-1913.	350 90 A. A. 100 C.J.A.	Offg. Civil Surgeon, Midnapore, 29-8-1916.
3	Babu Hem Nath Adhikari, B.A., M.B.	12-11-1891	1-4-1912	Second Asstt. Chemical Examiner to Govt., 12-3-1894.	350 90 duty allce. 75 Ch. All.	Offg. 1st Asst. Chemical Examiner in addn., 11-5-1915.
4	Babu Kali Prasanna Banarji. (a)	5-4-1887	15-1-1913	Instructor in First Aid to the Injured and Ambulance Work, Calcutta Police, 15-10-1912.	350 15 C. A. 100 Duty allce.	Supdt., Albert Victor Asylum for Lepers, Gobra, Calcutta, 19-8-1914. (S. p. t.)
5	Babu Satish Chandra De, M.A., M.B.	4-9-1894	1-1-1915	Bhola Nath Bose's Dispy., Barrackpore, 17-7-1910.	350 130 A. A. 75 D. J. A. or duty allce.	Offg. Civil Surgeon, Burdwan 5-9-1916. Hony. Asstt. Surgn. on His Excellency the Viceroy's personal staff,
6	Babu Surendra Nath Datta, M.B.	16-10-1891	24-1-1915	Uttarpara Dispy., Hooghly, 27-11-1912 Temply.	350 130 A. A. 75 J. A. or duty allce.	Offg. Civil Surgeon, Khulna, 14-2-1915.
7	Rai Sahib Satish Chandra Basu.	26-7-1897	1-3-1916	Sibpur Engineering College, Howrah, 1-1-1915.	350 100 L. A.	

(a) Qualified in First Aid to the Injured and in Ambulance Work.

All dispensary allowances, except that from Siliguri, are drawn by Assistant Surgeon direct from the Dispensary Fund.

LIST OF CIVIL ASSISTANT SURGEONS OF THE SUBORDINATE MEDICAL DEPARTMENT.

Senior Grade on Rs. 325 a month.

No.	NAME.	Date of appointment.	Date of appointment to present grade.	Nature of appointment and date thereof.	Pay.	REMARKS.
1	Rai Gopal Chandra Chattarji, Bahadur M.B	20-2-1896	15-1-1913	Assistant Bacteriologist and Asst. Profr. of Pathology, Medl. Coll., Calcutta, 21-7-1905.	Rs. 325 150 (duty allce.).	F. C. U.
2	Babu Ambika Charan Dutta, M.B. (*a*)	23-6-1898	1-5-1913	Offg. Civil Surgeon, Pirbhum, 17-10-1915.	325 115 A. A. 75 J.A. or duty allce.	
3	Babu Chuni Lal Nandi	6-10-1891	10-8-1913	Kishorganj subdn. and Dispy., Mymensingh, 22-2-1917.	325 20 S. J. A. (Duty).	
4	Rai Hari Nath Ghosh Bahadur, M.D. (*a*)	10-10-1898	1-1-1915	Teacher of Materia Medica, Campbell Medical School, Calcutta, 11-3-1905.	325 150 S. A. (Duty allce.)	F. C. U. Granted an extension of the tenure of appt. up to the end of May 1917.
5	Babu Hira Lal Singh ...	7-7-1896	24-1-1915	Third Asst. Chemical Examiner to Govt., 3-4-1897.	325 80 L.A. (Duty.)	
6	Babu Kali Mohan Sen (*a*)	3-4-1897	1-3-1916	Imambarah Hospital, Hooghly, 15-7-1910.	325 115 A. A. 75 J. A. (Duty.)	Draws hostel allowance. Offg. Civil Surgeon, Pabna, 9-11-1915.

1st Grade.

1	Babu Kedar Nath Das, M.D.	12-9-1892	23-10-1907	Teacher of Midwifery, Campbell Medl. School, 1-11-1899.	300 150 S.A. or duty allce.	F. C. U. Granted a further extension of the tenure of appt. up to the 31st October 1919.
2	Babu Sarat Chandra Biswas.	9-1-1897	9-7-1911	Sirajganj subdivision and Dispy., Pabna, 12-10-1916.	290 20 S. J. A. or duty allce.	
3	Babu Abinash Chandra Chattarji. (*a*) (*b*)	8-12-1890	1-4-1912	Instructor in First Aid to the Injured and Ambulance work, Calcutta Police, 25-9-1912.	290 70 L. A. 25 (duty allce.)	
4	Babu Satyendra Nath Sen, M.B.	6-9-1897	1-11-1912	Fourth Asst. Chemical Examiner to Govt., 25-8-1899.	270	
5	Babu Debendra Nath Hajra.	30-11-1898	30-11-1912	Dinajpur, 14-8-1914	250 100 A. A. 100 J. A. or duty allce.	Offg. Civil Surgeon, Dinajpur, 4-11-1915.
6	Rai Upendra Nath Brahmachari Bahadur, M.A., M.D., D.SC., PH.D.	11-9-1899	11-9-1913	Teacher of Medicine, Campbell Medl. School, 20-2-1905. Lecturer on Sany. Science in the Presidency College.	250 150 S.A. *i.e.* duty allce.	F. C. U. Granted an extension of the tenure of appointment up to the end of May 1917.

(*a*) Qualified in First Aid to the Injured and in Ambulance Work.
(*b*) Is also in Medl. charge of the House of Detention for Juvenile Offenders and *ex-officio* Tutor, Tutorial Classes at the Campbell Medical School.

LIST OF CIVIL ASSISTANT SURGEONS OF THE SUBORDINATE MEDICAL DEPARTMENT.

No.	NAME.	Date of appointment.	Date of appointment to present grade.	Nature of appointment and date thereof.	Pay.	REMARKS.
				1st Grade.		
					Rs.	
7	Diwan Bahadur Hira Lal Basu, F.R.F.P.S. (Glas.).	11-2-1899	11-2-1913	.....	.....	Priv. leave for 3 mos. from 9-8-1916 and extraordinary leave without allowance for 15 months.
8	Babu Sarasi Lal Sarkar	20-2-1899	20-2-1913	.....	250 150 A.A. 75 L.A.	Offg. Civil Surgeon, 2nd class, Chittagong Hill Tracts, 29-9-1916.
9	Rai Satish Chandra Banarji Bahadur.	30-10-1899	30-10-1913	Asst. Profr. of Physiology, Medl. Coll., Calcutta, 21-7-1905.	260 150 L.A. 150 (duty allce.)	Granted an extension of the tenure of his apptt. up to 20-7-1918. Payable by I. R. fund.
10	Babu Hem Chandra Sarkar.	30-10-1899	30-10-1913	Teacher of Medicine, Chemistry and Physics, Medical School, Dacca, 28-2-1905.	260 100 S.A. (Duty.)	Alld. to continue in the apptt. up to 31-5-1918.
11	Babu Hari Pada Mukharji.	12-5-1896	1-11-1913	Tamluk subdivn. and Dispy., Midnapore, 3-9-1914.	250	On deputation to military duty, 6-6-1916.
12	Babu Jay Krishna Gupta	23-10-1899	1-11-1913	Barasat subdivn. and Dispy., 24-Parganas, 25-3-1908.	260 140 A.A. 50 J.A. or duty allce.	Offg. Civil Surgeon, Noakhali, 17-5-1916.
13	Babu Harendra Kumar Das.	13-11-1899	13-11-1913	Teacher of Medl. Jurisprudence and Hygiene, Medl. School, Dacca, 26-3-1912.	260 140 A.A. 75 J.A. or duty allce. 100 (duty allce.)	Offg. Civil Surgeon, Jalpaiguri, 12-5-1916.
14	Babu Barada Sankar Bhattacharji, M.B.	29-1-1900	29-1-1914	Brahmanbaria subdivision, Tippera, 21-3-1910. Offg. Teacher of Medical Jurisprudence and Hygiene, Medical School, Dacca, 26-5-1916.	250 70 A.A.	
15	Babu Lalit Mohan Ray (*b*)	31-1-1900	31-1-1914	Goalundo subdivision and the E. B. Ry. Hospl., Rajbari, 20-2-1913.	250 150 A.A. 75 J.A. (duty allce.)	Offg. Civil Surgeon, Bogra, 19-6-1916.
16	Babu Jogendra Nath Mitra.	6-8-1900	6-8-1914	Teacher of Surgery, Medical School, Dacca, 3-7-1910.	250 100 S.A. (Duty.)	Granted an extension of the tenure of apptt. for a further period of 1 year from 3-7-1916.
17	Babu Mahendra Kumar Chakrabatti.	30-11-1898	1-11-1914	Inspr., Animal Vaccination Depôt, Calcutta, 27-8-1902.	240 50 L.A.	
18	Babu Basanta Kumar Ray.	27-8-1900	1-11-1914	Medical Officer, E. B. Ry., Saidpur, (Temply.), 9-12-1916.	220	
19	Babu Mahendra Nath Indra, M.B.	7-6-1901	7-9-1915	Krishnagar Dispy., 19-3-1911. Offg. Barasat subdivn. and Dispy., 24-Parganas, 9-2-1915.	240 50 J.A. (Duty.)	Gets also hostel allowance.
20	Maulvi Shah Jahan Ali	6-8-1900	1-11-1915	Mymensingh, 8-10-1909	230 170 A.A. 50 J.A. (Duty.)	Offg. Civil Surgeon, Malda, 19-6-1916.
21	Babu Tarak Nath Deb (*a*)	15-2-1900	1-11-1915	Madaripur subdivn. and Dispy., Faridpur, 11-2-1916.	240 20 S.J.A. or duty allce.	
22	Babu Surendra Nath Mukharji.	10-2-1902	10-2-1916	Midnapore Dispy., 16-3-1912 ...	240	

(*a*) Qualified in X-Ray work.
(*b*) Passed Assamese in H. Also passed the Khasi language with credit

LIST OF CIVIL ASSISTANT SURGEONS OF THE SUBORDINATE MEDICAL DEPARTMENT.

No.	NAME.	Date of appointment.	Date of appointment to present grade.	Nature of appointment and date thereof.	Pay.	REMARKS.
			1st Grade.			
23	Babu Guru Prasad Mitra, M.B. (*b*)	5-3-1902	5-3-1916	Teacher of Anatomy, Medl. School, Dacca, 10-4-1913.	Rs. 230 100 S.A. (Duty.)	
24	Babu Narendra Nath Mukharji.	23-4-1902	23-4-1916	Medical Officer in charge of the Government hostels at Dacca, 1-7-1911.	230 30 Ho. A. 50 L.A. (Duty.)	Not yet classified.
25	Babu Aswini Kumar Das.	22-5-1902	22-5-1916	Contai subdivision and Dispy., Midnapore, 7-10-1913.	230 20 S.J.A. or duty alice.	
26	Babu Basanta Kumar Bhaumik.	22-5-1902	22-5-1916	Jalpaiguri, 2-12-1916. ...	230	
27	Babu Sharat Chandra Datta. (*a*)	30-9-1901	1-11-1916	Comilla, 1-10-1914	230	Gets also hostel allowance, *i.e.*, duty allowance. Holding charge of the charitable dispensary in addition.
28	Babu Manindra Nath Bhattacharji.	3-12-1901	1-11-1916	On special duty under the Health Officer, Port of Calcutta, 3-12-1901. Offg. Asst. Health Officer, Port of Calcutta, 14-6-1916.	230 70 D. A.	
			2nd Grade.			
1	Babu Upendra Nath Bakhshi.	10-9-1901	10-9-1908	Uluberia subdivision and Dispy., Howrah, 3-2-1916.	220 20 S.J.A. or duty alice.	
2	Babu Rash Bihari Bakhshi.	7-2-1896	1-11-1908	Asansol sub-divn., Burdwan, 6-12-1916.	220 20 S.J.A. or duty alice. 25 C. A.	

(*a*) Qualified in First aid to the Injured and in ambulance work
(*b*) Qualified in X-Ray work?

LIST OF CIVIL ASSISTANT SURGEONS OF THE SUBORDINATE MEDICAL DEPARTMENT.

No.	NAME.	Date of appointment.	Date of appointment to present grade.	Nature of appointment and date thereof.	Pay.	REMARKS.
			2nd Grade.			
3	Babu Lal Mohan Ghosal (*a*)	30-4-1903	30-4-1910	Demonstrator, Physiological Dept., Medl. Coll., Calcutta, 2-2-1905.	Rs. 230 100 L. A.	Has been allowed to continue in his present apptt. till 29-4-1917.
4	Babu Kula Chandra Guha.	26-10-1903	26-10-1910	.....	220	On leave from 2-4-1917.
5	Babu Gauri Prasad Bhattacharji. (*a*)	14-6-1902	1-11-1910	Instructor in First Aid to the Injured and ambulance work, Calcutta Police (temply.), 7-11-1916.	220 70 L. A.	
6	Babu Upendra Nath Rai Chaudhury. (*b*)	19-1-1904	19-1-1911	Raja P. N. Ray Hospital, Rampur Boalia, 25-11-1108.	220	Gets hostel allowance.
7	Babu Satish Chandra Ghosh. (*b*)	1-4-1904	1-4-1911	General Hospital, Chittagong 30-10-1916.	210	
8	Babu Nani Lal Pan, M.B.	11-5-1904	11-5-1911	Teacher of Physiology, Campbell Medl. School, Calcutta. Is also Apothy. and in charge of the out-door dispy., 1-3-1909.	210 100 S. A. (Duty.)	Granted an extension of the tenure of his apptt. for 5 years from 1-3-1914. Also attending on the clerks of the Ordnance Dept. Draws convy. allowce. Rs. 50. Priv. lv. for 6 weeks from 21-3-1917.
9	Babu Beni Madhab Chakrabatti.	21-7-1904	21-7-1911	Asst. Professor of Physics and Chemistry, Medical College, Calcutta, 1-6-1912.	210 100 Duty allce. 100 Hostel or duty allce.	
10	Mr. Karuna Kumar Chattarji, F.R.C.S.I.	20-8-1904	20-8-1911	Teacher of Surgery, Campbell Medl. School, Calcutta, 15-2-1910.	210 100 S. A. or duty allce.	Granted an extension of the tenure of his apptt. for 5 years from 15-2-1915.
11	Babu Kshetra Gopal Mukherji.	24-8-1904	24-8-1911	Naogon subdivision. and Dispy., Rajshahi. 18-2-1914.	210 20 S. J. A. (Duty)	
12	Babu Bipin Chandra Das Gupta	26-8-1904	26-8-1911	Rungpur. 25-11-1916	210	

(*a*) Qualified in First Aid to the Injured and in Ambulance Work.
(*b*) Qualified in X Ray work.

LIST OF CIVIL ASSISTANT SURGEONS OF THE SUBORDINATE MEDICAL DEPARTMENT.

No.	NAME.	Date of appointment.	Date of appointment to present grade.	Nature of appointment and date thereof.	Pay.	REMARKS.
			2nd Grade.			
13	Babu Binay Lal Mazumdar. (*a*)	20-7-1904	1-11-1911	Teacher of Physiology, Pathology and Bacteriology, Medl. School, Dacca, 20-9-1912.	Rs. 210 75 S. A. (Duty).	
14	Babu Radha Raman Ghosh. (*a*)	23-8-1904	1-11-1911	Offg. Bhola Nath Bose's Dispy., Barrackpore, 7-12-1914.	210	Gets hostel or duty allowance.
15	Mr. Lalit Mohan Banarji, F.R.C.S. (Eng.) (*a*)	15-2-1905	15-2-1912	Asstt. Professor of Anatomy, Medl. College, Calcutta, 20-7-1916.	300	Offg. Profr. of Anatomy in addn., 9-8-1916.
16	Babu Madan Mohan Datta.	8-3-1905	8-3-1912	Demonstrator in the Physiological Dept., Medl. Coll., Calcutta, 25-6-1905.	200 100 L. A.	Granted an extension of the tenure of apptt. up to 7-3-1919.
17	Babu Rajendra Chandra Barory.	8-3-1905	8-3-1912	Mymensingh (temply.). 14-6-1916.	200	Gets hostel or duty allce.
18	Babu Gyanendra Nath Chattarji.	24-10-1905	24-10-1912	Teacher of Midwifery and Materia Medica, Medl. School, Dacca, 12-4-1916.	200 75 S. A. or duty allce.	Holding charge of the duties of the House Surgeon, Mitford Hospl. in addn.
19	Babu Jatindra Nath Gupta.	25-10-1905	25-10-1912	Resdt. Medl. Officer, Police Hospital, Calcutta, 1-12-1916.	200 25 duty allcel.	
20	Babu Ashutosh Datta	19-7-1904	1-11-1912	Barisal Dispy., 24-3-1912 ...	200	Gets hostel allowance, *i.e.*, duty alloe.
21	*Babu Sarindra Kumar Mazumdar.*	*14-11-1905*	*14-11-1912*	*Junior Medl. Officer, Port Blair, 29-2-1913.*	*150*	*Also Asst. Supdt. in the Settlement, 5-3-1913.*
22	Rai Lalbihari Gangali Bahadur, M.B. (*a*)	26-5-1906	26-5-1913	Teacher of Medl. Jurisprudence, Campbell Medl. School, Calcutta, 1-4-1910.	190 100 S. A. or duty allce. 20 duty allce.	Granted an extension of the tenure of apptt. for 5 years from 1-4-1915.
23	Babu Bama Charan Karmakar.	10-6-1906	10-6-1913	Jamalpur subdivn., Mymensingh, 1-1-1914.	190 20 S. J. A. (Duty).	
24	Babu Charu Chandra Basu, M.B.	13-6-1906	13-6-1913	Demonstrator of Pathology and Bacteriology, Medl. Coll., Calcutta, 1-3-1912.	190	
25	Babu Narendra Nath Chaudhuri. (*c*).	30-10-1906	30-10-1913	Medl. Officer, E. B. Ry., Katihar (sub. *pro tem.*), 13-7-15.	170	

(*a*) Qualified in X-Ray work
(*c*) Passed in Assamese by L.

LIST OF CIVIL ASSISTANT SURGEONS OF THE SUBORDINATE MEDICAL DEPARTMENT.

No.	NAME.	Date of appointment.	Date of appointment to present grade.	Nature of appointment and date thereof.	Pay.	REMARKS.
			2nd Grade.			
26	Babu Surendra Nath Sen Gupta, M.B.	28-2-1905	1-11-1913	Goalundo subdivn. and E. B. Ry. Hospl., Rajbari, 11-10-1916.	Rs. 190	
27	Babu Surendra Nath Ghosh (I).	1-11-1905	1-11-1913	Presy. Genl. Hospl., Calcutta, 13-2-1926.	190 50 S. A. or 30 H. R.A.	Duty allce.
28	Babu Aghor Nath Ghosh.	1-11-1906	1-11-1913	Medl. Officer, E. B. Ry., Parbatipur.	190	
29	Mr. Bidhan Chandra Ray, M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.).	21-11-1906	21-11-1913	Teacher of Anatomy, Campbell Medl. School, Sealdah, Calcutta, 18-1-1912.	190 100 S. A. (Duty.)	Granted an extension of the tenure of his appointment for 5 years from 18-1-1917.
30	Babu Charu Chandra Singh. (*b*)	15-2-1907	15-2-1914	Registrar of Surgical cases, Medl. College Hospital, Calcutta, 11-5-1913.	190	Has been allowed to continue in the appt. until further orders.
31	Babu Bipin Bihari Basak.	19-5-1907	19-5-1914	Demonstrator, Anatomical Dept., Medl. Coll., Calcutta, 18-6-1914.	180	
32	Babu Tarak Nath Sur	24-5-1907	24-5-1914	Teacher of Pathology and Hygiene, Campbell Medl. School, Sealdah, Calcutta, 16-6-1911.	180 100 S. A. (Duty.)	Granted an extension of the tenure of apptt. for 5 years from 16-6-1916.
33	Maulvi Fazlur Rahman Khan.	14-6-1907 4-9-1907	4-9-1914	Lalbagh subdivn. and Dispy., Murshidabad, 19-10-1916.	180 20 S.J.A. or duty allce.	Draws hostel allowance.
34	Babu Dhiraj Mohan Sen. (*a*)	10-5-1904	1-11-1914	Noakhali Dispy., 6-7-1915 ...	180	Draws hostel allowance.
35	*Babu Biswesvar Chakrabatti.* (*d*)	*2-8-1906*	*1-11-1914*	*Junior Medl. Officer, Port Blair, 15-1-1915.*	*150*	
36	Babu Madhusudan Mukharji.	25-9-1906	1-11-1914	Jangipur subdivn. and Dispy., Murshidabad, 6-9-16.	180 20 S.J.A. (Duty.)	
37	Babu Pratulpati Gangali.	19-11-1907	19-11-1914	Nator subdivn. and Dispy., Rajshahi, 8-3-1914.	180 30 (Personal duty allce.).	Asst. Supdt. of Emigration, Embarkation Agent and Medl. Inspr. of Emigrants, Goalundo (temply.), 1-11-1915.

(a) Qualified in First Aid to the Injured and in Ambulance Work.
(b) Qualified in X-Ray work.
(d) Has had special training under Captain Christophers at Amritsar on Malarial Field Work.

LIST OF CIVIL ASSISTANT SURGEONS OF THE SUBORDINATE MEDICAL DEPARTMENT.

No.	NAME.	Date of appointment.	Date of appointment to present grade.	Nature of appointment and date thereof.	Pay.	REMARKS.
			2nd Grade.			
38	Babu Satya Ranjan Sen, M.B. (a	1-12-1907	1-12-1914	House Surgeon, Surgical Outpatient Dept., Medl. Coll. Hospl., Calcutta, 25-8-1914.	Rs. 180	Draws X-Ray (duty) allowance at Rs. 20 per mensem.
39	Babu Atindra Nath Sen, M.B.	22-3-1908	22-3-1915	Berhampore Dispy., 20-10-1916	170	
40	Babu Ekendra Nath Ghosh, M.D.	4-6-1908	4-6-1915	Asst. Prof. of Biology, Medl. College, 1-8-1908.	170 100 (duty allce.).	Granted an extension of the tenure of apptt. for 5 years from 1-8-1913.
41	Babu Rajendra Chandra Datta.	6-8-1907 1-7-1908	1-7-1915	Tangail subdivn. and Dispy., Mymensingh, 2-8-1911.	170 20 S.J.A. or duty allce.	Priv. lv. for 1 month from 17-3-17.
42	Babu Saileshwar Mukharji.	3-8-1908	3-8-1915	Demonstrator, Biological Dept., Medl. Coll., Calcutta, 3-8-1908.	170	Granted an extension of the tenure of apptt. for 5 years from 3-8-1913.
43	Babu Bidhu Bhusan Pal.	24-9-1908	24-9-1915	Dy. Supdt., Central Lunatic Asylum, Berhampore (temply.), 24-2-1916.	170 100 L.A. (duty.)	
44	Babu Mathura Nath Bhattacharji.	7-10-1908	7-10-1915	Fraser Hospital, Burdwan, 15-11-1914.	170	
45	Maulvi Dabiruddin Ahmad.	22-12-1908	22-12-1915	Demonstrator, Anatomical Dept., Medl. College, Calcutta, 18-8-1916.	160	
46	Babu Bibhuti Bhushan Barat, M.B.	22-5-1909	22-5-1916	Demonstrator, Biological Dept., Medl. Coll., Calcutta, 31-12-1910.	160	Granted an extension of the tenure of apptt. for 3 years from 31-12-1915.
47	Babu Nagendra Nath Chatarji.	14-10-1909	14-10-1916	Demonstrator, Anatomical Dept., Medl. Coll., Calcutta, 15-4-1912.	160	
48	Babu Chandra Kumar Nandi.	1-1-1909 1-3-1910	1-3-1917	Satkhira subdivn. and Dispy., Khulna, 23-11-1915.	160 20 S.J.A. (Duty.)	
49	Babu Surendra Nath Ghosh (II).	2-3-1909 1-3-1910	1-3-1917	Netrakona subdivn., Mymensingh, 16-10-1912.	160 20 S.J.A. or (duty allce.).	
50	Babu Jogesh Nath Sen	24-3-1910	24-3-1917	Offg. Uttarpara Dispy., Hooghly, 25-1-1916.	150	

(a) Qualified in X-Ray work.

LIST OF CIVIL ASSISTANT SURGEONS OF THE SUBORDINATE MEDICAL DEPARTMENT.

No.	NAME.	Date of appointment.	Date of appointment to present grade.	Nature of appointment and date thereof.	Pay.	REMARKS.
			3rd Grade.			
1	Babu Pashupati Mitra, M.B.	21-7-1903	31-7-1903	Medl. Officer, E. B. Ry., Khulna. 15-12-1916.	Rs. 150	
2	Babu Mithilesh Chandra Ghosh.†	8-6-1908	8-6-1908	.....	150	On deputation to mily. duty, 7-3-1916.
3	*Babu Bhaja Hari Mandal.*	*24-8-1908*	*24-8-1908*	*Junior Medl. Officer, Bamboo Flat, Port Blair, 31-3-1912.*	...	
4	Babu Brindaban Chandra Banik.	17-4-1909	17-4-1909	Bagerhat subdivn. and Dispy., Khulna.	150 20 S.J.A. or (duty allce.).	
5	Babu Jamini Kanta Sen Gupta.	6-1-1909 1-3-1910	1-3-1910	Offg. Diamond Harbour subdivn. and Dispy., 24-Parganas 15-6-1915.	150 20 S.J.A. (Duty.) 25 P.A.	
6	Babu Bidyananda Datta.	4-12-1909 1-3-1910	1-3-1910	Offg. Brahmanbaria subdivision, Tippera, 18-5-1916.	150 20 S.J.A. or (duty allce.).	
7	Babu Indra Narayan Sen Gupta.	27-3-1910 1-7-1910	1-7-1910	Kandi subdivn. and Dispy., Murshidabad, 12-12-1916.	150 20 S.J.A. (Duty.)	
8	Mr. Prabhat Chandra Mukharji, L.R.C.P. & S. (Edin.), L.F.P. & S. (Glasgow).	9-10-1910	9-10-1910	.....	140	On deputation to mily. duty, 3-6-1916.
9	Babu Jogesh Chandra Mukharji.	1-4-1910 16-10-1910	16-10-1910	.....	150 100 L. A.	Doing special duty under Lt.-Col. Sir Leonard Rogers, Kt., C.I.E., I.M.S., in connection with the supply of cholera cultures, 4-5-1916.
10	Babu Pashupati Basu ...	20-3-1911	20-3-1911	Arambagh subdivn. and Dispy., Hooghly, 7-2-1914.	140 20 S.J.A. or D.A.	

† Has had special training in Malarial Field work at Amritsar under Captain Christophers.

LIST OF CIVIL ASSISTANT SURGEONS OF THE SUBORDINATE MEDICAL DEPARTMENT.

No.	NAME.	Date of appoint-ment.	Date of appoint-ment to present grade.	Nature of appointment and date thereof.	Pay.	REMARKS.
			3rd Grade.			
11	Babu Akshay Kumar Sarkar.	20-3-1911	20-3-1911	Narayanganj subdivn., Dacca, 21-7-1916.	Rs. 140 20 S.J.A. or D.A.	Also holding charge of the dispy.
12	Babu Satish Chandra Das, M.B.	20-3-1911	20-3-1911	Emergency Officer, Medl. Coll. Hospl., Calcutta, 3-5-1913.	140 50 D.A.	Has been allowed to continue in the apptt. until further orders.
13	Babu Jyoti Prasad Mitra.	24-3-1911	24-3-1911	House Surgn., Genl. Hospl., Howrah (temply.), 18-1-1916.	140	
14	Babu Ramani Mohan Mukharji.	4-4-1911	4-4-1911	Dinajpur (temply.), 27-7-1916	140	
15	Babu Jitendra Nath Ghosh.	5-4-1911	5-4-1911	Offg. Tamluk subdivn. and Dispy., Midnapore, 25-11-1915.	140 20 S.J.A. or D.A.	
16	Babu Jitendra Nath Maitra, M.D.	22-5-1911	22-5-1911	Demonstrator of Pathology, Medl. Coll., Calcutta, 25-6-1912.	140	
17	Babu Jatindra Mohan Das.	1-6-1911	1-6-1911	Obstetrical Registrar, Medl. Coll. Hospl., Calcutta, 19-4-1914.	140 200 D.A. 50 Extra allce.	Holding charge of the duties of Resdt. Surgn., Eden Hospl., in addn., 27-10-1914.
18	Babu Nilratan Banarji	26-6-1911	26-6-1911	Supy. duty, Medl. Coll. Hospl., 1-6-1915.	140	Doing the duties of the Presy. Surgeons as regards examination, and grant of medl. certificates to non-gazetted officers applying for leave, etc.
19	Babu Khagendra Binod Singh.(a)	1-7-1910 1-10-1911	1-10-1911	Bhola subdivn. and Dispy., Bakarganj (temply.), 27-8-1914.	150 20 S.J.A. D.	
20	Babu Dhirendra Nath Sen.	1-7-1910 18-12-1911	18-12-1911	Krishnagar Dispy. (temply.), 18-3-1916.	150	Gets hostel allce.
21	Babu Hemendra Nath Chatarji.	6-3-1911 18-12-1911	18-12-1911	Medical Officer, E. B. Railway (Sara).	140	
22	Mr. Dinesh Chandra Chakrabatti, F R.C.S., (Edin.)	28-12-1911	28-12-1911	Offg. Imambara Hospl., Hooghly, 18-7-1916.	130	Gets hostel or duty allce.

(a) Qualified in X-Ray work.

LIST OF CIVIL ASSISTANT SURGEONS OF THE SUBORDINATE MEDICAL DEPARTMENT.

No.	NAME.	Date of appointment.	Date of appointment to present grade.	Nature of appointment and date thereof.	Pay.	REMARKS.
			3rd Grade.			
23	Babu Nalini Ranjan Sen Gupta, M.D.	3-1-1912	3-1-1912	Regr. of Medical cases, Medl. Coll. Hospl., Calcutta. 11-7-1913.	Rs. 140	
24	Babu Girish Chandra Maitra.	31-5-1911 5-5-1912	5-5-1912	Asst. to the Special Deputy Sanitary Commr. Malaria Research, Bengal, 11-4-1916.	140	On deputation to Karachi.
25	Babu Nripendra Kumar Basu, M.B.	18-2-1912 24-7-1912	24-7-1912	Resdt. Asst. Surgn, Sambhu Nath Pandit Hospl, Bhawanipur, 1-10-1915.	130 50 L.A. 15 R.P.A.	Gets hostel allce. or duty allce.
26	Babu Jogendra Nath Basu.	12-4-1913	12-4-1913	Health Officer, Port of Chittagong, 1-3-1916.	110	Gets hostel allce. varying from Rs. 10 to Rs. 80.
27	Babu Dwijendra Nath Bhaduri.	12-8-1914 1-9-1914	1-9-1914	Resdt. Asstt. Surgeon, Genl. Hospital, Howrah, 18-1-1916.	110	
28	*Babu Subodh Kumar Lahiri, M.B.*	*8-9-1914* *1-1-1915*	*1-1-1915*	*Anæsthetist, Medl. College Hospls., Calcutta, 16-7-1915.*	*110*	
29	Babu Narendra Nath Ghosh, M.B.(a)	16-8-1914 24-1-1915	24-1-1915	Ghatal subdivn. and Dispy., Midnapore, 11-1-1917.	110 20 S.J.A. or duty allce.	
30	Rai Sahib Girish Chandra Bagchi.	1-3-1915	1-3-1915	Supy. duty, Medl. College Hospls, 1-12-1916.	100	Granted an extension of service up to 15-8-1917.
31	Babu Banbihari Mukharji M.B.	16-8-1914 1-3-1916	1-3-1916	Medl. Officer, E. B.Ry., Paksey (temply.), 15-2-1616.	100	
32	Babu Upendra Nath Das, M.B.	5-9-1914 1-4-1916	1-4-1916	Presy. General Hosptl. (temply.), 2-5-1915.	100 50 D.A. 30 H. Rent 20 X'Ray allce.	
33	Babu Hemendra Nath Bakshi.	16-8-1914 28-12-1916	28-12-1914	Siliguri subdivn. and Dispy., Darjeeling (temply.), 1-11-1915.	100 20 S.J.A. or duty allce. 20 Dispy. A. 30 L. A.	
34	*Babu Satya Charan Sen, M.B.*	*7-2-1917*	*7-2-1917*	*Anæsthetist Medical College Hospitals, Calcutta.*	100	

LIST OF TEMPORARY CIVIL ASSISTANT SURGEONS.

No.	NAME.	Date of appointment.	Nature of appointment and date thereof.	Pay.	REMARKS.
1	Babu Akhil Ranjan Mazumdar, M.B. (a)	18-8-1914	Nator subdivn. and Dispy, Rajshahi (temply.), 29-8-1916.	Rs. 100 20 S.J.A. (Duty).	
2	,, Jitendra Kumar Banarji, M.B.	6-9-1914	Presy. Genl. Hosptl., 6-4-1915 ...	100 50 L.A. (Duty). 30 H. Rent.	
3	,, Bijitendra Basu ...	9-9-1914 14-11-1916	Addl. Asst. Surgeon, S. N. P. Hosptl., Bhawanipur (temply.), 14-11-1916.	100 15 R.P.A.	

(a) Qualified in First aid to the Injured and in ambulance work.

LIST OF TEMPORARY CIVIL ASSISTANT SURGEONS.

No.	NAME.	Dat of appoint-ment.	Nature of appointment and date thereof.	Pay.	REMARKS.
				Rs.	
4	Babu Rash Bihari Datta ...	7-11-1914	Asst. Apothy., Medl. Coll. Hosptl., Calcutta (temply.), 7-11-1914.	100 50 L.A.	
5	,, Kartik Chandra Bakshi, M.B.	10-12-1914	Medl. Officer, E. B. Ry., Amjugaon (temply.), 10-5-1916.	.....	
6	,, Binod Bihari Hajra, M.B. ...	9-4-1915	Presy. Genl. Hospl. (temply.), 14-3-1916.	100 50 L.A. 30 H. Rent.	
7	,, Haris Chandra Sen, M.B. ...	18-9-1915	Presy. Genl. Hosptl. (temply.), 18-9-1915.	100 50 L.A (Duty). 30 H.A.	
8	,, Kanak Chandra Baral, M.B.	1-10-1915	Emergency Officer Medl. Coll. Hosptl. (temply.), 1-10-1915.	100 50 duty allce	
9	,, Susil Kumar Bhattacharji...	4-10-1915	Presy. Genl. Hosptl. (temply.), 4-10-1915.	100 50 L.A. (Duty). 30 H. Rent.	
10	,, Bama Charan Munshi, M.B.	1-11-1915	Offg. Tangail Sub Dvn. and Dispensary, Mymensingh.	100	
11	,, Charubrata Roy, M.B. ...	1-2-1916	Spl. duty in connection with diabetes enquiry. 1-2-1916	100 50 L.A.	
12	,, Keshab Chandra Sen Gupta, M.B.	8-2-1916	Medl. Officer, E. B. Ry., Chitpore (temply.) 3-12-1916.	100	
13	,, Amulya Ratan Chakrabatti, M.B.	8-3-1916	Demonstrator of Physics and Chemistry, Medl. College. 8-3-1916.	100	
14	,, Jatindra Mohan Mukharji	15-5-1916	Asst. to the Civil Surgeon, 24-Parganas (temply.), 16-5-1916.	100 50 L.A. 20 C.A.	
15	,, Chandi Charan Mitra, M.B.	30-5-1916	Supy. duty, Sambhu Nath Pandit Hosptl., Bhawanipur.	100	
16	,, Monoj Nath Gupta, M.B. ...	8-6-1916	Patuakhali subdivn. and Dispy., Bakarganj (temply.), 19-12-1916.	100 20 S.J.A. or duty allce.	
17	,, Krishnadhan Sinha, M.B. ...	10-6-1916	Depy. Supdt., European Lunatic Asylum, Bhawanipur (temply.), 13-6-1916.	.....	
18	,, Gopipada Khan, M.B. ...	22-6-1916	Spl. duty under the H. O., Port of Calcutta (temply.), 23-6-1916.	100	
19	,, Jatindra Sankar Ray, M.B.	15-7-1916	Cox's Bazar subdivision and Dispy. Chittagong (temply.), 3-10-1916.	100 20 S.J.A. Duty allce. also draws H.A. 50 L.A.	
20	,, Manmatha Nath Chatarji, M.B.(a)	28-8-1916	Police Training College Sardah, Rajshahi (temply.), 2-1-1917.	100 75 L. A. 50 D. A. 10 D. A.	
21	,, Nabajiban Banarji, M.B. ...	13-9-1916	Spl. duty (Survey and Settlement Training Camps, Brahmanbaria. 17-12-1916.	100 50 L. A.	
22	,, Sita Nath Ghosh, M.B. ...	14-10-1916	Supy. duty, Medl Coll. Hospl. ...	100	
23	,, Khagendra Mohan Basu, M.B.	2-2-1917	Perozpur subdvn. and Dispy., Bakarganj (temply.). 9-2-1917.	100 20 S.J.A. or duty allce.	
24	Jahar Lal Das	23-2-17	Assistant to the special Dy. Sany. Commr. Malaiila Research, Bengal.		

VISITORS OF THE LUNATIC ASYLUM AT BHAWANIPUR.

District Judge, 24-Parganas.
Addl. Dist. Judge, 24-Parganas.

Magistrate, 24-Parganas.

Civil Surgeon, 24-Parganas.
Commissioner of Police, Calcutta.
Deputy Commissioner of Police, Calcutta.

* Senior Medical Officer, Station Hospital.
* Surgeon-Superintendent, Presidency General Hospital.
* Second Resident Surgeon, Presidency General Hospital.

Superintendent of the Presidency Jail.
C. Morris.
Mr. W. T. Grice.
Mr. G. B. McNair.

* *Ex-officio.*
(a) Qualified in First aid to the Injured and in Ambulance work.

PART XXIVA.

SANITATION AND VACCINATION DEPARTMENTS.

Sanitary Board in Bengal.

The Member of the Board of Revenue, Bengal	*President.*
The Chief Engineer to the Government in the Irrigation Department	*Members.*
The Chief Engineer to the Govt. in the Buildings and Roads Branch of the P. W. Dept., Bengal	*Members.*
The Sanitary Commissioner, Bengal	*Members.*
The Hon'ble Babu Surendra Nath Roy	*Members.*
Mr. S. H. Ashworth	*Members.*
The Hon'ble Nawab Saiyid Nawab Ali Chaudhuri, Khan Bahadur	*Members.*
The Sanitary Engineer, Bengal	*Secretary*, ex-officio.

SANITARY COMMISSIONER'S DEPARTMENT.

RANK AND NAME.	Appointment.	Date of appointment.	Pay.	REMARKS.
Major William Wesley Clemesha, M.D., I.M.S.	Sanitary Commissioner for Bengal (*a*)	11-3-1910	Rs. 1,500—1,800	Is also in charge of the Vaccination Dept. in Bengal. Offg. Sany. Commr. with the Govt. of India, 13-4-1915.
Dr. C. A. Bentley, M.B., D.P.H.	Sub. *pro. tem.* Sany. Commr. Bengal, with effect from the 9-11-1915.	8-5-1911	1,500 200 L.A.	
Major Arthur Brownfield Fry, M.D., I.M.S.	Spl. Dy. Sany. Commr. for Malaria Research, Bengal.(*a*)	1-12-1910	900 200 S.A.	Reserved for I.M.S. On depn.
Capt. Andrew Monro Jukes, M.D., I.M.S.	Dy. Sany. Commr., Presy. Circle, Bengal, Calcutta. (*a*)	13-7-1912	600 200 S.A.	Reserved for I.M.S. Also draws house allce. On depn.
Babu Bipin Bihari Brahmachari, L.M.S	Offg. ditto. Presy. Circle (*a*)	4-5-1916	450	
Capt. K. K. Mukharji, I.M.S. ...	Dy. Sany. Commr., Burdwan Circle (*a*)	8-12-1913	400 350 S.A.	Tempy. ditto.
Dr. S. N. Sur, M.B., D.P.H., D.T.M.	Offg. Dy. Sany. Commr., Burdwan Circle (*a*).	18-12 1916	450	
Dr. R. B. Khambata, M.R.C.S., L.R.C.P., D.P.H.	Dy. Sany. Commr. Rajshahi Circle (*a*)	18-1-1913	600	On special Malaria Research duty from 28-6-1916.
Dr. S. P. Gupta, L.M.S., D.P.H.	Offg. Dy. Sany. Commr., Rajshahi Circle (*a*), 14-12-1916.	14-12-1916	450	
Dr. Muhammad Ibrahim Sufi, B.A., L.R.C.P.S., L.F.P.S., D.P.H.	Dy. Sany. Commr., Dacca Circle (*a*)	7-4-1913	600	
Civil Asst. Surgeon Girish Chandra Maitra.	Asst. to Spl. Deputy Sany. Commr.	-4-1916	140 100 L.A.	On deputation.

(*a*) Debarred from private practice

SANITARY COMMISSIONER'S DEPARTMENT.

RANK AND NAME.	Appointment.	Date of appointment.	Pay.	REMARKS.
			Rs.	
Asst. Surgeon Mahendra Kumar Chakrabatti.	Inspector, Animal Vaccination Depôt, Calcutta.	27-8-1902	220 50 L.A.	
Dr. W. C. Hossack, M.D., D.P.H.	Health Officer, Port of Calcutta (*a*)	1-5-1910	1,200 50 C.A.	When a Commissioned Medical Officer is appointed, he will receive the pay of a 1st class Civil Surgeon *plus* a staff allowance of Rs. 200.
Mily. Asst. Surgeon A. R. Duckworth.	*Asst. Health Officer, ditto ...*	*1-7-1911*	...	*On deputation.*
Civil Asst. Surgeon Manindra Nath Bhattacharji.	On duty under the Health Officer, Port of Calcutta.	3-12-1901	220	Offg. Asstt. Health Officer.
Civil Asst. Surgeon Jogendra Nath Basu.	Health Officer, Port of Chittagong	1-3-1916	110	
Babu Jahar Lal Das ...	Teacher of Hygiene, Sany. Inspector's Training Class,	20-2-1913	170	

Sanitary Engineer's Department.

George Bransby Williams, M. INST. C.E., M.I.M.E. (*b*)	Sanitary Engineer, Bengal ...	19-2-1909	1,650—50—2,000.	*Ex-officio* Secy. to the Sanitary Board, Bengal.
Alfred John Goodwin Maflin, A.M.I.C.E., M.R. SAN. I.	Asst. ditto, ditto	3-11-1911	500—40—700	Draws Rs. 650.
F. C. Griffin, A.M.I.C.E. ...	Ditto, ditto ditto	9-1913	500—50—700	Draws Rs. 600. Calcutta House allowance.
Rai Sahib Krishnadhan Banarji	P. A. to ditto ditto	2-10-1909	300	

(b) Holder of South African War Medal (Queen's) with 4 clasps.

PART XXV.

POLITICAL DEPARTMENT.

List of Officers in Political employ.

Appointment.	Place.	NAME.	Date of appointment.	Pay.	REMARKS.
Agent to the Governor-General in Council for the Affairs of the late King of Oudh and for the purposes of Act XIX of 1887.	Calcutta ...	The Hon'ble Mr. C. H. Kesteven.	...	...	Solicitor to Government.
Supdt. of Political Pensions ...	Ditto ...	Collector, 24-Pargs.	16-5-1888	...	*Ex-officio.*
Political Agent, Hill Tippera State*	Agartala...	J. Bartley, I.C.S. .	24-7-1915	...	

*For Political purposes Hill Tippera State is under the control of the Commissioner of Chittagong.

LIST OF GAZETTED OFFICERS EMPLOYED IN NATIVE STATES.

NAME.	Appointment under Government.	Appointment in Native State.	Date of appointment in Native State.	Net salary.	REMARKS.
				Rs.	
Mr. J. A. Milligan, I.C.S....	Magistrate and Collector, 3rd grade.	Cooch Bihar	1-7-1916	2,000	Vice-President, Cooch Bihar State Council.
Babu Prasanna Kumar Das Gupta, B.A.	Deputy Collector, 3rd grade.	Hill Tippera ... ... (Manager, Chakla Roshunabad,)	1-5-1907	800	Also draws Rs. 300 per mensem for performing the duties of Minister in addition.

PART XXVI.

CLASSIFIED LIST OF OFFICERS ATTACHED TO THE PUBLIC WORKS DEPARTMENT, BENGAL.

NAME.	Station.	Examinations passed.	Date of appointment— To class.	Date of appointment— To P. W. D.	Total service on 1st Apl. 1917— from first appointment as A. E. In class.	Total service on 1st Apl. 1917— from first appointment as A. E. In P.W.D.	REMARKS.
					Y. M.	Y. M.	
Engineer Establishment.							
Chief Engineer, Class I, at Rs. 2,750.							
** Henry Hennis Green (20) (21).	Calcutta ...	D. S., L....	1-10-1915	23-9-1883	1 6	33 7	Chief Engineer and Secretary to Government, R. and B. and Railways. Draws a remunerative L. A. of Rs. 250 p. m.
Chief Engineer, Class II, at Rs. 2,500.							
** The Hon'ble Mr. Francis Arthur Addams Cowley.	Calcutta ...	D. S., L....	26-10-1916	1-10-1890	0 6	26 6	Addl. Member, Bengal Legislative Council. Chief Engineer and Secretary to Govt., Irrgn. and Marine Depts., Tempy. Draws a remunerative L. A. of Rs. 250 p. m.
Superintending Engineers, Class I, at Rs. 2,000							
Joly de Lotbinière, Bt.-Col. Alain Chartier deL., R.E., C.S.I., C.I.E.	.....	L. S. ...	20-9-1914	16-3-1887	2 3	30 1	Services placed at the disposal of Commander-in-Chief.
** John Zorab ...	Calcutta ...	L. S., L. ...	26-1-1917	1-10-1890	0 3	26 6	S. *p. t.* Presidency Circle.
Superintending Engineers, Class II, at Rs. 1,750							
** Oswald Sergeant Smith	.....	L. S., L....	1-4-1912	1-10-1889	5 0	27 6	On combd. leave for 2 years from 12-10-1915.
** The Hon'ble Francis Arthur Addams Cowley.	...	D. S., L....	20-9-1914	1-10-1890	2 6	26 6	Chief Engr., 2nd class (tempy.).
Mitra, Beni Madhab, Rai Sahib, B.E. §.	Calcutta ...	D. S., L. ...	26-1-1917	21-6-1899	0 3	27 10	S. *p. t.* Central Circle.
Das, Amar Nath, Rai Bahadur, B.E. §	Calcutta ...	D. S., L....	26-1-1917	11-11-1896	0 3	19 5	Tempy. South-Western Circle.

** Civil Engineers from Royal Indian Engineering College.
§ Ditto from Indian Colleges belonging to the Imperial Services.

PUBLIC WORKS DEPARTMENT, BENGAL.

NAME.	Station.	Examinations passed.	Date of appointment— To class.	Date of appointment— To P.W.D.	Total service on 1st Apl. 1917— from first appointment as A. E. In class.	Total service on 1st Apl. 1917— from first appointment as A. E. In P.W.D.	REMARKS.
					Y. M.	Y. M.	
Superintending Engineers, Class III, at Rs. 1,500.							
●○ Charles Peregrine Walsh	.....	L. S., Kl.	30-11-1913	1-10-1890	3 4	26 6	On combined leave for 1 year from 28-10-1916.
○○ Christopher Adlams-Williams, C.I.E.	.....	D. S., L....	20-2-1914	1-10-1897	2 6	19 6	On combined leave for 9 mos. from 25-6-1916.
●○ *George Goodair Dey* ...	*Darjeeling* ...	*L. S., L.* ...	*26-1-1917*	*1-10-1899*	*0 3*	*17 6*	*S. p. t. Northern Circle.*
○○ *Robert Cecil Hodgson* ...	*Dacca* ...	*L. S.* ...	*26-1-1517*	*1-10-1900*	*0 3*	*16 6*	*Tempy. Eastern Circle.*
Executive Engineers, Class— } Imperial Service—Rs. 800—50—1,250. } Provincial Service—Rs. 535—35—850.							
Matadin Sukul, Rao Sahib, M.A§.	.....	D. S., E.	3-11-1898	14-5-1886	18 3	29 11	Irrgn. Draws Rs. 1,250. Combined lv. for 6 mos. from 24-1-1917.
○○ John Zorab ...	.....	E. L. S., L.	17-11-1901	1-10-1890	15 6	26 6	S. E., 1st class (s. *p. t.*).
Rai Sahib Beni Madhab Mitra, B.E §. †	.....	D. S., L.	2-4-1902	24-6-1889	15 0	27 10	S. E., 2nd class (s. *p. t.*).
○○ Charles William Sibold	Calcutta ...	L. S., L.	1-10-1903	1-10-1892	13 6	24 6	Draws Rs. 1,250. First Calcutta Division.
George John St. Clair Sedgley, L.E.§	Ditto ...	D. S., L.	1-10-1904	16-9-1892	12 6	24 7	Irrigation. Draws Rs. 1,250. Circular and Eastern Canals Divn.
Madhusudan Sen Gupta, B.E.§	Rajshahi ...	L. S., L.	5-7-1905	2-12-1893	11 9	23 4	P. of a magte., 3rd class, under sec. 16 of Act V (B.C.) of 1864 and secs. 93 to 95 of Act III (B.C.) of 1876. Draws Rs. 1,250. Rajshahi Divn.
Chattopadhya, Paresh Charan, B. E.§	Barisal ...	L. S., E.	7-9-1909	8-10-1895	7 7	21 6	Draws Rs. 1,000. Bakarganj Divn.

† *Ex-officio* title.
** Civil Engineers from Royal Indian Engineering College.
§ Ditto from Indian Colleges belonging to the Imperial Service.

PUBLIC WORKS DEPARTMENT, BENGAL.

NAME.	Station.	Examinations passed.	Date of appointment— To class.	Date of appointment— To P.W.D.	Total service on 1st Apl. 1917— from first appointment as A. E. In class.		In P.W.D.		REMARKS.
					Y.	M.	Y.	M.	
Executive Engineers, Class—			**{ Imperial Service—Rs. 800—50—1,250. Provincial Service—Rs. 535—35—850.**						
Rai Bahadur Amar Nath Das, B.E.§	.....	D. S., L.	8-3-1908	11-11-1896	9	1	19	5	Irrigation. S. E., 2nd class (Tempy.).
Bholanath Banarji, B.E.§ ...	Berhampore	L. S., L.	8-3-1908	26-10-1897	9	1	18	6	Irrigation. P. of a magte., 3rd class, under sec. 16 of Act III (B.C.) of 1864 and secs. 93 to 95 of Act V (B.C.) of 1876. Draws Rs. 1,150. Nadia Rivers Divn.
°° George Goodair Dey ...	.....	L. S., L.	8-3-1908	1-10-1899	9	1	17	6	S. E., 3rd Class (s. *p. t.*).
°° Robert Cecil Hodgson ...	.....	L. S.	1-10-1908	1-10-1909	8	6	16	6	S. E., 3rd class (Tempy.)
°° Cecil Bertrand Lines ...	Dacca ...	L. S.	1-10-1909	1-10-1901	7	6	15	6	P. of a magte., 3rd class, under sec. 16 of Act V (B.C.) of 1864 and secs. 93 to 95 of Act III (B.C.) of 1876. Draws Rs. 1,050. Dacca Divn.
°° Bertram Granville Gwyther.	Darjeeling ...	† E., L. S.	1-10-1910	1-10-1902	6	6	14	6	Draws Rs. 1,000 Darjeeling Divn.
†† George Alexander Easson, B.Sc. (Edin.).	Calcutta ...	E., L. S.	1-10-1912	1-10-1904	4	6	12	6	Draws Rs. 900. Under-Secy. to Govt., Building Branch. Draws a renumerative local allowance of Rs. 100 per mensem.
Rai Shashi Bhushan Mazumdar Bahadur, P. S.	Ditto ...	...	25-4-1913	1-2-1893	4	0	1		Examn. in Law, Parts A and C. Third Calcutta Divn. Draws Rs. 500.
†† Walter Joule Kerr, B.A.	Chittagong	† E., L., L. S.	1-10-1913	1-10-1905	3	6	11	6	Chittagong Divn. Draws Rs. 850.
Shailendra Nath Banarji, B.A., B.E., P.	Calcutta ..	† E., L. S., L.	30-1-1914	30-1-1906	3	2	11	2	Irrigation. Northern Drainage and Embankment Division. Draws Rs. 535.

** Civil Engineers from Royal Indian Engineering College.
†† Ditto appointed by Secretary of State from other than Royal Indian Engineering College
§ Ditto from Indian Colleges belonging to the Imperial Service.
P. Ditto from Indian Colleges belonging to the Provincial Service.
P.S. Ditto promoted from the rank of Upper Subordinate.
†*Ex-officio* title.

PUBLIC WORKS DEPARTMENT, BENGAL.

NAME.	Station.	Examinations passed.	Date of appointment— To class.	Date of appointment— To P. W. D.	Total service on 1st Apl. 1917— from first appointment as A. E. In class. Y. M.	Total service on 1st Apl. 1917— from first appointment as A. E. In P.W.D Y. M.	REMARKS.
Executive Engineers, Class— { **Imperial Service—Rs. 800—50—1,250.** **Provincial Service—Rs. 535—35—850.**							
†† Albert Francis Louis Helfrich Harrison, A.M.I.C.E	.....	† E., H. S.	1-10-1914	1-10-1906	2 6	10 6	Draws Rs. 800. Services placed temporarily at the disposal of His Excellency the Commander-in-Chief.
°° Clifford Pevensey Mattison Harrison, A.M.I.C.E.	Midnapore	E., H. S., L.	1-1-1915	1-1-1907	2 3	10 3	Irrigation. Draws Rs. 800. Cossye Divn.
Herbert Clarence Vieyra, B.E., P.	Hooghly ...	E., H. S. L.	9-5-1915	9-2-1906	1 11	10 2	Draws Rs. 475. Burdwan Divn.
Mitra, Anadi Nath, P. ...	.....	E., H. S., L.	23-9-1915	23-9-1906	1 7	9 7	Draws Rs. 475. On combined leave for 6 mos from 16-1-1917.
†† Hugh Terrell, A.M.I.C.E	.....	L. S., H.S., E.	1-10-1916	1-10-1908	0 6	8 6	Draws Rs. 700. Passed examination in Law Pt. B. Services placed temporarily at the disposal of His Excellency the Commander-in-Chief.
†† Alfred John Goodwin Maflin, A.M.I.C.E., A.C.G.I. M.R.S.I.	Calcutta ...	L., L. S., E. †	1-10-1916	1-10-1908	0 6	8 6	Draws Rs. 700. Asst. Sany. Engr.
†† Douglas John Blomfield, A.C.G.I.	.....	E., H. S., L.	1-10-1916	1-10-1908	0 6	8 6	Draws Rs. 700 Services placed temporarily at the disposal of His Excellency the Commander-in-Chief.
Patrick Hugh Barboza, B.E., P.	.....	E., H. S., L.	10-1-1917	31-12-1907	0 3	8 3	Draws Rs. 421. On combined leave for 6 mos. from 12-10-1916.
A. J. King, B.E., *P.* ...	*Jalpaiguri* ...	*E., H. S.*	*11-7-1915*	*26-1-1912*	...	*4 3*	*Offg. Duars Road Divn.*
Mitra, Sarada Charan, B.E., *P. S.*	*Jalpaiguri* ...	.....	.....	*15-11-1883*	...	6 3	*Offg. Jalpaiguri Divn.*

** Civil Engineers from Royal Indian Engineering College.
†† Ditto appointed by Secretary of State from other than Royal Indian Engineering College.
P. Ditto from Indian Colleges belonging to the Provincial Service.
P.S. Ditto promoted from the rank of Upper Subordinate.
† *Ex-officio* title.

PUBLIC WORKS DEPARTMENT, BENGAL.

NAME.	Station.	Examinations passed.	Date of appointment— To class.	Date of appointment— To P. W. D.	Total service on 1st Jan. 1917—from first appointment as A. E. In class. Y. M.	Total service on 1st Jan. 1917—from first appointment as A. E. In P.W.D. Y. M.	REMARKS.
Assistant Engineers, Class— { **Imperial Service—Rs. 380—40—750.** **Provincial Service—Rs. 250—25—475.**							
†† C. W. T. Green ...	.....	E., H. S.	1-10-1909	1-10-1909	7 6	7 6	Draws Rs. 660. Services placed temply. at the disposal of His Excellency the Commander-in-Chief.
†† Hugh Gordon Francis, A.C.G.I.	.....	H. S., E., L.	1-10-1909	1-10-1909	7 6	7 6	Ditto ditto.
Binay Ranjan Haldar, B.E., P.	Pamkura ...	H. S., E., L.	28-5-1910	28-2-1909	6 10	6 10	Irrigation. Draws Rs. 400. Cossye Divn.
Sarada Charan Mitra, B.E., P. S.	Jalpaiguri ...	...	1-1-1911	15-11-1893	6 3	6 3	Draws Rs. 400. *Offg.* Exe. Engr., Jalpaiguri Divn.
†† J. C Stronach, B.A. (13) (Dub.).	.....	H. S., E.	1-10-1911	1-10-1911	5 6	5 6	Draws Rs. 580. Services placed at the disposal of the Chief Commr. of Delhi.
Adya Nath Basu, B.E., P. ...	Asansol ...	E., H. S.	11-1-1912	11-1-1911	5 3	5 3	Draws Rs. 350. Burdwan Divn.
†† John Alan Stein, A.C.G.I.	.....	E. L.	1-10-1912	1-10-1912	4 6	4 6	Draws Rs. 460. Services placed temply. at the disposal of His Excellency the Commander-in-Chief.
†† Douglas Harold Green, B.Sc. (Lond.), A.C.G.I.	.....	E.	1-10-1912	1-10-1912	4 6	4 6	Draws Rs. 540. Passed exmn. in Law, Pts. A. and C. Services placed temply. at the disposal of the Commander-in-Chief.
Jatindra Nath Mullik, B.E. *P. S.*	*Burdwan* ...	...	*1-1-1913*	*30-10-1895*	*4 3*	*4 3*	*Supp. Dist. Engr., Burdwan. Passed exmn. in Law, Part A.*
A. J. King, B.E., P. ...	Jalpaiguri ...	E., H. S., L.	26-1-1913	26-1-1912	4 3	4 3	Draws Rs. 350. Duars Road Divn. Offg. Ex. Engr. Draws a compensatory L.A. of Rs. 80 per mensem.

†† Civil Engineers appointed by Secretary of State from other than Royal Indian Engineering College.
P. Ditto from Indian Colleges belonging to the Provincial Service.
P.S. Ditto promoted from the rank of Upper Subordinate.

PUBLIC WORKS DEPARTMENT, BENGAL.

NAME.	Station.	Examinations passed.	Date of appointment— To class.	Date of appointment— To P.W.D.	Total service on 1st Jan. 1917—appointment as A. E. In class.	Total service on 1st Jan. 1917—appointment as A. E. In P.W.D.	REMARKS.
					Y. M.	Y. M.	
Assistant Engineers, Class— { Imperial Service —Rs. 380—40—750. Provincial Service—Rs. 250—25—475.							
†† Banke Lal Subarwal, B. SC.	Calcutta ...	E., H. S., L.S., L.	1-10-1913	1-10-1913	3 6	3 6	Draws Rs. 500. Northern Drainage and Embankment Division.
Ray Pralhat Chandra, B.E., P.	Calcutta ...	H. S. E.	15-2-1914	15-2-1913	3 2	3 2	Irrgn. Draws Rs. 300. Northern Drainage and Embankmen Div.
†† Fieldsend, C. E., B. SC.	.....	...	1-10-1914	1-10-1914	2 6	2 6	Draws Rs. 420. Services placed temply. at the disposal of His Excellency the Commander-in-Chief.
Sen Gupta, Debendra Nath, B.E., P.	Calcutta ...	E. H. S.	26-1-1915	26-1-1914	2 3	2 3	Draws Rs. 275. Circular and Eastern Canals Division.
F. H. Hogshaw, A.C.G.I.††	.....	H. S.	1-10-1915	1-10-1915	1 6	1 6	Draws Rs. 420. On probation for 2 years. Services placed temply. at the disposal of His Excellency the Commander-in-Chief.
Sur, Sharat Chandra L.E., P.S.	Diamond Harbour.	...	1-1-1917	10-10-1894	0 3	0 3	Irrgn. Passed Examination in post, Part I. Northern Drainage and Embankment Div. Draws Rs. 300.
Chatarji, Suresh Chandra, B.E., P.	Berhampore	...	24-1-1917	24-1-1916	0 3	0 3	Irrigation Draws Rs. 250 Nadia Rive s Division.
Sub-Conductor J. G. Harton, P.	Kurseong ...	...	12-9-1916	24-10-1907	...	...	Offg. Darjeeling Division.
Consulting Architects, Bengal.							
Henry Arthur Crouch, F.R.I.B.A.	Calcutta ...	...	17-7-1909	17-7-1909	...	7 9	On 5 years' agreement. Pay Rs. 1,500—50—1,750.
C. C. A. Hobbs ...	..	...	21-10-1912	21-10-1912	...	4 6	On 5 years' agreement. Pay Rs. 340—40—500. Services placed temply. at the disposal of the Commander-in-Chief.
Keir, W. I., A.R.I.B.A. ...	Calcutta ...	...	7-4-1914	7-4-1914	...	3 0	Addl. Asst. Architect. Pay Rs. 500—40—620. On 3 years' agreement.

†† Civil Engineers appointed by Secretary of State from other than Royal Indian Engineering College.
P. Ditto from Indian colleges belonging to the Provincial Service.

PUBLIC WORKS DEPARTMENT, BENGAL.

NAME.	Station.	Examinations passed.	Date of appointment— To class.	Date of appointment— To P. W. D.	Total service on 1st Jan. 1917— In class.	Total service on 1st Jan. 1917— In P. W. D.	REMARKS.
					Y. M.	Y. M.	
Electric Adviser and Electric Inspector, Bengal and Assam, under the Electricity Act.							
R. J. Browne, M.I.M.E., M.I.E.E. (15AM) (26).	Calcutta ...	...	4-11-1909	21-4-1906	7 5	11 0	Pay Rs. 1,000 + 100 personal allowance. Non-pensionable.
Electrician.							
Oakley, C. L. E. ...	Dacca ...	...	25-11-1915	25-11-1915	1 5	1 5	Pay Rs. 350.
Electrical Engineers, Calcutta Electrical Division.							
Arthur Kepple Taylor, A.M.I.C.E., A.C.G.I., M.I.E.E.	Calcutta ...	...	1-1-1914	25-2-1905	4 3	12 2	Electrical Engineer. Pay Rs. 600—40—1,000. Draws Rs. 1,000.
Marchant, H V. ...	Ditto ...	...	7-11-1916	23-5-1914	0 5	2 11	Asst. Elec. Engineer. (*s.p.t.*)
Temporary Engineers.							
C. H. Dracott, C.E. ...	Gangtok ...	...	1-7-1912	1-7-1912	...	4 9	Services retained for one year from 1-7-1916. Draws Rs. 500. Remunerative L. A. Rs. 100 per mensem.
Connell, G.	Khulna ...	...	1-11-1915	...	...	...	Pay Rs. 675.
Arboricultural Expert.							
R. L. Proudlock ...	Dacca ...	...	...	1-1-1913	...	4 3	Pay Rs. 200—15—545. Draws Rs. 455. Draws a compensatory L. A. of Rs. 100 per mensem.
Governor's Estates.							
R. W. Coryton ...	...	...	1-3-1914	1-11-1904	...	12 5	Supdt., Governor's Estates Pay Rs. 750.
Plumbing Expert.							
Swinney, W. D., M.R.S.I., F.I.S.E.	...	...	22-10-1906	22-10-1906	...	10 3	Pay Rs. 630—25—700 Services retained for a further period of five years from 22-10-1914.

PUBLIC WORKS DEPARTMENT, BENGAL.

NAME.	Station.	Examinations passed.	Date of appointment— To class.	Date of appointment— To P.W.D.	Total service on 1st Jan. 1917—appointment as A. E. In class.	Total service on 1st Jan. 1917—appointment as A. E. In P.W.D.	REMARKS.
					Y. M.	Y. M.	
Assistant Engineers, Class—			**{ Imperial Service —Rs. 380—40—750. { Provincial Service—Rs. 250—25—475.**				
†† Banke Lal Subarwal, B. SC.	Calcutta ...	E., H. S., L.S., L.	1-10-1913	1-10-1913	3 6	3 6	Draws Rs. 500. Northern Drainage and Embankment Division.
Ray Pralhat Chandra, B.E., P.	Calcutta ...	H. S. E.	15-2-1914	15-2-1913	3 2	3 2	Irrgn. Draws Rs. 300. Northern Drainage and Embankmen Div.
†† Fieldsend, C. E., B. SC.	.....	...	1-10-1914	1-10-1914	2 6	2 6	Draws Rs. 420. Services placed temply. at the disposal of His Excellency the Commander-in-Chief.
Sen Gupta, Debendra Nath, B.E., P.	Calcutta ...	E. H. S.	26-1-1915	26-1-1914	2 3	2 3	Draws Rs. 275. Circular and Eastern Canals Division.
F. H. Hogshaw, A.C.G.I.††	.....	H. S.	1-10-1915	1-10-1915	1 6	1 6	Draws Rs. 420. On probation for 2 years. Services placed temply. at the disposal of His Excellency the Commander-in-Chief.
Sur, Sharat Chandra L.E., P.S.	Diamond Harbour.	...	1-1-1917	10-10-1894	0 3	0 3	Irrign. Passed Examination in post, Part I. Northern Drainage and Embankment Div. Draws Rs. 300.
Chatarji, Suresh Chandra, B.E., P.	Berhampore	...	24-1-1917	24-1-1916	0 3	0 3	Irrigation Draws Rs. 250 Nadia Rivers Division.
Sub-Conductor J. G. Harton, P.	Kurseong ...	...	12-9-1916	24-10-1907	...	...	Offg. Darjeeling Division.
Consulting Architects, Bengal.							
Henry Arthur Crouch, F.R.I.B.A.	Calcutta ...	...	17-7-1909	17-7-1909	...	7 9	On 5 years' agreement. Pay Rs. 1,500—50—1,750.
C. C. A. Hobbs ...	..	...	21-10-1912	21-10-1912	...	4 6	On 5 years' agreement. Pay Rs. 340—40—500. Services placed temply. at the disposal of the Commander-in-Chief.
Keir, W. I., A.R.I.B.A. ...	Calcutta ...	...	7-4-1914	7-4-1914	...	3 0	Addl. Asstt. Architect. Pay Rs. 500—40—620. On 3 years' agreement.

†† Civil Engineers appointed by Secretary of State from other than Royal Indian Engineering College.
P. Ditto from Indian colleges belonging to the Provincial Service.

PUBLIC WORKS DEPARTMENT, BENGAL.

NAME.	Station.	Examinations passed.	Date of appointment— To class.	Date of appointment— To P. W. D.	Total service on 1st Jan. 1917— In class. Y. M.	Total service on 1st Jan. 1917— In P. W. D. Y. M.	REMARKS.
Electric Adviser and Electric Inspector, Bengal and Assam, under the Electricity Act.							
R. J. Browne, M.I.M.E., M.I.E.E. (15AM) (26).	Calcutta ...	...	4-11-1909	21-4-1906	7 5	11 0	Pay Rs. 1,000 + 100 personal allowance. Non-pensionable.
Electrician.							
Oakley, C. L. E. ...	Dacca ...	...	25-11-1915	25-11-1915	1 5	1 5	Pay Rs. 350.
Electrical Engineers, Calcutta Electrical Division.							
Arthur Kepple Taylor, A.M.I.C.E., A.C.G.I., M.I.E.E.	Calcutta ...	...	1-1-1914	25-2-1905	4 3	12 2	Electrical Engineer. Pay Rs. 600—40—1,000. Draws Rs. 1,000.
Marchant, H V. ...	Ditto ...	...	7-11-1916	23-5-1914	0 5	2 11	Asst. Elec. Engineer. (*s.p.t.*)
Temporary Engineers.							
C. H. Dracott, C.E. ...	Gangtok ...	...	1-7-1912	1-7-1912	...	4 9	Services retained for one year from 1-7-1916. Draws Rs. 500. Remunerative L. A. Rs. 100 per mensem.
Connell, G.	Khulna ...	...	1-11-1915	...	...	...	Pay Rs. 675.
Arboricultural Expert.							
R. L. Proudlock ...	Dacca ...	...	...	1-1-1913	...	4 3	Pay Rs. 200—15—515. Draws Rs. 455. Draws a compensatory L. A. of Rs. 100 per mensem.
Governor's Estates.							
R. W. Coryton ...	...	...	1-3-1914	1-11-1904	...	12 5	Supdt., Governor's Estates Pay Rs. 750.
Plumbing Expert.							
Swinney, W. D., M.R.S.I., F.I.S.E.	...	...	22-10-1906	22-10-1906	...	10 3	Pay Rs. 600—25—700 Service retained for a further period of five years from 22-10-1914.

PUBLIC WORKS DEPARTMENT, BENGAL.

NAME.	Station.	Examinations passed.	Date of appointment— To class.	Date of appointment— To P. W. D.	Total service on 1st Oct. 1916 in the Department— In class. Y. M.	Total service on 1st Oct. 1916 in the Department— In P. W. D. Y. M.	REMARKS.
Honorary Assistant Engineers.							
W. M. Halloran (19) ...	*Belvedere* ...	...	*1-3-1907*	*5-10-1883*			
D. R. G. Turnbull ...	*Hastings* ...	...	*1-3-1907*	*26-2-1881*			
W. J. Traise	*Calcutta* ...	...	*8-8-1911*	*16-10-1883*			
Mahendra Nath Ghosh ...	*Sarda* ...	...	*1-4-1912*	*1-5-1884*			
Rai Sahib Krishnadhan Banarji, L.E.	*Calcutta* ...	...	*1-1-1917*	*8-3-1891*			
Sub-Engineers, First Grade—Rs. 400.							
Halloran, W. M. (19) ...	Belvedere ...	...	1-1-1907	5-10-1883	10 6	33 6	Hony. Asstt. Engr. Granted second special increment of Rs. 50 p. m. from 1-1-1917. Second Calcutta Division. Granted extension of service for one year from 13-2-1917. Duty allce. Rs. 30 p. m.
Turnbull, D. R. G. ...	Hastings ...	...	1-4-1908	26-2-1881	8 8	36 2	Hony. Asst. Engr. Granted special increment of Rs. 50 p. m. from 1-4-1913. Second Calcutta Divn. Granted extn. of service up to 31-3-1917. Duty allce. Rs. 30 per p. m
Traise, W. J. ...	Calcutta ...	...	1-4-1912	16-10-1883	5 0	33 6	Hony. Asst. Engr. First Calcutta Divn. Duty allce. Rs. 30 p. m. Granted spl. increment of Rs. 50 p. m. from 1-4-1917.
Mahendra Nath Ghosh ...	Sarda ...	...	16-11-1914	1-5-1884	2 5	33 11	Hony. Asst. Engr., Rajshahi Divn.
Sub-Engineers, Second Grade—Rs. 300.							
Banku Bihari Mukharji, L.C.E.	Midnapore	...	1-4-1908	7-9-1887	9 0	29 7	Irrigation. Cossye Divn. Duty allce. Rs. 30 p. m.
Rai Sahib Krishnadhan Banarji, L.E.	*Calcutta* ...	...	*1-4-1911*	*8-3-1891*	*6 0*	*26 0*	*Hony. Asstt. Engr. Supernumerary. Deputed to Sanitary Board from 2nd October 1909. Examn. in Law, Part A.*

PUBLIC WORKS DEPARTMENT, BENGAL.

NAME.	Station.	Examinations passed.	Date of appointment—		Total service on 1st Oct. 1916 in the Department—		REMARKS.
			To class.	To P. W. D.	In class.	In P. W. D.	
					Y. M.	Y. M.	
Sub-Engineers, Second Grade—Rs. 300.							
Ananga Mohan Pal, L.E. ...	Calcutta ...	...	1-8-1911	16-2-1894	5 8	23 2	Second Calcutta Divn. Duty allce. Rs. 30 p. m.
Sub-Engineers, Third Grade—Rs. 250.							
Trailokya Nath Mazumdar, L.E.	Bhangore ...	...	1-1-1907	15-6-1892	10 3	24 10	Irrigation. Circular and Eastern Canals Division.
Satya Ranjan Khastagir, L.E.	Burdwan	...	2-2-1907	23-10-1892	10 2	24 6	Examn. in Law, pt A. Burdwan Divn. Duty allce. Rs. 30 p. m.
Surendra Nath Bhattacharji, B.E.	Chittagong	...	1-1-1909	16-1-1894	8 3	23 3	Examn. in Law, Part A. Chittagong Divn.
Gyanendra Nath Chatarji (Sr.), B.A.	Calcutta ...	...	1-1-1911	1-4-1895	6 3	22 0	Irrigation. Examn. in Law, Part A. Cossye Division.
Bourne, P. (A) ...	...	...	1-8-1911	30-3-1897	5 8	20 0	Services placed temply. at the disposal of the Chief Commr., Delhi.
Ashutosh Guha, B.E. ...	Dacca ...	...	1-3-1912	15-1-1899	5 1	18 3	Dacca Divn. Duty allce. Rs. 30 p. m.
Pyari Charan Gupta, L.E.	*Tippera* ...	...	*1-4-1912*	*2-11-1895*	*5 0*	*21 5*	*Supernumerary. Dt. Engr., Tippera.*
Nanda Lal De, L.E. ...	Barisal ...	...	1-4-1912	1-10-1897	5 0	19 6	Bakarganj Divn. Duty allowance Rs. 50 p. m.

PUBLIC WORKS DEPARTMENT, BENGAL.

NAME.	Station.	Examinations passed.	Date of appointment— To class.	Date of appointment— To P. W. D.	Total service on 1st Oct. 1916 in the Department— In class.	Total service on 1st Oct. 1916 in the Department— In P. W. D.	REMARKS.
					Y. M.	Y. M.	
Sub-Engineers, Third Grade—Rs. 250.							
Jatindra Nath Ray ...	*Darjeeling* ...	...	*16-11-1914*	*11-11-1895*	*3 5*	*21 5*	*Sub.* pro tem. *Darjeeling Divn. Duty allce. Rs. 30 p. m.*
Nagendra Nath Datta ...	*Rajshahi* ...	...	*16-11-1914*	*27-10-1896*	*3 5*	*20 5*	*Tempy. Rajshahi Divn. Duty allce. Rs. 30 p. m.*

LIST OF DISTRICT ENGINEERS IN BENGAL.

District.	NAME.	Date of birth.	Date of first appointment to public service.	Date of joining present appointment.	Pay from District Board.	Allowance from provincial revenues.	REMARKS.
					Rs.	Rs.	
Bardwan ...	Jatindra Nath Mallik, B.E.	5-10-1872	30-10-1895	27-4-1909	600	50	Rs. 500 rising to Rs. 600. Asst. Engr., Provincial Service.
Birbhum ...	Saradindu Roy, B.E. ...	1-5-1880	15-8-1913	15-8-1913	270	...	Rs. 250 rising by annual increments of Rs. 10 to Rs. 300.
Bankura ...	Suresh Chandra Chatarji, B.C.E.	...	9-8-1904	31-7-1905	300	50	Rs. 250 rising to Rs. 300 by annual increments of Rs. 10.
Midnapore ...	N. N. Bose, A M.I.C.E., M.R.S.I.	...	...	31-8-1914	520	...	Rs. 500—20—600.
Hooghly ...	Sukhendra Nath Ghosh, B.A., B.Sc., M.R.S.I.	16-10-1888	10-3-1914	27-10-1914	420	50	Rs. 400—20—500.
Howrah ...	Gyanendra Nath Gangali, L.E.	21-12-1866	2-12-1891	11-1-1897	350	...	Excludes personal allowance of Rs. 60.
24-Parganas	Karuna Kumar Datta Gupta, M.A., B.E.	17-1-1877	15-2-1907	31-1-1914	650	...	Rs. 600—25—800.
Nadia ...	Satish Chandra Chatarji, B.E.	-12-1868	23-5-1900	23-5-1900	400	...	
Murshidabad	L. C. Sen Gupta, B.E. ...	6-9-1886	-1-1909	10-1-1916	300	...	Rs. 300—20—400.
Jessore ...	Kshiti Nath Ghosh, B.A., B.E.	-2-1883	8-3-1909	1-9-1912	320	50	Pay Rs. 300—20—400.

LIST OF DISTRICT ENGINEERS IN BENGAL.

District.	NAME.	Date of birth.	Date of first appointment to public service.	Date of joining present appointment.	Pay from District Board.	Allowance from provincial revenues.	REMARKS.
					Rs.	Rs.	
Khulna ...	Rasik Lal Hui, B.A., B.E.	14-1-1881	27-11-1909	27-11-1909	420	...	Rs. 400—20—500.
Bakarganj ...	Mr. H. O'Brien, C.E., M.S.E.	21-8-1876	1-8-1899	17-8-1908	800	...	Pay Rs. 600—25—800.
Bogra ...	Babu Purna Chandra Bhattacharji, B.A., B.E.	—3-1881	16-2-1909	16-2-1909	300	...	Pay Rs. 250—10—300.
Chittagong	Mr. F. H. Hodgkins ...	3-12-1870	—4-1892	16-9-1908	750	...	Rs. 600 rising to Rs. 800 by annual increments of Rs. 25.
Chittagong Hill Tracts.	Mr. G. A. Bell ...	4-7-1880	1-11-1900	2-10-1914	280	...	Rs. 200—20—300. Draws L. A. at 10 per cent. per mensem.
Dacca ...	Mr. R. B. McCormack C.E., C.I.E.	30-6-1877	28-11-1899	7-12-1908	750	...	Rs. 600 rising to Rs. 800 by annual increments of Rs. 25.
Dinajpur ...	Babu Jamini Kanta Sen Gupta, B.E.	10-1-1879	18-12-1903	21-2-1914	520	...	Rs. 500 rising to Rs. 600 by annual increments of Rs. 20.
Faridpur ...	Babu Nani Gopal Mukharji.	12-6-1878	26-8-1902	21-6-1910	440	...	Rs. 400—20—500.
Jalpaiguri ...	Mr. W. E. McKenna ...	...	...	...	...	...	
Malda ...	Babu Surendra Nath Banarji, B.A., B.E.	...	28-2-1916	28-2-1916	250	...	Rs. 250 rising to Rs. 300 by annual increments of Rs. 10.
Mymensingh	Mr. R. K. Coxe ...	24-9-1865	26-2-1908	26-2-1908	800	...	Rs. 600 rising to Rs. 800 by annual increments of Rs. 25.
Noakhali ...	Ashwini Kumar Sen ...	—12-1870	6-9-1893	22-9-1913	340	...	Pay Rs. 300 rising to Rs. 400 by annual increments of Rs. 20. Sub-Engineer, P. W. D.
Pabna ...	Mr. J. K. Das Gupta, B.Sc. (Glasgow), A.M.I C.E., A.M.I. MECH. E	...	...	4-6-1915	250	...	Pay Rs. 250—10—300.
Rajshahi ...	Babu Pran Kumar Gupta.	...	27-10-1905	...	500	...	
Rangpur ...	Mr. S. K. Dutt, C.E., B.Sc. (Vict.), M.S.E.	6-10-1880	10-4-1910	24-10-1914	625	...	Rs. 600—25—800.
Tippera ...	Babu Pyari Charan Gupta.	8-9-1871	30-5-1909	30-5-1909	400	...	Rs. 300 rising to Rs. 400 by annual increments of Rs. 20. Sub-Engineer, 3rd grade, Public Works Department.

DEPUTY AND SUB-DEPUTY COLLECTORS ON SPECIAL DUTY IN THE PUBLIC WORKS DEPARTMENT.

NAME.	Date of appointment— To grade.	Date of appointment— To P. W. D.	Appointment.	Station.	REMARKS.
Employed on Canal Revenue Collection.					
Nil.					
Employed on Land Acquisition Work for Navigation.					
Babu Shashi Bhushan Bhattacharji.	...	22-4-1914	Probationary Deputy Collr.	Alipore ...	Employed in acquiring land for creating a spill from the Bidyadhari (central Lake channel) for improving the river and for the Kalighat-Falta Ry. Draws a special allowance of Rs. 50 a month. P. under Act I of 1894.
Employed on Land Acquisition Work for Railways.					
Babu Rebati Mohan Chakrabatti (No. I)	22-1-1909	9-9-1915	Depy. Collr., 4th grade.	Mymensingh	Employed in acquiring lands for the Mymensingh-Bhairab Bazar Railway in the district of Mymensingh. P. under Act I of 1894 in that district. Draws L. A. of Rs. 100 a month.
Babu Mathura Nath Banarji.	4-4-1912	1-12-1913	Depy. Collr., 5th grade.	Burdwan ...	Employed in acquiring lands for the Hooghly-Katwa-Burdwan-Howrah Chord, Ahmadpur-Katwa, Railways and Dasghara Jamalpur-ganj extn. of the B. P. Ry. in the districts of Birbhum, Howrah, Hooghly, Burdwan and Nadia and other minor projects in the Burdwan district. P. under Act I of 1894 in those districts. Draws a special allowance of Rs. 100 a month.
Babu Sarada Prasanna Ghosh.	1-9-1915	1-9-1915	Depy. Collr., 6th grade.	Kishoreganj (Mymensingh).	Special Land Acquisition Officer for Mymensingh Bhairab Bazar Railway. P. under under Act I of 1894. Draws L. A. of Rs. 100 a month.
Babu Shashi Bhushan Bhattacharji.	4-12-1916	22-4-1914	Probationary Deputy Collr.	Alipore ...	Employed in acquiring lands for Kalighat-Falta Ry. Draws a special allowance of Rs. 50 a month. P. under Act I of 1894.
Babu Aswini Kumar Maitra.	16-12-1916	...	Sub-Deputy Collr.	Pabna ...	Employed in acquiring lands for the Sara-Sirajganj Ry. Draws a spl. allnce. of Rs. 50 a month. P. under Act I of 1894 in the districts of Rajshahi and Pabna.

Circles and Divisions of the Public Works Department.

I. The "Presidency Circle" (headquarters, Calcutta) comprising the (*i*) First Calcutta Division, (*ii*) Second Calcutta Division, (*iii*) Third Calcutta Division, (*iv*) Electrical Division, and (*v*) local works in the districts of Howrah and the 24-Parganas.

II. The "Northern Circle" (headquarters, Darjeeling) comprising (*i*) Darjeeling Division (*ii*) Rajshahi Division, (*iii*) Jalpaiguri Division, Duars Road Division (temply.), and (*iv*) local works in the districts of Darjeeling, Jalpaiguri, Dinajpur, Pabna, Rangpur, Bogra, Malda and Rajshahi.

III. The "Eastern Circle" (headquarters, Dacca) comprising (*i*) Dacca Division (*ii*) Chittagong Division, (*iii*) Bakarganj Division, and (*iv*) local works in the districts of Dacca, Mymensingh, Faridpur, Bakarganj, Noakhali, Tippera, Chittagong and Chittagong Hill Tracts.

IV. The "Central Circle" (headquarters, Calcutta) comprising the following :—

(*i*) The Burdwan Division;
(*ii*) Nadia Rivers Division; and
(*iii*) Local works in the districts of Jessore, Khulna, Hooghly, Nadia, Birbhum, Bankura, Burdwan and Murshidabad.

V The "South-Western Circle" (headquarters, Calcutta) comprising the following :—

(i) Circular and Eastern Canals Division;
(*ii*) Northern Drainage and Embankment Division;
(*iii*) Coasye Division;
(*iv*) Revenue Division, Midnapore Canal; and
(v) Local works in the district of Midnapur.

PART XXVII.

DEPARTMENT OF AGRICULTURE.

Appointment.	NAME.	Date of appointment to Department.	Date of appointment to present grade.	Station.	Pay.	REMARKS.
					Rs.	
Director of Agriculture	S. Milligan, M.A., B.SC. (*offg.*)	10-6-1916	10-6-1916	Calcutta ...	1,500	Holds charge of the 2nd Dy. Director of Agd. in addn.
Deputy Director of Agriculture.	F. Smith, B.Sc. (Edin.), F.H.A.S., M.R.A.S.E.	28-12-1904	28-12-1911	Do. ...	500—50 —1,000	At present draws Rs. 1,000. Passed in Hindustani.
2nd Deputy Director of Agriculture.	K. McLean, B.Sc. ...	21-10-1914	21-10-1914	Dacca ...	400	On deptn. to mily. duty Mr. S. Milligan holds charge in addn. to his duties.
Personal Assistant to the Director of Agriculture.	Debendra Nath Mukharji, M.A., M.R.A.C., M.R.A.S. (Eng.).	28-8-1912	13-5-1914	Calcutta	600	
Fibre Expert	R. S. Finlow, B.Sc., F.I.C.	1-4-1904	...	Dacca ...	500—50 —1,000	At present draws Rs. 1,000. Passed in Bengali. Also does the work of the Economic Botanist and Agrl. Chemist in addn. to his duties. Draws a spl. duty allowance of Rs. 150 a month.
Agri. Chemist	H. E. Annett, B.Sc. (Lond.), F.C.S., F.I.C., M.S.E.A.C.	6-5-1907	7-1-1914	Do.	500—50 —1,000	At present draws Rs. 750. Passed in Hindustani, L. and H. Services placed temply. at the disposal of the Govt. of U. P. from 28-9-1916.
Economic Botanist ...	G. P. Hector, M.A., B.Sc.	15-1-1908	...	Do. ...	500—50 —1,000	At present draws Rs. 800. Passed in Bengali, Higher Standard. Combd. lv. for 18 mos. from 5-5-1916, viz., priv. lv. for 3 mos. and furlough for the rest.
Superintendent of Agriculture.	Jatindra Nath Chakrabatti, B.A. (Cal.). M.S.A. (Cornell, U.S.A.).	4-1-1908	...	Rangpur ...	200—400	
Ditto ...	Rajeswar Das Gupta ...	12-1-1904	...	Dacca ...	200—400	
Ditto ...	Dwijadas Datta, B.Sc. (Cal.), M.S.A.	28-5-1913	1-4-1914	Chittagong	200—400	
Ditto ...	Nagendra Nath Gupta, B.A. (Cal.), B.Sc. (Edin.).	14-5-1913	1-4-1914	Rajshahi ...	200—400	
Ditto ...	Jadu Nath Sarkar, M.S.A. (Japan).	24-6-1914	1-4-1915	Howrah ...	200—400	
Ditto ...	Hari Prasad Mitra, M.S.A. (Cornell, U.S.A.)	22-8-1914	21-8-1915	Calcutta ...	200—400	
Sericultural Superintendent.	Apurba Kumar Ghosh ...	1-4-1908	1-4-1911	Malda ...	300—500	At present draws Rs. 460.
	Prabhat Chandra Chaudhuri.	10-10-1913	...	Berhampore	200	Temporary. In charge of the Berhampore Central Nursery.

FISHERIES DEPARTMENT.

Appointment.	NAME.	Date of appointment to Department.	Date of appointment to present grade.	Station.	Present pay.	REMARKS.
					Rs.	
Dy. Director of Fisheries	T. Southwell, A.R.C.S., F.Z.S.	5-12-1911	5-12-1915	Calcutta	600—1,250	At present draws Rs. 900.
Superintendent of Fisheries.	Bipin Bihari Das, M.A.	15-1-1910	15-1-1910	Do. ...	250—400	At present draws Rs. 320. Pr. lv. for 2 mos. and 30 days from 1-3-1917.
Ditto ...	Saiyid Muhammad Mohsin.	16-10-1911	16-10-1911	Do. ...	250—400	At present draws Rs. 300.

Members of the Advisory Fishery Board.

I. Officials—

1. The Member of the Board of Revenue, engal—*President.*
2. The Director of Agriculture.
3. Major R. E. Lloyd, I.M.S.

II. Non-officials—

4. The Hon'ble Sir Bijay Chand Mahtab, K.C.S.I., K.C.I.E., I.O.M., Maharajadhiraja Bahadur of Burdwan.
5. The Hon'ble Maharaja Sir Rameswar Singh Bahadur, K.C.I.E., of Darbhanga.
6. The Hon'ble Raja Hrishikesh Laha, C.I.E.
7. Mr. Norman McLeod.
8. The Hon'ble Rai Radha Charan Pal Bahadur.
9. Babu Chandra Shekhar Prasad Singh.
10. Mr. H. F. Howard, C.I.E., I.C.S. (Representing the Commissioners of the Port of Calcutta.)

Nominees of the Commissioners of Divisions—

11. The Hon'ble Raja Rajendra Narayan Bhunj Deo of Kanika.
12. The Hon'ble Maharaja Sir Prodyat Kumar Tagore Bahadur, Kt.
13. Lieutenant-Colonel F. R. Swaine, I.M.S. (Retired).
14. Maulvi Saiyid Zahir-ud-din.
15. The Hon'ble Kumar Sheo Nandan Prasad Singh, Monghyr.
16. Raja Pyari Mohan Mukharji, C.S.I.
17. Mr. M. Mackenzie.

VETERINARY DEPARTMENT.

Appointment.	NAME.	Date of appointment to Department.	Date of appointment to present grade.	Station.	Present pay.	REMARKS.
					Rs.	
Principal, Bengal Veterinary College.	Lt.-Col. A. Smith, F.R.C.V.S.	22-7-1898	30-7-1914	Belgachia	1,120*	* Military salary.
					500†	† Civil allowance.
					100‡	‡ Local allowance (compensatory).
					150§	§ Fixed travelling allowance.
					1,870	House allowance as per Calcutta House Allowance Scheme.
Supdt., Civil Veterinary Dept., Bengal.	P. J. Kerr, M.R.C.V.S., I.C.V.D.	22-1-1911	22-1-1915	Calcutta	660	On deputation to mily. duty.
Offg. Supdt., Civil Veterinary Dept.	A. D. MacGregor ...	27-3-1914	27-3-1915	Do.	540	On deputation to mily. duty from 18-2-1916. Lt.-Col. A. Smith is holding charge in addn. to his duties from 19-2-1916 and draws a spl. duty allowance of Rs. 150 a month.
Asstt. Principal, Bengal Veterinary College, 1st grade Dy. Supdt.	Vacant ...	...	...		...	Rs. 250—15—400 scale. Local allowance (remunerative). Free quarters.
Offg. Assistant Principal, Bengal Veterinary College, 2nd grade Dy. Supdt. ranking as Lecturer.	Dibakar De ...	1-10-1899	1-4-1913	Belgachia	250	Rs. 200—10—250 scale.
					100	Local allowance.
2nd grade Dy. Supdt. ranking as Lecturer.	Surendra Krishna Mitra	15-5-1901	6-9-1916	...	200	Rs. 200—10—250 scale.
2nd grade Dy. Supdt., Civil Veterinary Dept.	Sharat Chandra Pal ...	8-12-1902	10-7-1915	Calcutta	210	Rs. 200—10—250 ,,
3rd grade Dy. Supdt. ranking as Lecturer.	Vacant ...	...	...	...	...	Rs. 150—10—200 ,,
Ditto, ditto	Saiyid Sultan Ahmad ...	26-5-1905	1-4-1913	Do.	200	Rs. 150—10—200 ,,
Ditto, ditto	Debendra Kumar Sen ...	6-6-1906	1-4-1913	Do.	200	Rs. 150—10—200 ,,

PART XXVIII.—Miscellaneous.

DEPARTMENT OF CO-OPERATIVE SOCIETIES, BENGAL.

Appointment.	NAME.	Date of appointment to Department.	Date of appointment to present grade.	Station.	Pay.	REMARKS.
					Rs.	
Registrar	Rai Jamini Mohan Mitra Bahadur.	22-11-1907	24-6-1914	Calcutta ...	900	
Officer on spl. duty ...	J. T. Donovan, I.C.S. ...	27-11-1916	27-11-1916	Do. ...	900 L. A. 150	For 6 mos. from 27-11-1916.
Personal Asst. to the Registrar.*	Asad-uz-Zaman, Dy. Collr.	24-6-1915	26-6-1912	Do. ...	400 L. A. 100†	
Inspector, C. S., Pabna Circle.	Jyotish Chandra Chakrabatti, Sub-Dy. Collr.	...	12-10-1915	Pabna ...	175 L. A. 50†	
Inspector, C.S., Dacca Circle.	Sukumar Sen, Sub.-Dy. Collr.	...	14-8-1914	Dacca ...	175 L. A. 50†	
Inspector, C. S., Madaripur Circle.	Abu Muhammad Hosamud-din Haidar, Sub-Dy. Collr	...	6-11-1912	Madaripur...	175 L. A. 50†	
Inspector, C. S., Calcutta Circle.	Akshay Narayan Mitra, Proby. Dy. Collr.	7-9-1912	1-3-1915	Calcutta ...	175 L. A. 50†	
Inspector, C. S., Bakarganj Circle.	Harendra Lal Chatarji, Sub-Dy. Collr.	24-6-1915	23-11-1913	Bakarganj...	150 L. A. 50†	
Inspector, C. S., Feni Circle.	Kshitish Chandra Gangali, Sub-Dy. Collr.	21-6-1915	14-6-1915	Feni ...	150 L. A. 50†	
Inspector, C. S., Kurseong Circle.	B. W. M. Abdur Rahman, Sub-Dy. Collr.	1-7-1915	8-1-1916	Kurseong ...	150 L. A. 50†	
Inspector, C. S., Nadia Circle.	Bata Krishna Das ...	1-8-1908	1-4-1915	Krishnagar...	190	Rs. 150—10—200 scale
Inspector, C. S., Comilla Circle.	Upendra Nath Sen ...	28-11-1910	1-4-1916	Comilla ...	140	Rs. 100—10—150 scale.
Inspector, C. S., Mymensingh Circle.	Suresh Chandra Sen ...	1-12-1910	1-4-1915	Mymensingh	130	Ditto
Inspector, C. S., Rajshahi Circle.	Muhammad Shamsuzzoha	5-2-1913	1-4-1916	Bogra ...	140	Ditto
Inspector, C. S., Midnapore Circle.	Ratinath Bose ...	1-7-1914	1-7-1916	Midnapore ...	120	Ditto.
Inspector, C. S., Faridpur Circle.	Aziz Ahmad ...	6-8-1914	6-8-1915	Faridpur ...	120	Ditto
Inspector of Weaving Societies.	Jatindra Krishna Ghosh	25-10-1915	25-10-1915	Calcutta ...	150	
Addl. Inspector of C. S., Calcutta Circle.	Muralidhar Das ...	1-4-1916	1-4-1916	Do. ...	105	
Inspector of C. S., Rangpur Circle.	Nani Gopal Chaki ...	1-4-1916	1-4-1916	Rangpur ...	105	
Inspector of C. S., Burdwan Circle.	Abul Hayat ...	17-4-1916	17-4-1916	Burdwan ...	105	
Inspector of C. S., Gopalganj Circle.	Abdul Karim ...	1-5-1916	1-5-1916	Gopalganj ...	105	

* Term of appointment of Personal Asstt. to Registrar, Co-operative Societies, sanctioned up to 31-3-1918.
† Remunerative.

REGISTRARS IN THE BENGAL SECRETARIAT.

Appointment.	NAME.	Date of appointment.	Pay.	REMARKS.
			Rs. A. P.	
* Registrar, Judl., Pol. and Appt. Depts. †	James Sinclair Wilson Young-Craig.	14-11-1899	658 5 4	
* Registrar, Genl. Dept. †	Rebati Mohan Das ...	5-9-1916	458 5 4	
Registrar, Finl. Dept. †	Rai Sahib Gyanendra Nath Mitra.	31-7-1913	538 5 4	
* Registrar, Rev. Dept. †	Narendra Nath Chatarji	2-3-1917	458 5 4	
Registrar, P. W. Dept. (Ry., Irrgn. and Marine).	A. W. Davis ...	19-4-1913	550 0 0	

* Eligible to Presidency house-rent under paragraph 457 of Manual of Appointments and Allowances of Gazetted Officers in Bengal. For incumbents drawing less than Rs. 500 a month the rates of allces. are Rs. 65 a month during the hot weather and Rs. 100 a month during the cold weather.

† Pay of the Registrars of the Civil Secretariat is Rs. 458-5-4 rising to Rs. 658-5-4 by yearly increments of Rs. 40

EMIGRATION DEPARTMENT.

Appointment.	NAME.	Pay.	REMARKS.
		Rs.	
Protector of Emigrants and Supdt. of Emigration for the town of Calcutta and the districts of Howrah, Hooghly and the whole of the Presy. Division (in addition to Dist. Magtes.) and Medl. Inspector of Emigrants (Inland Emigration) for Calcutta and its suburbs.	Charles Banks, M.D., C.M., D.P.H.	1,200 100 T.A.	Holder of Kaiser-i-Hind silver medal. Passed in Oriya, Lower Standard. Comb. lv. for 6 mos. and 6 days from 13-4-1917.
Medl. Inspr. of Emgts. (Colonial Emign.) ...	Lt.-Col. Edmund Alexander William Hall, I.M.S.	200 (Emign. allowance).	Civil Surgn. of the 24-Parganas, *ex-officio*.
Addl. Medl. Inspr. of Emgts. (Do.) ...	Military Asst. Surgeon, 24-Parganas.		
Emign. Agent, British Guiana, Trinidad, Jamaica, Fiji, Mauritius, etc.	Reginald Prescott Gibbes ...	...	
Ditto, Natal	Parry and Company.		
Ditto, Surinam	Lodewijk Grömmers.		
Emign. Agent for the French Colonies ...	Charles Jambon	...	Viz., Réunion, Guadeloupe, Cayenne, and Martinique. On mil. duty in France. Consul-Genl. for France, acting.
District Supdt. of Emigration	Magte. or Dy. Commr. of each district.	...	*Ex-officio*.
Addl. Supdt. of Emign.	The senior Jt.-Magte., or where there is no Jt.-Magte., the senior Dy. Magte. at the headquarters of each dist.	...	Ditto. Appointed to exercise limited powers for the purpose of sections 42-55 of Act VI of 1901.
Subdivisional Supdt. of Emign.	The Subdivnl. Officer of each subdivn.	...	Ditto.

EMIGRATION DEPARTMENT.

Appointment.	NAME.	Pay.	REMARKS.
		Rs.	
Registering Officers of Emigrants ...	(*a*) The Dist. Magte. of each dist. within the limits of such dist. (*b*) Every Joint-Magte., every Asst. Magte. and every Dy. Magte. exercising the powers of a Magte. of the first class stationed at the head-quarters of a dist. (*c*) Every Subdivisional Officer and every Dy. and Sub-Dy. Magte. attached to a subdivision within the limits of the subdivision to which they are respectively appointed.	...	*Ex-officio.*
Officers appointed to perform the functions of Magte. under the Assam Labour and Emigration Act.	(*a*) Every Joint-Magte. ... (*b*) The senior Dy. Magte. at the head-quarters station of each dist.	...	Ditto.
Dist. Medl. Inspr. of Emigrants (Inland Emign.)	Civil Surgn. of each dist. (except the 24-Parganas).	...	Ditto.
Addl. Medl. Inspr. of Emigrants (Inland Emign.).	The Asst. Surgn. at the head-quarters station of each dist.	...	Ditto.
Asst. Supdt. of Emigration and Medical Inspector of Emigts. (Inland Emigration), Asansol.	Sub-Asst. Surgn. Jogesh Chandra Sanyal.		
Asst. Supdt. of Emigration, Naihati ...	Private Practitioner Kumudini Kanta Chakrabatti.	...	Offg.
Ditto. Bhagalpur ...	Sub-Asst. Surgn. Anandamay Sen.		
Ditto. Embarkation Agent, and Medical Inspector of Emigrants, Goalundo.	Mily. Asst. Surgn William John Marshall. Civil Asstt. Surgeon Pratul Pati Gangali (offg.).	...	Reverted to mily. duty
Supdt. of Emigration, Sirajganj ...	The Officer in charge of the subdivision.	...	*Ex-officio.*
Medical Inspector of Labourers, Sirajganj ...	The Asst. Surgeon ...	...	Ditto.

METEOROLOGY.

Appointment.	NAME.	Date of appointment.	Pay.	REMARKS.
			Rs.	
Meteorologist, Calcutta	C. W. Peake, M.A. (Oxon)	17-7-1912	410	Rs. 350 rising to Rs. 500 by yearly increment of Rs. 30. Rent-free quarters.

BOTANIC GARDEN.

			Rs.	
Superintendent of the Royal Botanic Garden, Calcutta.	Major Andrew Thomas Gage, I.M.S.	31-7-1906	1,300	On special duty under the Govt. of India, Dept. of Rev. and Agriculture from 8-1-1917.
			200 L.A.	
	H. G. Carter (offg.) ...	28-10-1916		
Curator of Herbarium, Royal Botanic Garden, Calcutta.	Charles Cumming Calder.	22-3-1912	600—20—800	
Quinologist to the Government of Bengal.	George Elliott Shaw ...	16-12-1905	600—40—1,000	

ARCHÆOLOGICAL SURVEY.

			Rs.	
Superintendent, Archæological Survey, Eastern Circle. (a)	Dr. D. B. Spooner, B.A., Ph. D.	5-9-1910	500—25—850	
Asst. Supdt. (Architecture), Archæological Survey, Eastern Circle.	H. Panday, B.A. ...	21-12-1916		

(a) Eligible to Presidency house allowance under paragraph 45 of Manual of Appointments and Allowonces of Gazetted Officers in Bengal.

FACTORIES.

Appointment.	NAME.	Date of appointment.	Pay.	REMARKS.
			Rs.	
Chief Inspr. of Factories in Bengal ...	R. P. Adams, A.M.I. M.E.	26-3-1914	800—50—1,000	Offg. Vice-President and Secy. to the Boiler Commission in addition to his duties.
Inspector of Factories	J. Cowan, M.I. (MAR.) E., M.I.M.E.	1-3-1909	400—30—700	Inspector of Factories from 1-7-1912. Vice-President and Secretary to the Boiler Commission in addition to his duties. Draws L. A. of Rs. 250 per mensem. On leave from 25-8-1916.
	E. W. Hammond (offg.)	26-8-1916	300 A.A. 80	
Ditto	D. B. Mann ...	23-7-1912	400—30—700	
Certifying Surgeon, Barrackpore ...	Mily. Asstt. Surgeon W. O'Connor.	4-8-1915	600	

COMMERCE.

Custodian of Enemy Property, Bengal ... Controller of Hostile Firms, Bengal ...	E. N. Blandy, I.C.S. ...	18-8-1916	...	Also Liquidator of Hostile Firms under the Enemy Trading (winding up) Order, 1916.
Registrar, Joint-Stock Companies, Bengal.	W. Stather Hale, A.C.A.	16-3-1915	800—50—1,200	
Asstt. ditto ditto ...	*Vacant.*			

BOILER COMMISSION.

President of the Boiler Commission and Commissioner of Police, Calcutta.	R. Clarke ...	...	...	Fr. lv. for 2 mos. and 26 days from 5-4-1917.
	E. H. Corbett (offg.).			
Vice-President and Secretary of the Boiler Commission and *ex-officio* Member of that Commission.	J. Cowan, M.I. Mech. E., M.I. (MAR.) E.	14-3-1913	..	In addn. to his own duties as Inspector of Factories, Bengal. Draws local allowance of Rs. 250 a month. On leave from 25-8-1916.
	R. P. Adams (offg.) ...	26-8-1916		
Member of the Commission	Vacant.			
Member of the Commission *representing* Chamber of Commerce. Manager of Standard Jute Mill, Titaghar.	Chas. L. Thomson ...	Mar. 18, 1911.		
Member of the Commission and First Engr. and Shipwright-Surveyor to the Govt. of Bengal.	Graham Robertson ...	Jan. 1895	...	On combd. lv. from 21-1-1916.
	C. F. Laslett, R.I.M. (offg.).	Jan. 1916		
Member of the Commission *representing* Engineering Firms—Messrs. Jessop & Co., Calcutta.	T. Wilson ...	Mar. 1911		
	H. E. Skinner (offg.).	Mar. 1916		
Member of the Commission *representing* Colliery Owners—Messrs. Andrew Yule & Co.	H. H. Reynolds, M.I.E.E.	May 1916		

SMOKE-NUISANCES COMMISSION.

President:

° The Commissioner of the Presidency Division.

Members:

° The First Engineer and Shipwright-Surveyor to the Government of Bengal. (*a*)
° The Chief Inspector of Factories, Bengal.
° The Magistrate of Howrah.
† Mr. A. W. Lamond of the Union Jute Mills Co., Ld.
† Mr. A. Cochran of Messrs. Burn & Co., Ld.
‡ Mr. J. N. Chunder of Messrs. S. C. Chunder & Co.
¶ Mr. N. MacLeod, Supdt. of Machinery under the Port Commissioners.
°° Sir Kailash Chandra Bose, Kt., C.I.E.

TRANSLATOR TO GOVERNMENT.

Appointment.	Name.	Date of rank.	Pay.	Remarks.
			Rs.	
Bengali Translator § ...	Rai Rajendra Chandra Shastri Bahadur, M.A.	30-9-1907	400—40—600	Has extension of service for 3 years from 17-2-1915.
First Asstt. to the Bengali Translator.	Babu Bidhu Bhushan Mukharji.	...	250	

BENGAL LIBRARIAN.

Bengal Librarian ...	Babu Manmatha Nath Rudra, M.A.	30-9-1907	Rs. 250	

THE CENTRAL EXAMINATION COMMITTEE

FOR CONDUCTING THE HALF-YEARLY EXAMINATIONS OF OFFICERS UNDER THE GOVERNMENT OF BENGAL.

Members:

° Supdt. and Remembrancer of Legal Affairs, *President* (*ex-officio*).
° Secretary, Board of Revenue, Bengal, *Secretary* (*ex-officio*).
° Commissioner of the Presidency Division.
° Inspector-General of Police, Bengal.
° Registrar of the High Court, Appellate Side.
° Inspector-General of Registration.
° Additional Judge of Hooghly and 24-Parganas.
° Joint-Magistrates of Alipore.
° Deputy Inspectors-General of Police.
° Magistrate of Howrah.
° Collector of the 24-Parganas.
° Conservator of Forests, Bengal.
° Accountant-General, Bengal.
° Under-Secretary to the Government of Bengal, Public Works Department (Irrigation Branch).
° Bengali Translator to Government.
° Babu Gobind Lal Banarji.

(*a*) Also Secretary to the Commission on a local allowance of Rs. 150 a month.
° *Ex-officio*.
† Nominated by the Chamber of Commerce.
‡ Nominated by the Bengal National Chamber of Commerce.
§ *Ex-officio* member of the Central Examn. Committee for conducting the half-yearly departmental examn. of Asst. Magtes. and others.
¶ Nominated by the Port Commissioners.
°° Nominated by the Corporation of Calcutta.

ZOOLOGICAL GARDEN, CALCUTTA.

President:

The Hon'ble Mr. C. J. Stevenson-Moore, C.V.O., I.C.S., President, 15-11-1916.

Vice-President:

Philip Lindsay Buckland, F.Z.S. ... ... Vice-President, 4-7-1915.

Honorary Secretary and Treasurer:

S. C. Berridge ... ... Appointed Honorary Secy. and Treasurer, 17-5-1915.
Bijay Krishna Basu, G.B.V.C., C.M.Z.S. ... Superintendent, 17-6-1914.
Somadev Gangali ... ... Assistant Superintendent, 17-10-1914.

Committee:

Members.	Date of appointment.	Members.	Date of appointment.
Rustamji Dhunjibhay Mehta, C.I.E. ...	22-3-1899	Shirley Tremearne	28-9-1909
Lt.-Col. R. Bird, M.D., C.I.E., M.V.O., M.S., F.R.C.S., I.M.S.	12-1-1904	D. Ezra	23-11-1909
Nelson Annandale, B.A., D.SC., C.M.Z.S. ...	17-7-1905	Nawab Abul Fazl Muhammad Abdur Rahman, Khan Bahadur.	19-4-1910
W. R. Gourlay, C.I.E., I.C.S.	7-1-1908		
H. J. McIntosh	5-2-1907	William Kane Dods	4-7-1910
Ihtisham-ul-Mulk, Rais-ud-Daula, Amir-ul-Umara, Nawab Sir Asif Qadr Saiyid Wasif 'Ali Mirza, Khan Bahadur, Mahabat Jang, Nawab Bahadur of Murshidabad, K.C.S.I., K.C.V.O.	2-4-1907	Lt.-Col. Sir L. Rogers, KT., C.I.E., M.D., I.M.S., F.R.S.	5-2-1912
Lt.-Col. Charles Robert Mortimer Green, I.M.S., M.D., F.R.C.S.	5-5-1908	Lt.-Col. C. R. Stevens M.D., I.M.S. ...	15-2-1912
Ambica Charan Laha	2-7-1909	Sir R. S. Highet, KT.	30-6-1913
G. Girard, I.S.O., F.R.H.S.	24-8-1909		
The Hon'ble Sir Bijay Chand Mahtab, K.C.S.I., K.C.I.E., I.O.M., Maharajadhiraja Bahadur of Burdwan.	28-9-1909	Lieut.-Col. E. H. Brown, I.M.S. (retired), M.D., D.P.H., F.R.C.S.P.	17-5-1915
		C. W. E. Cotton, I.C.S.	13-12-1916

W. Dods Esq.

Ex-officio Members:

The Commissioners of Divisions in Bengal.
The Executive Engineer of the Public Works Department of the Division in which the Garden is placed.
The Sanitary Commissioner with the Government of Bengal.
The President of the Asiatic Society of Bengal.
The Director of Public Instruction, Bengal.
The Natural History Secretary of the Asiatic Society of Bengal.
The Director of Land Records.
The Superintendent, Civil Veterinary Department, Bengal.
The Professor of Comparative Anatomy and Zoology, Medical College, Bengal.
The Superintendent of the Royal Botanic Garden, Sibpur.
The Chairman of the Calcutta Corporation.
The Principal of the Bengal Veterinary College, Calcutta.

PUBLIC HOLIDAYS FOR 1917.

HOLIDAYS UNDER THE NEGOTIABLE INSTRUMENTS ACT, 1881.

January 27th	Sri Panchami.
March 8th	Doljatra.
April 7th	Easter Saturday.
„ 9th	„ Monday.
„ 13th	Chaitra Sankranti.
May 31st	Dasahara.
July 21st	Id-ul-fitr.
August 9th	Janmastami.
September 27th	Id-uz-zuha.
October 15th	Mahalaya.
„ 22nd, 23rd, 24th, 25th, 29th and 30th	Durga and Lakshmi Pujas.
„ 27th	Muharram.
November 14th and 15th	Kali Puja.
„ 23rd	Jagadhatri Puja
December 24th	Christmas Eve.
„ 26th and 27th	The first and second days following Christmas day.
„ 31st	The last day of the year.

(a) Sundays, New Year's day, Good Friday (6th April) and Christmas day are public holidays under the Act.

(b) March 26th declared to be a public holiday under the Act on account of the arrival of the Earl of Ronaldshay in Calcutta.

(c) The day which may be fixed for the celebration in India of the birthday of His Majesty the King-Emperor of India shall also be a public holiday and will be notified separately in due course.

HOLIDAYS UNDER THE EXECUTIVE ORDER OF GOVERNMENT.

The offices under the Government of Bengal and all Revenue and Magisterial Courts in Bengal with the exception of the offices of the Collector of Customs, Shipping Master, the Registrar of Assurances, Calcutta, the Collector of Stamp Revenue, Calcutta, and the Opium Sale Branch of Government, shall be closed on the following days in 1917 :—

I.—Muhammadan Holidays.°

Fatiha Duwazdaham	On the 7th January (Sunday), but if the moon be visible on the 25th December 1916, then on the 6th January.
Id-ul-fitr	On the 22nd July (Sunday).
Muharram	On the 26th October which is also a holiday on account of the Hindu festivals Durga and Lakshmi Pujas.
Fatiha Duwazdaham	On the 28th December, but if the moon be visible on the 15th December, then on the 27th December.

II.—Hindu Holidays.

Sri Panchami	January 28th (Sunday).
Durga and Lakshmi Pujas	October 19th, 20th, 21st, (Sunday), 26th, and 28th (Sunday).
Jagadhatri Puja	November 24th.

October 27th is a holiday on account of the Durga Puja. As, however, it is also a holiday under the Act on account of the Muhammadan festival Muharram, it is not separately notified as a holiday.

III.—Other Holidays.

The third, fourth and fifth days following Christmas day	28th, 29th and 30th December (Sunday).

° Muhammadan officers and employés in all Government offices and Magisterial Courts in Bengal, with the exception of the offices of the Collector of Customs, the Shipping Master, the Registrar of Assurances, Calcutta, the Collector of Stamp Revenue, Calcutta, and the Opium Sale Branch of Government, may be allowed to absent themselves from office on the following days in addition to the seven days allowed by the above notifications :—

Muharram	3 days.
Akhiri Chahar Shamba	1 day.
Shab-i-barat	1 „
Id-uz-zuha	1 „
Total	6 days.

LIST OF CONSULAR OFFICERS IN BENGAL.

Country.	NAME.	Designation.
1	2	3
	At Calcutta.	
Argentine Republic ...	Mr. C. W. Rhodes	Vice-Consul.
Austria-Hungary ...	.....	American Consul-General will be in charge during the war.
Belgium	Mr. J. Simon	Consul.
	Mons. J. Lince	Vice-Consul.
Bolivia	Kumar Shyama Kumar Tagore ...	Consul-General.
Brazil	Mr. J. D. S. Nahapiet ...	Consul.
	,, T. A. DeSouza	Honorary Vice-Consul.
Chili	Señor Don Carlos Campo Rencoret.	Consul-General (on leave).
	,, L. Grommers ...	Vice-Consul. (Also in charge of the Consulate-General.)
Costa Rica	Kumar Shyama Kumar Tagore ...	Consul.
Cuba	Senor E. R. Ferrar (on leave) ...	In charge of the Consulate.
	Mr. J. O. Ferrar	
Denmark	Mr. S. G. L. Eustace ...	Consul-General.
	,, E. P. J. De B. Oakley ...	Vice-Consul.
France	Mons. H. A. Lefeuvre-Meaulla ...	Consul-General.
Germany	.....	American Consul-General will be in charge during the war.
Greece	.....	Consul-General (vacant).
	Mr. E. S. Petrocochino ...	Consul.
Guatemala	Mr. E. Rolfsen (offg.) ...	Do.
Italy	Marquis McDici De	Consul-General.
	Marignano.	
Japan*	Mr. J. Shinobu (on leave) ...	Ditto.
	N. Yoshida (offg.).	

*Imperial Consulate-General for Japan has been transferred to Hotel Cecil, Simla, from 3rd June 1914.

LIST OF CONSULAR OFFICERS IN BENGAL.

Country.	Name.	Designation.
1	2	3
	At Calcutta.	
Liberia	Dr. Binode Bihari Banarji ...	Consul.
Mexico	Mr. R. L. B. Gall	Do.
Netherlands	Mons. J. Barendrecht ...	Consul-General.
	Senõr L. Grommers	Consul.
Norway	Mr. E. Rolfsen (on leave) ...	Consul-General.
	,, R. Rolfsen (offg.).	
Persia	Mirza Sir Davood Khan Meftah-os-Saltaneah, K.C.M.G.	Ditto.
	Haji Mirza Shujat Ali Beg, Khan Bahadur.	Consul.
Peru	Mr. W. A. Ironside ...	Do.
Portugal	Mons. C. Jambon (on leave) ...	Do.
	Mr. G. D. Lys (offg.).	
Russia	Mr. R. A. Lissovsky (offg.) ...	Consul-General.
	,, P. A. Rangalsky (offg.) ...	Vice-Consul.
Siam	.. ...	Consul. (Vacant.)
Spain	Mons. L. Grezoux	Honorary Vice-Consul.
Sweden	Mr. W. L. Wanklyn (on leave) ...	Consul-General.
	,, T. H Wheeler (offg.).	
United States of America ...	Mr. James A. Smith (on leave) ...	Consul-General.
	,, J. Preston Doughten ...	Vice-Consul. Also in charge of the Consulate-General.
Uruguay	Mr. G. D. Lys (offg.) ...	Consul.
Venezuela	Kumar Shyama Kumar Tagore ...	Honorary Consul.
	At Chittagong.	
United States of America ...	Mr. A. J. A. Craven	Consular Agent.
Norway	Mr. S. G. Ritherdon	Vice-Consul.
Chili	Mr. A. R. Leishman	Ditto.

PART XXIX.—Presidency and Honorary Magistrates.

PRESIDENCY MAGISTRATES IN CALCUTTA. (d)

Babu Ambika Charan Laha (*b*), 6-3-1900.
,, Atal Kumar Sen (*b*) (*c*), 30-10-1901.
,, Atul Chandra Batabyal (*b*), 13-10-1913.
,, Barendra Nath Mitra, 16-10-1915.
,, Birendra Chandra Singh, 26-5-1906.
Mr. Birendra Nath Sarkar, 16-10-1915.
Babu Brajendra Nath Mallik, 5-2-1893.
,, Chandi Charan Laha, 5-2-1893.
,, Gokul Chandra Laha, 16-10-1915.
,, Gurudas Sarkar, (*b*), 19-4-16.
,, Hem Chandra De (*b*), 16-10-1915.
,, Jadu Pati Basarji (*b*), 13-10-1913.
,, Jagat Durlabh Basak (*b*), 13-10-1913.
,, Jatindra Nath Sen, 16-10-1915.
,, Jogendra Nath Chakrabatti (*b*) (*c*), 13-10-1913.
,, Jogendra Nath Deb (*b*), 13-10-1913.
,, Jogendra Nath Mukharji (*b*) (*c*), 13-10-1913.
,, Jogendra Nath Ray, 8-5-1906.
,, Jogesh Chandra Dutt (*b*), 20-2-1877.
,, Kedar Nath Basu (*b*) (*c*), 10-11-1913.
,, Khagendra Nath Ray (*b*) (*c*), 30-3-1896.
,, Lal Bihari Basak, 19-9-1893.
,, Mohini Mohan Datta (*b*) (*c*), 13-10-1913.
,, Narendra Nath Mitra (*b*) (*c*), 30-10-1901.
,, Pashupati Nath Deb (*b*), 16-10-1915.
,, Pramatha Nath Pramanik, 16-10-1915.
,, Purna Chandra Chatarji (*b*), 1-2-1905.
,, Satish Chandra Pal Chaudhuri (*b*), 16-10-1915.
,, Satya Prasad Sarbadhikari (*b*) (*c*), 22-12-1896.
,, Satyendra Nath Sen (*b*), 11-2-1915.
,, Surendra Nath Laha, 16-10-1915.
,, Tarit Bhushan Ray (*b*), 16-10-1915.
,, Trailakhya Nath Gosain (*b*), 16-10-1915.
Clarke, Reginald (*b*), 6-4-1915.
Kumar Rajendra Narayan Ray, 16-10-1915.
Larmour, Francis Augustus Daniel (*b*) (*c*), 30-10-1901.
Madge, The Hon'ble Mr. Walter Culley, C.I.E., 12-8-1890.
Maharaja Sir Prodyot Kumar Tagore Bahadur, KT., 6-3-1900.
The Hon'ble Maulvi Abdur Rahim, 16-10-1915.
Nazimuddin Ahmad (*b*) (*c*), 13-10-1913.
The Hon'ble Mr. Altaf Ali (*b*), 16-10-1915.
Middleton, Mr. James Selbey, 24-4-1905.
Mirza Ahmad Ally, 16-10-1915.
Mirza Muhammad Bakar Shirazi, 4-11-1891.
Mr. Ezekiel Sassoon Gubbay, 30-10-1901.
,, Gyanendra Chandra Ghose (*b*), 11-4-1881.
,, I. J. Cohen, 16-10-1915.
,, Jogen Chandra Dutt (*b*), 11-1-1895.
,, J. H. Simpson, 16-10-1915.
,, Jaladhi Chandra Mukharji, 16-10-1915.
,, Rustamji Dhunjibhay Mehta, C.I.E. (*b*), 15-5-1888.
,, Rustamji Hirjibhai Manekji Rustomjee (*b*) (*c*), 20-7-1892.
,, G. P. Shelton, 27-11-1916.
Tegart, C. A., C.I.E. (*b*), 27-5-1916.
Nawab Siraj-ul-Islam, Khan Bahadur (*b*), 24-8-1885.
Nawabzada Saiyid Husain Ali Nadir Jung, 16-10-1915.
Panioty, Dr. John Emanuel (*b*) (*c*), 5-2-1893.
Phelps, Mr. William Heath, 12-8-1890.
Prince Afsar-ul-Mulk Mirza Muhammad Akram Husain Bahadur, 16-10-1915.
Rai Baikunthanath Basu Bahadur (*b*) (*c*), 9-1-1882.
,, Dr. Haridhan Dutt Bahadur, 16-10-1915.
,, Hari Ram Goenka Bahadur, 6-3-1900.
,, Jogendra Nath Mitra Bahadur (*b*) (*c*), 13-10-1913.
,, Jogesh Chandra Mitra Bahadur (*b*) (*c*), 9-1-1905.
Sir Kailash Chandra Bose Bahadur, Kt., C.I.E. (*b*) (*c*), 8-8-1895
Rai Mati Lal Haldar Bahadur (*b*) (*c*), 11-8-1905.
,, Pramatha Nath Chatarji Bahadur (*b*) (*c*), 13-10-1913.
,, Pran Krishna Biswas Bahadur (*b*) (*c*), 13-10-1913.
,, Surendra Nath Mitra Bahadur (*b*) (*c*), 13-10-1912.
,, Bahadur Bihari Lal Addi (*b*), 6-6-1906.
,, Tarak Chandra Das Bahadur (*b*) (*c*), 13-10-1913.
Raja Krishna Das Laha, 15-5-1888.
Shams-ul-Ulama 'Ata-ur-Rahman, 30-10-1901.
The Hon'ble Sir Rajendra Nath Mookerjee, K.C.I.E., 12-3-1895.
,, ,, Raja Hrishi Kesh Laha, C.I.E., 15-5-1888.
Golam Hossein Cassim Ariff (*a*), 30-10-1901.
The Hon'ble Rai Radha Charan Pal Bahadur (*b*) (*c*), 29-4-1905.
Tremearne, Mr. Shirley (*b*), 12-2-1895.
Westerhout, Mr. Alexander Benjamin (*b*) (*c*), 29-10-1897.
Zemin, Mr. Joseph Samuel, 6-3-1900.

Honorary Magistrates in the Mufassal.

N.B.—* Powers of a Magistrate of the 2nd class.
† Powers of a Magistrate of the 1st class.
All other Honorary Magistrates in the lists hold the powers of a Magistrate of the 3rd class.
‡ Power to try summarily offences under section 261.
§ Power to try summarily offences under section 260.
** Appointed before August 1898.
†† Power to try summarily offences under section 260, with the exception of the offences falling under section 411 of the Indian Penal Code.

Bakarganj.

SADAR (BARISAL) INDEPENDENT BENCH.*‡

[Also p. of a Magte., 1st class, and under section 230, to be exercised only at those sittings in which one of the members having 2nd class powers is present.]

§§ Babu Anukul Chandra Ray.
§§ ,, Akhil Chandra Datta.
§§ ,, Bihari Lal Ray Chaudhuri, (*a*) (*b*)*
,, Gyan Ranjan Goswami, * (*a*) 21-5-1915.
Maulvi Muhammad Ismail Khan Chaudhuri, (*a*) 5-2-1916.
§§ Babu Jagat Bandhu Chatarji.
§§ George Joseph Jordon (*b*),* 27-7-1914.
Babu Pratap Chandra Mukharji, § 19-4-1912.

HONY. MAGTES. AT BAKARGANJ.

,, Binod Kumar Ray Chaudhuri (*a*) (*b*), 5-2-1916.
Babu Kali Prasanna Guha Chaudhuri, (*a*) (*b*), 5-2-1916.
Rai Mathura Nath Sen Bahadur, (*a*) (*b*), 5-2-1916.

PIROJPUR INDEPENDENT BENCH. *‡

[Also p. of a Magte., 1st class, and under section 260, to be exercised only at those sittings in which one of the members having 2nd class powers is present. The Bench is also empowered to take cognizance direct of offences under the following Acts when committed within the Pirojpur Municipality:—
Municipal bye-laws under Municipal Act, III of 1884; Vaccination Act, V of 1880; Cruelty to Animals Act, I (B.C.) of 1869, and Act XI of 1890; Vital Statistics Act, IV of 1873; and section 34 of Act V of 1861.]
Rai Satyendra Nath Ray Chaudhuri Bahadur (*a*) (*b*)*, 16-10-1914.
Maulvi Saiyid ' Abdul Qadir, 29-12-1916.
[Babu Bijay Chandra Sen, 3-7-1915 (*a*) (*b*).

(*a*) Empowered to take down evidence in criminal cases in the English language.
(*b*) Authorized to sit singly for the trial of cases.
(*c*) Invested with the powers conferred by sub-section (1), section 8 of the Reformatory Schools Act, VIII of 1897.
(*d*) Presidency Magistrates of Calcutta are also *ex-officio* Justices of the Peace

HONORARY MAGISTRATES IN THE MUFASSAL.

Bakarganj.

BHOLA INDEPENDENT BENCH.[c]‡

Maulvi Ifazuddin Ahmad, 23-2-1917.

HONORARY MAGISTRATE AT DAKSAIN SHABAZPUR.

Babu Shyama Charan Mukharji (*a*) (*b*), 5-2-1916.

JHALAKATI INDEPENDENT BENCH.[e]‡

Babu Jogendra Nath Guha [e] (*a*) (*b*) (*c*), 12-10-1912.

NALCHITI INDEPENDENT BENCH.

Nil.

PATUAKHALI INDEPENDENT BENCH.[c]‡

[Also p. of a Magte., 1st class, and under section 260, to be exercised only at those sittings in which one of the members having 2nd class powers is present. The Bench is empowered to take cognizance direct of offences under the following Acts when committed within the Patuakhali Municipality :—

Municipal bye-laws under Municipal Act, III of 1884; Vaccination Act, V of 1880; Cruelty to Animals Act, I (B.C.) of 1869, and Act XI of 1890; Vital Statistics Act, IV of 1873, and section 34 of Act V of 1861.]

Babu Annada Charan De Sarkar, 29-7-1915.
[cc] Maulvi Bazalar Rahim.
Babu Nalini Kanta Ray (*a*), 25-5-1915.
[cc] Maulvi Muhammad Hafiz.
,, Saiyid Anwar Ali, 19-4-1915.

HONORARY MAGISTRATE AT PATUAKHALI.

Maulvi Fazlul Karim, (*a*) (*b*), 5-2-1916.

Bankura.

SADAR INDEPENDENT BENCH ‡

Babu Annada Prasad Datta (*a*), 23-6-1914.
,, Gagan Lal Pathak, 31-8-1915.
,, Rakhal Chandra Mukharji, 15-3-1915.
[cc] ,, Ram Nath Mukharji[a] (*a*) (*b*), 15-7-1914.
Babu Rash Bihari Banarji (*a*), 19-1-1915.
,, Sarada Prasad Pathak, 22-4-1915.
,, Suchandra Mukharji, 11-1-1917.

VISHNUPUR INDEPENDENT BENCH.‡

[cc] Munshi Asad 'Ali.
Babu Gagan Bihari Ghosh, 13-9-1915.
[cc] ,, Jagadish Chandra Sen, 13-9-1915.
,, Jogendra Nath Sing Deo.
[cc] Babu Jadu Pati Misra.
[cc] ,, Natabar Sarkar, (*d*)
[cc] ,, Sambhu Nath Misra.
Rai Sahib Umesh Chandra Chaudhuri, (*a*) (*b*) § †

HONORARY MAGISTRATE AT KHATRA.

Nil.

HONORARY MAGISTRATE AT GANGAJALGHATI.

Chondhuri Sa'id-ur Rahman Ahmad (*b*), 14-1-1916.

HONORARY MAGISTRATE AT INDAS.

Nil.

HONORARY MAGISTRATE AT SONAMUKHI.

Babu Atul Krishna Mukharji (*b*), 14-1-1916.

(*a*) Empowered to take down evidence in criminal cases in the English language.
(*b*) Authorized to sit singly for the trial of cases.
(*c*) P. under section 34 of Act V of 1861.
(*d*) Allowed only to retain designation.
(*e*) Empowered to take cognizance under section 190 (*1*) (*a*) and (*b*) of Criminal Procedure Code of cases under section 34 of Act V of 1861, under the Bengal Municipal Act and under the Municipal bye-laws occurring within the limits of the Jhalakati Municipality.

* † ‡ § ** †† For these references—See page 398.

HONORARY MAGISTRATES IN THE MUFASSAL.

Birbhum.

SURI INDEPENDENT BENCH.

Maulvi ' Abdul Kabir.
Babu Abinash Chandra Mitra (*a*), 23-3-1916.
** Khan Bahadur Ahsan Husain* (*b*).
Khan Bahadur Muhammad Shams-uz-Zoha (*a*) (*b*) † 24-10-1916.
** Babu Kedar Nath Mukharji (*a*)*
Maulvi Muhammad Mustaq Husain, 23-7-1916.
Babu Rama Prasanna Mukharji (*a*) (*b*), * 9-5-1915.
Babu Nirmal Shib Banarji (*b*), 17-3-1917.

RAMPURHAT INDEPENDENT BENCH.*

Babu Annada Prasad Mukharji, 30-10-1914.
,, Bhabesh Chandra Mandal, 10-5-1915.
,, Binode Bihari Singh. (*d*)
,, Girish Chandra Som, 4-9-1915.
,, Jugal Bihari Maka* (*a*) (*b*), 2-4-1915.
Maulvi Muhammad Zillar Rahman, 20-4-1914.
Babu Prasanna Kumar Das (*a*) (*b*), 17-5-1915.
** Maulvi Saiyid Muhammad ' Abdul Wahid Abu Ahmad
,, Satish Chandra Ghoshal, 7-4-1914.

DUBRAJPUR INDEPENDENT BENCH.*

Babu Debendra Nath Guin, 1-5-1914.
,, Harish Chandra Mukharji, 1-5-1914.
,, Kamala Kinkar Banarji, 1-5-1914.
Babu Kishori Mohan Basu (*a*), 13-1-1917.
,, Kamala Niranjan Chakrabatti, 1-5-1914.
,, Sada Niranjan Chakrabatti, 1-5-1914.

BOLPUR INDEPENDENT BENCH.*

Babu Abanish Chandra Ray, 13-5-1914.
,, Jatindra Nath Mukharji, (*a*) 12-4-1915.
Babu Tarini Lal Chaudhuri (*a*), 6-5-1915.
,, Tinkari Sarkar, 13-5-1914.

Bogra.

SADAR INDEPENDENT BENCH.‡*

** Babu Gaur Gopal Ray * 8-4-1913. (*b*)
Maulvi Hafizuddin Khundkar, (*a*) (*b*), 27-1-1916.
Babu Jogendra Nath Sarkar (*b*), 27-7-1915.
,, Mathura Nath Adhikari, 19-6-1914.
** Maulvi Mubarak ' Ali Chaudhuri. (*d*)
Babu Nritya Gopal Datta, 20-7-1915.
,, Purna Chandra Ray (*b*), 2-3-1915.
Maulvi Saiyid Abdur Rob Chaudhuri, 2-5-1916.
Maulvi Saiyid Reazuddin Kazi (*a*) (*b*), 27-7-1915.
The Hon'ble Mr. Altaf Ali, (*a*) (*b*),* 15-11-1914.
Babu Sudhir Chandra Chatarji (*a*) (*b*), 10-1-1916.

SHERPUR INDEPENDENT BENCH.‡

Babu Abinash Chandra Maitra, 8-9-1914.
,, Debendra Kishore Tarafdar, 7-4-1914.
** ,, Dina Nath Sanyal.
,, Durga Mohan Shaha, 28-8-1914.
,, Hara Gopal Das Kundu, 7-4-1914.
** Babu Hem Chandra Sanyal.
,, Jogendra Narayan Sanyal (*b*), 14-7-1914.
,, Kumud Nath Chaudhuri, 3-9-1914.
Maulvi Muhammad Habibur Rahman Khundkar, 7-4-1914.

Burdwan.

SADAR INDEPENDENT BENCH.‡*

Maulvi Saiyid ' Abdul Maula.
Babu Amulya Chandra Mitra (*a*), 7-6-1916.
** ,, Jagabandhu Mitra.* (*a*) (*b*)
,, Kulada Nanda Kabiraj.
** ,, Lala Atma Prasad Nandi.
Raja Mani Lal Singh Ray (*a*) (*b*), † 7-6-1915.
Babu Natabar Datta (*a*), 21-1-1916.
** ,, Nritya Gopal Singh. (*a*)
,, Nimai Chandra Bishwas, 24-9-1915.
** ,, Ram Narayan Datta. (*a*)
,, Shamal Das Khannah, 21-5-1916.
** ,, Shashi Bhushan Basu. (*a*)
Rai Sahib Shyama Charan Ray, (*a*) 2-8-1916.

(*a*) Empowered to take down evidence in criminal cases in the English language.
(*b*) Authorized to sit singly for the trial of cases.
(*c*) Authorized to try cases made over to him within the limits of the Sonamukhi Municipality. P. under section 190 (1) (*a*) (*b*) of the Criminal Procedure Code.
(*d*) Allowed only to retain designation.
* † ‡ § ** †† For these references—See page 398.

HONORARY MAGISTRATES IN THE MUFASSAL.

Burdwan.

RANIGANJ INDEPENDENT BENCH.*

Rev. Ashutosh Banarji, 11-9-1915.
Babu Bhagwan Das Marwari, 11-9-1915.
** ,, Bipin Bihari Banarji (a), 11-9-1915.
,, Jagannath Marwari.
,, Kali Kumar Misra (a), 1-6-1915.
Mr. Percival Stanley Keelan, 24-8-1914.
Kumar Pramatha Nath Malia (a), 11-9-1915.
Rai Pulin Bihari Lal Singh Bahadur.
,, Shudha Krishna Laik (a), 1-6-1915.
Rai Sahib Mrityunjay Chatarji (a) (b),* 28-10-1915.

ASANSOL INDEPENDENT BENCH.*‡

Babu Ashutosh Chakrabatti (a (b),* 7-7-1914.
** ,, Banwari Lal Singh Ray.
Mr. Edward Neville Forbes, 26-1-1915.
,, George Henry Fairhurst, 26-1-1915.
,, Frank Joseph Agabeg, J.P. (b) (d) † 17-11-1916.
,, Glen George, 8-8-1916.
Babu Gopal Chandra Mitra (a) (b), 3-9-1915.
,, Jahari Mal Marwari, 30-5-1916.
,, Manmatha Nath Ray (a), 3-9-1915.
,, Satya Kinkar Banarji (a), 28-6-1915.
,, Shashi Bhushan Chatarji (a), 16-1-1916.

KULTI INDEPENDENT BENCH.

Mr. G. H. Fairhurst, 3-8-1916.
Babu Manmatha Nath Ray, (a), 3-8-1916.

KALNA INDEPENDENT BENCH.*‡

** Babu Kshetra Nath Chatarji (a), 21-9-1915
,, Kali Pada Nandi Chaudhuri, (a) (b), 22-11-1915.
** Babu Madhab Lal Mehera.
** ,, Taradhan Bhattacharji.

HONORARY MAGISTRATE AT KATWA.

Nil

KATWA INDEPENDENT BENCH.

Babu Brajaballab Datta (a), 27-11-1915.
Babu Manmatha Nath Chatarji * (a), (b) (c), 27-11-1915.
Rai Rama Prasad Mallik Bahadur* (a) (b), 10-7-1916.
Babu Satindra Nath Banarji, (a), 6-3-1917.

Chittagong.

SADAR INDEPENDENT BENCH (WHEN THREE MEMBERS SIT AT A TIME).‡*

** Maulvi Aman Ali,* (a) (b), 18-8-1915.
Babu Binod Lal Ray (a) (b)*, 28-4-1914.
** ,, Durga Das Datta.* (a) (b), 18 8-1915.
** ,, Jagat Chandra Rakshit (a)*, 4-1-1916.
** Munshi Kazim Ali, 4-1-1916.*
** Babu Kshirod Chandra Das, (a) (b)*
** ,, Nimai Charan Dastidar. (g)
* Maulvi Raizuddin Ahmad, B.L. (a)*
Babu Ramesh Chandra Das (a) (b) (d) †, 25-11-1913.
Babu Upendra Lal Ray (a) (b)*, 28-4-1914.

HONORARY MAGISTRATE AT COX'S BAZAR.

Babu Anukul Chandra Datta (a) (b) (c)*, 17-12-1915.

Dacca.

SADAR INDEPENDENT BENCH.*

Maulvi Saiyid Abul Fateh Sharfuddin (a) (b), 22-5-1916.
Nawabzada Khwaja Muhammad Afzal, M.R.A.S. (Lond.) (a) (b), 2-12-1916.†
Khan Bahadur Saiyid Aulad Hussain, M.R.A.S. (a) (b)*, 11-7-1916.
Babu Dharani Nath Basak (a), 10-4-1916.
Maulvi Hafiz Khalilur Rahaman Abu Zaigham Sabir (a) (b),* 13-1-1916.
Khwaja Abdul Karim, (a), 11-7-1916.
** Maulvi Khwaja Azizullah.
Babu Nabadwip Chandra Basak (a) (b),† 25-3-1916.
,, Ram Kumar Das (a)(b), 13-11-1914.
,, Rama Nath Das, 1-11-1915.
,, Sasanka Mohan Das Gupta (a) (b), 22-11-1915.

HONORARY MAGISTRATE AT DACCA.

Babu Manomohan Chakrabatti (a) (b),* 5-2-1915.

MANIKGANJ INDEPENDENT BENCH.‡

Maulvi Abdul Sattar Khan Majlish (a), 31-1-1916.
** Babu Keshab Chandra Ghose.* (a) (b)
Babu Mathura Nath Rakshit, (a) (b), 10-1-1916.

(a) Empowered to take down evidence in criminal cases in the English language.
(b) Authorized to sit singly for the trial of cases.
(c) P. under sec. 190 (1) (a) (b) of the Criminal Procedure Code.
(d) P. under sec. 565 of the Criminal Procedure Code.
(g) Allowed to retain designation.

* † ‡ § ** †† For these references—See page 398.
.. Holder of Kaiser-i-Hind gold medal.

HONORARY MAGISTRATES IN THE MUFASSAL.

Dacca.

INDEPENDENT BENCH AT BALLA.

Babu Ramesh Chandra Ray (*a*), 26-10-1914.

Babu Sasanka Bhushan Ray (*a*) (*b*), 11-8-1914.

HONORARY MAGISTRATE AT BALLA.

°ᵃ Babu Shashi Bhushan Ray, (*a*) (*b*).

SINGAIR INDEPENDENT BENCH.

Babu Kamini Mohan Datta (*a*), 26-10-1914.

Babu Prafulla Chandra Sen (*a*), 26-10-1914.

NARAINGANJ INDEPENDENT BENCH.‡

Babu Debendrachandra Mazumdar, (*a*) (*b*), 29-7-1916.

Babu Jyotish Chandra Mukharji (*a*) (*b*),° 24-4-1916.

°° Babu Kali Prasanna Nag. (*a*) (*b*)°

MUNSHIGANJ INDEPENDENT BENCH.°‡

°° Khan Bahadur Khobirullah (*a*) (*b*), 14-4-1914.

°° Rai Bahadur Ramesh Chandra Guha † (*a*) (*b*), 14-4-1914.

SRINAGAR INDEPENDENT BENCH.†

° Babu Hara Lal Basu.
,, Indu Bhushan Roy (*a*), 15-1-1915.
Maulvi Islamdade Haldar, 15-1-1915.

°° Babu Kali Nath Basu.° (*a*) (*b*)
,, Kashi Kanta Guha (*a*), 15-1-1915.
°ᵃ ,, Rajendra Kumar Basu, (*a*) (*b*)°

Darjeeling.

SADAR INDEPENDENT BENCH.† (*d*)

Mr. C. E. Edwards, 12-10-1912.
,, Ernest Andrew Wernicke ° (*b*), 29-10-1915.
Rai Hari Mohan Chandra Bahadur † (*a*) (*b*), 30-3-1914.
Babu Lalit Krishna Biswas (*a*), 28-4-1916.

Mr. Sarada Charan Guha, (*a*) 3-7-1916.
Sardar Bahadur Bhimdal Dewan Lazarus Rai, (*a*) (*b*), 23-6-1916.

HONORARY MAGISTRATE AT KALIMPONG.

Mr. G. A. Webb (*b*), 6-2-1915.

Mr. J. M. Korb ° (*a*) (*h*), 13-1-1915.

KURSEONG INDEPENDENT BENCH. (*f*) (*g*)

Mr. Alfred Aston Barnes ° (*b*), 10-10-1916.
,, Charles William Ansell.° (*b*)

Babu Jatindra Nath Ray, (*a*) 4,9-1916.
°° ,, Siri Lal Goenka Agarwala, 15-6-1914.

HONORARY MAGISTRATE AT SILIGURI.

Nil.

Dinajpur.

SADAR INDEPENDENT BENCH.°‡

°° Maharaja Sir Girija Nath Ray Bahadur, K.C.I.E.°
Babu Hari Charan Sen (*a*) (*b*), 18-8-1914.°
°° ,, Jagat Chandra Chaudhuri.°
,, Krishna Nath Sen, (*a*), 30-10-1916.

Babu Kshitish Chandra Ray Chaudhuri, 24-12-1914.
°° Rai Radha Gobinda Ray Bahadur.°
Babu Tarakeswar Chakrabatti, (*a*), 20-10-1916.

(*a*) Empowered to take down evidence in criminal cases in the English language.
(*b*) Authorized to sit singly for the trial of cases.
(*d*) The Honorary Magistrates of Sadar Bench at Darjeeling are vested with powers under section 23.
(*f*) Vested with powers to try summarily offences under secs. 279, 285, 286, 289, 290, 311, 323, 334, 336, 352, 426 and 447 of the Indian Penal Code and offences mentioned in sec. 261 (*c*) and (*d*) of the Criminal Procedure Code.
(*g*) Vested with power to try summarily the offences specified in sec. 261 (*b*) of the Criminal Procedure Code.
(*h*) Power under section 190 (*1*) (*a*) (*b*) of the Code of Criminal Procedure within the Kalimpong and Jarubathan police-stations.

° † ‡ °° †† For these references--See page 398.

HONORARY MAGISTRATES IN THE MUFASSAL.

Dinajpur.

RAIGANJ INDEPENDENT BENCH.‡

[The Bench has also power under section 34 of Act V of 1861.]

Babu Hara Kali Sen (*a*) (*b*) (*h*), 18-3-1915.

Babu Jogendra Narayan Ray Chaudhuri, 12-4-1914.
,, Purna Chandra Singh (*a*) (*b*) (*h*), 14-11-1914.

HONORARY MAGISTRATE AT THAKURGAON.

Nil.

BALURGHAT INDEPENDENT BENCH.§‡

Babu Brindaban Chandra De (*a*), 4-9-1916.
,, Chandra Kumar Chatarji (*a*), 13-10-1914.

Babu Jogesh Chandra Banarji (*a*), 13-10-1914.
,, Purna Chandra Ray (*a*), 13-10-1914.

Faridpur.

SADAR INDEPENDENT BENCH.*‡

Munshi Muhammad Ikram, 8-8-1913.
Babu Narendra Deb Ray (*a*) (*b*), 11-7-1913.
,, Promod Lal Chaudhuri (*a*), 15-5-1916.
Maulvi Rahmat Jan Chaudhuri, 26-2-1917.
Maulvi Khan Abdul Mannan (*a*), 21-8-1916.

Baba Surendra Nath Chaudhuri (*a*), 17-7-1916.
Babu Surja Kumar Das † (*a*) (*b*), 4-5-1915.
Maulvi Wahidan Nabi, 4-5-1915.

GOALUNDO INDEPENDENT BENCH.*

Maulvi 'Alimuzzaman Chaudhuri (*a*) (*b*),* 8-4-1916.
** Babu Jadab Chandra Bagchi. (*d*)

Babu Kripa Nath Mazumdar, 28-6-1915.
Khan Bahadur Nadir Hossain. (*a*) (*b*)*, 12-6-1915.
Babu Nibaran Chandra Sen (*a*) (*b*)*, 22-10-1916.
,, Trailokya Nath Bhattacharji (*a*) (*b*), 31-5-1915.

MADARIPUR INDEPENDENT BENCH.*‡

* Maulvi Saiyid Abdul Rab Chaudhuri.
* Babu Bipin Chandra Bakshi.

** Babu Bipin Chandra Ray Chaudhuri. (*a*)
Khan Sahib Joonb Ali Khan, 18-7-1913.
Babu Rash Bihari Basu † (*a*) (*b*), 18-7-1914.

GOPALGANJ INDEPENDENT BENCH* AND UNDER SEC. 191 (*a*) WITHIN THE JURISDICTION OF THANA GOPALGANJ.

Maulvi 'Abdul Hasib Chaudhuri, 31-5-1915.
** Babu Bama Charan Ray Chaudhuri. (*b*) (*g*)

Babu Chandra Bilash Mukharji, 28-6-1915.
Babu Rama Prasad Ray Chaudhuri, 31-5-1915.
,, Shashi Bhushan Biswas, 14-4-1914.

DAMUDYA INDEPENDENT BENCH.*

Babu Jogesh Chandra Mukharji (*a*), 11-9-1915.
,, Jogesh Chandra Ray Chaudhuri (*a*), 11-9-1915.

Babu Kamakhya Charan Chatarji (*a*), 11-9-1915.
,, Praphulla Chandra Sen Gupta(*a*), 11-9-1915.

BHANGA INDEPENDENT BENCH.*‡

Babu Akshay Kumar Guha (*b*) (*e*), 24-5-1915.

** Babu Sharat Chandra Chaudhuri.

Hooghly.

SADAR INDEPENDENT BENCH.* ‡

[Sits at Chinsura.]

Babu Gajendra Nath De, 24-5-1915.
,, Hrishikesh Dutt (*a*), 24-10-1916.
,, Jatindra Mohan Banarji (*a*), 2-6-1915.

Babu Karuna Nidhan Singh, 16-3-1915.
,, Kumud Lal De,* 30-9-1914.
,, Naba Kishor Basu * (*a*) 30-9-1914.
,, Nanda Lal De * (*a*), 15-2-1915.
Rai Sarada Prasad Ray Bahadur (*a*) (*b*), 30-9-1914.

(*a*) Empowered to take down evidence in criminal cases in the English language.
(*b*) Authorized to sit singly for the trial of cases.
(*d*) Authorized to sit singly at Goalundo ghat for trial of nuisance cases under sec. 290 of the I. P. Code, and under sec. 34 of Act V of 1861.
(*e*) P. under section 190 (*1*) (*b*) to take cognizance of cases under sec. 34 of Act V of 1861.
(*f*) Power under section 190 (*1*) (*a*) (*b*) to take cognizance of cases arising within the limits of the Bansberia Municipality.
(*g*) Permitted only to retain designation.
(*h*) P. under section 190 (*1*) (*a*) (*b*) to take cognizance of cases under section 34 of Act V of 1861 occurring within the town of Raiganj.

* † ‡ § ** †† For these references—See page 398.

HONORARY MAGISTRATES IN THE MUFASSAL.

Hooghly.

HONORARY MAGISTRATES AT HOOGHLY.

Khan Bahadur Sahibzada Mahammad Amiruddin, 25-8-1914. (a) (b)†

** Rai Sahib Mahendra Lal Bose. (a) (b)† §
Babu Ramesh Chandra Mandal. (f)

HONORARY MAGISTRATES AT PANSBARIA.

Kshitindra Deb Ray Mahasay* (a) (b) 25-5-1915.

Manindra Deb Ray Mahasay (a) (b) (g). 25-5-1915.

SERAMPORE INDEPENDENT BENCH.*‡

Babu Basanta Kumar Mitra (a), 6-9-1915.
,, Beni Madhab Chakrabatti †* (a) (b), 19-6-1915.
** Dr. Bihari Lal Bose.† (a) (b) §
** Babu Chandra Mohan Sanyal. (a)

Mr. Dina Nath Basu (a), 18-12-1915.
** Rai Mahendra Chandra Lahiri Bahadur.† § (a) (b) (h)
Babu Narendra Nath Chakrabatti (a), 14-4-1914.
** ,, Rajendra Lal Gosain.* (a) (b)
,, Ramesh Chandra Gosain (a), 13-11-1915.
** ,, Satyendra Nath Banarji. (a)
** ,, Tara Prasanna Mukharji. (a)

HONORARY MAGISTRATE AT ARAMBAGH.

Babu Shital Chandra Banarji (a) (b), 31-1-1916.

UTTARPARA MUNICIPAL BENCH.‡(c)

Babu Bhupendra Nath Mukharji (a), 25-4-1915.
** ,, Debendra Nath Mukharji.
,, Jahar Lal Mukharji (a), 6-6-1915.

Babu Jatindra Nath Mukharji (a), 23-1-1915.
,, Jatindra Nath Mukharji (a), 11-5-1914.
,, Jati Prasad Banarji (a), 31-5-1915.
** ,, Shib Narayan Mukharji.

BAIDYABATI MUNICIPAL BENCH.‡(c)

Babu Debendra Nath Mukharji (a), 20-5-1915.
Dr. Jatindra Nath Sen (a), 4-7-1914.
Babu Jitendra Nath Mukharji (a), 15-9-1915.

Mr. J. Low, (b) 12-4-1915.
** Babu Sadhu Charan De.

BHADRESWAR MUNICIPAL BENCH.‡(c)

Babu Atul Chandra Banarji (a), 14-9-1915.
,, Kshetra Mohan Banarji (a), 3-3-1916

** Babu Mahendra Nath Chatarji.
,, Manomay Banarji, (a), 16-4-1916.
,, Surendra Nath Banarji, 14-4-1914.

Howrah.

SADAR INDEPENDENT BENCH.* (d) (e)

Babu Ashutosh Mukharji (a) (b), 8-7-1916.
,, Asipada Mallik (a), 21-3-1916.
Rai Biseweswar Lal Halwashia Bahadur, 21-8-1915.
Mr. George Thomas Lane * (b), 28-10-1914.
Babu Gopal Chandra Mukharji* (a), 29-5-1915.
,, Gyanendra Nath Bhattacharji* (a), 22-4-1915.
,, Haripada Ray Chaudhuri* (a) (b), 4-6-1915.
** ,, Hira Lal Bagla.
,, Jatindra Kumar Kundu (a) (b), 21-3-1916.
,, Jatindra Nath Mukharji (a), 26-5-1914.
Babu Kanai Lal Sadhukhan (a), 22-4-1915.
** ,, Keshab Chandra Lahiri. (f)

Maulvi Kifayat-ullah Tafadar* (a), 28-10-1914.
** Babu Krishna Pada Mukharji.
** Kurvarji Jivan Gujder. (f)
Babu Lakshmi Narayan Bez-Barua* (a) (b), 28-10-1914.
Rai Mahendra Nath Bhattacharji Bahadur * (a) (b), 4-6-1915.
** The Hon'ble Babu Mahendra Nath Ray.* (a) (b)
Rai Mati Laj Haldar Bahadur† (a) (b) (e), 28-10-1914.
Babu Mati Lal Halwashia (a), 6-6-1914.
** ,, Panchanan Mukharji.† (a) (b)
,, Prabodh Kumar Banarji* (a) (b), 13-8-1915.
,, Pramatha Nath Pramanik (a), 12-10-1914.
,, Ramji Das Bezoria, 22-4-1915.
,, Ram Pratap Chamaria (a), 12-10-1914.
,, Tinkari Singh (a), 12-10-1914.

(a) Empowered to take down evidence in criminal cases in the English language.
(b) Authorized to sit singly for the trial of cases.
(c) Empowered to take cognizance direct of cases under section 34 of Act V of 1861. Act XI of 1890 and the Municipal bye-laws. The jurisdiction of the Bench should include the Municipalities of Uttarpara and Kotrung.
(d) Vested with the powers of a Magistrate of the 1st class, to be exercised at those sittings only in which one of the members of the Bench invested with the powers of a Magistrate of the 2nd class is present.
(e) Vested with the powers to try summarily the offences mentioned in section 260 of the Code of Criminal Procedure, to be exercised at those sittings only in which one of the members of the Bench invested with the powers of a Magistrate of the 2nd class is present.
(f) Allowed only to retain designation.
(g) Power under section 190 (1) (a) (b) to take cognizance of cases arising within the limits of the Bansberia Municipality.
(h) Empowered under section 565 of the Criminal Procedure Code.
(i) The second class and single sitting power conferred for three years from 2-3-1912.

* † ‡ ** †† For these references—See page 398.

HONORARY MAGISTRATES IN THE MUFASSAL.

Howrah.

HONORARY MAGISTRATE AT SANKRAIL.

Mr. William MacEwan, 25-3-1916. (c)

AMTA INDEPENDENT BENCH.*

Babu Bir Singh Ray * (a) (b), 18-11-1914.
,, Braja Gopal Ray (a), 17-11-1916.
Rai Jay Kali Chakrabatti Bahadur.† (a)(b)
Babu Nibaran Chandra Chatarji, 13-12-1916.
** ,, Suresh Chandra Ray. (a) (d)

BALLY REGULAR BENCH.‡

** Rai Abinash Chandra Banarji Bahadur.*(a) (b) (d)
** Babu Akhil Nath Pal.(a)
,, Girija Prasanna Roy (a), 5-8-1916.
Rai Sahib Purna Chandra Chakrabatti (a), 26-7-1916.
Babu Rajendra Nath Set (a), 21-9-1915.
,, Rama Prasad Mukharji (a), 22-3-1916.

ULUBARIA REGULAR BENCH.*‡

Babu Amrita Lal Hajra* (a) (b), 8-11-1914.
,, Bishnu Pada Ray (a) (b), *16-9-1915.
,, Ekkari Singh Ray, 2-5-1916.
,, Hem Chandra Ghose. (d)
Munshi Nadir Ali Mallik, 10-10-1914.
Babu Shital Chandra Ghoshal, (b),*4-9-1915.
** ,, Tinkari Ghose (a) (b) †, 24-12-1914.

HONORARY MAGISTRATE AT LILLOOAH.

Mr. Sydney John Kendrick (b), 15-2-1916.

Jalpaiguri.

SADAR INDEPENDENT BENCH ‡

Maulvi Ahmad Husain, 29-8-1916.
Mr. Muhammad Aminar Rahman, (a) (b), 16-8-1915.
** Babu Jagadindra Deb Baikat, (a) (b)
,, Narendra Kumar Chatarji, 8-9-1916.
Babu Manmatha Nath Gangali (a) (b), 19-7-1915.
** ,, Tara Kanta Chatarji, (a) (b), 30-8-1916.
Maulvi Muhammad Wahidllah, 19-7-1915.

BODA INDEPENDENT BENCH.‡

Munshi Ghulam Hafiz, 15-4-1914.
** Khairat 'Ali Muhammad.
Babu Lalit Mohan Guha, 15-4-1914.
** Maulvi Taimuddin Ahmad.
,, Tawabar Rahim (a), 14-9-1915.

HONORARY MAGISTRATE AT DEBIGANJ.

Babu Jagat Ballav Biswas (a) (b)†, 1-2-1915.

Jessore.

SADAR INDEPENDENT BENCH.

Babu Ashwini Kumar Chandra, 27-5-1913.
** Babu Bipin Bihari Bose. *

HONORARY MAGISTRATE AT SAILKUPA.

Babu Paresh Nath Mazumdar (b) (e), 6-1-1916.

BANGAON INDEPENDENT BENCH.

Maulvi Afsaruddin Khan (a) (b), 23-8-1915.
Babu Shashi Bhushan Mukharji (a), (b)‡ 23-8-1915.

JHENIDA INDEPENDENT BENCH.

Babu Girija Bhushan Chatarji (a) (b), 13-10-1915.
Kumar Pannag Bhushan Deb Ray, 3-11-1916.

(a) Empowered to take down evidence in criminal cases in the English language.
(b) Arthorized to sit singly for the trial of cases.
(c) Empowered to take cognizance of offences under sec. 34 of Act V of 1861.
(d) Permitted to retain the designation of Honorary Magistrate.
(e) Empowered to take cognizance of cases under section 34 of Act V of 1861, and invested with powers under section 190 (1) (a) (b) of the Criminal Procedure Code.

* † ‡ § ** †† For these references—See page 398,

HONORARY MAGISTRATES IN THE MUFASSAL.

Jessore.

MAGURA INDEPENDENT BENCH.

Babu Rebati Kanta Sarkar* (a) 6-1-1917.
,, Harendra Krishna Sarkar* (a) 3-1-1617.
Maulvi Saiyid Abdur Rauf, (a), 6-1 1917.

MORESHPUR INDEPENDENT BENCH.

Babu Abanish Chandra Ray Chaudhuri, 20-7-1915.
** ,, Jyotish Chandra Banarji.
** Maulvi Muzaffar Husain Bishwas.
** Babu Samarajit Chandra Ray Chaudhuri.

NARAIL INDEPENDENT BENCH.[c]

Babu Satish Chandra Mukharji * (a) (b), 23-3-1914.

KOTECHANDPUR MUNICIPAL BENCH. (c)

Mr. Edward George Macleod, * (b) (d)
** ,, Herbert Campbell Macleod.
Babu Raj Mohan Mukharji, 5-9-1914.

Khulna.

SADAR INDEPENDENT BENCH.‡*

Babu Ashutosh Chakrabatti, 3-11-1916.
,, Ganga Charan Mukharji[c] (a) (b), 20-7-1914.
Maulvi Mahmudul Haq, 16-9-1916.
Babu Priya Nath Ray (a), 4-5-1915.
,, Sachis Chandra Chatarji, * (a) (b), 14-3-1916.
,, Suresh Chandra Das, 16-9-1916.

BAGERHAT INDEPENDENT BENCH.*‡

Babu Hari Pada Banarji, (a), 28-6-1915.
,, Mahendra Nath Bishwas, 28-6-1915.
,, Rash Bihari Dutta Chaudhuri, (a) (b), 28-3-1916.
** Maulvi Saiyid Sakhawat Hussain, * (b)
Babu Sukla Mazumdar, 15-6-1914. (a)

HONORARY MAGISTRATE AT TOWN SRIPUR.

Babu Kanak Roy (a), (e), 27-2-1915.

SATKHIRA INDEPENDENT BENCH.*‡

** Babu Girija Nath Ray Chaudhuri. (b)
,, Gopal Chandra Gupta, 19-8-1916.
,, Hira Lal Das (a) 5-1-1917.
** Babu Lakshman Chandra Ray.
* Maulvi Maunat-ullah Khan.
Babu Sureswar Sen Mu-shi, (a), 9-1-1917.

Malda.

SADAR INDEPENDENT BENCH.*‡

** Babu Bhagabati Charan Sen.
,, Chandra Mohan Das (a) (b) *, 20-7-1915.
,, Kali Prasanna Chakrabatti, 20-7-1915.
Maulvi Mubarak Ali Chaudhuri, 24-2-1917.
Babu Pramatha Nath De (a) (b) *, 20-7-1915.
,, Sundar Lal Shaha, 9-6-1914.

OLD MALDA BENCH.

Maulvi Abdul Ghani Khan, 23-8-1915.
Babu Kala Chand Das, 23-8-1915.
Babu Rajani Kanta Das, 23-8-1915.
,, Satish Chandra Agarwalla, 23-8-1915.

NAWABGANJ INDEPENDENT BENCH.‡

Babu Girish Chandra Sinha, 9-12-1914.
Maulvi Muhammad Attar-ud-din Miyan, 15-2-1917.
Munshi Muhammad Yakub Miah, 7-8-1914.
Maulvi Muhammad Hamidulla, 7-8 1914.
Babu Ram Krishna Mukharji, 15-2-1917.
,, Srish Chandra Maulik, 15-2-1917.

HONORARY MAGISTRATE AT MATHURAPUR.

Mr. G. Hennessy (b), 7-8-1914.†

(a) Empowered to take down evidence in criminal cases in the English language.
(b) Authorized to sit singly.
(c) Empowered to take cognizance of offences under sec. 34 of Act V of 1861, and under the Municipal Act. Authorized to take cognizance of offences under Act XI of 1890 (an Act for the Prevention of Cruelty to Animals). Also empowered to take cognizance of and to try cases under Act II (B.C.) of 1867 (the Gambling Act).
(d) Authorized to sit singly for the trial of cases instituted by the Police or the Kotechandpur Municipality.
(e) Authorized to sit singly at town Sripur.

* † ‡ § ** †† For these references—See page 398.

HONORARY MAGISTRATES IN THE MUFASSAL.

Midnapore.

SADAR INDEPENDENT BENCH.*‡

Maulvi Muhammad Ali-Emim Suhrawardy, 29-9-1913.
** Babu Priyanath Ray.
Rev. Howard R. Murphy, M.D., 22-1-1917.
Babu Kali Pada Hajra.
Babu Radha Gobinda Pal, 22-1-1917.
§§ ,, Srimarayan Pal.[9]
Babu Jogendra Nath Hajra, 22-1-1917.

HONORARY MAGISTRATE AT DANTAN.

Nil.

GHATAL INDEPENDENT BENCH.*‡

** Babu Heramba Chandra Ray[5] (b) (i).
** ,, Natabar Mukharji.
,, Sarada Prasad Banarji, (b), (c) 11-12-1916.
** Babu Surjya Kumar Bose.
** ,, Shital Das Ray[5] (a) (k).
,, Umesh Chandra Ghose[5] (a) (b), 5-10-1915.

HONORARY MAGISTRATE AT JARA.

** Babu Heramba Chandra Ray[5] (b) (i).

TAMLUK INDEPENDENT BENCH.*‡

Babu Bihari Lal Mukharji (a) (b), 6-7-1915.
,, Charu Chandra Mukharji[9] (a) (b), 31-5-1915.
Babu Sharat Chandra Mukharji† (a) (b), 21-2-1916.
§§ ,, Trailokya Nath Bakshi†, 1-8-1913, (b).

CONTAI INDEPENDENT BENCH.*‡

Babu Bipin Bihari Sasmal[9] (b) (a), 27-10-1913.
,, Chandra Mohan Agasti.
,, Debendra Narayan Mazumdar (a) (b), 9-10-1915.
,, Gajendra Nath Maiti (b), 9-10-1915.
,, Jiban Krishna Maiti (a), 26-9-1914.
Maulvi Muhi-ud-din Muhammad (a), 13-10-1914.
** Babu Nil Madhab De (f).
** Mohanth Radha Shyam Das Adhikari, Rai Bahadur (a) (b)[9].
Babu Ramapati Mitra, 23-9-1916.

CHANDRAKONA MUNICIPAL BENCH.

** Babu Guru Das Ray.
** ,, Mohanth Bharat Ramanuj Das.
** Babu Sita Nath Gupta.
Pandit Gobinda Ramanuj Das, 29-8-1916.

Murshidabad.

SADAR (BERHAMPORE) INDEPENDENT BENCH.‡

Babu Durga Shankar Bhattacharji[9] (a) (b), 25-5-1915.
,, Jogesh Charan Sen (a) (b), 27-10-1916.*
** ,, Kamakhya Prasad Gangali (a) (b),* 9-2-1915.
** Babu Naphar Das Ray (a).
,, Ramani Mohan Sen (a) (b), 9-12-1913.
§§ ,, Sri Ban Bihari Sen (a) (b)[9].

LALBAGH INDEPENDENT BENCH.‡

** Maulvi Faiz-ud-din 'Ali (a).
** Khan Bahadur Khundkar Fazl-i-Rabbi.
** Maulvi Muzaffar 'Ali.
Maharaj Kumar Bhupendra Narayan Sinha (a), 22-8-1916.
** Maharaja Ranajit Singh (a) (b), † ††.
Maulvi Saiyid Ashan Mirza, 14-8-1915.
** Rai Sitab Chand Nahar Bahadur[9] (b) (d) (f †)
Maulvi Saiyid Fateh 'Ali Mirza, 14-8-1915.
Sahibzada Iskandar Qudr Nasir Alf Mirza (a), 22-8-1916.

KANDI INDEPENDENT BENCH.‡

Babu Akshay Kumar Ghosh (a), 8-5-1915.
,, Bidhu Bhushan Singh (a), (b), 24-11-1916.
Maulvi Chaudhuri Mozharul Haq (a), 8-5-1915.
Maulvi Khundkar Aziz-ul-Haq (a), 8-5-1915.
** ,, Khundkar Muhammad Mahasan, 24-11-1916.

(a) Empowered to take down evidence in criminal cases in the English language.
(b) Authorized to sit singly for the trial of cases.
(c) Authorized to sit singly at Kharar for the trial of cases under the Bengal Municipal Act, 1884, and the bye-laws framed thereunder, and under the Police Act V of 1861 occurring within the Municipality of Kharar.
(d) Empowered to take cognizance under sec. 190 of Criminal Procedure Code, 1898, of all cases under the Municipal bye-laws and Act V of 1861.
(f) Allowed only to retain designation.
(i) Authorized to sit singly at Jara for the trial of cases under Act V of 1861 and the Municipal Act arising within the Municipality of Ramjibanpur, which may be made over to him by the Subdivisional Officer of Ghatal. Also authorized to take cognizance of offences under sec. 190 (1) (a) (b) of Criminal Procedure Code, and under Municipal Act and Act V of 1861 within the Municipality of Ramjibanpur.
(k) Authorized to sit singly at Khirpai for the trial of cases under the Bengal Municipal Act, 1884, and the bye-laws framed thereunder and under section 34 of Act V of 1861, Municipal Act, arising within the Municipality of Khirpai. Power to take cognizance of such cases under section 190 (1) (a) (b) of Code of Criminal Procedure.

* † ‡ § ** †† For these references -See page 398.

HONORARY MAGISTRATES IN THE MUFASSAL.

Murshidabad.

JANGIPUR INDEPENDENT BENCH.‡

Babu Gyanendra Narayan Chaudhuri (*a*), 2-3-1915.
** ,, Mahesh Chandra Singh.
Babu Nilkanta Sen[c] (*a*)-(*b*), 12-7-1915.
,, Panchanan Chatarji (*a*) (*b*),[c] 12-7-1915.

DHULIAN INDEPENDENT BENCH. (*f*)

Babu Basanta Kumar Ghosh, 18-3-1913.
Babu Hemanta Kumar Ray (*a*), 18-3-1913.
,, Sachindra Nath Ray (*a*) (*b*) (*g*),[c] 8-9-1916.

AZIMGANJ INDEPENDENT BENCH. (*g*)

Babu Abinash Chandra Das (*a*), 25-9-1916.
,, Haridas Ghosh (*a*), 25-9-1916.
Babu Surendra Narayan Singh (*a*), 25-9-1916.
,, Surjya Kumar Adhikari (*a*), 25-9-1916.

Mymensingh.

SADAR (NASIRABAD) INDEPENDENT BENCH.†

[The Bench also exercises P. of a Magte., 1st class, and under section 260, at those sittings in which one of the members having 2nd class power is present.]

** Babu Barada Kanta Basu (*a*)[c].
** ,, Chandra Kishor Tarafdar (*a*)[c].
,, Jatindra Kishor Ray Chaudhuri (*a*) (*b*), [c] 14-2-1916.
,, Jitendra Kishor Acharji Chaudhuri (*a*), 21-9-1915.
,, Jogesh Chandra Chakrabatti[c] (*a*) (*b*), 21-4-1916.
,, Bhuban Mohan Mukharji, (*a*) (*b*), 15-1-1917.
Babu Krishna Kumar Ray (*b*), 8-9-1914.
,, Kshitish Chandra Chaudhuri (*a*) (*b*),[c] 13-9-1916.
** Rai Bahadur Prasanna Kumar Chakrabatti (*a*)[c].
Babu Sri Nath Acharji Chaudhuri (*a*) (*b*), 5-6-1914.
,, Umesh Chandra Chakradar, (*a*), 15-1-1917.

Honorary Magistrate at Sharishabari and Jagannathganj—Mr. Herbert H. Doward (*c*), 15-2-1917.

JAMALPUR INDEPENDENT BENCH.[c]‡

Babu Akshay Kumar Sen Gupta (*a*) (*b*), 12-6-1916.
Maulvi Khundkar Said-ur-Rahman (*b*), 30-11-1916.
Babu Mahim Chandra Ray (*a*).

SHERPUR INDEPENDENT BENCH.[c]

* Rai Bahadur Radha Ballabh Chaudhuri (*a*)(*b*) † [Secs. 190 (*1*) (*a*) (*b*), 260 and 565].
** Rai Bahadur Charu Chandra Chaudhuri, M.R.A.S., (London) (*a*) (*b*), ‡ (Secs. 260 and 565).
Babu Hiran Chandra Chaudhuri [c] (*a*) (*b*), 20-5-1915.
Babu Hemanga Chandra Chaudhuri, M.R.A.S., (Lond.), (*a*) (*b*),‡ 7-2-1916.
Maulvi Muhammad Qazim-ud-din, 10-7-1915.
Babu Rajendra Chandra Das Gupta (*a*), 26-1-1916.
,, Satindra Kumar Chaudhuri (*a*), 20-5-1915.

KISHORGANJ INDEPENDENT BENCH.[c]‡

** Babu Rajani Kanta Ray (*a*) (*b*).†
** ,, Rajendra Kishor Goswami (*a*) (*b*).
Babu Gya Prasad Chakrabatti (*a*) (*b*), 21-7-1914.

HONORARY MAGISTRATE AT BHAIRAB, KISHORGANJ SUBDIVISION.

Mr. Allan Lytton Ramsay Dawe (*b*) (*c*), 19-3-1915.

TANGAIL INDEPENDENT BENCH.[c]‡

** Maulvi Abu Ahmad Ghaznavi (*a*) (*b*).[c]
** Babu Durga Gobinda Munshi.
** ,, Gobinda Chandra Neogi (*a*) (*b*).[c]
Rai Sahib Gopal Chandra Bhaumik (*a*), 12-6-1916.
Babu Hem Chandra Roy (*a*), 12-6-1916.
Babu Jogendra Chandra Chakrabatti (*a*) (*b*), 21-2-1916.
** ,, Krishna Chandra Sarkar (*a*) (*b*).[c]
Maulvi Saiyid Ahmad Husain Chaudhuri (*a*), 10-12-1916.
Babu Upendra Narayan Neogi (*a*), 22-6-1915.

NETRAKONA INDEPENDENT BENCH.[c]‡

Maulvi Abdur Raub Mazumdar, 18-12-1916.
Babu Abani Mohan Ganguli, (*a*), 18-12-1916.
** Babu Umesh Chandra Singh (*a*) (*b*).[c]
Babu Mohini Mohan Gun (*a*), 12-6-1916.

BAJITPUR INDEPENDENT BENCH.[c]

Maulvi Abdul Majid (*b*), 13-4-1914.
** Babu Chandra Kishor Kars (*a*) (*b*),[c] [Sec. 190 (*1*).]
Babu Kali Krishna Ghosh (*a*) (*b*),[c] 10-11-1914

(*a*) Empowered to take down evidence in criminal cases in the English language.
(*b*) Authorized to sit singly for the trial of cases.
(*c*) P. under sec. 34, Act V of 1861.
(*f*) Will try cases occurring within the limits of the Dhulian Municipality, and any cases made over to it by the Subdivisional Officer of Jangipur. Is empowered to take cognizance under section 190 (*1*) (*a*) (*b*) of the Criminal Procedure Code of offences against the Bengal Municipal Act, 1884, and the bye-laws framed thereunder and in respect to cases under Bengal Act IV of 1873.
(*g*) Empowered under sec. 190 (*1*) (*a*) (*b*) to take cognizance of cases under the Municipal bye-laws and of cases under sec. 34 of Act V of 1861.

* † ‡ § ** †† For these references—See page 398.

HONORARY MAGISTRATES IN THE MUFASSAL.

Nadia.

KRISHNAGAR INDEPENDENT BENCH.‡

Maharaja Kshaunish Chandra Ray (*a*) (*b*), 20-3-1914.
Maulvi Mulla Khudadad (*b*).*
Mr. Manmatha Nath Pal Chaudhuri (*a*), 21-2-1916.
Babu Nalinaksha Datta (*a*) (*b*).§
,, Naphar Chandra Pal Chaudhuri (*a*).

NADIA OR NABADWIP MUNICIPAL BENCH.

Babu Purna Chandra Mukharji, 30-3-1915.
,, Ram Gopal Chakrabatti, 21-9-1914.
Babu Sati Nath Mukharji, 2-3-1916.

KUSHTIA INDEPENDENT BENCH.‡

Babu Ashutosh Ghosh, 28-4-1914.
,, Dakshina Ranjan Acharji (*a*) (*b*),* 28-4-1915.
Maulvi Mas'ud-ul-haq§ (*a*) (*b*), 2-12-1916.
Babu Rama Prasanna Chakrabatti (*a*) (*b*).* 26-10-1912.
Maulvi Saiyid Abdul Quddus Rumi, 7-6-1915.

MEHERPUR INDEPENDENT BENCH.*‡

Babu Gaur Hari Mukharji (*a*), 20-12-1915.
,, Hari Pada Chatarji (*a*), 20-12-1915.
,, Hira Lal Biswas.
Babu Indu Bhushan Mallik † (*a*) (*b*).
,, Jatindra Nath Biswas, 20-12-1915.
,, Ratan Lal Biswas.

JAMSHERPUR INDEPENDENT BENCH.*

Babu Kali Kumar Shaha, 3-3-1917.
,, Kishori Mohan Bagchi, 21-1-1916.
,, Prabodh Chandra Sarkar, 3-3-1917.
Babu Ram Prasad Bagchi (*b*) (*d*), 21-1-1916.§

SANTIPUR INDEPENDENT BENCH.*‡

Babu Gobinda Chandra Gangali, 14-9-1915.
,, Hari Das Ray* (*c*) (*a*).
,, Kartik Chandra Das.
Babu Kunja Bihari Shaha (*a*).
Maulvi Muzammil Haq, 13-2-1914.

RANAGHAT INDEPENDENT BENCH.*‡

Babu Gunendra Nath Pal Chaudhuri (*a*), 9-9-1914.
,, Kedar Nath Ray.
Nishapati Banarji (*a*), 5-12-1916.
Babu Purna Chandra De Chaudhuri (*a*)* (*b*), 9-9-1914.
,, Surendra Kumar Mukharji (*a*) (*b*).

HONORARY MAGISTRATE AT KUMARKHALI.

Babu Gyanendra Nath Sanyal (*a*) (*b*) † (*e*).

CHUADANGA INDEPENDENT BENCH.‡

Mr. Arthur Gupta (*a*) (*b*), 18-3-1913.
Rai Sahib Jogendra Nath Singh, B.L. † (*a*) (*b*).
Babu Nalini Kanta Ukil, (*a*) 18-12-1916.
Munshi Sabdar Ali Joardar (*a*), 27-10-1916.

Noakhali.

SADAR INDEPENDENT BENCH.*‡

Maulvi Abdur Rashid Khan (*a*) (*b*), 24-3-1915.
Babu Abhay Charan Baul (*a*) (*b*), 26-5-1916.
,, Ambika Prasanna Mazumdar§ (*a*) (*b*), 10-4-1916.
,, Basanta Kumar Sen, B.L. (*a*) (*b*), 21-12-1915.
,, Chandra Kumar Basu, 25-5-1915.
,, Girija Kishor Ghose (*a*), 24-3-1916.
,, Haladhar Datta (*a*) (*b*), 26-5-1916.
,, Kumudini Kanta Mukharji (*a*) (*b*), 24-3-1915.
Babu Lakshmi Chandra Mazumdar (*a*), 24-3-1915.
Mr. L. M. Marscon§ (*a*) (*b*), 24-3-1915.
Babu Mahendra Nath Chatarji (*a*), 24-3-1915.
Maulvi Majibal Haidar Chaudhuri (*a*) (*b*), 26-5-1916.
,, Muzafar Ahmad.
Rai Raj Kumar Datta, Bahadur.

FENI INDEPENDENT BENCH.

Maulvi Abdul Razzak (*a*), 28-10-1916.
,, Bazlul Haq (*a*),* 7-10-1915.
Babu Brajendra Kumar Chatarji (*a*) (*b*).* 26-5-1916.
Babu Guru Das Kar (*a*), 7-10-1915.
,, Krishna Kishor Datta (*a*).§ 28-10-1916.
Quazi Nurul Haq (*a*), 7-10-1915.
Babu Rohini Kumar Sen (*a*), 28-10-1916.

(*a*) Empowered to take down evidence in criminal cases in the English language.
(*b*) Authorized to sit singly for the trial of cases.
(*c*) Empowered to sit singly for the trial of cases and to take cognizance of offences under section 24 of Act V of 1861 and the Municipal bye-laws on police report.
(*d*) Empowered to sit singly for the trial of such cases as may be made over to him within the limits of thana Karimpur.
(*e*) Authorized to sit singly at Kumarkhali for the trial of all cases which may be made over to him by the Subdivisional Officer of Kushtia.

* † ‡ § ** †† For these references—See page 398.

HONORARY MAGISTRATES IN THE MUFASSAL.

Pabna.

SADAR INDEPENDENT BENCH. ‡

Maulvi Abu Muhammad Abdul Hamid (a) (b), 3-2-1915.
** ,, Chaudhuri Muhammad Ismail.
Babu Girish Chandra Das (a), 31-1-1915.
,, Hriday Gobinda Chaudhuri (a) (b), 15-5-1914.
Rai Sahib Bama Charan Bhaumik (a) (b), 8-9-1916.
Babu Jogendra Nath Maitra (a) (b), 31-1-1915.
Maulvi Majiruddin Ashan Chaudhuri.
Babu Tarak Nath Pramanik, 31-1-1915.

SIRAJGANJ INDEPENDENT BENCH.[c]

Maulvi Matiar Rahman, 6-6-1914.
Mr. V. G. Smith, (b), 13-3-1916.
Babu Jadab Chandra Chakrabatti, (a) (b), 3-1-1917.

SHAHZADPUR INDEPENDENT BENCH.[c] ‡

Babu Dinesh Chandra Ray, 21-11-1916.
Maulvi Karim Niwaz Khan, 24-7-1914.
Babu Mukunda Nath Sen, 30-3-1914, [c](a) (b).
** Maulvi Muazzam Ali Khan (b),[c] 2-3-1915.

ULLAPARA INDEPENDENT BENCH. [c]‡

** Babu Gyanendra Kumar Sanyal (a).
,, Kalikumar Mazumdar (a) (b), 17-4-1914.
Maulvi Shaikh Kalimuddin Ahmad (a), 25-3-1913.
,, Mizan-ur-Rahman, 24-9-1914.

HONORARY MAGISTRATES AT SARA.

Mr. Charles Albert Henry Edwards (b), 2-9-1915.
Babu Durga Prasanna Maitra (b) (f), 1-10-1916.

Authorised to sit together as a Bench with powers of a Magis., 3rd class, and summary powers for the trial of offences under sec. 21 of Act V of 1861.

Rajshahi.

SADAR INDEPENDENT BENCH. ‡

** Babu Guru Gobinda Shaha (b),[c] 17-7-1916.
,, Kali Mohan Chaudhuri (a), 12-8-1913.
,, Radhika Mohan Goswami (a), 3-1-1917.
** ,, Rama Prasad Mallik (a) (b).[c]
Maulvi Saiyid Tufuzal Husain (a), 3-1-1917.
** Babu Taran Krishna Bhaumik (b),[c] 17-7-1916.
** ,, Taran Krishna Chaudhuri (b),[c] 17-7-1916.
Maulvi Wajihuddin Ahmad (a) (b)† ††, 18-2-1917.

NATOR INDEPENDENT BENCH.‡

** Babu Durgananda Sanyal (a).
** ,, Kamal Chandra Mazumdar (a) (c).
Qazi Muhammad Isa (a) (b), 10-10-1914.
** Maulvi Tamizuddin Ahmad[c] (b) (c), 20-7-1912.
** ,, Sharat Chandra Maitra (b),[c] 17-7-1916.

NAUGAON INDEPENDENT BENCH. ‡

Babu Annada Prasanna Lahiri (a), (b), 9-1-1917.
,, Kailash Chandra Sarkar, (a), (b), 17-7-1916.
** ,, Nil Kanta Chaudhuri (b),[c] 17-7-1916.
Babu Sharat Chandra Chakrabatti (a) (b), 11-3-1916.
,, Shashi Kishor Changdar (a), (b), 17-7-1916.

Rangpur.

SADAR INDEPENDENT BENCH. ‡

Maulvi Abdul Aziz Chaudhuri, 8-3-1916.
** Babu Ganga Nath Ray (a) (b)†, (sec. 260) (d).
** ,, Guru Prasanna Lahiri,[c] 12-11-1912.
,, Kedar Nath Bhattacharji, (a), 14-2-1916.
** Raja Mahendra Ranjan Ray Chaudhuri (d).
Babu Manindra Chandra Ray Chaudhuri[c] (a) (b), 19-3-1917.
Rai Mrityunjay Ray Chaudhuri Bahadur, M.R.A.S., (London)[c] (a) (b), 1-10-1916.
** Maulvi Muhammad Muzammil[c] (b), 12-11-1912.
,, Muhammad Taha, 14-2-1916.
Babu Nripendra Narayan Rudra, 14-2-1916.
,, Ram Prasad Sen, 1-6-1915.
Maulvi Saiyid Abul Fattah, M.R.A.S.,[c] 12-7-1915.

(a) Empowered to take down evidence in criminal cases in the English language.
(b) Authorized to sit singly for the trial of cases.
(c) Exercise 2nd class powers when they sit at a Bench.
(d) Permitted to retain the designation of Honorary Magistrate.
(f) Empowered to take cognizance under section 190 (a) (b) of the Criminal Procedure Code of all cases under section 34 of Act V of 1861.

* † ‡ § ** †† For these references—See page 398.

HONORARY MAGISTRATES IN THE MUFASSAL.

Rangpur.

NILPHAMARI INDEPENDENT BENCH.

Munshi Jasim-ud-din Chaudhuri, 22-11-1915.

Babu Mahim Chandra Ray, 15-12-1915.

HONORARY MAGISTRATE AT DOMAR.

Babu Surendra Nath Gangali (*b*) (*c*) (*f*), 11-4-1911.

HONORARY MAGISTRATE AT LALMONIR HÂT.

Mr. Ivan Terence St. Clair Pringle (*b*) (*c*), 22-1-1917.

HONORARY MAGISTRATE AT SAIDPUR.

Mr. HERBERT THEOPHILUS BAYLIS, (*b*) (*f*), 11-12-1916.

SAIDPUR REGULAR BENCH.‡

** Babu Shibendra Nath Ray Chaudhuri.

Mr. E. A. Thomas (*b*), 25-5-1915.

GAIBANDA INDEPENDENT BENCH.

* Maulvi 'Abdul Latif.
Khan Sahib Muhammad Abdul Majid (*a*) (*b*), 5-6-1916.

Babu Surendra Nath Banarji (*a*) (*b*), 10-9-1916.

KURIGAON INDEPENDENT BENCH.

Maulvi Abdus Samad, 9-8-1915.
Babu Harendra Krishna Ray * (*a*) (*b*), 3-11-1913.
,, Janaki Nath Dutta.

Babu Jogesh Chandra Ray Chaudhuri (*a*) (*b*),* 1-10-1916.
,, Kailas Chandra Kabyatirtha Mahamahopadhya Pandit, 1-10-1913.

Tippera.

COMILLA INDEPENDENT BENCH.*‡

Maulvi Ali Ahmad *alias* Nawab Miyan (*b*),*
Kumar Nabadwip Chandra Deb Barman (*b*),† 4-3-1916.
** Nawab Saiyid Hossain Haidar Chaudhuri, Khan Bahadur. (*a*) (*b*).*
Medini Mohan Bardhan (*a*) (*b*), 29-8-1916.

Babu Satish Chandra Ray (*a*) (*b*),* 15-8-1916.
Maulvi Saiyid 'Abdul Jabbar (*a*) (*b*),* 24-8-1915.
** Babu Srish Chandra Banarji (*a*) (*b*).*

BRAHMANBARIA INDEPENDENT BENCH. *‡

Babu Dakshina Charan Sen (*a*) (*b*), § † 24-8-1915.
** Maulvi Muhammad 'Ali Miyan (*g*).

Maulvi Saiyid Wahiullah (*b*).*

AKHAURA INDEPENDENT BENCH. (*f*)

Nil.

HONORARY MAGISTRATE AT CHATALPUR.

Nil.

CHANDPUR INDEPENDENT BENCH. *

Babu Abinash Chandra Sen (*a*) (*b*), 15-8-1916.
Maulvi Bazlul Gani, 13-1-1915.

Babu Sharat Chandra Som (*a*) (*b*) 13-1-1915.
Mr. Sidny Lucas (*b*), 15-8-1916.

(*a*) Empowered to take down evidence in criminal cases in the English language.
(*b*) Authorized to sit singly for the trial of cases.
(*c*) Exercise 2nd class powers when they sit as a Bench.
(*d*) Power under section 34 of Act V of 1861.
(*e*) Empowered under section 190 (*1*) (*a*) (*b*) of the Criminal Procedure Code to take cognizance of cases under the Bengal Gambling Act II of 1867.
(*f*) Empowered to take cognizance under section 190 (*a*) (*b*) of the Criminal Procedure Code of all cases under section 34 of Act V of 1861.
(*g*) Permitted to retain the designation of Honorary Magte.
(*h*) P. under sec. 190 (1) (*a*) (*b*) within Akhaura Union.

* † ‡ § ** †† For these references—See page 398.

HONORARY MAGISTRATES IN THE MUFASSAL.

24-Parganas.

ALIPORE INDEPENDENT BENCH. °‡

Prince Afsar-ul-mulk Mirza Muhammad Akram Hussain Bahadur, 29-9-1913.
Babu Barendra Nath Mitra, 29-12-1913.
,, Bijay Lal Datta ° (*a*) (*b*), 23-5-1916.
Prince Dara Jah Mirza Abul' Ali Bahadur (*a*), 17-2-1915.
Sahibzada Fatih Muhammad Shah, 1-2-1915.
Sahibzada Ghulam Muhammad (*a*), 27-5-1915.
Babu Guru Pada Haldar, 27-1-1914 (*a*).
,, Kali Kumar Ray Chaudhuri† (*a*) (*b*) (*k*) (*m*), 27-2-1917.
Rev. Kali Pada Banarji° (*a*) (*b*).
Rai Mani Lal Banarji Bahadur † †† (*a*) (*b*) (*l*).
Mr. Manmatha Nath Ghosh, I. S. O.† (*a*) (*b*) (*m*), 3-12-1915.
Maulvi Mirza Muhammad Masour 'Ali Khan (*a*), 18-6-1915.
Babu Satyendra Nath Ray ° (*a*) (*b*), 24-2-1915.
,, Shashi Shekhar Basu (*a*), 8-8-1914.
,, Shyama Charan Bose (*a*) (*b*),° 27-1-1914.
,, Shyama Charan Pal ° (*a*) (*b*), 5-5-1914.
Mr. Tarapada Ghose (*a*).

SEALDAH INDEPENDENT BENCH.°‡

Babu Arabinda Krishna Deb (*a*), 10-4-1916.
,, Atal Kumar Sen† (*a*) (*b*), 22-5-1915.
Rai Baikuntha Nath Basu Bahadur † †† (*a*) (*b*).
Babu Harish Chandra Neogi° (*a*), 6-12-1915.
,, Jatindra Nath Sen (*a*), (*b*) 29-9-1916.
,, Kanak Ray (*a*) 8-9-1914.
,, Kedar Nath Basu † (*a*) (*b*), 10-4-1916.
Mr. Kumud Nath Chaudhuri (*a*) (*b*) † 15-12-1915.
Maulvi Mahboob 'Ali (*a*), 8-8-1914.
Babu Harendra Krishna Seal (*a*), 3-11-1916.
Rai Mani Lal Nahar Bahadur (*a*) (*b*),† 3-11-1916.
Mr. Muhammad Asraf Ali (Bar-at-Law) (*a*), 29-9-1916.
Pandit Nakuleswar Bidyabhushan Bhattacharji (*a*) (*b*), 2-11-1914.
Babu Pharindra Lal De, (*a*), 7-1-1916.
Kumar Rajendra Narayan Ray, 2-12-1913.
Rai Sahib Rasik Lal Ray (*a*) (*b*),† 2-11-1914.
Mr. Rustamji Hirjibhai Manekji Rustamji † (*a*) (*b*), 22-5-1915.
Nawabzada Saiyid Husain 'Ali Nadir Jung (*a*) (*b*), 6-12-1915.
Kumar Pramatha Nath Ray (*a*), 3-11-1916.
Babu Jatindra Mohan Bose (*a*), 3-11-1916.

COSSIPORE-CHITPUR MUNICIPAL BENCH.°‡

The Hon'ble Babu Bhabendra Chandra Ray (*a*), 8-9-1914.
Babu Gopal Chandra Bose.
,, Hem Chandra De (*a*) (*b*), 21-5-1915.
Mr. James Prentice, 21-5-1915.
Babu Karali Charan Chatarji, 12-4-1914.
Babu Lakshman Chandra Set, 27-9-1916.
,, Manmatha Nath Gangali (*a*) (*b*), 13-3-1917.
,, Ramdas Mukharji, 23-5-1916.
Maulvi Saiyid Muhammad Karim Agha (*a*), 12-4-1916.
Babu Shallaja Nath Ray Chaudhuri (*a*), 12-4-1915.

GARDEN REACH BENCH.°‡°

Mr. John Dixon, 18-10-1916.
,, W. F. Davie. 18-10-1916.
,, F. W. Hockly, 18-10-1916.
Prince Dilawarjah Mirza Muhammad Naqi Ali, Bahadur, 18-10-1916.
Mr. Unsuddowlah (*a*), 18-10-1916.
Babu Adya Nath Chatarji, 18-10-1916.

HONORARY MAGISTRATES AT DIAMOND HARBOUR.

Babu Kedar Nath Chakrabatti° (*a*) (*b*), 16-8-1915.
Rev. Mati Lal Ghosh (*a*) (*b*), 13-12-1913.
Babu Upendra Nath Basu° (*a*) (*b*).

HONORARY MAGISTRATES AT ISHAPORE.

Mr. F. S. Grimstan, 14-9-1914 (*c*).°
Captain J. Morrison, 14-9-1914 (*c*).°

BARUIPUR INDEPENDENT BENCH.°‡

Maulvi Aziz Ahmad, 20-10-1914.
Babu Hari Das Ray Chaudhuri (*a*), 29-5-1914.
,, Jatindra Kumar Ghosh, 6-2-1917.
Rev. Ram Kanta Das Gupta (*a*), 24-5-1915.
Babu Satish Chandra Banarji, 31-1-1916.
,, Shibadas Ray Chaudhuri (*a*), 28-3-1916.

JAYNAGAR INDEPENDENT BENCH.

Babu Baman Deb Bhattacharji (*a*).
,, Dina Nath Dutt (*a*).
,, Jogendra Nath Mitra (*a*).
Babu Nanda Gopal Datta, 23-8-1915.
,, Ram Das Banarji, 23-8-1915.
,, Shiba Das Banarji (*a*), 25-9-1914.

BUDGE-BUDGE INDEPENDENT BENCH.‡

Mr. Cecil Osmond Manuel, 15-9-1916.
Babu Debendra Nath Ghose, 17-7-1916.
Mr. Edward John Pibbe, 25-5-1915.
Babu Jnanendra Nath Adhikari, 11-3-1915.
Babu Pran Krishna Pal, 9-11-1914.
Babu Uma Charan Ghosh, 25-5-1915.
Mr. Walter Ashby Hickie, 15-9-1916.

DUM-DUM INDEPENDENT BENCH.‡°

Maulvi Abdur Rahim, 12-7-1915 (*a*).
Babu Anukul Chandra Singh, 18-11-1916.
,, Arabinda Krishna Deb (*a*), 8-8-1914.
Babu Arun Chandra Chatarji (*a*), 8-8-1914.
,, Hari Das Chatarji (*a*), 8-8-1914.
,, Rameswar Guha (*b*).
,, Surendra Nath Mukharji, (*a*), 21-2-1917.

(*a*) Empowered to take down evidence in criminal cases in the English language.
(*b*) Authorized to sit singly for the trial of cases.
(*c*) Invested with powers under sec. 37 (fourth schedule) of the Code of Criminal Procedure, 1898 (Act V of 1898), with the exception of power to make orders as to first offences.
(*l*) Exercises summary powers within the jurisdiction of the Sadar subdivision and of the Suburban Police Court, Alipore
(*k*) P. under section 565 (*1*) (*3*) of the Code of Criminal Procedure.
(*m*) Vested with powers under section 260 of the Code of Criminal Procedure.

* † ‡ § ** †† For these references—See page 398.

°The Bench is empowered to exercise its powers in respect of offences under the following Acts occurring within the limits of the Garden Reach Municipality :—

1. The Bengal Municipal Act, 1884 (Bengal Act III of 1884) and the bye-laws framed thereunder.
2. Section 34 of the Police Act, 1861 (V of 1861).
3. The Bengal Cruelty to Animals Act, 1869 (Bengal Act I of 1869).
4. The Bengal Vaccination Act, 1880 (Bengal Act V of 1880).
5. The Bengal Births and Deaths Registration Act, 1873 (Bengal Act IV of 1873).
6. The Calcutta Hackney Carriage Act, 1891 (Bengal Act II of 1891).
7. The Bengal Public Gambling Act, 1867 (Bengal Act II of 1867).

HONORARY MAGISTRATES IN THE MUFASSAL.

24-Parganas.

PANIHATI INDEPENDENT BENCH.° (d) ‡

Babu Ambika Charan Mukharji (a), 18-7-1914.
,, Dwijendra Krishna Dob (a), 3-9-1914.
,, Haridas Kar (a), 28-4-1915.
Munshi Khoda Baksh, 18-7-1914.
Babu Mohendra Nath Chatarji, 18-7-1914.
,, Shib Chandra Rai Chaudhuri (a), 18-7-1914.

BARRACKPORE INDEPENDENT BENCH.‡*

Babu Adwaita Charan Mandal, † (a) (b)
,, Amal Chandra Pal (a), 20-9-1914.
,, Ambica Charan Mukharji, (a)
Rai Sahib Bhagabati Charan Chatarji (a), 29-5-1914.
Babu Gadadhar Mandal, 28-3-1916.
,, Iswar Prasad Pain° (a), 10-1-1916.
,, Jogendra Nath Gangali (a), 21-9-1915.
,, Pramatha Nath Chattarji, (a) 21-1-1917.
,, Surendra Nath Sarkar, (a), 10-10-1916.

KAMARHATI INDEPENDENT BENCH.° ‡ (e)

Babu Chuni Lal Banarji, (a) 10-10-1914.
,, Hrishikesh Chatarji, 10-10-1914.
Mr. J. H. Scott, 10-10-1914.
Babu Kali Gopal Mukharji, 10-10-1914.
Babu Shambhu Nath Chatarji, 28-3-1916.
,, Surendra Nath Ghoshal, (a), 19-9-1916.

PALTA INDEPENDENT BENCH. ° ‡

Babu Gaur Chandra Mandal (a), 11-7-1916.
,, Hari Das Pal, 19-1-1914.
,, Purna Chanda Deb, 2-3-1916.
Babu Satya Pradip Pal (a), 28-7-1914.
,, Uma Charan Mukharji (a), 26-5-1915.

GARULIA INDEPENDENT BENCH.‡

Babu Bama Charan Chatarji, 4-6-1916.
Mr. David Lowson Stewart, 2-6-1914.
** Babu Gaur Chandra Mandal.
Mr. James Billinge, 29-5-1916.
Babu Thakur Das Banarji (b),* 29-5-1916.
Maulvi Wazir Ali, 12-9-1914.
Mr. William Smart, 30-5-1916.

BARASAT INDEPENDENT BENCH.‡ *

** Babu Kunja Bihari Bose, (a) (b) † (g).
Maulvi Moshfequs Saleheen, 12-3-1915.
Rai Sahib Makhan Lal Ghosh, (a), 16-10-1916.
Babu Rash Bihari Mandal, 5-10-1915.
,, Surath Narayan Ray (a), 11-9-1916.
,, Surendra Nath Ghosh, 23-8-1915.

HALISHAHAR INDEPENDENT BENCH.‡ ° (f)

Babu Hari Gopal Mukharji (a) (b)°, 20-5-1915.
Maulvi Quazi 'Abdul 'Ali (a), 20-5-1915.

KHARDAH MUNICIPAL BENCH. ‡ (c)

Babu Amrita Lal Mukharji, 21-6-1915.
,, Gokul Chandra Baral, 23-10-1915.
* ,, Jogendra Nath Biswas (a), 9-12-1914.
,, Kedar Nath Banarji (a)
Babu Shib Chandra Ray Chaudhuri, (a)
** Pandit Sundar Lal Misra (a), 2-6-1914.
Babu Surendra Kumar Banarji (a), 30-3-1913.
Maulvi Syed Ahmed, 21-6-1915.

NAIHATI INDEPENDENT BENCH.‡ °

Rai Barada Kanta Mitra Bahadur (a) (b)°, 6-6-1915.
** Mahamahopadhyaya Hara Prasad Shastri, C.I.E.°(a)
Babu Hari Charan Banarji (a), 27-9-1913.
,, Jogendra Nath Banarji (a), 30-6-1914.
** Pandit Krishna Pada Bidyaratna (a).
Babu Panchkari Mitra (a), 30-6-1914.
Rai Shyama Charan Bhattacharji Bahadur (a), 6-6-1915.
** Babu Shyam Lal Mukharji (a).
Mr. Sidney Herbert Ashworth, 28-4-1914.

(a) Empowered to take down evidence in criminal cases in the English language.
(b) Authorized to sit singly for the trial of cases.
(c) Vested with powers to try summarily the offences mentioned in section 261 of the Code of Criminal Procedure.
(d) Shall try offences occurring within the limits of the Panihati Municipality under Bengal Act III of 1884 and the bye-laws under it, sec. 34 of Act V of 1861, Bengal Act I of 1869 as amended by Bengal Act II of 1869, Bengal Act V of 1880 as amended by Bengal Acts II of 1887 and II of 1890 and Bengal Acts IV of 1873 and II of 1891.
(e) Shall try offences occurring within the limits of the Kamarhati Municipality under Bengal Act III of 1884, and the bye-laws under it. Sec. 34 of the Police Act V of 1861, Bengal Acts I of 1869, V of 1880, IV of 1873, II of 1891 and II of 1867 and such cases as may be made over to it by the Subdivisional Officer of Barrackpore.
(f) Shall try offences occurring within the Halishahar Municipality as in note (d) above.
(g) Vested with powers under sec. 260 of the Criminal Procedure Code.
(h) Appointed for one year only.

* † ‡ § ** †† For the e references—See page 398.

HONORARY MAGISTRATES IN THE MUFASSAL.

24-Parganas.

KANCHRAPARA INDEPENDENT BENCH. * ‡ (f)

Mr. Herbert Henry Spalding, 28-5-1915.
Babu Krishna Chandra Ghatak (a) (b), 6-1-1914.
Babu Nikunja Bihari De (a), 28-5-1915.
,, Priya Nath Das (a), 24-10-1916.

BHATPARA INDEPENDENT BENCH. (d) * ‡

Babu Abinash Chandra Sarkar, 27-5-1915.
,, Ashutosh Bhattacharji (a), 27-4-1913.
Mr. David Mudie, 1-7-1913.
Babu Girija Charan Bhattacharji (a), 25-2-1915.
Mr. James Bookless, 22-5-1915.
Khan Bahadur Zakir-ud-din Ahmad (a), 15-4-1913.
Rai Shyama Charan Bhattacharji Bahadur * (a) (b) (e), 1-7-1913.

BASIRHAT INDEPENDENT BENCH. ‡ *

Babu Atul Chandra Ray (a), 3-11-1914.
** Khan Bahadur Ghulam Qasim. (b) *
Maulvi Muhammad Ibrahim (a), (b), 15-5-1914.
Babu Shashi Bhushan Basu, 31-5-1915.
Maulvi Tafazzul Husain, 31-5-1915.
Babu Nagendra Nath Sen Gupta (a) (b), 5-12-1916.

TAKI MUNICIPAL BENCH. ‡

** Babu Bijay Kali Ray Chaudhuri. (a)
** ,, Praphulla Chandra Ghosh. (a)
Babu Pranab Chandra Ghosh, 28-4-1914.
,, Satish Chandra Ray Chaudhuri (a), 19-7-1914.

BARANAGAR INDEPENDENT BENCH. ‡ * (g)

** Babu Bihari Lal Banarji. (a)
,, Gopendra Lal Dey (a), 14-1-1916.
,, Kedar Nath Banarji, 24-5-1915.
** ,, Kedar Nath Gangali, M.B. (a).
Babu Panchu Gopal Chakrabatti, 22-5-1916.
,, Phanindra Lal De (a), 7-4-1914.
,, Sarada Prasad Banarji. * (a) (b).
Mr. William Cuthbert 2-2-1915.
Babu Pran Krishna Saha. (a), 28-10-1916.

RAJPUR INDEPENDENT BENCH.

** Babu Akshay Kumar Mukharji. (a)
,, Bipin Bihari Bose, 20-10-1914.
,, Basanta Kumar Chakrabatti, 21-1-1914.
,, Hira Lal Ghosh, 1-9-1914.
** Babu Rajendra Nath Bhattacharji (a), 13-4-1915.
,, Surendra Kumar Basu (a), 1-6-1915.
** ,, Upendra Nath Mitra (a) (b), * 25-2-1915.

GOBARDANGA MUNICIPAL BENCH. ‡

** Rai Girija Prasanna Mukharji Bahadur.
Babu Jyoti Prasanna Mukharji, 3-1-1916.
,, Pramatha Nath Datta, 29-5-1916.
Babu Suresh Chandra Mitra (a), 8-1-1917.
,, Tarak Das Banarji, 21-5-1915.

BADURIA MUNICIPAL BENCH. ‡

* Maulvi A'az-ud-din Mulla.
Babu Khagendra Nath Basu (a), 5-12-1913.
,, Jaladhar Mandal (a), 26-1-1915.
Babu Satindra Nath Ray, 9-4-1914.
,, Sarat Chandra Basu, 25-11-1913.
** ,, Trailokya Nath Nag.

TITAGARH MUNICIPAL BENCH. * ‡ (c)

Maulvi Ilahi Bakhsh, 2-1-1917.
Mr. James Webster-Archer, 26-2-1915.
,, John Toohey, 18-7-1914.
,, Robert Necoll Neish, 9-11-1916.
Babu Karunamay Chatarji (a), 13-10-1914.
Maulvi Saiyid Mafakhar-ur-Rahman, 27-5-1915.
Babu Upendra Nath Mukharji (a), 18-7-1914.
Mr. William Anderson Mitchell, 18-6-1915.
Mr. John Williamson, 16-9-1916.

(a) Empowered to take down evidence in criminal cases in the English language.
(b) Authorized to sit singly for the trial of cases.
(c) Vested with the powers to try summarily the offences mentioned in section 261, clause (b) of the Code of Criminal Procedure.
(d) Empowered to take cognizance of offences under Act I (B.C.) of 1869 and Act V (B.C.) of 1880.
(e) Empowered to take cognizance under section 190 (1) (b) Criminal Procedure Code of cases under Act V of 1861.
(f) Vested with powers under Act III (B.C.) of 1884, Act V of 1861, Act I (B.C.) of 1869, Act V (B.C.) of 1881, Act IV (B.C.) of 1893, Act II (B.C.) of 1891, and also to try such cases as may be made over by the Subdivisional Officer of Barrackpore.
(g) Empowered to take cognizance of complaints under the Bengal Municipal Act and of offences reported by the Police, under sec. 34 of Act V of 1861, arising in the town of Kamarhati.

* † ‡ § ** †† For these references—See page 398.

JUSTICES OF THE PEACE. (e)

A

Adie, Walter Sibbald.
Agabeg, Frank Joseph.
Anley, Ferdinand Sibley Russel. (a)

B.

Baboneau, John Theodore.
Bartley, Charles.
———, Frederick Douglas (a).
———, John.
Beachcroft, The Hon'ble Mr. Justice Charles Porten.
Bell, The Hon'ble Mr. Nicholas Dodd Beatson, C.I.E.
Bingemann, L. S.
Bird Leslie Newman.
Birley, Leonard, C.I.E.
Blomfield, Henry George.
Bompas, Cecil Henry.
Bradley-Birt, Francis Bradley.
Burrows, Lionel Burton.

C.

Cammiade, Paul Eugene.
Cargill, James Dudley.
Cassells, Alexander.
Chapman, The Hon'ble Mr. Justice Edmund Pelly.
Chotzner, Alfred James.
Clarke, Reginald. (a)
Clayton, Alfred Hare.
Clough, Thomas.
Cook, Arthur Willsteed.
Corbett, Edward Holmes (a).
Crosse, C. H.
Cuming, Arthur Herbert.
Cumming, John Ghest, C.S.I., C.I.E. The Hon'ble Mr.

D.

Dawson, Vernon.
Delevingne, Walter Norman.
Donald, The Hon'ble Mr. James.
Drummond, John Graham.
Dunlop, John Graham.
Duval, Herbert Philip.

E.

Edgley, Norman George Armstrong.
Emerson, Thomas.
Ezechiel, Joseph Aloysius.

F.

French, Joseph Charles.
———, Francis Coope.

G.

Gabriel, Edward Virian, C.V.O.
Garlick, Ralph Reynolds.
Gauntlett, Mager Frederic.
Geary, Francis Joseph Grattan.
Goldie, John Alphonse Marie Joachim (a).
Goode, Samuel Walter, The Hon'ble Mr.
Gourlay, William Robert.
Graham, John Fuller, The Hon'ble Mr.

H.

Hallifax, Arthur George.
Hamilton, Robert Clifton.
Hart, Sidney George.
Hopkyns, William Stenning.
Howard, Henry Fraser, C.I.E.
Hughes-Buller, Ralph Buller, C.I.E.

J.

Jack, James Charles.
Jameson, Alexander Keith.
Johnston, John.

K.

Kerr, The Hon'ble Mr. John Henry, C.S.I., C.I.E.
Kirkwood, Major, A. T.

L.

Lambourn, George Ernest.
Lang, John, The Hon'ble Mr.
Lees, Donald Hector.
Liddell, Henry Crawford.
Lindsay, James Hamilton.
Lyon, The Hon'ble Mr. Percy Comyn, C.S.I.

M.

Maclure, Douglas Stuart. (a)
Maitland, Henry Comyn.
Mannooch, Edward Moore.
Marr, William Alexander.
——, Alexander.
Maxwell, William, Sir, M.V.O., K.C.I.E.
McAlpin, Malcolm Caird.
Mellor, Arthur.
Milligan, James Aitchison.
Milne, William Stanley.
Milson, Ernest.
Monahan, The Hon'ble Mr. Francis John.
Moseley, Charles Henry.
Muddiman, The Hon'ble Mr. Alexander Phillips, C.I.E.
Mumford, Gerald Blomfield.

N.

Nelson, William Henry.
Newbould, The Hon'ble Mr. Justice Babington Bennett.

O.

O'Malley, Lewil Sydney Stewart.

P.

Panton, Edward Brooke Henderson.. The Hon'ble Mr.
Parker, N. T., Lt.-Col.
Patterson, David Clarke.
Payne, Charles Frederick.
Patterson, Arthur Abbey.
Peterson, John Carlos Kennedy.
Prentice, William David Russell.

R.

Rankin, James Thomson.
Reid, Robert Niel.
Richardson, The Hon'ble Mr. Justice Thomas William.
Robertson, Frederick Wynne.
Russell, Charles Lennox Somerville.
Rosa, James Alexander.

S.

Sachse, Frederic Alexander.
Samman, The Hon'ble Mr. Herbert Frederick.
Seaton, William Alexander.
Shaw, Bernard Vidal. (a)
Smither, Maurice.
Spry, Henry Ernest.
Stevens, Charles Geoffry Buckland.
Stevenson-Moore, The Hon'ble Mr. Charles James, C.V.O.
Stinton, Selby Edwin.
Street, James Howard Algernon.
Strong, Frederick William.
Swan, John Arthur Laing.

T.

Tegart, Charles Augustus, C.I.E. M.V.O.
Teunon, The Hon'ble Mr. Justice William.
Thompson, Walter Henry.
Thomson, William Boyd.
Tindall, Christian.
Todd, Arthur Cecil.
Townend, Herbert Patrick Victor.
Twidell, The Hon'ble Mr. John Cook.

V.

Vas, Joseph.
Veitch, Harold Massyn.

W.

Waddell, Peter Hately.
Walker, Captain A. M. E. H. T.
Walmsley, The Hon'ble Mr. Justice Hugh.
Ward, Francis Wyndham.
Watson, Arthur William.
Wheeler, Sir Henry, K.C.I.E., C.S.I.
Whitmore-clarke, D. M. C. (a)
Wilson, John Skinner. (a)
Wood, The Hon'ble Mr. John Barry, C.I.E.
Woodhead, John Ackroyd.

Presidency Magistrates of Calcutta are also *ex-officio* Justices of the Peace.
* Kaisar-i-Hind silver medal.
(a) Within the limits of the town of Calcutta.

PART XXX.

A.—DISTRIBUTION LIST.

Statement showing the list of Divisions, Districts, Subdivisions, Police-stations, Thanas, Registration Offices, Munsifs and Municipalities in Bengal.

Name of Division with Head-quarters in italics.	Name of District with Head-quarters in italics.	Sub-division.	Police-stations (investigating centres) within the thanas.	Thanas (Revenue units).	Registration Offices.	Munsifs.	Municipalities.
BURDWAN—(*Burdwan*).	BURDWAN—(*Burdwan*).	Sadar.	Burdwan P. T. R. ...	Burdwan	Burdwan Sadar ...	Burdwan.	Burdwan.
			Sahibganj P.	Sahibganj	Sahibganj		
			Satgachia P.	Satgachia ...	Memari		
			Memari P. T. R.... ...				
			Ausgram P.	Ausgram	Gushkara		
			Khondaghosh P. ...	Khondaghosh ...	Khondaghosh ...		
			Jamalpur (Moyna) P. ...	Jamalpur (Moyna)	Jamalpur		
			Gulsi P. T. R.	Gulsi	Mankar		
			Raona P.	Raona	Raona		
		Kalna, Katwa.	Katwa P. T. R.	Katwa	Katwa	Katwa ...	Katwa.
			Ketugram P.	Ketugram... ...	Ketugram		Dainhat.†
			Mongolkot P.	Mongolkot ...	Mongolkot		
			Kalna P. T. R.	Kalna	Kalna	Kalna	Kalna.
			Purbasthali P. T. R. ...	Purbasthali ...	Purbasthali		
			Manteswar P.	Manteswar ...	Manteswar		
		Asansol.	Asansol Town P. T. R. ...				
			Asansol Mufassil P. T. R.				
			Nismatpur	Asansol	Asansol	Asansol ...	Asansol.*†
			Barabani R.				Raniganj.*
			Salanpur P. T. R. ...				
			Dishergarh				
			Raniganj P. T. R. ...	Raniganj... ...	Raniganj		
			Jamuria R.				
			Ondal P. T. R.				
			Faridpur				
			Kaksa	Kaksa			
	BIRBHUM—(*Suri*).	Sadar.	Suri P. T. R.	Suri	Suri Sadar	Suri... ...	Suri.
			Muhammadbazar P. ...				
			Rajnagar P.				
			Sainthia P. T. R. ...				
			Dubrajpur P. T. R. ...	Dubrajpur ...	Dubrajpur	Dubrajpur.	
			Khayrasole P.				
			Shahpur				
			Bolpur P. T. R.	Bolpur	Bolpur	Bolpur	
			Illambazar P.				
			Ahmadpur				
			Nannoor P.	Nanoor	Labpur		
			Labpur P....	Labpur			
		Rampurhat.	Rampurhat P. T. R. ...	Rampurhat ...	Rampurhat ...	Rampurhat.	
			Mayureshwar P. ...	Mayureshwar ...			
			Nalhati P. T. R. ...	Nalhati	Nalhati		
			Murarol P. T. R. ...	Murarol			
	BANKURA—(*Bankura*).	Sadar.	Bankura P. T. R. ...	Bankura	Bankura Sadar ...	Bankura.	Bankura.
			Chatna P. T. R. ...				
			Onda P. T. R.	Onda	Onda		
			Taldangra P.				
			Gangajalghati P. T. ...	Gangajalghati ...	Gangajalghati ...		
			Saltora P.		Saltora		
			Borjora P.				
			Mejhia P.				
			Khatra P.	Khatra	Khatra	Khatra.	
			Indpur P.				
			Ranibandh P				
			Raipur P.	Raipur	Raipur		
			Simlapal P.	Simlapal			

* Municipalities in which all the Commissioners shall be appointed by the Local Government. Of those not marked with an asterisk, two-thirds of the members shall be elected by the rate-payers.

† Municipalities in which the Chairman shall be appointed by the Local Government. In the rest the Chairman will be elected by the Commissioners.

NOTE.—The districts to which the jury system has been extended are Burdwan, Hooghly, 24-Parganas, Nadia, Murshidabad, Khulna, Jessore, Dacca, Mymensingh, Chittagong, Rajshahi; (*vide* Judl. Dept. Notification No. 2360 J., dated the 19th April 1897).

P.=Post Office. T.=Telegraph Office. R.=Railway Station.

A.—DISTRIBUTION LIST.

Name of Division with Headquarters in italics.	Name of District with Headquarters in italics.	Subdivision.	Police-stations (investigating centres) within the thanas.	Thanas (Revenue units).	Registration Offices.	Munsifs.	Municipalities.
BURDWAN—(*Chinsura*)—*continued.*	BANKURA—*Bankura*—*concluded.*	Vishnupur.	Vishnupur P. T. R. ...	Vishnupur ...	Vishnupur ...	Vishnupur ...	Vishnupur.
			Joypur P.				
			Joyrampur				
			Sonamukhi P. T. R. ...	Sonamukhi ...	Sonamukhi ...		Sonamukhi.
			Seramampur	Kotalpur ...	Kotalpur ...		
			Kotalpur P.				
			Indas P. T. R.	Indas	Indas		
	MIDNAPORE—(*Midnapore*).	Sadar.	Midnapore P. T. R. ...	Midnapore ...	Midnapore 1st Joint (Sadar).		Midnapore.
			Kharagpur P. T. R. ...	Kharagpur ...	Midnapore 2nd Joint at Sadar.		
			Kharagpur Town P. T. R.				
			Jhargram P. T. R. ...	Jhargram ...	Jhargram.		
			Binpur P.	Binpur	Binpur	Midnapore.	
			Salbani P. T. R. ...	Salbani	Anandapur ...		
			Keshpur P.	Keshpur (*a*) ...			
			Debra P.	Debra	Debra		
			Sabong P.	Sabong	Sabong		
			Pingla P.				
			Narayangarh P. T. R. ...	Narayangarh ...	Narayangarh ...		
			Keshiari P.				
			Garhbeta P. T. R. ...	Garhbeta	Garhbeta	Garhbeta.	
			Dantan P. T. R. ...	Dantan	Dantan ...		
			Mohanpur P.		Do. Joint at Mohanpur.	Dantan.	
			Gopiballavpur P. ...	Gopiballavpur ...	Gopiballavpur ...		
			Nayagram P.		Dantan ...		
		Ghatal.	Ghatal P. T.	Ghatal	Ghatal	Ghatal ...	Ghatal.
			Daspur P.	Daspur			
			Chandrakona P. T. R. ...	Chandrakona ...	Jara	Partly in the Ghatal Munsifi and partly in the Garbeta Munsifi.	Kharar.† Chandrakona. Khirpai. Ramjibanpur.
			Ramjibanpur P.				
		Tamluk.	Tamluk P. T.	Tamluk	Tamluk		Tamluk.
			Mayna P.		Mayna		
			Sutahata P.	Sutahata	Kukrahati		
			Panskura P. T. R. ...	Panskura	Panskura		
			Nandigram P.	Nandigram ...	Nandigram 1st Jt. ...	Tamluk	
					Ditto 2nd Joint (Chandipur) at Nargnat.		
			Mahisadal T.	Mahisadal ...	Mahisadal		
			Gewankhali P.				
		Contai.	Khajri P.	Khajri	Khajri		
			Contai P. T. R.	Contai	Contai		
			Bahiri		Do. Joint at Marisda.		
			Basudebpur P.		Contai 2nd Joint at Basudebpur.	Contai.	
			Ramnagar P.	Ramnagar ...	Ramnagar		
			Bhagwanpur P.	Bhagwanpur ...	Kajlagarh		
			Henria P.				
			Egra P. T.	Egra	Egra	Dantan.	
			Patashpur P.	Patashpur ...	Patashpur		
	HOOGHLY—(*Chinsura*).	Sadar.	Pandua P. T. R. ...	Pandua	Pandua		
			Dhaniakhali P. T. R. ...	Dhaniakhali ...	Dhaniakhali ...	Hooghly ...	Hooghly and Chinsura. Bansberia.
			Dadpur P.				
			Polba P.	Polba	Hooghly Sadar ...		
			Balagarh R. T.	Balagarh			
			Hooghly R.	Hooghly			
			Magra P. T. R.				

* Independent outpost.

† Municipalities in which the Chairman shall be appointed by the Local Government. In the rest the Chairman will be elected by the Commissioners.

(*a*) Partly in the Garhbeta Munsifi and partly in the Sadar Munsifi.

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A.—DISTRIBUTION LIST.

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PRESIDENCY—(*Calcutta*).	24-PARGANAS—(*Alipore*).	Sadar.	Haripal P. T. R. ...	Haripal	Haripal	Serampore ...	Serampore.
			Tarkeswar P. T. R. ...				Rishra Konnagar.
			Jangipara P. R.	Jangipara ...	Jangipara		Uttarpara.[*]
			Serampore P. T. R. ...	Serampore ...	Serampore		Baidyabati.
			Bhadreswar P. T. R. ...				Bhadreswar.
			Uttarpara P. T. R. ...				Kotrung.
			Singur P. T. R.	Singur	Jonai		
			Chanditala P. R. ...	Chanditala ...			
			Arambagh P. T. ...	Arambagh ...	Arambagh	Arambagh	Arambagh.[*]
			Purso a				
			Goghat P.	Goghat	Goghat		
			Badanganj P.		Goghat Joint at Shambazar.		
			Khanakul P. T.	Khanakul	Khanakul		
			Howrah P. R. T. ...	Howrah		Howrah	Howrah.
			Bantra P.				
			Bally P. T. R. S. ...	Bally	Howrah Sadar ...		Bally.
			Lillooah P. T. R. ...	Lillooah			
			Golabari	Golabari			
			Sibpur P. T.	Sibpur			
			Dumjur P. R.	Dumjur	Dumjur (Sadar Joint)		
			Jagacha				
			Sankrail P. T. R. ...				
			Jagatballavpur P. ...	Jagatballavpur ...	Jagatballavpur ...		
			Panchla P.				
		Uluberia.	Amta P. R. T.	Amta	Amta	Amta	
			Singti P.				
			Bagnan P. T. R. ...	Bagnan	Uluberia	Uluberia	
			Uluberia P. T. R. S. ...	Uluberia			
			Bowria R.				
			Shampur P.	Shampur	Shampur		
			Mondalghat				
		Diamond Harbour.	Magrahat P. T. R. ...	Magrahat	Magrahat	Diamond Harbour.	
					Ditto Joint at Eyarpur.		
			Falta P.	Falta	Sararhat		
			Diamond Harbour P. T. R.	Diamond Harbour	Diamond Harbour ...		
			Kulpi P.	Kulpi	Sultanpur (Ghateswara).		
			Kakdwip P.		Sultanpur Joint at Tengra.		
			Sagore				
			Mathurapur P.	Mathurapur ...	Mathurapur ...		
		Sadar.	Alipore	.....		Alipore	Joynagar.
			Tollygunge P. T. ...	Tollygunge † ...	Alipore. Alipore Joint at Behala.		
			Sonarpore P. T. R. ...	Sonarpore			
			Bhowanipur.†				
			Ekbalpur.†				
			Watganj.†				
			Garden Reach.†				
			Behala P. T.	Behala			
			Metiabruz				
			Mahestola P.				
			Ballygunge †	.....	Ditto ...		
			Canning P. T. R. ...	Matla	Matla		
			Jaynagar P.	Jaynagar	Jaynagar	Barnipur ...	Barnipur.‡
			Barnipur P. T. R. ...	Barnipur ...	Barnipur		
			Protapnagor P.				
			Vishnupur P.	Vishnupur ...	Vishnupur		
			Budge-Budge P. T. R.	Budge-Budge ...	Budge-Budge ...	Alipore ...	Rajpur.
			Bhangar P.	Bhangar ...	Sealdah		Budge-Budge.‡
			Ballygunge (north)†	.....	Do.		Garden Reach.[*]‡
							South Suburban.
							Tollygunge.

HOOGHLY—(*Chinsura*)—*concluded*.

BURDWAN—(*Chinsura*)—*concluded*.

HOWRAH—(*Howrah*).

* Municipalities in which all the Commissioners shall be appointed by the Local Government. Of those not marked with an asterisk, two-thirds of the members shall be elected by the Commissioners.

† Included in the Police Jurisdiction of Calcutta.

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A.—DISTRIBUTION LIST.

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PRESIDENCY—(*Calcutta*).	24-PARGANAS—(*Alipore*).	Sadar.	Alipore	.....			
			Tollygunge P. T. ...	Tollygunge† ...			
			Sonarpore P. T. R. ...	Sonarpore			Joynagar.
			Bhowanipur.†		Alipore, Alipore Joint at Behala.		
			Ekbalpur.†				
			Watganj.†				
			Garden Reach.†				
			Behala P. T.	Behala			
			Metiabruz				
			Mahestola P.				
			Ballygunge†	.....	Ditto ...		
			Canning P. T. R. ...	Matla	Matla		
			Jaynagar P.	Jaynagar	Jaynagar	Baruipur ...	Baruipur.‡
			Baruipur P. T. R. ...	Baruipur ...	Baruipur		
			Protapnagor P.				
			Vishnupur P.	Vishnupur ...	Vishnupur		
			Budge-Budge P. T. R.	Budge-Budge ...	Budge-Budge ...	Alipore ...	Rajpur.
			Bhangar P.	Bhangar ...	Sealdah		Budge-Budge.‡
			Ballygunge (north)†	.....	Do.		Garden Reach.‡
							South Suburban.
							Tollygunge.
	HOWRAH—(*Howrah*).	Sadar.	Howrah P. R. T. ...	Howrah			Howrah.
			Bantra P.				
			Bally P. T. R. S. ...	Bally			Bally.
			Lillooah P. T. R. ...	Lillooah	Howrah Sadar ...		
			Golabari	Golabari			
			Sibpur P. T.	Sibpur		Howrah	
			Dumjur P. R.				
			Jagacha	Dumjur	Dumjur (Sadar Joint)		
			Sankrail P. T. R. ...				
			Jagatballavpur P. ...	Jagatballavpur ...	Jagatballavpur ...		
			Panchla P.				
		Uluberia.	Amta P. R. T.	Amta	Amta	Amta	
			Singti P.				
			Bagnan P. T. R. ...	Bagnan	Uluberia	Uluberia	
			Uluberia P. T. R. S. ...	Uluberia			
			Bowria R.				
			Shampur P.	Shampur	Shampur		
			Moudaighat				
		Diamond Harbour.	Magrahat P. T. R. ...	Magrahat	Magrahat ... ... Ditto Joint at Eyarpur.		
			Falta P.	Falta	Sarachat		
			Diamond Harbour P. T. R.	Diamond Harbour	Diamond Harbour ...	Diamond Harbour.	
			Kulpi P.	Kulpi	Sultanpur (Ghateswara).		
			Kakdwip P.		Sultanpur Joint at Tengra.		
			Sagore				
			Mathurapur P.	Mathurapur ...	Mathurapur ...		
	HOOGHLY—(*Chinsura*)—*concld.*	Serampore.	Haripal P. T. R. ...	Haripal	Haripal	Serampore ...	Serampore.
			Tarkeswar P. T. R. ...				Rishra Konagar.
			Jangipara P. R.	Jangipara ...	Jangipara		Uttarpara.*
			Serampore P. T. R. ...	Serampore ...	Serampore		Baidyabati.
			Bhadreswar P. T. R. ...				Bhadreswar.
			Uttarpara P. T. R. ...				Kotrung.
			Singur P. T. R.	Singur	Jonai		
			Chanditala P. R. ...	Chanditala ...			
		Arambagh.	Arambagh P. T. ...	Arambagh ...	Arambagh	Arambagh	Arambagh.*
			Purso a				
			Goghat P.	Goghat	Goghat ... ... Goghat Joint at Shambazar.		
			Badanganj P.				
			Khanakul P. T.	Khanakul	Khanakul		

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PRESIDENCY—(*Calcutta*)—*continued.*	24-PARGANAS—(*Alipore*)—*concluded.*	Sadar—*concluded.*	Chitpur	...	Sealdah	Sealdah	Cossipore and Chitpur.
			Maniktala†				Maniktala.
			Uttadanga.‡				Baranagar.
			Ballaghatta.‡				Kamarhati.†
			Intally.‡				Garulia*†.
			Beniapukur.‡				Barrackpore (including Barrackpore Cantonment).
		Barrackpore.	Baranagar P. T. ...	Baranagar ...	Cossipore		North Barrackpore.
			Barrackpore P. T. R. ...	Barrackpore ...	Barrackpore ...		Panihati.
			Tittagarh P. T. R. ...				Tittagarh.*
			Noapara	Noapara ...			North Dum-Dum (including Dum-Dum Cantonment).
			Khardah P. T. R. ...	Khardah ...			South Dum-Dum.
			Dum-Dum P. T. R. ...	Dum-Dum ...	Dum-Dum		
			Naihati P. T. R. ...	Naihati ...	Naihati		Naihati.
			Jagatdal P.				Halisahar.†
		Barasat.	Habra T. R.	Habra	Habra	Barasat	Bhatpara.*
			Deganga P.	Deganga	Deganga		
			Barasat P. T. R. ...	Barasat ...	Barasat		Gobardanga.
			Amdanga P.	.....	Naihati ...		Barasat.
			Rajarhat P. R.	.....	Dum-Dum ...		
		Basirhat.	Sarupnagore P.	Baduria	Baduria		Baduria.
			Baduria P. T. S. ...				
			Basirhat P. T. R. S. ...	Basirhat ...	Basirhat		
			Haroa P.	Haroa	Haroa	Basirhat ...	Basirhat.
			Hasnabad P.	Hasnabad ...	Basirhat Joint at Hasnabad.		Taki.
			Sandeshkhali P.				
			Chaital				
	CALCUTTA.	Calcutta.	Shampooker	.....	Calcutta.		
			Burtolla	.....			
			Scotch's Street	.....			
			Jorabagan	.....			
			Jorasanko	.....			
			Barabazar	.....			
			Moocheepara	.....			
			Bowbazar	.....			
			Waterloo Street	.....			
			Taltolla	.....			
			Park Street	.....			
			Hastings	.....			
	NADIA—*Krishnagar.*	Kushtia.	Kushtia P. T. R. ...	Kushtia	Kushtia		Kushtia.
			Mirpur P. T. R. ...	Mirpur	Mirpur		
			Bhatramara P. T. R. ...				
			Kumarkhali P. T. R. S.	Kumarkhali ...	Kumarkhali ...	Kushtia ...	Kumarkhali.
			Khoksa R. T. S. ...	Daulatpur ...			
			Daulatpur P.		Shikarpur		
		Meher-pur.	Karimpur P.	Karimpur ...			
			Gangani P.	Gangani	Meherpur	Meherpur ...	Meherpur.
			Meherpur P. T.	Meherpur			
			Tehatta	Tehatta			

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A.—DISTRIBUTION LIST.

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PRESIDENCY—(*Calcutta*)—*continued.*	NADIA—(*Krishnagar*).	Chuadanga.	Chuadanga P. T. R. ...	Chuadanga ...	Chuadanga ...	Chuadanga	
			Alamdanga P. T. R. ...	Alamdanga ...			
			Damurhuda P.	Damurhuda ...	Ramnagar ...		
			Jibannagar P.	Jibannagar ...			
		Sadar.	Kaliganj P.	Kaliganj	Krishnagar Sadar...	Krishnagar ...	Krishnagar.
			Nakasipara P.	Nakasipara ...			
			Kissenganj P.	Kissenganj ...			Nabadwip.
			Krishnagar P. T. R. ...	Krishnagar ..			
			Hanskhali P.				
			Chapra				
			Nadia (Nabadwip) P. T. R. S.				
		Ranaghat.	Santipur P. T. R. ...	Santipur	Santipur	Ranaghat ...	Santipur.
			Ranaghat P. T. R. ...	Ranaghat ...	Ranaghat		Ranaghat.
			Chakdah P. T. R. ...	Chakdah ...	Chakdah (Birohi)		Birnagar.†
			Haringhata				Chakdah.†
	MURSHIDABAD—(*Berhampore*).	Sadar.	Beldanga P. T. R. ...	Beldanga ...	Berhampore ...	Berhampore	Berhampore (including Cantonment).
			Saktipur P.	Daulatbazar ...			
			Daulatbazar P.	Nawada			
			Nawada	Gorabazar ..			
			Gorabazar	Hariharpara ...	Domkol, Azimganj		
			Hariharpara	Raninagar ...			
			Raninagar	Domkol			
			Hurshi				
			Domkol P. T.				
			Jelangi P.				
		Lalbagh.	Bhagwangola P. T. R. ...	Bhagwangola ...	Lalbagh	Lalbagh ...	Murshidabad.
			Murshidabad P. T. R. ...	Murshidabad ...			
			Jiaganj P. T. R. ...	Jiaganj	Azimganj		Azimganj.
			Sagardighi P. T. R. ...	Sagardigh ..			
			Nabagram P.	Nabagram ...			
		Jangipur.	Lalgola P. T. R.	Lalgola	Jangipur	Jangipur ...	Jangipur.
			Raghunathganj P. T ...	Raghunathganj ...			Dhulian.*
			Mirzapur P.	Mirzapur	Nimtita		
			Suti	Suti			
			Shamshirganj	Shamshirgan ...			
			Farakka P.				
		Kandi.	Khargram P.	Khargram ...	Kandi	Kandi, Kandi joint	Kandi.†
			Kandi P. T.	Kandi			
			Burwan P.	Burwan	Bharatpur		
			Gokarna P.	Gokarna			
			Bharatpur P.	Bharatpur ...			
			Kagram P.				
	JESSORE—(*Jessore*).	Sadar.	Jessore P. T. R.	Jessore	Jessore Sadar, Jessore Joint at Sadar.	Jessore ...	Jessore.
			Changacha P.				
			Bagherpara P.	Bagherpara ...	Bagherpara		
			Jhikargacha P. T. R. ...	Jhikargacha ...	Goadkhali (Jhikargacha).		
			Manirampur P.	Manirampur ...	Manirampur, Manirampur Joint at Rajganj.		
			Nowapara P. T. R. ...				
			Keshabpur P.	Keshabpur ...	Keshabpur		
		Magura.	Magura P. T.	Magura	Magura, Magura Joint at Sripur.	Magura	
			Sripur P.				
			Salikhiya P.	Muhammadpur ...	Salkhiya ...		
			Muhammadpur P. ...		Muhammadpur ...		

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PRESIDENCY—(*Calcutta*)—*concluded*.	JESSORE—(*Jessore*)—*concld*.	Narail.	Lohagara	Lohagara ...	Lakshmipasa, Lakshmipasa Joint at Alfadanga.	Narail.	
			Alfadanga P.				
			Narail P. T.	Narail	Narail, Narail Joint at Singalpur		
			Abhaynagar				
			Kalia P. T.	Barkalia	Kalia		
		Bongaon.	Maheshpur P.	Maheshpur ...	Khalispur	Bongaon ...	Maheshpur.†
			Sarsha P.	Sarsha			
			Bongaon P. T. R. ...	Bongaon	Bongaon		
			Naraganti	.....			
			Gaighata P.	Gaighata			
		Jhenida.	Salkopa P. T.	Salkopa	Salkopa, Salkopa Joint at Abaipur.	Jhenida ...	Kotchandpur.
			Harinakundu P. ...		Harinakundu ...		
					Kotchandpur ...		
			Kotchandpur P. ...	Jhenida	Jhenida, Jhenida Joint at Gopalpur Bazar.		
			Jhenida P. T. R. ...				
			Kaliganj R.	Kaliganj ...	Kaliganj, Kaliganj Joint at Barabazar.		
	KHULNA—(*Khulna*).	Sadar.	Khulna P. T. R. S. ...	Khulna	Khulna, Khulna Joint at Sadar.	Khulna ...	Khulna.
			Fultola P. T. R.				
			Baitaghata P. S. ...	Baitaghata ...	Damuria		
			Damuria P.	Damuria	Raruli		
			Paikgacha P. S.	Paikgacha ...			
			Dacope P.				
		Satkhira.	Kalaroa P.	Kalaroa	Kalaroa	Satkhira ...	Satkhira. Debhatta.
			Tala (Magura) P. S. ...	Magura	Magura		
			Satkhira P. T.	Satkhira	Satkhira		
			Kaliganj P.	Kaliganj	Kaliganj		
			Shyamnagar P.				
			Debhatta P.				
			Asasuni P. S.	Asasuni	Asasuni		
		Bagerhat.	Mollahat P. ...	Mollahat	Mollahat	Bagerhat	
			Bagerhat P. T. S. ...	Bagerhat ...	Bagerhat		
			Fakirhat P. T. ...		Kachua		
			Kachua P.				
			Rampal P.	Rampal	Rampal		
			Morelganj P. T. S. ...	Morelganj ...	Morelganj		
			Sarankhola P. ...				
DACCA—(*Dacca*).		Narayanganj.	Narayanganj P. T. R. S.	Narayanganj ...	Narayanganj ...	Narayanganj	Narayanganj.
			Baidyabazar ...				
			Raipura P. S. ...	Raipura	Raipur		
			Monahardi P. ...		Monohardi		
			Rupganj P. S. ...	Rupganj ...	Rupganj		
			Narsingdi P. S. ...		Ditto Jt. at Narsingdi.		
		Sadar.	Kapasia P.	Kapasia	Kaliganj 1st Jt. 2nd Jt. as at Joydebpur.	Dacca Sadar	Dacca.
			Kaliganj P. S. ...				
			Sripur				
			Kotwali P. T. R. S. ...	Kotwali or Sadar.	Dacca Sadar, 1st Jt.		
			Sutrapur				
			Lalbag P. T. R. S. ...				
			Keraniganj P. T. ...	Keraniganj ...	Ditto, 2nd Jt. at Sadar.		
			Joydebpur P. T. R. ...		Ditto, 3rd Jt. at Sadar.		

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DACCA—(*Dacca*)—*contd.*	DACCA—(*Dacca*)—*concld.*	Sadar—*concld.*	Sabhar P. T. S. Kaliakair P. Dhamrai P.	Sabhar	Sabhar, Sabhar Joint at Kaliakair.	Dacca Sadar	
			Nawabganj P. T.	Nawabganj	Nawabganj		
		Manikganj.	Manikganj P. T. Singair P. T. S.	Manikganj	Manikganj, Manikganj Joint at Singair.	Manikganj	
			Sealo P. Aricha P.	Sealo	Ghior 1st Jt. Do. 2nd Jt. at Feota.		
			Harirampur	Harirampur	Harirampur (at Lesraganj).		
		Munshiganj.	Srinagar P. T. Sirajdikhan P. S. Lohajang P. T.	Srinagar	Srinagar 1st Jt. Ditto 2nd Jt. at Sirajdikhan. Lohajang	Munshiganj	
			Munshiganj P. T. Rajabari P. T. Tangibari	Munshiganj	Munshiganj, 1st Jt. Ditto 2nd Joint at Rajabari.		
	MYMENSINGH—(*Mymensingh*).	Jamalpur.	Sherpur P. T.	Sherpur	Sherpur, Sherpur Joint at Nalitabari.	Sherpur	Sherpur.
			Nalitabari	Nalitabari			
			Dewanganj P. (*a*) Islampur P. Jamalpur P. T.	Dewanganj	Dewanganj, Joint at Bakshiganj.		
			Madarganj P. S. Melandaha	Jamalpur	Jamalpur, Jamalpur Joint at Madarganj.	Jamalpur	Jamalpur.
		Tangail.	Gopalpur P. T. Madhupur P. T. Sarishabari P. T. R.	Gopalpur	Gopalpur, Gopalpur 1st Joint at Sarishabari, 2nd Joint at Madhupur.	Pingna	
			Kalihati P. T. Ghatail P. T.	Kalihati	Kalihati, Kalihati Joint at Balla.	Tangail	Tangail.
			Tangail P. Basail P. Mirzapur Nagarpur P.	Tangail	Tangail, Tangail Joint at Pakulla, 2nd Joint at Mirzapur. Nagarpur		
		Netrakona.	Kendua P. T. Khalajuri P.	Kendua	Kendua	Netrakona	Netrakona.
			Netrakona P. T. Barhatta P. T.	Netrakona	Netrakona, Netrakona Joint at Barhatta.		
			Durgapur P. T. Kalamakanda	Durgapur	Durgapur		
		Sadar.	Phulpur Haluaghat P. Kotwali P. T. R. Trisal P.	Phulpur Kotwali	Phulpur Mymensingh Sadar, Mymensingh 1st Joint at Sadar, 2nd Joint at Phulbaria, 3rd Joint at Trisal, 4th Jt. at Sadar.	Mymensingh Sadar.	Mymensingh Muktagacha.
			Muktagacha P. T. Phulbaria	Phulbaria			
			Gaffargaon P. T. R.	Gaffargaon	Gaffargaon		

* Municipalities in which all the Commissioners shall be appointed by the Local Government. Of those not marked with an asterisk, two-thirds of the members shall be elected by the rate-payers.

† Municipalities in which the Chairman shall be appointed by the Local Government. In the rest the Chairman will be elected by the Commissioners.

(*a*) Dewanganj is under Jamalpur Munsifi.

P.=Post Office. T.=Telegraph Office. R.=Railway Station. S.=Steamer Station.

A.—DISTRIBUTION LIST

Name of Division with Head-quarters in italics.	Name of District with Head-quarters in italics.	Sub-division.	Police-stations (investigating centres) within the thanas.	Thanas (Revenue units).	Registration Offices.	Munsifs.	Municipalities.
DACCA—(*Dacca*)—*continued.*	MYMENSINGH—(*Mymensingh*)—*concluded.*	Sadar—*concld.*	Bhaluka P.	Guffargaon ...	Gaffargaon	Mymensingh Sadar.	Mymensingh. Muktagacha.†
			Nandail P.	Nandail	Nandail	Iswarganj.	
			Iswarganj P. T. ...	Iswarganj ...	Iswarganj, Iswarganj Joint at Gauripur.		
		Kishoreganj.	Kishoreganj P. T. ...	Kishoreganj ...	Kishoreganj, Kishoreganj Joint at Karimganj.	Kishoreganj	Kishoreganj.
			Badla P.				
			Kathiadi P. T.	Kathiadi ...	Kathiadi		
			Bajitpur P. T.	Bajitpur ...	Bajitpur	Bajitpur ...	Bajitpur.
			Bhairabbazar P. T. S....	Bhairab ...	Bhairab		
			Austogram P. S. ...	Austogram ...	Austogram		
	FARIDPUR—(*Faridpur*).	Sadar.	Faridpur P. T. R. ...	Faridpur ...	Faridpur	Faridpur ...	Faridpur.
			Char Bhadrasan P. ...				
			Bhusna	Bhusna ...	Saidpur at Boalmari		
			Modhukhali P.				
			Nagarkanda P.	Nagarkanda ...	Nagarkanda ...	Bhanga.	
			Bhanga P. T.	Bhanga ...	Bhanga		
			Sadarpur P.				
		Gopalganj.	Maksudpur P.	Maksudpur ...	Maksudpur.		
			Kasiani P. T.		Ditto Joint at Kasiani.		
			Gopalganj P. S. T. ...	Gopalganj ...	Gopalganj (Haridaspur).		
			Kotalipara P. T. ...	Kotalipara ...	Kotalipara ...		
		Madaripur.	Madaripur P. T. S. ...	Madaripur ...	Madaripur	Madaripur ...	Madaripur.
			Rajore P. S.		Do. Joint ...		
			Kalkini, P. S.				
			Palong P. T. S.	Palong	Palong, Palong Joint at Damadiya.	Chekandi.	
			Gosairhat P. T. ...				
			Bhadarganj P. T. ...				
			Sibchar P. T.	Sibchar	Sibchar		
			Janjira P. S.				
		Goalundo.	Goalundo P. T. R. ...	Goalundo ...	Goalundo	Goalundo.	
			Goalundo Ghat P. T. R.				
			Baliakandi P.	Baliakandi ...	Baliakandi		
			Pangsa P. T. R. ...	Pangsa	Pangsa		
	BAKARGANJ—(*Barisal*).	Patuakhali.	Patuakhali P. T. S. ...	Patuakhali ...	Patuakhali, Patuakhali Joint at Betagi.	Patuakhali	Patuakhali.
			Betagi P. S.				
			Mirzaganj P.				
			Bauphal P. T.	Bauphal ...	Bauphal ...		
			Amtoli P. S.	Amtoli	Amtoli		
			Barguna P. S				
			Galachipa P. S.	Galachipa ...	Galachipa		
		Pirojpur.	Mathbaria P.	Mathbaria ...	Mathbaria, Mathbaria Joint at Bamna.	Pirojpur ...	Pirojpur.
			Bamna P. S.				
			Swarupkati P. S. ...	Swarupkati ...	Swarupkati, Swarupkati Joint at Nazirpur.		
			Nazirpur P. S.				
			Banaripara P. T. S. ...				
			Pirojpur P. T.	Pirojpur ...	Pirojpur, Pirojpur Joint at Kowkhali.		
			Kowkhali P. S. T. ...				
			Bhandaria P. S.	Bhandaria ...	Bhandaria, Bhandaria Joint at Amua.		

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A.—DISTRIBUTION LIST.

Name of Division with Headquarters in italics.	Name of District with Headquarters in italics.	Subdivision.	Police-stations (investigating centres) within the thanas.	Thanas (Revenue units).	Registration Offices.	Munsifs.	Municipalities.
DACCA—(*Dacca*)—*concluded.*	BAKARGANJ—(*Barisal*)—*concld.*	Sadar.	Bakarganj	Bakarganj ...	Bakarganj (Sahibganj).	Barisal	Barisal.
			Mehendiganj P.	Mehendiganj ...	Patarhat (Mehendiganj).		
			Badartund P.				
			Barisal P. T. S.	Barisal ...	Barisal Sadar ...		
			Babuganj		Do. Joint at Babuganj Sadar.		
			Gaurnadi P. T. S. ...	Gaurnadi ...	Gaurnadi		
			Maladi P.				
			Uzirpur P.				
			Jhalakati P. T. S. ...	Jhalakati ...	Jhalakati, Jhalakati Joint at Rajapur.		Jhalakati.
			Rajapur P. S.				
			Nalchiti P. T. S. ...	Nalchiti ...	Nalchiti		Nalchiti.[b]
		Dakshin Shahbazpur (Bhola).	Bhola P. T. S.	Bhola	Bhola. Bhola Joint at Radhaballav.	Dakshin Shahbazpur (Bhola).	
			Daulatkhan P. T. S. ...				
			Barnnadi P. T.	Barhanuddin ...	Barhanuddin Havildar's Hât, Barhanuddin Havildar's Hât Joint at Tazumuddin.		
			Tazumuddin P.				
CHITTAGONG—(*Chittagong*).	CHITTAGONG—(*Chittagong*).	Sadar.	Fatikchari P. T. ...	Fatikchari ...	Fatikchari. Fatikchari 1st Joint at Kalimunshirhat, 2nd Joint at Kazirhat.	Fatikchari.	
			Hathazari P. T. ...	Hathazari ...	Hathazari, Hathazari 1st Joint at Koterhat, 2nd Joint at Fatheyabad.	Hathazari.	
			Raojan P. T.	Raojan	Raojan, Raojan 1st Joint at Ranganiya, 2nd Joint at Lamburhat.	North Raojan. South Raojan.	
			Ranganiya P.				
			Chittagong P. T. R. S. (Kotwali).	Chittagong ...	Chittagong Sadar, Chittagong Sadar Joint at Sadar.	Chittagong Sadar.	Chittagong
			Double Moorings S. ...				
			Mirsarai P. T. S. ...	Mirsarai	Mirsarai, Mirsarai Joint at Zorwarganj.		
			Sitakund P. T. R. ...	Sitakund ...	Sitakund		
			Patiya P. T.	Patiya	Patiya, Patiya 1st Joint at Boalkhali, 2nd Joint at Gasbaria, 3rd Joint at Kanta Fakir's hat.	Patiya (also includes outposts Anwara and Parki of thana Banskhali).	
			Boalkhali P.				
			Satkania P. T.	Satkania	Satkania, Satkania 1st Joint at Padua, 2nd Joint at Adhunagar.	Satkania (also comprises thana Banskhali without its outposts Anwara and Parki).	
			Banskhali	Banskhali ...	Kalipur (Banskhali), Kalipur (Banskhali) Joint at Anwara.		
			Anwara P.				
		Cox's Bazar.	Cox's Bazar P. T. S. ...	Cox's Bazar ...	Cox's Bazar, Cox's Bazar 2nd Joint at Kutubdia.	Cox's Bazar	Cox's Bazar.†
			Ramoo P. T.	Mohiskhali ...	Ditto. 3rd Joint at Nhilla.		
			Mohiskhal	Teknaf	Chakaria		
			Kutubdia P.				
			Teknaf P.				
			Ukhya P.				
			Chakaria P. T.				

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[b] = Post Office.

A.—DISTRIBUTION LIST.

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CHITTAGONG—(*Chittagong*)—*concluded.*	TIPPERA—(*Comilla*).	Brahmanbaria.	Brahmanbaria P. T. R. Sarail P. T. ... Nasirnagar P.	Brahmanbaria ...	Brahmanbaria, Brahmanbaria 1st Joint at Sarail, 2nd Joint at Chandura Bazar. Nasirnagar	Brahmanbaria.	Brahmanbaria.
			Kasba ... ... Nabinagar P. ... Bancharampur P. ...	Kasba ... ... Nabinagar ...	Kasba ... ... Nabinagar, Nabinagar Joint at Bancharampur.	Kasba. Nabinagar.	
		Sadar.	Muradnagar P. ... Debidwar	Muradnagar ...	Muradnagar, Muradnagar Joint at Debidwar.		
			Daudkandi P. ... Homna P. ...	Daudkandi	Daudkandi, 1st Joint 2nd Joint at Homna, 3rd Joint at Hasanuddi.		
			Comilla ... ... (Kotwali) P. T. R. Burichang P. ...	Comilla	Comilla Sadar, Comilla Sadar Joint at Sadar.	Comilla Sadar	Comilla.
			Chandina	Chandina ...	Chandina		
			Chandagram P.	Chandagram ...	Chandagram, Chandagram Joint at Gunabati.		
			Laksam P. T.	Laksam ...	Laksam, Laksam Joint at Chitoshe.		
		Chandpur.	Hajiganj P. T. R. ... Kachua P. ...	Hajiganj ...	Hajiganj (Joint at Laksam).		
			Chandpur P. T.	Chandpur	Chandpur, Chandpur Joint at Faridganj.	Chandpur ...	Chandpur.†
			Faridganj P. ... Matlabbazar ...	Matlabbazar	Matlab		
	NOAKHALI—(*Noakhali*).	Sadar.	Sudharam ...	Noakhali or Sudharam.	Noakhali Sadar, Noakhali Sadar 1st Joint at Sadar, 2nd Joint at Kabirhat		
			Companiganj ... ... Begamganj ... Senbagh P.	Companiganj ... Begamganj ...	Bamni (Bose hat) ... Begamganj, Begamganj 1st Joint at Senbagh, 2nd Joint at Sonaimuri.	Sudharam or Sadar.	(Sudharam) Noakhali.
			Hatiya P. ... Ramgati P.	Hatiya	Hatiya (Ramkumar Palshat), Hatya Joint at Ramgati.	Hatiya.	
			Ramganj P.	Ramganj ...	Ramganj, Ramganj Joint at Chatkhel.		
			Lakhmipur ... Raipur P.	Lakhmipur ...	Lakhmipur, Lakhmipur 1st Joint at Raipur, 2nd Joint at Farashganj.	Lakhmipur.	
			Sandip P. ... Sidhi	Sandip	Sandip, Sandip Joint at Nandabhuiya's Hat.	Sandip.	
		Feni.	Feni P. T. R.	Feni	Feni, Feni 1st Joint at Mutiganj, 2nd Joint at Daganbhuiyan, 3rd Joint at Lemua.	Feni.	
			Chhagalnaya P. ... Pashuram P	Chhagalnaya ...	Chhagalnaya, Chhagalnaya Joint at Fulgazi.		

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RAJSHAHI—(*Jalpaiguri*).*	RAJSHAHI—(*Rampur-Boalia*).	Naugaon.	Manda P.	Manda	Naugaon	Naugaon.	
			Naimatpur P.	Mahadebpur ...			
			Mahadebpur P.				
			Naugaon P. T.	Naugaon ...	Naugaon 1st Joint at Mahadebpur.		
			Badalgachhi P.				
			Nandanali	Panchupur ...	Naugaon 2nd Joint at Atrai.	Nawabganj.	
			Panchupur P.				
		Sadar.	Mohonpurkhurd P. ...	Tanor			
			Tanor P.	Godagari ...			
			Godagari P. T. R. ...				
			Boalia S.	Boalia	Rampur-Boalia Sadar.	Boalia Sadar	Rampur-Boalia.
			Nowhatta P.	Bagmara ...	Ditto, Joint at Godagari (*ex officio*).		
			Paba	Puthia			
			Bagmara	Charghat ...			
			Puthia P. T.				
			Durgapur P.				
			Charghat P. S.				
			Rajapur P.				
		Nator.	Burigaon P.	Burigaon ..			
			Gurudaspur P.	Laipur	Nator	(Partly in the Naugaon Munsifi and partly in the Nator Munsifi.)	Nator.
			Laipur P.	Nator			
			Walia P.	Singra			
			Nator P. T. R.				
			Bagatipara				
			Singra P.				
			Nandigram P.				
	DINAJPUR—(*Dinajpur*).	Balur-ghat.	Patnitola P.	Patnitola	Balurghat	Balurghat.	
			Porsha	Porsha			
			Balurghat P. T. ...	Balurghat ..			
			Kumarganj P. ...	Phulbari ...	Phulbari.		
			Phulbari P. T. R. ...	Gangarampur ...	Dinajpur Sadar, Jt. at Sadar.		
			Gangarampur P. ...				
			Tapan P.				
		Thakurgaon.	Thakurgaon P. T. ...	Thakurgaon ...	Thakurgaon, Thakurgaon Joint at Lahiritat.	Thakurgaon.	
			Baliadangi				
			Atwari P.				
			Ranisankail P.	Ranisankail ...	Pirganj	Dinajpur Sadar.	Dinajpur.
			Haripu	Pirganj ...			
			Pirganj P.				
			Bochaganj P.	Birganj ...	Birganj		
			Birganj P. T.				
			Khansama P.				
			Kaharul				
		Sadar.	Parbatipur P. T. R. ...	Parbatipur ...	Parbatipur		
			Nawabganj P.	Nawabganj ...	Phulbari		
			Ghoraghat P.				
			Dinajpur P. T. R. ...	Dinajpur	Dinajpur Sadar, Dinajpur Joint at Sadar.		
			Chiribandar P. T. R. ..				
			Biral P. T. R.				
			Raiganj P. T. R. ...	Raiganj	Raiganj	Raiganj.	
			Hemtabad P.	Kaliaganj ...			
			Kaliaganj P. T. R. ...	Banshihari ...			
			Itahar P.				
			Banshihari P.				
			Kushumundi P.				
	JALPAIGURI—(*Jalpaiguri*).	Sadar.	Jalpaiguri P. T. R. ...	Jalpaiguri ...	Jalpaiguri Sadar ...	Jalpaiguri or Sadar.	Jalpaiguri
			Raiganj	Rajganj ...			
			Tetulia	Pathgram ...			
			Pathgram P. T. R. ...	Boda	Boda Jalpaiguri Sadar Joint at Deviganj.		
			Boda P.	Maynaguri ...	Maynaguri ...		
			Pochagoria P.	Dam-Dim ...			
			Debiganj P. T.				
			Maynaguri P. T. ...				
			Nagarkota P. T. R. ...				
			Dhubguri P.				
			Dam-Dim				
			Mitiali P. T.				

* The real popular spelling is Julpigoores.

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RAJSHAHI—(*Jalpaiguri*)—*continued.*	JALPAIGURI—(*Jalpaiguri*)—*concld.*	Alipur.	Alipur Duar P. T. R. ... Kumargram P. T. ... Kalchini ... ... Falakata P. T. ... Madarihat P. T. R. ...	Alipur Duars ... Falakata ...	Buxa (at Alipur) ...	Alipur.	
	RANGPUR—(*Rangpur*)	Sadar.	Pirgacha ... ... Kaunia ... ... Kotwali P. T. R. ... Gangachara ... ... Badarganj P. T. R. ... Mitapokhur P. ... ... Pirganj P. ... ... Kaliganj	Mahiganj ... Rangpur or Kotwali. Badarganj ... Mitapokhur ... Pirganj ... Kaliganj ...	Rangpur Sadar ... Badarganj ... Pirganj ... ... Tushbhander ...	Rangpur or Sadar.	Rangpur.
		Nilphamari.	Hatibandha P. T. R. ... Dimla P. ... ... Domar P. T. R. ... Jaldhaka P. ... Kishoreganj P. ... ... Nilphamari P. T. R. ... Saidpur P. T. R. ...	Kaliganj ... Dimla ... ... Jaldhaka ... Nilphamari ...	Tushbhander ... Domar ... ... Kishoreganj, Kishoreganj joint at Jaldhaka. Nilphamari ...	Nilphamari.	
		Kurigaon.	Lalmonirhat P. T. R. ... Fulbari ... ... Kurigaon P. T. R. ... Nageswari P. ... Bhurungamari P. ... Ulipur P. T. ... Rahumari P. S.	Lalmonirhat ... Kurigaon ... Nageshwari ... Ulipur	Lalmonirhat ... Kurigaon ... ... Ulipur, Ulipur Joint at Chilmari.	Kurigaon.	
		Gaibandha.	Chilmari P. S. ... ... Gobindganj P. ... Palashbari P. ... Shaghatta P. ... ... Fulchuri P. T. R. ... Gaibandha P. T. R. ... Sadullapur P. ... ... Sundarganj P.	Ulipur ... ... Gobindganj ... Gaibandha ... Sundarganj ...	Ulipur, Ulipur Joint at Chilmari. Gobindganj, Gobindganj Joint at Palashbari. Ditto 2nd Joint at Bhatkhali Gaibandha ... Sadullapur ... Sundarganj ...	Gaibandha.	
	BOGRA—(*Bogra*).	Sadar.	Bogra P. T. R. ... ... Kahaloo T. R. ... ... Gabtali P. T. R. ... Shariakandi P. ... ... Sherpur P. T. ... ... Dhunot P. ... ... Sibganj P. ... ... Panchabibi P. T. R. ... Jaypurhat ... ... Khetlal P. ... ... Adamdighi P. T. R. ... Dupchanchia P. ...	Bogra ... ... Shariakandi ... Sherpur ... Dhunot ... Sibganj ... Panchabibi ... Khetlal ... ... Adamdighi ...	Bogra 1st Joint at Sadar, Bogra 2nd Joint at Madia. Ditto 3rd at Sadar. Shariakandi ... Sherpur 1st Joint, 2nd Joint at Dhunot Khanjanpur, Khanjanpur Joint at Shibganj. Khetlal ... ... Adamdighi ...	Bogra or Sadar.	Bogra Sherpur.
	PABNA—(*Pabna*).	Sadar.	Pabna P. T. ... ... Sara P. T. ... ... Chatmohar P. T. R. ... Faridpur ... ... Sujanagar P. ... ... Santhia P. ... ... Bera	Pabna ... ... Chatmohar ... Dulai ... Mathura ...	Pabna Sadar ... Chatmohar ... Dulai, Dulai Joint at Bera.	Pabna or Sadar.	Pabna.

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RAJSHAHI—(*Jalpaiguri*)—concluded.	PABNA—(*Pabna*)—concld.	Sirajganj.	Shahzadpur P. T.	Shahzadpur ...	Shahzadpur, Shahzadpur Joint at Chauhali.	Sirajganj ...	Sirajganj.
			Chauhali P.				
			Kamarkhanda	Ullapara ...	Ullapara		
			Ullapara P. T. R. ...				
			Sirajganj P. T. S. R ...	Sirajganj ...	Sirajganj		
			Kazipur P.				
			Raiganj P.	Raiganj	Dhangora		
			Taras P.				
			Belkuchi P.	Sirajganj, Ullapara and Shahzadpur.	Sirajganj		
	MALDA—(*Englishbazar*).	Sadar.	Khurba P.	Khurba	Chanchal.		
			Harischandrapur ...	Harischandrapur			
			Ratua P.	Ratua	Ratua		
			Manikchak P.				
			Gajole P.	Gajole			
			Bamangola P.				
			Malda	Malda	Malda Sadar ...	Malda Sadar	Old Malda English-bazar.
			Habibpur				
			Englishbazar (Malda) P. T. R.	Angarabad ...			
			Bholahat P.				
			Kaliachak P.	Kaliachak ...	Kaliachak		
			Nawabganj S.	Nawabganj ...	Nawabganj, Nawabganj Joint at Gomastapur.	Nawabganj ...	Nawabganj.
			Nachole T. R.				
			Sibganj P.	Sibganj			
			Gomastapur P.	Gomastapur ...			
	DARJEELING—(*Darjeeling*).	Sadar.	Darjeeling P. T. R. ...	Darjeeling ...	Darjeeling	.....	Darjeeling.†
			Pulbazar				
			Rangit Rasliot P. T. ...				
			Sukhiapokri P.				
			Jore Bungalow	Jore Bungalow ...			
			Sonada P. T R.				
			Nagri P. T.				
		Kalimpong.	Kalimpong P. T. R. ...	Darjeeling ..	Kalimpong.		
			Gorubathan				
		Kurseong.	Kurseong P. T. R. ...	Kurseong ...	Kurseong	.....	Kurseong.
			Pankhabari P. T. ...				
		Siliguri.	Siliguri P. T. R.	Siliguri	Siliguri.		
			Naxalbari P. T. R ...				
			Phansidewa P.				
			Khoribari P.				

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LIST OF CANTONMENTS IN BENGAL.

FORT WILLIAM, ALIPORE, BARRACKPORE.
DUM-DUM (24-PARGANAS),
BUXA (JALPAIGURI).

DACCA.
DARJEELING.

LEBONG (DARJEELING).
TAKDAH (DARJEELING).

B.—LIST OF OFFICERS AT THE PRESIDENCY.

Appointment.	Name.	REMARKS.
His Excellency the Governor and Personal Staff.		
Governor of the Presidency of Fort William in Bengal.	His Excellency the Right Hon'ble Lawrence John Lumley Dundas, Earl of Ronaldshay. G.C.I.E.	
Private Secretary	W. R. Gourlay, C.I.E.	
Military Secretary	Capt. H. G. Vaux.	
Aide-de-Camp	Capt. the Hon'ble C. D. Finch-Knightley.	
Ditto	Lieut. E. K. Stephenson.	
Extra Aide-de-Camp ...	Lieut. G. K. Dunning.	
Do ditto ...	Capt. D. Balfour.	
Hony. ditto ..	Col. C. M. Pearce, V.D.	
Do. ditto ...	Lieut.-Col. (Hony. Col.) D. A. Tyrie, V.D.	
Do ditto ...	Lieut.-Col. R S. Hawkins.	
Do. ditto ...	The Hon'ble Lt.-Col. R. Glen, V.D.	
Do ditto ...	Comdr. E. A. Constable.	
Do ditto ...	Comdr. D. F Vines, R.I.M.	
Indian Aide-de-Camp ...	Risaldar Faiz Muhammad Khan, I.O.M.	(Temply.)
Hony. ditto ...	Subadar-Majorr Gopal Chandra, Sardar Bahadur.	
Comdt., H.E.'s Bodyguard ...	Major O. F. Smith.	
Members of Council.		
Ordinary Member of Council ...	The Hon'ble Mr. P. C. Lyon, C.S.I.	Vice-President.
Ditto ditto ...	The Hon'ble Nawab Sir Syed Shams-ul-Huda, K.C.I.E.	
Ditto ditto ...	The Hon'ble Mr. N. D. Beatson Bell, C.I E.	

B.—LIST OF OFFICERS AT THE PRESIDENCY.

Appointment.	Name.	Remarks.
Board of Revenue.		
Member, Board of Revenue, Misc. Rev. Dept., also Land Rev. Dept.	The Hon'ble Mr. C. J. Stevenson-Moore, C.V.O.	
Secy., Board of Revenue ...	J. A. L. Swan.	Alld. pr. lv. from 10-4-1917 to 11-5-1917.
Secretaries, Under-Secretaries, etc., to Government and Heads of Departments.		
Chief Secy. to the Govt. of Bengal	The Hon'ble Mr. J. G. Cumming, C.S.I., C.I.E. The Hon'ble Mr. J. H. Kerr, C.S.I., C.I.E. (offg.).	On spl. duty in the Political Deptt.
Secy. to the Govt. of Bengal, Rev. Dept.	The Hon'ble Mr. J. H. Kerr, C.S.I., C.I.E. L. Birley, C.I.E. (offg.)	Offg. Chief Secy.
Secy. to the Govt. of Bengal, Genl. Dept.	L. S. S. O'Malley.	
Secy. to the Govt. of Bengal, Finl. Dept.	The Hon'ble Mr. J. Donald.	
Under-Secy. to the Govt. of Bengal, Judl., Poll. and Appt. Depts.	N. G. A. Edgley.	
Addl. Under-Secy. to the Govt. of Bengal, Political Dept.	J. D. V. Hodge ...	(Temply.)
Second Addl. Under-Secy. to the Govt. of Bengal, Poll. Dept.	A. A. Patterson	(Temply.)
Under-Secy. to the Govt. of Bengal, Rev. Dept.	Khan Bahadur Muhammad Abdul Mumin.	
Under-Secy. to the Govt. of Bengal, Genl. Dept.	C. W. Gurner.	
Under-Secy. to the Govt. of Bengal, Finl. Dept.	E. N. Blandy ...	Also Custodian of Enemy Property and Controller of Hostile Firms in addition to his duties.
Addl. Under-Secy. to the Govt. of Bengal, Finl. Dept.	G. H. W. Davies	(Temply.)
Regr., Judl., Poll. and Appt. Depts.	J. S. W. Young-Craig.	
Regr., Rev. Dept.	Narendra Nath Chattarji.	
Regr., Genl. Dept.	Rebati Mohan Das.	
Regr., Finl. Dept.	Rai Sahib Gyanendra Nath Mitra.	
Secy. to the Govt. of Bengal, Legislative Dept., and Secy. to the Bengal Legislative Council.	A. W. Watson ... C. Tindall (*s. p. t.*).	Services lent to the Ministry of Munitions from 19-2-1916 to 31-3-1917 until the termination of war.
Asst. Secy. to the Govt. of Bengal, Legislative Dept., and Asst. Secy. to the Bengal Legislative Council.	Allan Moir Hutchison ...	

B.—LIST OF OFFICERS AT THE PRESIDENCY.

Appointment.	Name.	Remarks.
Secretaries, Under-Secretaries, etc., to Government and Heads of Departments.		
Secy. to Govt., P. W. D. (Roads and Buildings and Railways), and Chief Engineer.	H. H. Green	
Secy. to Govt., P. W. D. (Irrigation and Marine), and Chief Engineer.	The Hon'ble Mr. F. A. A. Cowley	
Under-Secy. to Govt., P. W. Dept., and Asst. to Chief Engr. (Civil Buildings).	G. A. Easson.	
Under-Secy. to Govt., P. W. Dept. (Irrgn. and Ry. Branches), and Asst. to Chief Engineer.	Vacant.	
Asst. Secy. to Govt., P. W. Dept. (Estabt. and Marine).	C. B. Bayley, C.V.O.	
Regr., P. W. Dept. (Ry., Irrigation and Marine).	A. W. Davis.	
Director of Land Records, Bengal	M. C. McAlpin.	
Personal Asst. to the Dir. of Land Records, Bengal.	Mahendra Nath Gupta.	
Director of Agriculture ...	S. Milligan (offg.). ...	Holds charge of the duties of the 2nd Dy. Director of Agriculture in addition.
Dy. Director of Agriculture ...	Fred. Smith.	
Personal Asst. to the Dir. of Agriculture, Bengal.	Debendra Nath Mukharji.	
Director of Surveys, Bengal and Assam.	Major F. C. Hirst, I.A. ...	
Persl. Asst. to the Director of Surveys.	Damodar Rao.	
Regr., Co-operative Societies, Bengal.	Rai Jamini Mohan Mitra Bahadur.	
Personal Assistant to Co-operative Societies, Bengal.	Asad-uz-zaman.	
Inspector, Co-operative Societies	Akshay Narayan Mitra.	

B.—LIST OF OFFICERS AT THE PRESIDENCY.

Appointment.	Name.	REMARKS.
Accounts.		
Accountant-General* ...	H. G. Tomkins, C.I.E.	
Dy. Acctt.-General ...	Manindra Kumar Mitra.	
Ditto	H. Denning, I.C.S.	
Examiner, Outside Audit ...	F. H. Worgan.	
Asst. Acctt.-Genl. and Examiner of Local Accounts in Bengal.	Jay Gopal Bhandari.	
Asst. Acctt.-General ...	T. R. Vriddhagiri Sarma.	
Ditto	Rai Upendra Lal Banarji Bahadur.	
Ditto	Basanta Kumar Chatarji.	
Chief Supdt.	Bipindra Kumar Ray Chaudhuri.	
Inspr. of Local Fund Accts. ...	Pramatha Nath Mukharji.	
Chief Accountant	R. C. D. Calder	
Collectorate.		
Dy. Collr. of Land Revenue, Calcutta.	Nitananda Bhar (*s.p.t.*).	Is also Collr. of Excise Rev. under sec. 32, Act VII (B.C.) of 1878, (1) in the district of Calcutta, (2) in so much of the district of the 24-Parganas as is under the jurisdiction of the Commr. of Police, Calcutta, and (3) in so much of the district of Hooghly as is comprised within the limits of the Municipalities of Howrah and Bally. Also Collr. of Stamp Revenue, Calcutta, under sec. 2, sub-sec. 9 (*a*) of Act II of 1899. P. under sec. 87 of Land Registration Act VII (B.C.) of 1876.
Dy. Collr., Calcutta	Nityananda Bhar ...	Subprotem Dy. Collr. of Land Rev. and Collr. of Stamp Rev., Calcutta, in addition to his duties.

*The Accountant-General is *ex-officio* Auditor and Examiner of Municipal and Local Accounts and *ex-officio* Auditor of the accounts of the Corporation of the Town of Calcutta, conjointly with the officer who may, for the time being, hold the substantive appointment of Examiner of Local Accounts. As *ex-officio* Joint-Examiner of Municipal and Local Accounts, he was authorized to inspect the accounts of loans raised by Municipalities with the sanction of Government in the open market.

B.—LIST OF OFFICERS AT THE PRESIDENCY.

Appointment.	Name.	Remarks.
Collectorate.		
Collr. of Income-Tax, Calcutta ...	R. G. Girard, I.S.O. (*a*)	
Asst. Collr. of Income-Tax ...	C. H. Crosse, J. P.	
Deputy Collector of Income-tax	Ramesh Chandra Sen.	
Deputy Collector	Satish Chandra Ray ...	Probate Officer.
Examiner of Marwari Accounts	Nikhil Ranjan Mukharji.	
Sub-Deputy Collector ...	Alexander Jitendra Lal Mitra.	
Commissioner.		
Commr. of the Presidency Division.†	The Hon'ble Mr. F. J. Monahan	Has power *ex-officio* to hear appeals from decision of the Asstt. Supdt. of Survey.
P. A. to Commr.	Khan Bahadur Amin-ul-Islam.	
Ditto	Phanindra Nath Mukharji (No. I).	
Corporation.		
Chairman of the Corpn. of Calcutta.°	C. F Payne ...	Combd. lv. for 11 mos. and 13 days from 8-11-1916.
	The Hon'ble Mr. S. W. Goode (offg.)	
Vice-Chairman of the Corporation of Calcutta.	Ramani Mohan Chatarji.	
Deputy Chairman of the Corporation of Calcutta.	S. K. Sawday.	
Secy. to ditto ...	Charu Chandra Chatarji.	
Assessor ditto ...	Debendra Prasad Ray.	
Customs.		
Collr. of Customs	C. W. E. Cotton, I.C.S.	
Asst. Collr. of Customs ...	A. H. Lloyd.	
Ditto ditto ...	A. H. P. Wolferstan.	
Ditto ditto ...	A. E. Boyd	Also Supdt., Preventive Service and Salt Dept., Calcutta.
Ditto ditto ...	J. A. E. Burrup, I.S.O.	
Chemical Examiner for Customs and Excise.	R. L. Jenks.	

(*a*) Has extension of service for 3 years from 11-3-1914.
° Admitted to the Calcutta house-allowance and house-building scheme from 1-11-1906.

B.—LIST OF OFFICERS AT THE PRESIDENCY.

Appointment.	Name.	REMARKS.
	Ecclesiastical.	
Lord Bishop of Calcutta ...	Most Rev. G. A. Lefroy.	
Archdeacon in the Archdeaconry and Diocese of Calcutta and Bishop's Comsy.	The Ven'ble W. K. Firminger. (a)	
Domestic Chaplain to the Lord Bishop.	Rev. John Godber ...	Also Chaplain, Darjeeling Cantonment.
Regr. of the Diocese, Calcutta ...	H. G. Pearson.	
Archbishop, Calcutta ...	The Most Revd. Archbishop Dr. Brice Meuleman, S.J.	
Senior Chaplain, St. John's Church	The Ven'ble W. K. Firminger.	
Junior Chaplain, St. John's Church	Rev. W. H. G Holmes.	
Senior Chaplain, St. Paul's Cathedral.	Rev. Canon R. W. H. Stuart.	
Junior Chaplain, St. Paul's Cathedral.	Rev. John Godber.	
Chaplain, Presy. Jail ...	Rev. P. Carbery.	
Chaplain of the Garrison of Fort William and Military Hospital.	Rev. C. J. Grimes.	
Chaplain, St. James's Church ...	Rev. Canon J. F. Smith.	
Chaplain, St. Thomas's Church ...	Rev. H. O. Penley.	
Senior Chaplain, St. Andrew's Church.	Rev. W. Thomson ...	Member, Christian Burial Board for Calcutta and its suburbs.
Second Chaplain, St. Andrew's Church.	Rev. R. G. Jameison.	
River Chaplain	Rev. C. A. Newbery.	

(a) Member of the Council of the Imperial Library, Calcutta.

B.—LIST OF OFFICERS AT THE PRESIDENCY.

Appointment.	Name.	Remarks.
	Education.	
Director of Public Instruction ...	The Hon'ble Mr. W. W. Hornell.	
Supdt. of Industries and Inspr. of Technical and Industrial Institutions in Bengal.	W. H. Everett (*offg.*).	
Asst. Director of Public Instruction.*	F. C. Turner.	
Asst. Director for Muhammadan Education.*	J. A. Taylor.	
Personal Asst. to the Director of Public Instruction.	W. B. Finnigan.	
Inspector of Schools, Presidency Division.*	H. R. James ... ... T. O. D. Dunn (*offg.*).	Combd. lv. from 27-2-1916 to 7-11-1917.
Ditto ditto (Addl.)	Khan Bahadur Ahsanullah.	
Ditto ditto (Addl.)	Khan Bahadur Muhammad Ibrahim.	
Ditto ditto (Addl.)	H. A. Stark ... ... Phani Bhushan Basu (*offg.*).	Offg. Principal, Dacca Training College.
Asst. ditto ditto ...	Harish Chandra Datta.	
Ditto ditto ...	Rakhal Das Chakrabatti.	
Ditto ditto ...	Alfazuddin Ahmad. ... Kashi Bhusan Sen (*offg.*).	Offg. Asstt. Inspr. of Schools, Dacca Divn.
Assistant Inspector of Schools, Presidency Division for Muhammadan Education.	Muhammad Maula Baksh.	
Inspector of European Schools, Bengal *	G. D'O. Maclear ... A. Mercer (*offg.*).	On deputation to mily. duty.
Inspectress of Schools, Presy., Burdwan and Orissa Divisions.	Miss L. W. Brock ... Miss Hridaybala Bose (*offg.*).	Combd. lv. for 1 yr. from 12-10-1916.
Special Assistant Inspectress of Schools, Calcutta.	Miss Hridaybala Basu ...	Offg. Inspectress of Schools, Pres. and Burdwan Divns.
Asst. Inspectress of Schools, Presy. Divn.	Miss Mabel Singh ... ... Miss Niroj Bashini Shome (*offg.*).	Offg. Spl. Asst. Inspectress of Schools, Calcutta.
Ditto ditto ...	Miss Hriday Violet Mitra.	
Dy. Inspr. of Schools, Calcutta ...	Kashi Bhushan Sen	Offg. Asstt. Inspr. of Schools, Presy. Divn.

* Asst. Director of Public Instruction, Inspr. of Schools, Presy. Divn., Inspr. of European Schools, Bengal, Principal and nine Professors of the Calcutta Presy. College are admitted to the Calcutta house-allowance and house-building scheme from 1-12-1908.

B.—LIST OF OFFICERS AT THE PRESIDENCY.

Appointment.	Name.	REMARKS.
Education.		
Prinpl., Presy. College* ...	W. C. Wordsworth.	
Professor,* ditto ...	C. W. Peake.	
Ditto ditto ...	Jogendra Nath Das Gupta.	
Ditto ditto ...	Debendra Nath Mallik.	
Ditto ditto ...	Dr. Praphulla Chandra Ray, C.I.E.	On deputation to the Calcutta University.
	Biman Bihari De (*Offg.*). ...	
Ditto ditto ...	Subodh Chandra Mahalanabis.	
Ditto ditto ...	Satish Chandra De ...	Offg. Professor, Dacca College.
Ditto ditto ...	Sarada Prasanna Das.	
Ditto ditto ...	Manomohan Ghosh.	
Ditto ditto ...	Praphulla Chandra Ghosh.	
Ditto ditto ...	Dr. E. P. Harrison ...	On deputation to mily. duty.
Ditto ditto ...	Rai Dr. Purnananda Chatarji Bahadur.	Offg. Inspector of Schools, Rajshahi Divn.
Ditto ditto ...	C. E. Cullis.	
Ditto ditto ...	Srikumar Banarji.	
Ditto ditto ...	Rajani Kanta Dutt.	
Ditto ditto ...	Aditya Nath Mukharji.	
Ditto ditto ...	E. F. Oaten ...	On deputation to mily. duty.
Ditto ditto ...	T. S. Sterling.	
Ditto ditto ...	J. W. Holme.	

* Asst. Director of Public Instruction, Inspr. of Schools, Presy. Divn., Inspr. of European Schools, Bengal, Principal and nine Professors of the Calcutta Presy. College are admitted to the Calcutta house-allowance and house building scheme from 1-12-1908.

B.—LIST OF OFFICERS AT THE PRESIDENCY.

Appointment.	Name.	Remarks.
Education.		
Professor, Presidency College ...	Jyoti Bhushan Bhaduri ...	(Temply.)
Ditto ditto ...	J. C. Coyajee.	
Ditto ditto ...	Kuruvila Zachariah.	
Ditto ditto ...	Khagendra Nath Mitra.	
Ditto ditto ...	Prabhu Datt Shastri ...	For two years.
Ditto ditto ...	Jogendra Chandra Nag.	
Ditto ditto ...	Bhupendra Chandra Basu.	
Ditto ditto ...	Karunamay Khastgir.	
Ditto ditto ...	Nripendra Chandra Banarji (*offg.*).	
Professor of Botany ...	Surendra Chandra Banarji.	
Professor of Arabic and Persian, Presy. College.	Hidayet Hossain.	
Professor of Sanskrit and Pali, Presy. College.	Nilmani Chakrabatti.	
Professor of Sanskrit, Presy. College.	Ashutosh Shastri.	
Lecturer on Geology, Presy. College.	H. Cecil Jones.	
Principal, Govt. Commercial Institute.	Girindra Kumar Sen (*offg.*).	
Demonstrator of Chemistry, Presidency College.	Anukul Chandra Sarkar.	
Junior Demonstrator of Chemistry, Presidency College.	Bidhu Bhusan Datta.	
Addl. Demonstrator of Chemistry, Presy. College.	Satis Chandra Mukharji.	
Ditto ditto ...	Rasik Lal Datta.	
Demonstrator of Physics, Presidency College.	Hriday Chandra Banarji.	
Ditto ditto ...	Surendra Nath Maitra ...	Offg. Professor, C. E. College, Sibpur.
Demonstrator of Geology, Presidency College.	Hem Chandra Das Gupta.	
Demonstrator of Physiology, Presy. College.	Narendra Mohan Basu.	

B.—LIST OF OFFICERS AT THE PRESIDENCY.

Appointment.	Name.	Remarks.
Education.		
Professor of Physiology, Presy. College.	Nibaran Chandra Bhattacharji.	
Principal, Sanskrit College ...	Mahamahopadhyaya Satish Chandra Acharji, Vidyabhushan.	
Professor, ditto ...	Mahamahopadhyaya Pramatha Nath Tarkabhushan.	
Ditto ditto ...	Muralidhar Banarji.	
Ditto ditto ...	Narendra Nath Chakrabatti.	
Ditto ditto ..	Krishnadhan Banarji ...	Offg. Professor, Presy. College.
Head Master, Sanskrit Collegiate School.	Beni Madhab Das.	
Principal, David Hare Training College.	W. E. Griffith	Offg. Inspector of Schools, Burdwan Division.
Professor, ditto ...	Chinta Haran Chakrabatti ...	Offg. Principal, David Hare Training College.
Ditto ditto ...	A. Mercer	Offg. Inspector of European Schools, Bengal.
Principal, Govt. School of Art and Keeper of Art Gallery.	P. Brown.	
Vice-Principal, Govt. Art School	Jamini Prakash Gangali.	
Head Master, ditto ...	Hari Narayan Bose.	
Principal, Calcutta Madrasah ...	A. H. Harley.	
Head Maulvi, ditto ...	Shams ul-'Ulama Mufti Muhammad Abdullah Tonki.	
Addl. Maulvi (Arabic Dept.), Calcutta Madrasah.	Shams-ul-'Ulama Safi-ullah.	
Head Master, Anglo-Persian Dept., Calcutta Madrasah.	Muhammad Yusuf.	
Head Master, Hare School ...	Hara Kanta Bose.	
Head Master, Hindu School ...	Satish Chandra Sen.	
Ditto Calcutta Training School.	Kazi Imdadul Haq	
Lady Principal, Bethune College	Miss A. L. Janau.	

B.—LIST OF OFFICERS AT THE PRESIDENCY.

Appointment.	Name.	Remarks.
Education.		
Professor, Bethune College ...	Krishna Chandra Bhattacharji.	
Ditto ditto ...	Paresh Nath Sen.	
Ditto ditto ...	Bijay Gopal Mukharji.	
Principal, Training School for Female Teachers, Calcutta.	Mrs. Saralabala Mitra (tempy.)	Appointed to be Addl. Asstt. Inspectress of Schools, Dacca.
Excise.		
Commr. of Excise and Salt, Bengal.†	Mr. A. N. Moberly.	
Dy. Commr. of Excise, Bengal and Assam.	T. H. Kingdon	Combd. lv. for 6 mos. from 10-5-1916.
Deputy Commissioner of Excise and Salt, Bengal, (Calcutta).	S. G. L. Platts.	
Persl. Asst. to Commr. of Excise and Salt, Bengal.	Rai Sahib Ramani Mohan Mitra.	
Supdt. of Excise and Salt ...	Rai Sahib Sharat Kumar Raha.	
Jails.		
Inspr.-Genl. of Prisons, Bengal	Lt.-Col. W. J. Buchanan, I.M.S.	*Ex-officio* member of the Committee of Management of the Govt. Workhouse, Calcutta.
Supdt. of the Presy. Jail ...	Major F. S. C. Thompson, I.M.S.	
Judicial.		
Supdt. and Rembr. of Legal Affairs.	The Hon'ble Mr. E. B. H. Panton.	
Addl. Supdt. and Rembr. of Legal Affairs.	Peary Lall Roy	(Tempy.) *Ex-officio* Public Prosecutor in all cases coming before the Calcutta High Court or its Appellate side.
Dy. Supdt. and Rembr. of Legal Affairs.	J. W. Orr	On leave.
	J. Camell (*offg.*).	
Public Prosecutor, Calcutta ...	J. T. Hume.	

† P. under sec. 243 (2) of the Cantonment Code, 1891.

B.—LIST OF OFFICERS AT THE PRESIDENCY.

Appointment.	Name.	Remarks.
Judicial.		
Senior Govt. Pleader ...	Ram Charan Mitra.	
Coroner of Calcutta ...	F. K. Dobbin.	
Chief Judge, S. C. Court ...	Dr. T. Thornhill.	
2nd ditto	C. D. Panioty.	
3rd ditto	F. K. Dobbin	
4th ditto	Z. R. Zahid Suhrawardy.	
5th ditto	Bankim Chandra Mitra.	
6th Judge	Jatindra Chandra Gupta.	
Registrar and Chief Ministerial Officer, S. C. Court.	Bipin Bihari Das Gupta.	
Clerk of the S. C. Court ...	H. H. Nuttall.	
Magistrates.		
Chief Presy. Magte.* ...	D. Swinhoe	Judge of the Court for the trial of Pilots. P. under sub-sec. (*1*), sec. 8 of the Refy. Schl. Act VIII of 1897. P. under sec. 144 of the Code of Criminal Procedure.
Presy. Magte.	E. H. Keays.	
Ditto	Abdus Salam, Khan Bahadur.	
Ditto	Kumud Bandhu Das Gupta ...	Alld. pr. lv. from 3 weeks from 10-1-1917.
Ditto	Ashutosh Mukharji ...	Temply. for 3 mos. + 3 mos.
Municipal Magte. under the Calcutta Municipal Act.	Nagendra Nath Gupta ...	Munpl. Magte. Also Presy. Magte. P. of a Magte., 1st class, and under sec. 260 of C. P. C. and sec. 629 of the Calcutta Munpl. Act.
Second Municipal Magte. under the Calcutta Municipal Act.	Khan Bahadur Abu Nasr Muhammad Ali.	Also Presy. Magte. P. of a Magte. 1st class, and under sec. 260 of C. P. C. and sec. 629 of the Municipal Act.

* Admitted to the Calcutta house allowance scheme.

B.—LIST OF OFFICERS AT THE PRESIDENCY.

Appointment.	Name.	Remarks.
Marine.		
Port Officer	D. F. Vines, R.I.M. ...	Presdt. of Board of Examiners in Seamanship, Registrar of Shipping and Wrecks and Detaining Officer. Is also *ex-officio* Shipping Master, Calcutta. Examiner in Navigation. Also Honorary Aide-de-Camp to H. E. the Governor of Bengal.
Dy. Port Officer and Sr. Dy. Shipping Master.	G. H. S. LaTouche, R.I.M.	
Asst. Port Officer	Lieut. J. C. Ward, R.I.M. ... S. H. Reaks (offg.).	Services placed at the disposal of the Director, R. I. M.
Judge of the Court for the trial of Pilots.	D. Swinhoe	Is also Judge of the Court of Survey for the Port of Calcutta.
Marine Surgeon	Lieut. Col. F. P. Maynard, I.M.S.	
Medl. Insptr. of Seamen, Port of Calcutta.	Dr. A. Smith Allan.	
Health Officer, Port of Calcutta ...	Dr. W. C. Hossack ...	Also offg. Supdt. of Emigration and protection of Emigrants in addition.
Asst. ditto ...	Civil Asst. Surgn. Manindra Nath Bhattacharji (temply.).	
Dy. Shipping Master	Lieut. J. C. Ward, R.I.M. ... C. H. Sharp (offg.).	Services placed at the disposal of the Director, R. I. M.
Assistant ditto	C. H. Sharp	P. under secs. 4, 6 and 8 of Act XIII of 1896. *Ex-officio* member of the Committee of Management of the Govt. Workhouse, Calcutta. Offg. Dy. Shipping Master of Calcutta.
Medical.		
Surgeon-General with the Government of Bengal.	The Hon'ble Surgn. Genl. William Rice Edwards, C.B., C.M.G., M.D., I.M.S.	
Personal Asst. to the Surgeon-General with the Government of Bengal.	Rai Sahib Mahendra Nath Bhattacharji.	
Principal and Professor of Medicine, Medical College.	Lt.-Col. J. T. Calvert, M.B., I.M.S.	Also 1st Physician, Medical College Hospital.
Professor of Clinical Medicine and Materia Medica, Medical College.	Lt.-Col. B. H. Deare, I.M.S.	
Professor of Midwifery, Medical College, and Obstetric Physician and Surgeon, Medl College Hospl.	Lt.-Col. C. R. M. Green, I.M.S ... Major H. B. Steen (offg.).	On Mily. duty.
Professor of Ophthalmic Surgery, Medl. College, and Ophthalmic Surgn., College Hospital.	Lt.-Col. F. P. Maynard, I.M.S.	*Ex-officio* Marine Surgn., Calcutta. Also Supdt., Mayo Hospl.
Professor of Chemistry, Medical College, and Chemical Exmr.	Lt.-Col. F. N. Windsor, I.M.S. ... Rai Chuni Lal Basu Bahadur, L.S.O. (*offg.*).	On deputation to Mily. duty.
Professor of Surgery, Medical College.	Lt.-Col. R. Bird, M.V.O., C.I.E., M.D., I.M.S., V.H.S.	Also *ex-officio* Surgn. to the Medl. Coll. Hospl.

B.—LIST OF OFFICERS AT THE PRESIDENCY.

Appointment.	Name.	REMARKS.
	Medical.	
Professor of Clinical and Operative Surgery, Medical College.	Lt.-Col. C. R. Stevens, I.M.S. ...	*Ex-officio* Surgn., Medl. Coll. Hospl. On depn. to mily. duty. Lt.-Col. R. P. Wilson officiating in addn. to his own duties.
Professor of Physiology, Medical College.	Major D. McCay, I.M.S. ...	Holding charge of the duties of the Resdt. Medl. Officer, Medl. Coll. Hospl., in addition.
Asst. Prof. of Physiology, ditto	Asst. Surgn. Rai Satish Chandra Banarji Bahadur.	
Professor of Pathology, ditto	Lt.-Col. Sir Leonard Rogers, KT., C.I.E., I.M.S.	
Professor of Biology, ditto	Major R. E. Lloyd, I.M.S. ...	Holding charge of the duties of Resdt. Medl. Officer, Medl. College Hospital, in addn. to his own duties.
Imperial Serologist, Calcutta (A Chemical Exmr. to Govt.).	Lt.-Col. W. D. Sutherland, M.D., I.M.S.	
Professor of Medical Jurisprudence, Medical College.	Major N. P. Sinha, I.M.S. (*retired*).	Also Police Surgeon, Calcutta.
Professor of Anatomy, Medical College.	Asst. Surgn Lalit Mohan Banarji (offg.).	In addition to his duties as Asstt. Professor of Anatomy.
Professor of Physics, ditto	Tulsi Das Kar.	
Professor of Dental Surgery, Medical College.	J. H. Taylor.	
Professor of Hygiene, Medical College.	Capt. A. M. Jukes, I.M.S. ...	On depn. to mily. duty.
Surgeon to His Excellency the Governor.	Capt. W. L. Harnett, I.M.S. ...	On deputation to mily. duty. Mily. Asstt. Surgeon J. C. Chalke holding tempy. charge of the current duties.
First Asst. Chemical Examiner to Government.	Asst. Surgn. Rai Chuni Lal Basu Bahadur, I.S.O.	Offg. Chemical Examiner to Govt., Bengal, 28-4-1915.
Second Asst. Chemical Examiner to Government.	Asst. Surgn. Hem Nath Adhikari.	Offg. 1st Asstt. Chemical Examiner in addition.
Third Asst. Chemical Examiner to Government.	Asst. Surgn. Hira Lal Singh.	
Fourth Asst. Chemical Examiner to Government.	Asst. Surgn. Satyendra Nath Sen.	
Asst. Prof. of Physics and Chemistry, Medl. Coll. Hosptl.	Asst. Surgn. Beni Madhab Chakrabatti.	
Demonstrator, Physics and Chemistry.	Tempy. Asst. Surgn. Amulya Ratan Chakrabatti.	
Demonstrator, Anatomical Dept., Medl. College.	Asst. Surgn. Nagendra Nath Chatarji.	
Ditto ditto ...	Asst. Surgn. Dabiruddin Ahmad.	

B.—LIST OF OFFICERS AT THE PRESIDENCY.

Appointment.	Name.	REMARKS.
	Medical.	
Demonstrator, Anatomical Dept., Medl. College.	Asst. Surgn. Bipin Bihari Basak.	
Asst. to the Supdt., Medl. College Hospital.	Capt. W. D. Neal, I.S.M.D.	
Apothecary to Medl. Coll. Hospital.	Lieut. W. J. Gillson, I.S.M.D. ...	On deputation to mily. duty. Lieut. W. J. K. Stone, I.S.M.D., offg. in addition.
Asst. ditto ...	Mily. Asst. Surgn. W. G. H. Warner.	On deputation to mily. duty. Tempy. Asst. Surgeon Rash Bihari Dutt, offg.
Resident Medl. Officer, Medical College Hospital.	.....	Major D. McCay, I.M.S., Profr. of Physiology, holding charge in addition.
Resident Medl Officer, Medl. College Hospital.	.....	Asst. Surgeon Jatindra Mohan Das holding charge.
Resident Medl. Officer, Medl. College Hospital, Calcutta.	.....	Major R. E. Lloyd, I.M.S., Professor of Biology, holding charge in addition.
House Surgn., Surgl. Out-patient Dept., Medl. Coll. Hospl.	Asst. Surgn. Satya Ranjan Sen.	
Registrar of Surgical Cases, Medl. Coll. Hospital.	Asst. Surgn. Charu Chandra Singh.	
Obstetrical Registrar ...	Jatindra Mohan Das ...	Holding charge of the duties of the Resident Surgeon, Eden Hospital, in addn. to his own duties.
Regr. of Medical Cases, Medl. College Hospital.	Asst. Surgn. Nalini Ranjan Sen Gupta.	
Emergency Officers, Medl. Coll Hospital	Asst. Surgn. Satish Chandra Das and Tempy. Asst. Surgn. Kanak Chandra Baral.	
Asst Bacteriologist and Asst. Prof. of Pathology, Medl. College.	Asst. Surgn. Rai Gopal Chandra Chatarji Bahadur.	
Demonstrator in the Pathological and Bacteriological Depts., Medl. Coll., Calcutta.	Asst. Surgn. Charu Chandra Basu.	
Ditto, ditto ...	Asst. Surgn. Jitendra Nath Maitra.	
Ditto, Physiological Department.	Asst. Surgn. Madan Mohan Datta.	
Ditto, ditto ...	Asst. Surgn. Lal Mohan Ghoshal.	
Asst. Prof. of Biology, Medl. College.	Asst. Surgn Ekendra Nath Ghosh.	
Demonstrator, Biological Dept ...	Asst. Surgn. Bibhuti Bhushan Barat.	
Ditto, Biological Dept. ...	Asst. Surgn. Shaileswar Mukharji.	
Supdt., Campbell Medl. School and Hospital.	Lt.-Col. R. P. Wilson, I.M.S. ...	Offg. Professor of Chemical and Operative Surgery, Medl. College, Calcutta, and Surgeon to the College Hospl. in addition.

B.—LIST OF OFFICERS AT THE PRESIDENCY.

Appointment.	Name.	REMARKS.
Medical.		
Dy. Supdt., Campbell Medical School and Hospital.	Capt. R. Sharples, I.S.M.D.	
Teacher of Surgery, Campbell Medical School, Sealdah.	Asst. Surgn. Karuna Kumar Chatarji.	
Teacher of Medicine, Campbell Medical School, Sealdah.	Asst. Surgn. Rai Upendra Nath Brahmachari Bahadur.	Also Lecturer on Sanitary Science, Presidency College.
Teacher of Materia Medica, ditto	Asst. Surgn. Rai Hari Nath Ghosh Bahadur.	
Teacher of Anatomy, ditto ...	Asst. Surgn. Bidhan Chandra Ray.	
Teacher of Midwifery, ditto ...	Asst. Surgn. Kedar Nath Das.	
Teacher of Medical Jurisprudence, ditto.	Asst. Surgn. Rai Lal Bihari Gangali Bahadur.	
Teacher of Physiology, Sealdah Campbell Medl. School.	Asst. Surgn. Nani Lal Pan.	Pr. lv. for 6 weeks from 21-2-1917.
Teacher of Pathology and Hygiene, Sealdah Campbell Medl. School.	Asst Surgn. Tarak Nath Sur.	
Teacher of Physics and Chemistry.	Asst. Surgn. Rai Chuni Lal Bose Bahadur.	
Resident Medical Officer, Police Hospital.	Asst. Surgn Jatindra Nath Gupta.	
Training the Police in Calcutta in First Aid to the Injured and Ambulance Work.	Asstt. Surgn. Kali Prasanna Banarji.	Offg. Supdt., Albert Victor Asylum for Lepers, Gobra. Asst. Surgeon Gauri Prasad Bhattacharji (offg.).
	Asst. Surgn. Abinash Chandra Chatarji.	Is also in medl. charge of the House of Detention for Juvenile Offenders.
Supdt., Albert Victor Asylum for Lepers, Gobra.	Lieut. H. Mansfield, I.S.M.D. ...	On deputation to mily. duty.
	Civil Asst. Surgeon Kali Prasanna Banarji (*offg.*).	
H. E. Governor's Staff Dispensary.	Mily. Asst. Surgn. J. C. Chalke...	Holds tempy. charge of the current duties of the office of the Surgeon to H. E. the Governor in addition.
Police.		
Inspr.-Genl. of Police ...	C. W. C. Plowden, C.I.E. ...	*Ex-officio* member of the Committee of Management of the Govt. Workhouse.
Asst. to Inspr.-Genl. of Police ...	T. C. Simpson.	
Second Asst. to the Inspr.-Genl. of Police.	F. Roddis.	

B.—LIST OF OFFICERS AT THE PRESIDENCY.

Appointment.	Name.	REMARKS.
Police.		
Dy. Inspr.-Genl. of Police, Presy. Range.	F. N. Warden.	
Dy. Inspr.-Genl. of Police, in charge C. I. D., Crime and Railways.	F. C. Daly, C.I.E.	
Ditto, in charge of Intelligence Branch, C. I. D., Calcutta.	C. A. Tegart, C I E., M.V.O,	Temply.
Special Asst. to Dy. Inspr.-Genl. of Police, stationed at Calcutta.	L. H. Colson.	
Asst. to Dy. Inspr.-Genl. of Police, Crime and Railways.	Srish Chandra Kanji Lal (*offg.*).	
Special Asst., Intelligence Branch, C. I. D.	R. W. Bell.	
Commr. of Police, Calcutta ...	R. Clarke, E. H Corbett (*offg.*)	Is also *ex-officio* Inspector of Factories in Calcutta, *Ex-officio* Visitor of the Presidency Jail and the Lunatic Asylum at Bhowanipur. Also President and *ex-officio* Member of the Committee of Management of the Government Workhouse. Visitor of the Alipore Central Jail and Juvenile Jail, Alipore. Is a Presidency Magistrate. P. of a magte., 1st class, and under secs. 186 and 190 in the district of the 24-Parganas to be exercised within the limits of the suburbs of Calcutta. Is in executive charge of the Albert Victor Leper Asylum at Gobra under the control and supervision of the Board appointed under sec 5 of the Act. Is Supervising Officer under the Ingress into India Ordinance, 1916. Pr. iv. for 2 mos. and 26 days from 6-4-1917.
Ditto ditto ...	F. S. R. Anley	P. of a Magte., 1st class, and under secs. 189 and 190, C. P. C., to be exercised within the suburbs of Calcutta. Empowered to exercise powers of supervising officers under the Ingress into India Ordinance, 1914.
Ditto ditto ...	D. S. Maclure, J.P. ...	P. of a Magte., 1st class, unde secs. 186 and 190, C.P.C., to be exercised within the suburbs of Calcutta.
Ditto ditto ...	J. S. Wilson, J.P	Ditto ditto.
Ditto ditto ...	L. N. Bird, J.P.	Ditto ditto.
Ditto ditto ...	B. V. Shaw	Ditto ditto.
Ditto ditto ...	D. M. C. Whitmore Clarke ...	Ditto ditto.
Ditto ditto ...	J. A. M. J. Goldie ...	Ditto ditto.
Addl. Dy. Commr. of Police, Calcutta.	F. D. Bartley, J.P.	P. of a Magte., 1st class, and under secs. 186 and 190, C.P.C. On deputation to the Bengal Police as Intelligence Office.
Police Surgeon*	Major N. P. Sinha, I.M.S. (offg.)	*Ex-officio* member of the Committee of Management of the Govt. Workhouse, Calcutta. Is also Professor of Medical Jurisprudence in the Medical College.

The Commissioner and Deputy Commissioner of Police are *ex-officio* visitors of the Lunatic Asylums at Rhawanipur and Dullanda.
The Commissioner of Police is *ex-officio* visitor of the Presidency Jail.
* The emoluments of this appointment are not to exceed Rs. 1,000 per mensem.

B.—LIST OF OFFICERS AT THE PRESIDENCY.

Appointment.	Name.	REMARKS.
Public Works.		
Sanitary Engineer, Bengal ...	G. B. Williams	Is also *ex-officio* Secretary to the Sanitary Board, Bengal.
Asst. Sanitary Engineer, Bengal	A. J. G. Maflin.	
Ditto ditto ,, ...	F. C. Griffin.	
P. A. to ditto ,, ...	Rai Sahib Krishnadhan Banarji.	
Supdg. Engr., Central Circle* ...	Rai Sahib Beni Madhab Mitra.	
Supdg. Engr., Presy. Circle* ...	J. Zorab.	
Exe. Engineer, First Calcutta Division.*	C. W. Sibold.	
Hony Asst. Engineer	W. J. Traise.	
Exe. Engineer, Second Calcutta Division.*	Vacant.	
Hony. Asst. Engr	D. R. G. Turnbull.	
Sub-Engineer	Ananga Mohan Pal.	
Exe. Engr., Third Calcutta Division.*	Rai Shashi Bhushan Mazumdar Bahadur.	
Electrical Engr., Electrical Division.*	A. K. Taylor.	
Asstt. Elec. Engr. ...	H. V. Marchant (*s. p. t.*)	
Supdg. Engineer, South-Western Circle.*	C. Addams-Williams, C.I.E. ... Rai Amar Nath Das Bahadur (*offg.*)	Comb. lv. for 9 mos. from 25-6-1916.
Exe. Engr., Cir. and B. Canals Division.*	G. J. St. Clair Sedgley.	
Asst. Engineer, Calcutta Canals	Debendra Nath Sen Gupta	
Exe. Engineer, Northern Drainage and Embankment Division.	Shailendra Nath Banarji.	
Asst. Engineer	Banke Lal Subarwal.	

* Admitted to the Calcutta house allowance scheme.

B.—LIST OF OFFICERS AT THE PRESIDENCY.

Appointment.	Name.	Remarks.
Public Works.		
Electric Inspector	R. J. Browne.	
Consulting Architect	H. A. Crouch.	
Addl. Asst. Architect	W. I. Keir.	
Registration.		
Inspr.-Genl. of Regtrn.* ...	The Hon'ble Rai Priya Nath Mukharji Bahadur.	Also Mar. Regr. of Calcutta and Regr. of Parsi Marriages under Act XV of 1865.
Personal Asst. to ditto ...	Rai Abinash Chandra Basu Bahadur.	
Inspr. of Registration offices ...	Satish Chandra Mukharji.	
Ditto ditto ...	Ananda Gopal Mukharji.	Prv. lv. for 1 mo. from 12-3.1917.
Registrar of Calcutta ...	Rai Kripa Nath Dutt Bahadur	
Sub-Regr. of Calcutta ...	Paresh Chandra Datta.	
Sanitation.		
Sanitary Commissioner for Bengal.†	Major W. W. Clemesha, I.M.S. ... C. A. Bentley, M.B. (*offg.*).	Is also in charge of Vacen. Dept. in Bengal. Is also *ex officio* a Dy. Inspr.-Genl. of Prisons and *ex-officio* member of all municipalities at head-quarters of districts. Offg. Sany. Commr., Govt. of India.
Deputy Sanitary Commissioner, Presidency Circle, Bengal.	Capt A. M. Jukes, I.M.S. ...	On deputation.
Special Deputy Sanitary Commissioner for Malaria Research.	Major A. B. Fry., I.M.S. ...	Ditto.
Assistant to the Addl. Deputy Sanitary Commissioner.	Asst. Surgn. Jamini Kanta Sen Gupta.	
Inspr., Animal Vaccination Dépôt, Calcutta.	Asst. Surgn. Mahendra Kumar Chakrabatti.	

* Admitted to the Calcutta house-allowance and house-building scheme from 1-11-1906
†This appointment is made by the Government of India

B.—LIST OF OFFICERS AT THE PRESIDENCY.

Appointment.	Name.	Remarks.
Veterinary.		
Principal, Bengal Veterinary College.	Lt.-Col. A. Smith, F.R.C.V.S.	Holds charge of the Supdt., C. V. Dept., in addition to his duties.
Supdt. Civil Vety. Dept., Bengal	P. J. Kerr ... ... A. D. MacGregor (*offg.*).	On deputation to Mily. duty. Lt.-Col. A. Smith holding charge in addition to his duties.
Offg. Asst. Principal, Bengal Veterinary College.	Dibakar De.	
Miscellaneous.		
Protector of Emigrants and Supdt. of Emign.	C. Banks, M.D., D.P.H.	Also Medical Inspector of Emigrants for Calcutta and its suburbs (Inland Emigration). Comb. lv. for 6 mos. and 6 days from 13-4-1917.
Supdt. of the Royal Botanic Garden, Calcutta.	Major A. T. Gage, I.M.S. ... H. G. Carter (*offg.*)	Also Supdt. of Cinchona Cultivation. Is also Director of the Botanical Survey of India and Supdt. of the Lloyd Botanic Garden, Darjeeling. On spl. duty under the Govt. of India, Deptt. of Rev. and Agricul.
Chief Inspector of Factories ...	R. P. Adams	Offg. Vice-President and Secy. to the Boiler Commn. in addn. to his duties.
Inspector of Factories and Vice-President and Secy. to the Boiler Commission, and *ex-officio* member of that Commn.	J. Cowan ... ... E. W. Hammond (*offg.*).	On lv. from 25-8-1916.
Registrar, Jt. Stock Companies, Bengal.	W. S. Hale.	
Bengali Translator to Government	Rai Rajendra Chandra Shastri Bahadur.	Has extension of service for 2 years from 17-2-1915
First Assistant to ditto ...	Bidhu Bhushan Mukharji.	
Bengal Librarian	Manmatha Nath Rudra.	
Meteorologist, Calcutta ...	C. W. Peake.	
Supdt., Govt. Printing, Bengal ...	Alfred John Norton.	
Chairman of the Board of Trustees for the Improvement of Calcutta.	C. H. Bompas	Re-appointed for 2 years + 2 years from 2-1-1915.
Deputy Collector (sub. *pro tem.*) under the Calcutta Improvement Trust.	Mallinath Ray.	
Supdt. of Agriculture, Presy. Divn.	Hari Prasad Mitra.	

CORPORATION OF CALCUTTA.

NAME.	Appointment.	Place.	Date of appointment.	Present pay.	REMARKS.
Charles Frederick Payne, I.C.S., J.P.	Chairman	Calcutta ...	13th Oct. 1913.	Rs. 2,500	Combd. lv. for 11 mos. and 13 days from 8-11-1916.
The Hon'ble Mr. Samuel Walter Goode, I.C.S (*offg.*).	Offg. Chairman	Ditto ...	8th Nov. 1916.	2,166-10-8 H. A. 500	
Ramani Mohan Chatarji, M.A.	Vice-Chairman	Ditto ...	3rd Feb. 1914.	1,500	
Stanley Kesson Sawday, B.A. (Cantab.), I.C.S.	Deputy Chairman	Ditto ...	8th Apl. 1914.	(*a*) 1,400	
William Bernard MacCabe, M.I.C.E., F.I.C.	Chief Engineer	Ditto ...	21st Oct. 1903.	2,500	On leave.
Herbert Miloerton Crake, M.D. (Victoria), D.P.H. (Leeds).	Health Officer	Ditto ...	26th Nov. 1913.	1,500	
Manilal Sen, B.L., Attorney-at-Law.	Solicitor	Ditto ...	1st Aug. 1905.	1,400	
James Hutchison deCaynotth Ballardie, A.R.I.B.A.	City Architect and Surveyor ...	Ditto ...	7th Mar. 1913.	1,350	On lv. from 17-3 1917.
[illegible]endra Nath Dutt ...	City Architectect (offg.) ...	Ditto ...	17th Mar. 1917.	435	
Srish Chandra Ray Chaudhuri	Surveyor (offg)	Ditto ...	17th Mar. 1917.	365	
Joseph Ball Hill, A.M.I.C.E. ...	Executive Engineer, Drainage	Ditto ...	21st Dec. 1899.	(*a*) 1,400	Acting as Engineer to the Corporation with an allowance of Rs. 350 during the absence on leave of Mr. MacCabe.
William Henry Rogers Ford, A.C.A.	Chief Accountant	Ditto ...	1st July 1907.	(*b*) 1,250	Also draws an allce. of Rs. 50 as Manager, Provident Fund.
Arthur Peirce, A.M.I.C.E. ...	Executive Engineer, Water-works.	Ditto ...	4th June 1896.	1,000	Granted an allowance of Rs. 150 for having independent charge of Water-Works Dept. during absence on leave of Mr. MacCabe.
Charu Chandra Chatarji, B.A.	Secretary	Ditto ...	1st April 1912.	(*c*) 940	
Dwijendra Chandra Datta ...	Collector	Ditto ...	3rd Feb. 1914.	(*d*) 800	
Henry V. Eastwell ...	Lighting Superintendent ...	Ditto ...	1st Aug. 1910.	850	
Debendra Prasad Ray ...	Assessor	Ditto ...	1st Feb. 1915.	(*e*) 680	
Lalit Chandra Mitra, M.A. ...	License Officer	Ditto ...	12th April 1907.	(*f*) 569	
Tarak Nath Banarji, B.A., C.E.	Superintendent of Stores ...	Ditto ...	14th Nov. 1912.	(*g*) 540 T. A. 100	
Jasodananda Sen, M.A. ...	Assistant Secretary	Ditto ...	16th May 1910.	(*h*) 460	

(*a*) Rs. 1,300 rising to Rs. 1,500 by annual increments of Rs. 50.
(*b*) Rs. 1,000 rising to Rs. 1,250 by biennial increments of Rs. 50.
(*c*) Rs. 800 rising to Rs. 1,000 by biennial increments of Rs. 40.
(*d*) Rs. 750 rising to Rs. 1,000 by biennial increments of Rs. 50.
(*e*) Rs. 600 rising to Rs. 800 by biennial increments of Rs. 40.
(*f*) Rs. 400 rising to Rs. 600 by biennial increments of Rs. 40.
(*g*) Rs. 500 rising to Rs. 600 by biennial increments of Rs. 20.
(*h*) Rs. 400 rising to Rs. 500 by biennial increments of Rs. 20.

COMMISSIONERS OF CALCUTTA APPOINTED BY GOVERNMENT UNDER SECTION 8, CLAUSE (2) (*d*) OF BENGAL ACT, III OF 1899.

No.	NAMES OF COMMISSIONERS.	Date of appointment.
1	Sir Kailash Chandra Bose, Rai Bahadur, KT., C.I.E.	1st April 1915.
2	Rai Surendra Nath Mitra Bahadur	Ditto.
3	C. Banks, Esq. M.D., D.P.H.	Ditto.
4	Nawab Siraj-ul-Islam, Khan Bahadur	Ditto
5	C. H. Bompas, I.C.S	6th March 1917.
6	Rustamji Hirjibhai Manekji Rustomjee	1st April 1915.
7	Prince Afsar-ul-Mulk Mirza Muhammad Akram Husain Bahadur ...	Ditto.
8	Sahibzada Ghulam Muhammad	13th August 1915.
9	The Hon'ble Mr. Abdur Rahim(*b*)	1st April 1915.
10	G. B. Williams, M.I.C.E., M.I.M.E.	19th May 1916.
11	A. J. Pugh	1st April 1915.
12	Maharaja Sir Prodyot Kumar Tagore Bahadur, KT.	9th September 1915
13	J. A. Jones	1st April 1915.
14	W. H. Arden Wood, C.I.E.	Ditto.
15	Nawab A. F. M. Abdur Rahman, Khan Bahadur	7th February 1917.

COMMISSIONERS OF CALCUTTA APPOINTED UNDER SECTION 8, CLAUSE 2 (*a*), (*b*), (*c*) OF BENGAL ACT, III OF 1899.

No.	NAMES OF COMMISSIONERS.	By whom appointed.	Date of appointment.
1	C. W. E. Cotton, I.C.S.	Commissioners for the Port of Calcutta.	27th September 1916.
2	The Hon'ble Raja Hrishikesh Laha, C.I.E. (*a*) ...		1st April 1915.
3	James Peter Wyness	Calcutta Trades Association.	Ditto.
4	George Phillips Shelton		
5	Frederic Lewis Watson		
6	William Heath Phelps		1st February 1916.
7	Shirley Tremearne	Bengal Chamber of Commerce.	1st April 1915.
8	William Rowe Rae		
9	Thomas Robert Pratt		
10	Edwrd Hugh Bray		24th March 1916.

(*a*) Addl. Member, Bengal Council.
(*b*) Member, Governor-General's Council.

LIST OF ELECTED WARD COMMISSIONERS OF CALCUTTA.

No.	Names of Commissioners.	Number of Ward.	Date of appointment.
1	J. N. Mitter, Barrister-at-Law	1	1st April 1915.
2	The Hon'ble Rai Sita Nath Ray Bahadur	2	Ditto.
3	Pasupati Nath Deb	3	Ditto.
4	N. C. Sarkar	4	Ditto.
5	Nalini Nath Sett	5	Ditto.
6	The Hon'ble Rai Radha Charan Pal Bahadur (a)	6	Ditto.
7	Rai Hariram Goenka Bahadur	7	Ditto.
8	Dr. Sudam Chandra Sil	8	Ditto.
9	Rai Dr. Haridhan Dutt Bahadur	9	Ditto.
10	Nirmal Chandra Chandra	10	Ditto.
11	Gokul Chand Baral	11	Ditto.
12	Elias Moses Duck Cohen	12	Ditto.
13	Immanuel Jacob Cohen	13	Ditto.
14	Rai Manilal Nahar Bahadur	14	Ditto.
15	David Jacob Cohen	15	Ditto.
16	The Hon'ble Rai Debendra Chandra Ghose Bahadur (a) ...	16	Ditto.
17	Surendra Chandra Ghose	17	Ditto.
18	L. A. R. Boilard	18	29th May 1915.
19	Dr. Suresh Chandra Sarkar, M.B.	19	1st April 1915.
20	A. C. Banarji, Barrister-at-Law (b)	20	Ditto.
21	Babu Ramtaran Banarji	21	Ditto.
22	Priyanath Mallik	22	Ditto.
23	Amulyadhone Addy	23	Ditto
24	Reginald Braunfeld	24	Ditto.
25	Satish Chandra Mukharji	25	Ditto.

(a) Addl. Member, Bengal Legislative Council.
(b) Assessor of the Tribunal for the Board of Trustees for the Improvement of Calcutta.

CALCUTTA IMPROVEMENT TRUST.

NAMES OF APPOINTED MEMBERS.	By whom elected or appointed.	Date of appointment.	When the term of appointment will expire.
Mr. C. H. Bompas, I.C.S., Chairman ...	Government	2nd Jan. 1915 ...	1st Jan. 1919.
Chairman, Calcutta Corporation, *ex officio*		.....	.....
The Hon'ble Sir F. H. Stewart, KT., C.I.E.		23rd Dec. 1915 ...	22nd Dec. 1918.
Rai Annada Prasad Sarkar Bahadur ...		10th Sept. 1915 ...	9th Sept. 1918.
The Hon'ble Mr. A. Birkmyre ...		21st March 1916 ...	20th March 1919.
The Hon'ble Sir Rajendra Nath Mookerjee, KT.		25th Jan. 1915 ...	24th January 1918.
Names of elected members.			
Mr. W. K. Dods	Bengal Chamber of Commerce.	29th Jan. 1916 ...	28th Jan. 1919.
The Hon'ble Rai Sita Nath Ray Bahadur	Bengal National Chamber of Commerce.	25th Jan. 1915 ...	24th Jan. 1918.
Hon'ble Raja Hrishikesh Laha, C.I.E ...	Calcutta Corporation.	25th Jan. 1915 ...	24th Jan. 1918.
Hon'ble Rai Radha Charan Pal Bahadur ...			
Dr. C. Banks, M.D.			
Members of the Tribunal.			
Dr. S. C. Banarji, President	Government ...	21st Sept. 1916 ...	20th Sept. 1918.
H. Sadlow, Esq.	Ditto ...	1st March 1916 ...	28th Feb. 1918.
Mr. A. C. Banarji, Assessor	Corporation ...	18th Nov. 1916 ...	17th Nov. 1918.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
BAKARGANJ.		
(District head-quarters. Barisal.)		
Magte. and Collr.	D. H. Wares (*offg.*) ...	Is *ex-officio* Collr. of tolls and supervisor of the addl. navigable channels in Bakarganj under Act V (B.C.) of 1864.
Addl. Dist. Magte.	Rai Jogendra Kumar Ghosh Bahadur.	For six months. Certificate officer.
Asst. Magte. and Collr. ...	A. H. Kemm	P. of a Magte., 3rd class.
Dy. Magte. and Dy. Collr. ...	Rai Jogendra Kumar Ghosh Bahadur.	P. of a Magte., 1st class, and under secs. 110, 133, 143, 144, 174, 188, 190 (a), (b), (c), 260, 407 (2), 524 and 565. Offg. Addl. Dt. Magte. Bakarganj.
Ditto ditto ...	Harendra Kumar Ghosh (No. I)	Ditto, 1st class, and under secs. 110, 133, 174, 186, 260, 407 (2), 524 and 565. In charg of the treasury.
Ditto ditto ...	Girish Chandra Nag ...	Ditto, 1st class, and under secs. 110, 260 and 565. Addl. pr. lv. for 2 mos. from 10-4-1917.
Ditto ditto ...	Bhabani Prasad Neogi ...	Ditto. 1st class, and under secs. 110, 133, 260, 524 and 535.
Ditto ditto ...	Satyendra Nath Das ...	Ditto. 1st class, and under secs. 110, 133, 260 and 565. Certificate Officer. In charge of Wards' Estates.
Ditto ditto ...	Rai Sahib Hara Kishor Biswas ...	Ditto, 2nd class. Khas Tahsildar. Certificate Officer in respect of Court of Wards' estates.
Ditto ditto ...	Kshirod Lal Mukharji ...	Ditto, 1st class, and under secs. 110, 133, 260 and 565. In charge of the sadar subdivn. P. under Act I of 1894.
Ditto ditto ...	Radhika Lal De	Ditto. 1st class, and under secs. 110, 133, 144, 188, 190 (1) (c), 260, 524 and 565. P. under Act II of 1886 P. under Act I of 1894.
Ditto ditto ...	Mirza Shigufta Bakht ...	Ditto, 1st class, and under secs. 110, 133 and 565. Pr. lv. from 38 days from 22-2-1917.
Ditto ditto ...	Jiban Chandra Chatarji ...	Ditto, 1st class.
Ditto ditto ...	Muhammad Aziz Neser ...	Ditto, 2nd class.
Ditto ditto ...	Radha Krishna Goswami ...	Ditto, 3rd class. On cess revaluation work.
Ditto ditto (Proby.) ...	Binod Behari Das Gupta.	

All subdivisional officers are registering officers under sec. 28 of Act XXI of 1866, and are vested with powers of Collr. under secs. 12—15 and 69—71 of Act VIII of 1885 and under Act XIX of 1883 as amended by Act XVIII of 1899.

The Joint Magistrate and Covenanted Deputy Collector, or Acting Joint-Magistrate and Covenanted Deputy Collector in the absence of a Joint-Magistrate or Acting Joint-Magistrate, the Senior Uncovenanted Deputy Collector of Barisal empowered to perform the functions of a Collector under section 167 of the Bengal Tenancy Act in the district of Bakarganj (Notification No. 9750 C., dated the 24th August 1907).

The Addl. Dt. Magte. has the powers of a Collector under the Land Acquisition Act I of 1894. He is also vested with the powers of an Inspecting Officer under rules 12 and 19, pages 59 and 60 of the Board's Rules, 1902, and under rule 1, page 1 of the Board's Inspection Manual, 1902 (Notification No. 1192 R., dated the 4th May 1909). Has *ex-officio* special appellate power of a Collector under Act VII of 1876. Has also *ex-officio* powers under Act II of 1886. (*Vide* Financial Department Notification No. 169 T.—S. R., dated the 23rd May 1913.

The Addl. Dt. Magte. has also powers under section 24 of the Opium Act, 1878.

The Addl. Dt. Magte. has *ex-officio* powers of a Collector under Indian Stamp Act, II of 1899. (*Vide* Financial Department Notification No. 249 T.—S.R., dated the 12th June 1913).

The Addl. Dt. Magte. has also *ex-officio* all the powers of a Collector under Eastern Bengal and Assam Excise Act I of 1910 subject to the control of the Collector of the district. (Financial Department Notification No. 294 T.—S.R., dated the 16th June 1913).

The Addl. Dt. Magte. has *ex-officio* powers of a Collector under the B. T. Act VIII of 1885. (Rev. Dept. Notification No. 1330 L.R., dated the 7th July 1913).

The Addl. Dt. Magte. has *ex-officio* powers under Act XI of 1859.

All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist), employed in the districts of Bengal are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886.

The Settlement Officer has the power of a Collector under section 58 of Act VIII of 1887.

The Settlement staff of this district is also employed in the Faridpur district.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
Bakarganj.		
Dy. Magte. and Dy. Collr. ...	Akramuzzaman Khan ...	P. of a Magte., 1st class, and under secs. 110, 260 and 565. In charge of the Dakshin Shahbazpur subdivn. P. under Act I of 1894.
Ditto ditto ...	Khan Sahib Saiyid Abdul Latif...	Ditto, 1st class, and under secs. 110, 133, 144 and 260 and 435. In charge of the Patuakhali subdivn.
Ditto ditto ...	Lalit Kumar Sen	Ditto, 1st class, and under secs. 110, 260 and 565. At Patuakhali. Pr. lv. for 2 mos. from 17-2-1917.
Ditto ditto ...	Chandra Shekhar Mukharji ...	Ditto, 1st class, and under secs. 110, 133, 260 and 565. At Patuakhali.
Ditto ditto ...	Rebati Raman Datta ...	Ditto, 1st class, and under secs. 110, 260 and 565. Trained in C. C. S. work. At Patuakhali. Certificate Officer.
Ditto ditto ...	Abdul Majid (No. I) ...	Ditto, 1st class, and under secs. 260 and 565. In charge of the Pirojpur subdivision. P. under Act I of 1894.
Ditto ditto ...	Kanti Chandra Mukharji ...	Ditto, 1st class. At Pirojpur.
Ditto ditto ...	Khan Sahib Qamaruddin Ahmad	Ditto, 1st class. Colonization officer, Sundarbans, Bakarganj.
Sub.-Dy. Collr.	Nuruddin Ahmad	P. of a Magte., 3rd class. Circle officer.
Ditto	Upendra Mohan Basu ...	Ditto, 1st class. At Pirojpur.
Ditto	Hira Lal Ray	Circle officer. P. of a Rev. Officer and of an A. S. O.
Ditto	Radhika Mohan Basak ...	P. of a Magte. 1st class. At Dakshin Shahbazpur.
Ditto	Bijay Kumar Datta Gupta ...	P. of a Magte., 2nd class. At Sadar. Circle Officer.
Ditto	Abhay Kumar Ray ...	Circle Officer. P. of a Collr. under Regns. VII of 1822, IX and XI of 1825, and IX of 1833. P. under Act VIII of 1885.
Ditto	Ratan Lal Das Gupta ...	Ditto, 3rd class. At Sadar.
Ditto (*s. p. t.*) ...	Kshetra Mohan Mandal ...	Ditto. 3rd class. At Sadar.
Ditto (*s. p. t.*) ...	Syeduddin Ahmad	Ditto. 3rd class. At Sadar.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
	Bakarganj.	
Inspr., Co-operative Societies ...	Harendra Lal Chatarji.	
Supdt. of Excise and Salt ...	Surendra Narayan Ghosh.	
D. & S Judge [7] (*a*) ...	D. C. Patterson.	
Ditto (Addl.) ...	J. C. H. Macnair	P. to perform the functions of the court under sec. 3 (*d*) of the L. A. Act, 1894, within the local limits of the orgl. jurisdiction of the Dt. Judge of Bakarganj.
Sub-Judge	Achinta Nath Mitra ...	P. of a s. c. c. judge up to Rs. 100 and under Act VII of 1889. District Delegate.
Ditto	Manmohan Neogi (*offg.*).	
Ditto (Addl.) ...	Paresh Nath Ray Chaudhuri (*offg.*).	
Munsif of Barisal	Amulya Gopal Ray ...	P. of a s. c. c. judge up to Rs. 100.
Ditto ditto	Paresh Nath Ray Chaudhuri ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (*b*) of the B. T. Act. P. to try orgl. suits up to the value of Rs. 2,000. Offg. Sub-Judge, Bakarganj.
Ditto ditto	Rash Bihari Barman ...	P. of a s. c. c. judge up to Rs. 100 P. under sec. 153 (*b*) of the B. T. Act.
Ditto ditto	Madan Mohan Shaha ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (*b*) of the B. T. Act.
Ditto ditto	Rajendra Kumar Gupta ...	P. of a s. c. c. judge up to Rs. 100.
Ditto ditto	Surendra Nath Ray ...	P. of a. s. c. c. judge up to Rs. 100.
Ditto ditto	Nilendra Nath Basu.	
Ditto ditto	Jamini Kishor Ray.	
Ditto ditto	Satish Chandra Banarji (*offg.*).	

* Every District Judge shall, in cases in which an appeal is allowed, record evidence in English with his own hand.

(*a*) *Ex-officio* Special Judge under sec. 109A of the Bengal Tenancy Act in the district of Bakarganj.

The senior Subordinate Judge in the district of Bakarganj and the senior Munsif at Barisal are vested *ex-officio* with the functions of a District Court under Act VII of 1889 within the local limits on the Barisal Munsifi (Bengal Government Order No. 4444A., dated the 30th July 1895).

The District Judge of Bakarganj is appointed to be Special Judge for the purpose of hearing appeals from the decision of Revenue Officers under secs. 105 to 108 of the Tenancy Act.

The Additional Judge of Bakarganj is appointed to be a Special Judge for the purpose of hearing appeals from the decision of Revenue officers under secs. 105 and 108 (both inclusive) of the Bengal Tenancy Act, 1885, as amended by the Eastern Bengal and Assam Act I of 1908 (Notification No. 2579 A. dated the 15th June 1909).

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	Bakarganj.	
Dy. Magte. and Dy. Collr. ...	Akramuzzaman Khan ...	P. of a Magte., 1st class, and under secs. 110, 260 and 565. In charge of the Dakshin Shahbazpur subdivn. P. under Act I of 1894.
Ditto ditto ...	Khan Sahib Saiyid Abdul Latif...	Ditto, 1st class, and under secs. 110, 133, 144 and 260 and 435. In charge of the Patuakhali subdivn.
Ditto ditto ...	Lalit Kumar Sen	Ditto, 1st class, and under secs. 110, 260 and 565. At Patuakhali. Pr. lv. for 2 mos. from 17-2-1917.
Ditto ditto ...	Chandra Shekhar Mukharji ...	Ditto, 1st class, and under secs. 110, 133, 260 and 565. At Patuakhali.
Ditto ditto ...	Rebati Raman Datta ...	Ditto, 1st class, and under secs. 110, 260 and 565. Trained in C. C. S. work. At Patuakhali. Certificate Officer.
Ditto ditto ...	Abdul Majid (No. I) ...	Ditto, 1st class, and under secs. 260 and 565. In charge of the Pirojpur subdivision. P. under Act I of 1894.
Ditto ditto ...	Kanti Chandra Mukharji ...	Ditto, 1st class. At Pirojpur.
Ditto ditto ...	Khan Sahib Qamaruddin Ahmad	Ditto. 1st class. Colonization of Sundarbans, Bakarganj.
Sub.-Dy. Collr.	Nuruddin Ahmad	P. of a Magte., 3rd class. Circle officer.
Ditto	Upendra Mohan Basu ...	Ditto, 1st class. At Pirojpur.
Ditto	Hira Lal Ray	Circle officer. P. of a Rev. Officer and of an A. S. O.
Ditto	Radhika Mohan Basak ...	P. of a Magte. 1st class. At Dakshin Shahbazpur.
Ditto	Bijay Kumar Datta Gupta ...	P. of a Magte., 2nd class. At Sadar. Circle Officer.
Ditto	Abhay Kumar Ray ...	Circle Officer. P. of a Collr. under Regns. VII of 1822, IX and XI of 1825, and IX of 1833. P. under Act VIII of 1885.
Ditto	Ratan Lal Das Gupta ...	Ditto, 3rd class. At Sadar.
Ditto (*s. p. t.*) ...	Kshetra Mohan Mandal ...	Ditto. 3rd class. At Sadar.
Ditto (*s. p. t.*) ...	Syeduddin Ahmad	Ditto, 3rd class. At Sadar.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
Bakarganj.		
Inspr., Co-operative Societies ...	Harendra Lal Chatarji.	
Supdt. of Excise and Salt ...	Surendra Narayan Ghosh.	
D. & S Judge * (a) ...	D. C. Patterson.	
Ditto (Addl.) ...	J. C. H. Macnair	P. to perform the functions of the court under sec. 3 (*d*) of the L. A. Act, 1894, within the local limits of the orgl. jurisdiction of the Dt. Judge of Bakarganj.
Sub-Judge	Achinta Nath Mitra ...	P. of a s. c. c. judge up to Rs. 500 and under Act VII of 1889. District Delegate.
Ditto	Manmohan Neogi (*offg.*).	
Ditto (Addl.) ...	Paresh Nath Ray Chaudhuri (*offg.*).	
Munsif of Barisal	Amulya Gopal Ray ...	P. of a s. c. c. judge up to Rs. 100.
Ditto ditto	Paresh Nath Ray Chaudhuri ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (*b*) of the B. T. Act. P. to try orgl. suits up to the value of Rs. 2,000. Offg. Sub-Judge, Bakarganj.
Ditto ditto	Rash Bihari Barman ...	P. of a s. c. c. judge up to Rs. 100 P. under sec. 153 (*b*) of the B. T. Act.
Ditto ditto	Madan Mohan Shaha ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (*b*) of the B. T. Act.
Ditto ditto	Rajendra Kumar Gupta ...	P. of a s. c. c. judge up to Rs. 100.
Ditto ditto	Surendra Nath Ray ...	P. of a. s. c. c. judge up to Rs. 100.
Ditto ditto	Nilendra Nath Basu.	
Ditto ditto	Jamini Kishor Ray.	
Ditto ditto	Satish Chandra Banarji (*offg.*).	

* Every District Judge shall, in cases in which an appeal is allowed, record evidence in English with his own hand.

(*a*) *Ex-officio* Special Judge under sec. 109A of the Bengal Tenancy Act in the district of Bakarganj.

The senior Subordinate Judge in the district of Bakarganj and the senior Munsif at Barisal are vested *ex-officio* with the functions of a District Court under Act VII of 1889 within the local limits on the Barisal Munsifi (Bengal Government Order No. 4444A., dated the 30th July 1895).

The District Judge of Bakarganj is appointed to be Special Judge for the purpose of hearing appeals from the decision of Revenue Officers under secs. 105 to 108 of the Tenancy Act.

The Additional Judge of Bakarganj is appointed to be a Special Judge for the purpose of hearing appeals from the decision of Revenue officers under secs. 105 and 108 (both inclusive) of the Bengal Tenancy Act, 1885, as amended by the Eastern Bengal and Assam Act I of 1908 (Notification No. 2579 A. dated the 15th June 1909).

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
Bakarganj.		
Munsif of Bhola	Daibaki Lal Sen Gupta ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (b) of the B. T. Act. P. under Act VII of 1889.
Ditto ditto	Sushil Chandra Mitra ...	P. of a s. c. c. judge up to Rs. 100.
Ditto Pirojpur ...	Nirmal Chandra Mitra ...	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889. P. under sec. 153, cl. (b) of the B. T. Act.
Ditto ditto	Upendra Lal Das Gupta ...	P. of a s. c. c. judge up to Rs. 50.
Ditto ditto	Gobinda Chandra Chakrabatti (*offg.*).	
Ditto Patuakhali ...	Krishna Kumar Sen ...	P. of a s. c. c. judge up to Rs. 100 and under Act VII of 1889. P. under sec. 153, cl. (b) of the B. T. Act.
Ditto ditto	Akshay Kumar Chakrabatti Bidyabhushan.	P. of a s. c. c. judge up to Rs. 100.
Ditto ditto	Hasibuddin Ahmad ...	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889.
Ditto ditto	Surendra Krishna Ghosh ...	P. of a s. c. c. judge up to Rs. 100. P under Act VII of 1889. P. under sec. 153, cl. (b). of the B. T. Act.
Assistant Inspector of Schools ...	Rai Sahib Aswini Kumar Das Alfazuddin Ahmad (*offg.*). ...	Offg. Asstt. Inspr. of Schools, Burdwan Divn.
Inspector of Registration offices	Satish Chandra Mukharji.	
Head Master, Barisal Zilla School	Kshirod Chandra Sen.	
District Sub-Registrar ...	Abdul Halim (*offg.*).	
Deputy Inspector-General of Police, Bakarganj Range.	R. B. Hyde (*offg.*).	
Superintendent of Police ...	P. L. Faulkner.	
Additional Superintendent of Police.	A. W. Shallow.	
Asstt. Supdt. of Police ...	W. S. C. Macpherson.	
Deputy Superintendent of Police	Bhowani Nath Nandi ...	At Patuakhali.
Civil Surgeon	Rai Ananda Lal Bose Bahadur (*offg.*)	Also Superintendent of Jails
Civil Assistant Surgeon, Barisal Dispensary.	Ashutosh Datta.	
Civil Asst. Surgeon, Patuakhali Subdivision and Dispensary.	Monoj Nath Gupta ...	Tempy. Asst. Surgeon.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
Bakarganj.		
Munsif of Bhola	Daibaki Lal Sen Gupta ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (*b*) of the B. T. Act. P. under Act VII of 1889.
Ditto ditto	Sushil Chandra Mitra ...	P. of a s. c. c. judge up to Rs. 100.
Ditto Pirojpur ...	Nirmal Chandra Mitra ...	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889. P. under sec. 153, cl. (*b*) of the B. T. Act.
Ditto ditto	Upendra Lal Das Gupta ...	P. of a s. c. c. judge up to Rs. 50.
Ditto ditto	Gobinda Chandra Chakrabatti (*offg.*).	
Ditto Patuakhali ...	Krishna Kumar Sen ...	P. of a s. c. c. judge up to Rs. 100 and under Act VII of 1889. P. under sec. 153, cl. (*b*) of the B. T. Act.
Ditto ditto	Akshay Kumar Chakrabatti Bidyabhushan.	P. of a s. c. c. judge up to Rs. 100.
Ditto ditto	Hasibuddin Ahmad ...	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889.
Ditto ditto	Surendra Krishna Ghosh ...	P. of a s. c. c. judge up to Rs. 100. P under Act VII of 1889. P. under sec. 153, cl. (*b*), of the B. T. Act.
Assistant Inspector of Schools ...	Rai Sahib Aswini Kumar Das Alfazuddin Ahmad (*offg.*). ...	Offg. Asst. Inspr. of Schools, Bu dwan Divn.
Inspector of Registration offices	Satish Chandra Mukharji.	
Head Master, Barisal Zilla School	Kshirod Chandra Sen.	
District Sub-Registrar ...	Abdul Halim (*offg.*).	
Deputy Inspector-General of Police, Bakarganj Range.	R. B. Hyde (*offg.*).	
Superintendent of Police ...	P. L. Faulkner.	
Additional Superintendent of Police.	A. W. Shallow.	
Asstt. Supdt. of Police ...	W. S. C. Macpherson.	
Deputy Superintendent of Police	Bhowani Nath Nandi ...	At Patuakhali.
Civil Surgeon	Rai Ananda Lal Bose Bahadur (*offg.*)	Also Superintendent of Jails
Civil Assistant Surgeon, Barisal Dispensary.	Ashutosh Datta.	
Civil Asst. Surgeon, Patuakhali Subdivision and Dispensary.	Monoj Nath Gupta ...	Tempy. Asstt. Surgeon.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
Bakarganj.		
Civil Asst. Surgeon, Bhola Subdivision and Dispensary.	Khagendra Binod Singh.	
Civil Asst. Surgeon, Pirojpur Subdivision and Dispensary.	Khagendra Mohan Basu ...	Tempy. Asstt. Surgeon.
Executive Engineer ...	Paresh Charan Chattopadhyay.	
Sub-Engineer	Nanda Lal De.	
District Engineer	H. O'Brien, C.E., M.S.E.	
BANKURA.		
(District head-quarters, Bankura.)		
Magte. and Collr.	J. Vas.	
Deputy Magte. and Dy. Collr. ...	Akhil Kumar Chatarji ...	P. of a Magte., 1st class, and under secs. 110, 133 and 565. Certificate Officer. In charge of the treasury.
Ditto ditto ...	Gyanada Prasad Ghose ...	Ditto, 1st class, and under secs. 260, 407 (2) and 565 (1) (3). Sadar Subdivisional Officer.
Ditto ditto ...	J. A. Beale	Ditto, 1st class, and under secs. 110 and 565.
Ditto ditto ...	Aminuzzaman Khan ...	Ditto, 1st class, and under sec. 565, P. under Act 1 of 1894.
Ditto ditto ...	Brajabandhu Bhaumik ...	Ditto, 2nd class. Pr. lv. for 6 weeks from 10-4-1917.
Ditto ditto ...	Akshay Kumar Sen ...	P. of a Magte., 1st class, and under secs. 110, 133, 260, 407(2) and 565. In charge of the Vishnupur subdivision.
Sub-Deputy Collr.	Atul Bihari Gosain ...	Ditto, 1st class. At Vishnupur.
Ditto	Mriganka Bhushan Ray ...	Ditto, 3rd class. At Sadar.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
	Bakarganj.	
Munsif of Bhola	Daibaki Lal Sen Gupta ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (*b*) of the B. T. Act. P. under Act VII of 1889.
Ditto ditto	Sushil Chandra Mitra ...	P. of a s. c. c. judge up to Rs. 100.
Ditto Pirojpur ...	Nirmal Chandra Mitra ...	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889. P. under sec. 153, cl. (*b*) of the B. T. Act.
Ditto ditto	Upendra Lal Das Gupta ...	P. of a s. c. c. judge up to Rs. 50.
Ditto ditto	Gobinda Chandra Chakrabatti (*offg.*).	
Ditto Patuakhali ...	Krishna Kumar Sen ...	P. of a s. c. c. judge up to Rs. 100 and under Act VII of 1889. P. under sec. 153, cl. (*b*) of the B. T. Act.
Ditto ditto	Akshay Kumar Chakrabatti Bidyabhushan.	P. of a s. c. c. judge up to Rs. 100.
Ditto ditto	Hasibuddin Ahmad ...	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889.
Ditto ditto	Surendra Krishna Ghosh ...	P. of a s. c. c. judge up to Rs. 100. P under Act VII of 1889. P. under sec. 153, cl. (*b*), of the B. T. Act.
Assistant Inspector of Schools ...	Rai Sahib Aswini Kumar Das Alfazuddin Ahmad (*offg.*). ...	Offg. Asstt. Inspr. of Schools, Bu dwan Divn.
Inspector of Registration offices	Satish Chandra Mukharji.	
Head Master, Barisal Zilla School	Kshirod Chandra Sen.	
District Sub-Registrar ...	Abdul Halim (*offg.*).	
Deputy Inspector-General of Police, Bakarganj Range.	R. B. Hyde (*offg.*).	
Superintendent of Police ...	P. L. Faulkner.	
Additional Superintendent of Police.	A. W. Shallow.	
Asstt. Supdt. of Police ...	W. S. C. Macpherson.	
Deputy Superintendent of Police	Bhowani Nath Nandi ...	At Patuakhali.
Civil Surgeon	Rai Ananda Lal Bose Bahadur (*offg.*)	Also Superintendent of Jails
Civil Assistant Surgeon, Barisal Dispensary.	Ashutosh Datta.	
Civil Asst. Surgeon, Patuakhali Subdivision and Dispensary.	Monoj Nath Gupta ...	Tempy. Asstt. Surgeon.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
Bakarganj.		
Civil Asst. Surgeon, Bhola Subdivision and Dispensary.	Khagendra Binod Singh.	
Civil Asst. Surgeon, Pirojpur Subdivision and Dispensary.	Khagendra Mohan Basu ...	Tempy. Asstt. Surgeon.
Executive Engineer ...	Paresh Charan Chattopadhyay.	
Sub-Engineer	Nanda Lal De.	
District Engineer	H. O'Brien, C.E., M.S.E.	
BANKURA.		
(District head-quarters, Bankura.)		
Magte. and Collr.	J. Vas.	
Deputy Magte. and Dy. Collr. ...	Akhil Kumar Chatarji ...	P. of a Magte., 1st class, and under secs. 110, 133 and 565. Certificate Officer. In charge of the treasury.
Ditto ditto ...	Gyanada Prasad Ghose ...	Ditto, 1st class, and under secs. 260, 407 (2) and 565 (1) (3). Sadar Subdivisional Officer.
Ditto ditto ...	J. A. Beale	Ditto, 1st class, and under secs. 110 and 565.
Ditto ditto ...	Aminuzzaman Khan ...	Ditto, 1st class, and under sec. 565, P. under Act I of 1894.
Ditto ditto ...	Brajabandhu Bhaumik ...	Ditto, 2nd class. Pr. Iv. for 6 weeks from 10 4-1917.
Ditto ditto ...	Akshay Kumar Sen ...	P. of a Magte., 1st class, and under secs. 110, 133, 260, 407(2) and 565. In charge of the Vishnupur subdivision.
Sub-Deputy Collr.	Atul Bihari Gosain ...	Ditto, 1st class. At Vishnupur.
Ditto	Mriganka Bhushan Ray ...	Ditto, 3rd class. At Sadar.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
Bankura.		
*Sub-Deputy Collector (s. p. t.) ...	Muhammad Ismail ...	P. of a Magte., 3rd class.
Supdt. of Excise and Salt ...	J. C. Vyse.	
Ditto (Proby.) ...	Abdun Naim.	
District and Sessions Judge[a]	J. Johnston (*offg.*).	
Sub-Judge	Sharat Kishor Basu	P. of a s. c. c. judge up to Rs. 500.
Munsif of Bankura	Subodh Kumar Bhattacharji ...	P. of a s. c. c. judge up to Rs. 100.
Ditto ditto	Santosh Sil Banarji	P. of a s. c. c. judge up to Rs. 50.
Ditto ditto	Usman Ali	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889. P. under sec. 153, cl. (b) of the B. T. Act. P. to try orgl. suits up to Rs. 2,000.
Ditto Khatra	Narayan Chandra Ghosh ...	P. of a s. c. c. judge up to Rs. 100 and under Act VII of 1889. P. under sec. 153, cl. (b) of B. T. Act.
Ditto Vishnupur	Basanta Kumar Pal	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889. P. under sec. 153, cl. (b) of the B. T. Act.
Ditto ditto	Kumud Kanta Sen	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (b) of the B. T. Act.
Ditto ditto	Kishori Mohan Basu	P. of a s. c. c. judge up to Rs. 50. On deptn. to Khatra.
District Sub-Regr.	Tarak Nath Biswas.	
Supdt. of Police	C. H. Waterworth.	
Civil Surgeon	Dr. V. L. Watts	Also Superintendent of Jails.
District Engineer	Suresh Chandra Chatarji, B.C.E.	
BIRBHUM.		
(District head-quarters, Suri.)		
Magte. and Collr.	Guru Saday Dutt.	
Dy. Magte. and Dy. Collr. ...	Makhan Lal Chatarji ...	P. of a Magte., 1st class, and under secs. 110, 133, 143, 144, 174, 186, 190(1) (a) (b) (c), 260, 524 and 565. In charge of the Sadar subdivision. P. under Act I of 1894.
Dy. Magte. and Dy. Collr. ...	A. G. Allison	Ditto. 1st class. Certificate Officer. In charge of the treasury.
Ditto ditto	Satish Chandra Mazumdar ...	Ditto, 1st class, and under sec. 565.

*Every District Judge shall, in cases in which an appeal is allowed, take down evidence with his own hand in English.

(a) *Ex-officio* Special Judge under section 109A of the Bengal Tenancy Act.

All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist), employed in the districts of Bengal are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
	Birbhum.	
Dy. Magte. and Dy. Collr. ...	Tarak Chandra Roy ...	P. of a Magte., 1st class, and under secs. 110, 137, 260 and 565. In charge of the Rampur Hât subdivision.
Sub-Deputy Collector	Haripada Ray	Ditto, 2nd class. Chaukidari Circle Officer. At Sadar. Pr. lv. for 6 weeks from 24-2-1917.
Ditto	Debendra Nath Mukharji ...	Ditto, 2nd class. Chaukidari Circle Officer.
Ditto	Aswini Kumar Gangali ...	Ditto, 3rd class. Chaukidari Circle Officer. At Rampur Hât.
Ditto (*s. p. t.*) ...	Ali Asghar	Ditto. 2nd class. At Rampur Hât.
Ditto (*s. p. t.*) ...	Satkari Lal De	Ditto, 3rd class. At Suri.
Supdt of Excise and Salt ..	Prasanna Kumar Banarji ...	Pr. lv. from 18-9-1916 to 29-9-1916 with permission to affix the Puja holidays.
Dist and Sessions Judge * † ...	G. B. Mumford.	
Sub-Judge	Nagendra Nath Chatarji ...	P. of a s.c.c. judge up to Rs. 500.
Munsif of Suri	Debabrata Mukharji ...	P. of a s.c.c. judge up to Rs. 100. P. under sec. 153, cl. (*b*) of the B. T. Act. P. to try orgl. suits up to Rs. 2,000.
Ditto Dubrajpur ...	Gyanendra Mohan Das ...	P. of a s.c.c. judge up to Rs. 100 and under Act VII of 1889. P. under sec. 153, cl. (*b*) of the B. T. Act.
Ditto Bolpur	Bagala Prasanna Basu ...	P. of a s.c.c. judge up to Rs. 50.
Ditto ditto	Sarada Prasad Banarji ...	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889. P. under sec. 153, cl. (*b*) of the B. T. Act.
Ditto Rampur Hât ...	Nishi Kanta Guha	P. of a s.c.c. judge up to Rs. 100. P. under Act VII of 1889. P. under sec. 153 (*b*) of the B. T. Act.
Ditto ditto ...	Satish Ranjan Chatarji ...	P. of a s. c. c. judge up to Rs. 50.
Dist. Sub-Regr.	Abinash Chandra Mitra.	
Supdt. of Police	W. M. C. Plowden.	
Dy. Inspr. of Schools, Birbhum	Amrita Lal Chatarji (*offg.*).	

* Every District Judge shall, in cases in which an appeal is allowed, record evidence in English with his own hand (*vide* Notification No. 76 J., dated the 9th January 1913).

† The District Judge of Birbhum is a Special Judge in the district of Birbhum for the purpose of hearing appeals under sec. 109A of the Tenancy Act (*Vide* Notification No. 633 L.R., dated the 4th March 1913).

All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist), employed in the districts of Bengal are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
Birbhum.		
Head Master, Birbhum Zilla School.	Abinash Chandra Sen.	
Civil Surgeon	Asst. Surgeon Ambica Charan Datta (*offg.*)	
District Engineer	Saradindu Ray.	
Bogra.		
(District head-quarters, Bogra.)		
Magte. and Collr.*	J. C. French (*offg.*).	
Dy. Magte. and Dy. Collr. ...	Nripendra Chandra Bose ...	P. of a Magte., 1st class, and under secs. 110, 260 and 565. P. under Act I of 1894. In charge of the Sadar Subdivision.
Ditto ditto ...	Satyendra Nath Sen ...	Ditto. 1st class, and under secs. 133, 260 565. P. under Act I of 1894.
Ditto ditto ...	Muhammad Gholam Quadir ...	Ditto. 1st class, and under secs. 260 and 565.
Ditto ditto ...	Gunamay Chatarji	Ditto. 1st class. In charge of the treasury.
Sub-Dy. Collr.	Bijay Krishna Sen	In charge of Jaipur Government Estate.
Ditto	Daliluddin Ahmad	Ditto. 2nd class. Chaukidari Circle Officer.
Ditto	Muhammad Amjad Ali ...	Ditto. 2nd class. Chaukidari Circle Officer.
Ditto (Proby.) ...	Mafizuddin Fakir.	
Supdt. of Excise and Salt ...	Muhammad Chainuddin ...	Also Supdt. of Excise and Salt, Pabna.
D. and S. Judge	D. and S. Judge of Pabna.	
Sub-Judge	Purna Chandra Basu ...	P. of an Asst. Sessions Judge. P. of a s. c. c. judge up to Rs. 500. P. under Act VII of 1889. Is a District Delegate.

* P. under sec. 15 of the Lepers Act, 1898.

All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist), employed in the districts of Bengal are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886.

The District Judge of Bogra is *ex-officio* a Special Judge for the purpose of hearing the appeals from the decision of Revenue officers employed under the Tenancy Act—2nd April 1895.

The Sub-Judge of Bogra is *ex-officio* a special Judge for the purpose of hearing appeals from the decision of the Settlement Officer in that district under secs. 105 and 106 of the Bengal Tenancy Act—21st February 1912.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
Bogra.		
Munsif of Bogra	Srish Chandra Banarji ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (*b*), of the B. T. Act.
Ditto ditto	Amrita Lal Banarji ...	P. of a s. c. c. judge up to Rs. 50.
Ditto ditto	Phanindra Nath Mitra ...	P. of a s. c. c. judge up to Rs. 50.
Special Sub-Regr.	Abdul Khaleq.	
Supdt. of Police	H. A. S. Burt.	
Dy. Supdt. of Police ...	Adhar Chandra Bose (*offg.*).	
Dy. Inspr. of Schools, Bogra ..	Gobinda Chandra Chakrabatti (*offg.*).	
Head Master, Bogra Zilla School	Bharat Bandhu Laha.	
Civil Surgeon*	Kumar Bhabendra Narayan ...	Offg. Civil Surgeon, Tippera.
	Asst. Surgn. Lalit Mohan Ray (*offg.*).	
District Engineer	Purna Chandra Bhattacharji.	
Burdwan.		
Divisional head-quarters, Chinsura, Hooghly.		
District head-quarters, Burdwan.		
Magte. and Collr.	P. H. Waddell (*offg.*) ...	Member, Mining Board, Bengal Presidency.
Dy. Magte. and Dy. Collr. ...	Rai Bhupendra Nath Gupta Bahadur.	P. of a Magte., 1st class, and under secs. 110, 133, 260, 407 (2), 524, and 565. In charge of partition. In charge of the Sadar subdivision.
Ditto ditto ...	Gyanendra Chandra Mukharji ...	Ditto, 1st class, and under secs. 110, 133, 186, 260, 524 and 565. In charge of the Treasury.
Ditto ditto ...	Abdul Bari	Ditto, 1st class, and under secs. 110, 133, 260, 524 and 565.
Ditto ditto ...	Praphulla Chandra Ghosh ...	Ditto, 1st class, and under secs. 110, 260 and 565. Certificate Officer. P. under Act I of 1894.
Ditto ditto ...	Girish Chandra Sen ...	Ditto, 1st class, and under sec. 565.
Ditto ditto ...	Sushil Kumar Gangali ...	Ditto, 1st class, and under secs. 110, 190 (*1*)(c), 260 and 565. In charge of the Kalna subdivn. P. under Act I of 1894.

The senior Munsif of Bogra is vested with *ex-officio* functions of a District Court, under sec. 29, sub-sec. (*1*) of Act VII of of 1889—4th May 1909.

* The Civil Surgeon of Bogra is the Inspector of Lepers in the district of Bogra.

Every District Judge shall in cases in which an appeal is allowed, record evidence in English with his own hand (*vide* Notification No. 76 J., dated the 9th January 1913).

All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist), employed in the districts of Bengal are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886.

All Subdivisional officers are registering officers under sec. 24 of Act XVII of 1908, and are vested with powers of a Collr. under secs. 12—15 and 69—71 of Act VIII of 1885.

Every Subdivisional officer and every Deputy and Sub-Deputy Magistrate attached to a subdivision are appointed under sections 33 and 68 of Assam Labour and Emigration Act, VI of 1901, to be registering officers within the limits of the subdivision to which they are respectively appointed.

All subdivisional officers are appointed to be Superintendents of Emigration under sub-section (1) of section 4 of the Assam Labour and Emigration Act, VI of 1901, within the limits of their respective subdivisions for the purposes of sections 42 to 55 of the said Act.

The Sub-Registrar of Raniganj is a registering officer of emigrants under sec. 24 of Emigration Act XVII of 1908.

The Sub Deputy Collector of Asansol is a part-time Reassessment Officer of the Asansol Municipality.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	Burdwan.	
Dy. Magte. and Dy. Collr. ...	Sati Prasanna Sarkar ...	P. of a Magte., 3rd class.
Supdt. of Excise and Salt ..	F. A. Wilson.	
Offg. Jt.-Magte. and Dy. Collr.	H. P. V. Townend	P. of a Magte., 1st class and under sec. 260. In charge of the Asansol subdivn.
Dy. Magte. and Dy. Collr. ...	Paramesh Prasanna Ray ...	Ditto, 1st class, and under secs. 110, 133, 500 and 562.
Ditto ditto ...	Saiyid Izhar Hasan ...	Ditto, 1st class. At Asansol.
Ditto ditto ...	Amba Nath Chatarji ...	Ditto, 1st class, and under secs. 110, 133, (Temporarily.) At Asansol. Allowed pr. lv. for 3 months from 10-4-1917.
Ditto ditto ...	Jatindra Mohan Banarji ...	Ditto, 1st class, and under secs. 110, 133 190(1) (c), 260, 524 and 565. P. under Act I of 1894. In charge of the Katwa subdivn.
Sub-Dy. Collr.	Surendra Nath Banarji (No. I) ...	Ditto, 2nd class. Chaukidari Circle Officer. At Sadar.
Ditto	Ashutosh Deb	Ditto, 2nd class. At Kalna. Chaukidari Circle Officer.
Ditto	Kshetra Mohan Mukharji ...	Ditto, 2nd class. At Sadar.
Ditto	Surendra Chandra Acharji ...	Ditto, 2nd class. At Kalna.
Ditto	Abhay Charan Chatarji ...	Ditto, 2nd class. At Sadar. Chaukidari Circle Officer.
Ditto	Shailesh Nath Mukharji ...	Ditto, 2nd class. At Sadar. Chaukdari Circle Officer.
Ditto	Abinash Chandra Barman ...	Ditto, 2nd class. At Katwa.
Ditto	Norman Bose ...	Ditto, 2nd class. At Katwa. Chaukidari Circle Officer.
Ditto	Amulya Chandra Datta ...	Ditto, 2nd class. At Asansol.
Ditto	Ekramuddin	Ditto, 3rd class. At Sadar.
Ditto	Jagadish Chandra Lahiri ...	Ditto, 2nd class. At Katwa.
Ditto (*s. p. t.*) ...	Jyotish Chandra Gupta ...	Ditto, 3rd class. At Sadar.
Settlement Officer	Satamanyu Mukharji ...	P. of a Rev. officer and Settlt. Officer. Also Supdt. of Surveys.
Dist. and Sessions Judge[a] ...	Gyanendra Nath Ray.	
Addl. D. and S. Judge ...	C. H. Moseley	Also Addl. D. and S. Judge, Midnapore.

All Subdivisional officers are registering officers under sec. 24 of Act XVII of 1908, and are vested with powers of a Collr. under secs. 12—15 and 69—71 of Act VIII of 1885.

Every Subdivisional officer and every Deputy and Sub-Deputy Magistrate attached to a subdivision are appointed under sections 33 and 68 of the Assam Labour and Emigration Act, VI of 1901, to be registering officers within the limits of the subdivision to which they are respectively appointed.

All subdivisional officers are appointed to be Superintendents of Emigration under sub-section (1) of section 4 of the Assam Labour and Emigration Act, VI of 1901, within the limits of their respective subdivisions for the purposes of sections 42 to 55 of the said Act.

The Sub-Registrar of Raniganj is a registering officer of emigrants under sec. 24 of Emigration Act XVII of 1908.

[a] The District Judge of Burdwan is an *ex-officio* Special Judge in the district of Burdwan under 109A of the Bengal Tenancy Act (*vide* Notfn. No. 633 L.R., dated the 4th March 1913).

Every District Judge shall, in cases in which an appeal is allowed, record evidence in English with his own hand.

All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist) employed in the districts of Bengal are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	Burdwan.	
Sub-Judge	Binod Bihari Mitra ...	Combd. lv. for 6 mos. + 2 mos. + 2 mos. from 5-6-1916.
Ditto	Kali Prasanna Sen (*offg.*) ...	P. of a s. c. c. judge up to Rs. 500.
Ditto	Nagendra Nati Ghosh (*offg.*).	
Munsif of Burdwan ...	Hemendra Lal Singh ...	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889. P. under sec. 153 cl. (*b*), of the B. T. Act. P. to try origl. suits up to Rs. 2,000.
Ditto	Khirodeswar Banarji ...	P. of a s. c. c. judge up to Rs. 50.
Ditto	Amulya Charan Chakrabatti (*offg.*).	
Ditto	Tej Chandra Mukharji (*offg.*) ...	Now employed as Addl. Munsif, Faridpur.
Munsif of Katwa	Haripada Banarji	P. of a s. c. c. judge up to Rs. 100 and under Act VII of 1889. P. under sec. 153, cl. (*b*), of the B. T. Act.
Ditto	Nagendra Kumar Basu ...	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889. P. under sec. 153, cl. (*b*), of the B. T. Act.
Munsif of Asansol	Abus Sobah Muhammad Ziyaur Rahman.	P. of a s. c. c. judge up to Rs. 100 and under Act VII of 1889. P. under sec. 153, cl. (*b*), of the B. T. Act.
Ditto (Addl.) ...	Dinesh Chandra Sen (*offg.*).	
Munsif of Kalna	Lal Bihari Chatarji ...	P. of a s. c. c. judge up to Rs. 100 and under Act VII of 1889. P. under sec. 153, cl. (*b*), of the Tenancy Act.
Dist. Sub-Regr.	Charu Chandra Mitra.	
Supdt. of Police	M. L. Casey.	
Asst. Supdt. of Police ...	G. C. Sturgis	At Asansol.
Dy. Supdt. of Police ...	Bhabesh Charan Das ...	At Pirojpur.
Ditto	A. J. M. Matthews.	
Dy. Inspr. of Schools, Burdwan	Amrita Lal Chatarji.	
Chaplain of Asansol and Raniganj.	Rev. D. H. G. Dunne.	

All Subdivisional officers are registering officers under sec. 24 of Act XVII of 1908, and are vested with powers of a Collr. under secs. 12—15 and 69—71 of Act VIII of 1885.

Every Subdivisional officer and every Deputy and Sub-Deputy Magistrate attached to a subdivision are appointed under sections 33 and 68 of the Assam Labour and Emigration Act, VI of 1901, to be registering officers within the limits of the subdivision to which they are respectively appointed.

All subdivisional officers are appointed to be Superintendents of Emigration under sub-section (1) of section 4 of the Assam Labour and Emigration Act, VI of 1901, within the limits of their respective subdivisions for the purposes of sections 42 to 55 of the said Act.

The Sub-Registrar of Raniganj is a registering officer of emigrants under sec. 24 of Emigration Act XVII of 1908.

The District Judge of Burdwan is an *ex-officio* Special Judge in the district of Burdwan under 109A of the Bengal Tenancy Act (*vide* Notfn. No. 633 L.R., dated the 4th March 1913).

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
Burdwan.		
Civil Surgeon	Babu Satish Chandra De (*offg.*).	
Civil Asst. Surgn., Burdwan Fraser Hospital.	Mathura Nath Bhattacharji.	
Civil Asst. Surgn., Asansol subdivision.	Rash Bihari Bakshi ...	Also Inspector of Lepers in the Asansol subdivn.
Dist. Engineer	Jatindra Nath Mallik, B.E.	
Asst. Engineer	Adya Nath Bose	Asansol.
Chittagong.		
(District and Divisional head-quarters, Chittagong.)		
Commissioner*	Kiran Chandra De, C.I.E., (*offg.*).	Is *ex-officio* Chief Customs Officer in the Port of Cox's Bazar. P. of an I.-G. of Police in the Chittagong Hill Tracts under sec. 3, Act VII (B.C.) of 1869. Has power *ex-officio* to hear appeals from the decision of the Forest Settlement Officer. Chairman of the Commissioners for the Port of Chittagong.
Personal Asst. to Commr. ...	Anadi Ranjan Basu.	
Magte. and Collr.	A. H. Clayton.	
Jt. Magte. and Dy. Collr. ...	L. S. Bingemann ...	P. of a Magte., 1st class and under secs. 110, 133, 190 (*1*) (*a*) (*b*) (*c*), 407, 524 and 565. Also Spl. Magte. for 6 mos. for Tippera and Noakhali.
Dy. Magte. and Dy. Collr. ...	Suresh Chandra Sen (No. I.) ...	Ditto, 1st class and under secs. 108, 110, 133, 144, 260, 407,(*2*), 524 and 565.
Ditto ditto ...	Nihar Ranjan Banarji ...	Ditto, 1st class, and under secs. 110, 133, 190 (*1*) (*c*), 260 and 565. P. under Act I of 1894. In charge of the Sadar subdivision.
Ditto ditto ...	Mustafizur Rahman Khan ...	Ditto, 1st class, and under secs. 110, 260 and 565.
Ditto ditto ...	Satyendra Nath Mustafi ...	Ditto, 1st class, P. under Act I of 1894.
Ditto ditto ...	Nalini Ranjan Raha ...	Ditto, 1st class and under sec. 565. In charge of the treasury.
Ditto ditto ...	Manindra Bhushan Datta ...	Ditto, 1st class and under sec. 565.
Ditto ditto ...	Praphulla Chandra Gupta.	
Ditto ditto ...	G. D. Pyne	Ditto, 1st class, and under sec. 260. In charge of the Cox's Bazar subdivision.

The Collector of Chittagong is vested with P. of an Asst. Commr. under sec. 3 of the Indian Salt Act, X of 1882.

*Has in the Chittagong Hill Tracts the powers (*a*) of a Sessions Judge under sec. 8 of the Chittagong Hill Tracts Regln. I of 1900, (*b*) of a High Court for all purposes other than the confirmation of sentences of death under sec. 9 of the same Regln., and (*c*) of hearing appeals from all orders passed in the civil suits under rule 10 of the Rules for the administration of the Chittagong Hill Tracts.

All Subdivisional officers are vested with powers of a Collr. under Act XIX of 1883, as amended by Act XVIII of 1890.

The Subdivisional Officer, Cox's Bazar, Chittagong, draws a local allowance of Rs. 100 a month.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
	Chittagong.	
Sub-Dy. Collr.	Akshay Kumar Ghosh ...	P. of a Magte., 3rd class. In charge of Sadar Khas Tahsil.
Ditto	Rebati Raman Barua ...	Ditto, 2nd class. At Sadar.
Ditto	Zahurul Qaiyam ...	Ditto, 2nd class. At Cox's Bazar.
Ditto	Purna Chandra Das ...	Khas Tahsildar, Cox's Bazar.
Ditto	Rash Bihari Sen	Khas Tahsildar, Satkania.
Ditto	Debendra Nath Guha ...	Khas Tahsildar, Raojan.
Ditto	Uma Charan Barua ...	Khas Tahsildar, Patiya.†
Ditto (s. *p. t.*) ...	Apurba Ranjan Barua ...	P. of a Magte. 3rd class. At Kutubdia.
Ditto (do.) ...	Elamuddin Khan ...	Ditto, 3rd class. At Sadar.
Supdt. of Excise	R. N. Thorpe.	
Deputy Conservator of Forests Chittagong Division.	J. Homfray.	
Extra Asst. Conservator of Forests attached to Chittagong Division.	Paresh Nath Mukharji.	
Port Officer, Chittagong ...	B. H. Jones ... ... Commdr. H. Morland, R.I.M. (sub. *pro tem.*).	*Ex-officio* Surveyor of cargo-boats and Shipping Master of Chittagong. On Mily. duty.
Offg. Collr. of Customs, Chittagong.	W. W. Nind (*offg.*).	
Supdt. of Customs at the Port of Nillah.	Supdt. of Customs, Maungdaw.	

All Subdivisional Officers are registering officers under sec. 28 of Act XXI of 1865, and are vested with powers of a Collr. under secs. 12-15 and 69-71 of Act VIII of 1885 and under Act XIX of 1853, and as amended by Act VIII of 1899.

The Sub-Dy. Collr. stationed in the Island of Kutubdia in the Chittagong district is granted a fixed travelling allowance of Rs. 20 per mensem—*vide* letter from the Govt of India, Dept. of Revenue and Agriculture, No. 2000—471-12, dated the 7th December 1906.

† Forest Settlement Officer under Chapter II of Act VII of 1878.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
Chittagong.		
D. & S. Judge* (a) ...	J. C. Twidell ...	President of the Bench of Commrs. for the trial of offences under the Defence of India Act in the Chittagong Division.
Addl. D. & S. Judge† ...	G. P. Hogg (*offg.*)	Also Addl. D. . S. Judge, Tippera.
Sub-Judge	Surendra Nath Ghosh ...	P. of a s. c. c. judge up to Rs. 500. Furlough from 10-8-1916 to 27-3-1917.
Ditto	Banwari Lal Banarji (*offg.*).	
Ditto	Jagadish Chandra Gosain (*offg.*)	P. of a s. c. c. judge up to Rs. 500.
Ditto (Addl.)	Kunja Bihari Biswas (*offg*).	
Munsif of Chittagong ...	Kunja Bihari Biswas ..	P. of a s. c. c. judge up to Rs. 100. P., under Act VII of 1889. P. under sec. 153 (*b*) of the Bengal Tenancy Act. P. to try orgl. suits up to the value of Rs. 2,000. Offg. Sub-Judge, Chittagong.
Ditto ditto ...	Trailokya Nath Ray ...	P. of a s. c. c. judge up to Rs. 100. Now employed at Hathazari.
Ditto ditto ...	Debendra Nath Sen Gupta ...	P. of a s. c. c. judge up to Rs. 100.
Ditto ditto (Addl.) ...	Satchidananda Gupta (*offg.*).	
Ditto ditto ...	Surendra Chandra Basu (*offg.*).	
Ditto ditto ...	Sitesh Chandra Sen (*offg.*).	
Ditto South Raojan ...	Kumad Nath Ray ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153 cl. (*b*) of the Act.
Ditto North Raojan ...	Shashi Jiban Sen	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (*b*) of the B. T. Act.
Ditto Patiya ...	Srish Kumar Som	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (*b*), of the Bengal Tenancy Act.
Ditto ditto ...	Jitendra Nath Sen ...	P. of a s. c. c. judge up to Rs. 50. Priv. lv. for 1 mo. and 23 days from 15-2-1917.
Ditto ditto ...	Abinash Chandra Ghosh Hazra...	P. of a s. c. c. judge up to Rs. 50.
Ditto ditto ...	Gyanendra Nath Ghosh (*offg.*).	
Ditto Phatikchari ...	Surjyamani De	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (*b*), of the Bengal Tenancy Act.
Ditto Satkania ...	Ashwini Kumar Das ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (*b*), of the Bengal Tenancy Act.
Ditto ditto ...	Manmohan Banarji ...	P. of a s. c. c. judge up to Rs. 50.
Ditto ditto (Addl.) ...	Nikunja Bihari Banarji (*offg.*) ...	Now employed at Patiya.

* *Ex-officio* a special Judge for the purpose of hearing appeals from the decisions of Revenue officers employed under Bengal Tenancy Act in the district.
(a) *Ex-officio* special Judge under section 190A of the B. T. Act in the district of Chittagong.
† Will sit at Chittagong from 16th April 1917.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
	Chittagong.	
Munsif of Cox's Bazar ...	Nani Gopal Mukharji (No. II) ...	P. of a s. c. c. judge up to Rs. 100 and under sec. 153, cl. (b), of the B. T. Act.
Ditto Hathazari ...	Gopal Das Ghose	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (b), of the Bengal Tenancy Act. Furlough from 24-11-1916 to 24-3-1917.
Special Sub-Registrar ...	Abdul Majid.	
Supdt. of Police	F. P. Walker.	
Asstt. Supdt. of Police (Proby.)	S. H. H. Mills.	
Dy. Supdt. of Police ...	R. C. Durup de Dombal.	
Principal, Chittagong College ...	J. R. Barrow.	
Professor, ditto ...	Jogeswar Ghosh	Services lent to the Ananda Mohan College, Mymensingh.
Ditto, ditto ...	Kshitish Chandra Ray.	
Ditto, ditto ...	Purna Chandra Kundu.	
Ditto, ditto ...	Jiban Mohan Basu.	
Ditto, ditto (tempy.) ...	Binay Kumar Sen	Offg. Professor, Presy. College.
Ditto, ditto ...	Akshay Kumar Sarkar (*offg.*)	
Ditto, ditto ..	Surendra Nath Das Gupta.	
Ditto, ditto ...	Basanta Kumar Ray.	
Ditto, ditto ...	Muhammad Sonaullah.	
Ditto, ditto ...	Mahima Ranjan Barua.	
Law Lecturer, ditto ...	Rajani Ranjan Sen.	
Supdt., Chittagong Madrasa ...	Shams-ul-'Ulama Kamaluddin Ahmad.	On leave.
	Muhammad Hossein (*offg.*).	
Inspr. of Schools	J. W. Gunn	Offg. Inspector of Schools, Dacca Divn.
	M. P. West (*offg.*).	

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	Chittagong.	
Offg. 2nd Inspr. of Schools, Chittagong Divn.	Kabiruddin Ahmad ...	Offg. Addl. Inspr. of Schools, Burdwan Divn.
Assistant Inspector of Schools, Chittagong Division.	Khan Sahib 'Abdul 'Aziz (No. I).	
Ditto ditto ...	Kali Pada Sarkar.	
Asst. Inspr. of Schools for Muhammadan Education, Chittagong Division.	Saiyid Mohsin Ali.	
Deputy Inspr of Schools ...	Ramesh Chandra Das.	
Supdt., Chittagong Training School.	Guru Bandhu Bhattacharji.	
Civil Surgeon*	Dr. E. E. Francis	Officiating, in addition to his own duties, a Chief Medical Officer, A.-B. Ry.
Supdt. of Jail, Chittagong ...	Dr. E. E. Francis.	
General Hosptl., Chittagong ...	Asst. Surgeon Satish Chandra Ghosh.	
Civil Asst. Surgeon in charge of the Cox's Bazar subdivn. and dispy.*	Jatindra Shankar Ray ...	Tempy. Asst. Surgeon.
Chaplain of Chittagong ...	H. T Millet.	
Port Health Officer ...	Jogendra Nath Basu.	
Port Engr., Chittagong ...	G. E. Bennet.	
Engr. and Shipwright-Surveyor	G. Hull, B.I.M.	
Ex. Engr., Chittagong Division	W. J. Kerr.	
Sub-Engineer	Surendra Nath Bhattacharji.	
Govt. Examiner, A.-B Railway	Manindra Kumar Mitra.	
District Engineer	F. H. Hodgkins.	
Supdt. of Agriculture, Chittagong Divn.	Daijadas Datta.	

*The Civil Surgeon of Chittagong and the Medical officer in charge of the Dispensary at Cox's Bazar are Inspectors of Lepers within the district of Chittagong and the Municipality of Cox's Bazar, respectively.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
CHITTAGONG HILL TRACTS*.		
(District head-quarters, Rangamati.)		
Supdt.	O. Mawson.	
Asst. Supdt.	A. J. W. Harris	P. of a magte., 1st class, and under sec. 562.
Ditto	R. W. A. Ashe	Ditto. 1st class.
Sub-Dy. Collr.	Nagendra Nath Diwan ...	Ditto. 2nd class.
Depy. Consr. of Forests ...	L. E. S. Teague.	
Civil Surgeon	Sarasi Lal Sarkar (*offg.*).	
District Engineer	G. A. Bell.	
DACCA.		
(Divisional and District head-quarters, Dacca.)		
Commissioner	F. C. French	*Ex-officio* Chief Customs Officer in the Port of Narayanganj.
Personal Asst. to Commr. ...	Nazirnddin Ahmad.	
Magte and Collr.	S. G. Hart.	

* Officers to be appointed to the charge of the district of Chittagong Hill Tracts should be drawn from the Indian Civil Service, the Police or the Provincial Civil Service, and receive their graded salary with a local allowance of Rs. 200 a month.

The Deputy Magistrates stationed in the Chittagong Hill Tracts draw a local allowance of Rs. 75 per mensem each.

Sub-Deputy Collectors posted to the Chittagong Hill Tracts draw a local allowance of Rs. 25 each per mensem, subject to the condition that the total salary inclusive of the allowance, of any officer does not exceed Rs. 250.

The Assistant Superintendent of the Chittagong Hill Tracts and the senior and junior Sub-Dy. Collrs. stationed in the Chittagong Hill Tracts are *ex-officio* Registering officers.

The senior Dy. Magte. at the Sadar station is *ex-officio* a visitor of the lunatic asylum in the absence of the Joint-Magte.

All Subdivisional Officers are registering officers under sec. 28 of Act XXI of 1883, and are vested with powers of a Collr. under secs. 12—15 and 49—71 of Act VIII of 1885 and under Act XIX of 1883, as amended by Act XVIII of 1899.

The officer in charge of the Chittagong Hill Tracts draws a local allowance of Rs. 200 a month (*vide* Government Order No. 124 P.—D., dated the 1st May 1900)

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
Dacca.		
Addl. Dist. Magte.* ...	F. W. Robertson	For six months.
Asstt. Magte. and Collr. ...	D. G. Davies	P. of a magte., 3rd class.
Dy. Magte. and Dy. Collr ...	Kailas Gobinda Das ...	P. of a magte., 1st class, and under secs. 110, 133, 186, 190 (*1*) (*c*), 206, 524 and 565.
Ditto ditto ...	Nagendra Chandra Sen ...	Ditto, 1st class, and under secs. 110, 133, 144, 260 and 565.
Ditto ditto ...	Ashutosh Chatarji ...	Ditto, 1st class, and under secs. 110, 133 and 565. Certificate Officer.
Ditto ditto ...	Suresh Chandra Singh ...	Ditto, 1st class, and under secs. 110, 133, 260 and 565. Commr. for the trial of offences under the Defence of India Act in the Dacca Divn. In charge of the Sadar subdivision.
Ditto ditto ...	Dwijendra Mohan Sen ...	Ditto, 1st class, and under secs. 110, 133, 186, 190 (*1*) (*c*), 260, 524, 560, and [illegible]. P. under Act I of 1891. P. under Act [illegible] of 1886. Pr. lv. for 1 mo. and 5 days from 1-3-1917.
Ditto ditto ...	Adwaita Charan Samanta ...	Ditto, 1st class and under secs. 133 and 565.
Ditto ditto ...	Hamidur Rahman	Ditto, 2nd class.
Ditto ditto ...	Madhu Sudan Das ...	Ditto, 1st class, and under secs. 110, 133 and 565. Employed as Allocation Officer of the Bhowal Court of Wards Estate, in addition to his duties.
Ditto ditto ...	Hemendra Nath Naudi ...	Ditto, 1st class, and under secs. 110, 260, and 565. Certificate Officer.
Ditto ditto ...	Upendra Nath Ghosh ...	Ditto, 2nd class. Transferred temply. to Faridpur.
Ditto ditto (s. *p. t.*) ...	Upendra Chandra Dutt ...	Ditto, 3rd class.
Ditto ditto (Proby.) ..	Qamaruddin Muhammad.	

* The Additional District Magte. of Dacca has been appointed to perform the functions of a Collector under sec. 87 of the Land Registration Act, VII (B.C.) of 1876, as amended by Act I (Eastern Bengal and Assam Council) of 1907 and also by section 61 of the Bengal Land Revenue Sales Act, XI of 1859, as amended by Act VII (B.C.) of 1868. Has *ex-officio* powers under Act II of 1886 (*vide* Notfn. No. 169 T.—S.R., dated the 23rd May 1913.

The said officer is also vested with the powers of an inspecting officer under rules 12 and 19, pages 59 and 64 of the Board's Rules, 1902, and under rule 1, page 1 of the Board's Inspection Manual, 1902—(Notfn. No. 1800 R., dated the 28th June 1909).

The Addl. Dist. Magte. has *ex-officio* powers of a Collr. under the Indian Stamp Act II of 1899—Finl. Dept. No. 249 T.—S.R., dated the 12th June 1913.

The Addl. Dist. Magte. has *ex-officio* powers of a Collr. under Eastern Bengal and Assam Excise Act I of 1910, subject to the control of the Collr. of the District—Finl. Dept. Notfn. No. 294 T.—S.R., dated the 16th June 1913.

The Addl. Dist. Magte. has *ex-officio* powers of a Collector under the Bengal Tenancy Act, VIII of 1885—Rev. Dept. Notfn. No. 1330 L.R., dated the 7th July 1913.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
	Dacca.	
Dy. Magte. and Dy. Collr. (Proby.)	Jamini Prasanna Ray.	
Ditto ditto ...	Sirajul Islam.	
Dy. Magte. and Dy Collr. ...	Hem Kumar Mallik ...	P. of a magte., 1st class, and under secs. 110, 133, 190 (1)(c) 260, 524 and 565. In charge of the Munshiganj subdivision.
Dy. Magte. and Dy. Collr. ...	Radha Prasad Mukharji ...	Ditto, 1st class, and under secs. 110, 133, 144, 260 and 565.
Ditto ditto ...	Chittaranjan Mukharji ...	Ditto, 1st class, and under secs. 110, 133, 260 and 565. At Munshiganj. Certificate officer.
Ditto ditto ...	Suresh Chandra Basu ...	P. of a magte., 1st class, and under secs. 110 and 565. In charge of the Manikganj subdivision.
Ditto ditto ...	Muhammad Mahomed ...	Ditto 1st class. At Manikganj.
Offg. Jt.-Magte. and Dy. Collr. ...	J. A. Ross	Ditto, 1st class and under sec. 260. In charge of the Narayanganj subdivision.
Dy. Magte. and Dy. Collr. ...	Satish Chandra Guha ...	Ditto, 1st class, and under secs. 110, 133, 190 (1) (c), 260 and 565. At Narayanganj.
Asstt. Settlement Officer ...	Kalipada Maitra	P. of a Rev. Officer and of an A. S. O. Certificate Officer. P. under sec. 108A of the B. T. Act and Public Demands Recovery Act.
Ditto ditto ...	Muhammad Ishaq ...	P. of a Rev. Officer and of an A. S. O.
Ditto ditto ...	Amulya Kumar Guha ...	Ditto ditto.
Ditto ditto ...	Upendra Kumar Mittra ...	Ditto ditto.
Ditto ditto ...	Chinta Haran Das Gupta ...	P. of a Rev. Officer and Asst. Settlt. Officer. Also Asst. Supdt. of Survey. Certificate officer.
Ditto ditto ...	Muhammad Muhiuddin ...	P. of a Rev. Officer and of an A. S. O.
Ditto ditto ...	Pramatha Nath Datta ...	P. of a Rev. Officer and Asst. Settlt. Officer. Also Asst. Supdt. of Survey. Certificate officer.
Ditto ditto ...	Jaladhar Ghosh.	

All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist), employed in the districts of Bengal are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
	Dacca.	
Sub.-Dy. Collr.	Rajendra Lal Acharji ...	P. of a magte., 2nd class. At Manikganj.
Ditto	Jogesh Chandra Sen ...	Ditto, 2nd class, Chaukidari Circle Officer. At Munshiganj.
Ditto	Tasmimuddin Ahmad ...	Ditto, 3rd class. At Sadar. Chaukidari Circle Officer. At Manikganj.
Ditto	Surendra Mohan Mitra ...	Ditto, 2nd class. At Narayanganj.
Ditto	Tamasha Ranjan Datta ...	Ditto, 2nd class. At Sadar.
Ditto	Sukumar Sen	Inspector of Co-operative Societies.
Ditto	Sachi Kanta Ghosh ...	P. of a magte., 3rd class. Chaukidari Circle Officer. At Sadar.
Ditto	Muhammad Abdul Khaliq ...	Ditto, 2nd class. Chaukidari Circle Officer. At Narayanganj.
Ditto	Surendra Nath Bhattacharji ...	Ditto, 2nd class. Chaukidari Circle Officer. At Sadar.
Ditto (s. *p. t.*) ...	Abdul Ghafur	Ditto, 2nd class. At Narayanganj.
Ditto (do.) ...	Srimanta Das Gupta ...	Ditto, 3rd class. At Sadar.
Ditto (do.) ...	Suresh Chandra Chakrabatti ...	Ditto. 3rd class. At Sadar. At Munshiganj temply.
Ditto (do.) ...	Jamiluddin Ahmad ...	Ditto, 2nd class. At Sadar.
Ditto (do.) ...	Jatindra Mohan Chatarji	Ditto, 3rd class.
Ditto (Proby.) ...	Hem Chandra Sen ...	At Munshiganj. Chaukidari Circle Officer.
Ditto (do.) ...	Ajit Kumar Basu.	
D. & S. Judge* (a) ...	M. Smither	President of the Bench of Commrs. for the trial of offences under the Defence of India Act. Judge, High Court, Calcutta.
	S. E. Stinton (*offg.*)	
Addl. D. & S. Judge	S. E. Stinton	Offg. D. and S. Judge, Dacca.
2nd ditto	C. Bartley (*offg.*)	Offg. Addl. D. and S. Judge, Dacca.
	E. Milsom (*offg.*).	
Judge of the Small Cause Courts of Dacca and Munshiganj.	Ramesh Chandra Sen ...	P. of a Subordinate Judge.
Sub.-Judge, Dacca ...	Jadab Chandra Bhattacharji.	
Ditto	Haridas Basu (*offg.*).	

The Subdivisional Officer of Narayanganj is the *ex-officio* Collector of Customs and Inspector of Factories in the subdivision.

Ex-officio a special Judge under section 108 (1) of the Bengal Tenancy Act for the purpose of hearing appeals from the decision of the Revenue officer employed in conducting the survey and record-of-rights in the portion of pargana Talipabad falling within the district of Mymensingh. Special Judge for the purpose of hearing appeals from decision of Revenue officers under sections 105 to 108 of the Tenancy Act.

(a) *Ex-officio* special Judge under section 109 A of the B. T. Act in the district of Dacca.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
	Dacca.	
Sub-Judge	Sukumar Bhattacharji ...	P. of a s. c. c. judge up to Rs. 500.
Ditto (Addl.)	Narendra Nath Ghosh (*offg.*) ...	Also Subordinate Judge, Tippera.
Munsif of Dacca	Bhujagendra Mustafi ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153 (b), of the B. T. Act.
Ditto ditto	Bhupal Chundra Sen ...	Ditto ditto ditto.
Ditto ditto	Kamini Kumar Datta ...	Ditto ditto ditto.
Ditto ditto	Nalini Mohan Banarji ...	Ditto ditto ditto.
Ditto ditto	Pran Kumar Basu ...	P. of a s. c. c. judge up to Rs. 50.
Ditto ditto ...	Madhusudan Ray	P. of a s. c. c. judge up to Rs. 100.
Munsif of Manikgauj ...	Gyan Chandra Banarji ...	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889. P. under sec. 153, cl. (b), of the B. T. Act.
Ditto ditto	Janaki Nath Mukharji ...	Ditto ditto ditto.
Ditto ditto ...	Manindra Prasad Singh (*offg.*).	
Munsif of Munshiganj ...	Upendra Kumar Kar ...	P. of a s. c. c. judge up to Rs. 100.
Ditto ditto ...	Dhirendra Kumar Mukharji ...	P. of a s. c. c. judge up to Rs. 50.
Ditto ditto ...	Abani Prasad Neogi ...	Registrar of s. c. c., Munshiganj.
Ditto ditto ...	Mahendra Nath Mukhati ...	P. of a s. c. c. judge up to Rs. 100 and under Act VII of 1889. P. under sec. 153, cl. (b), of the B. T. Act.
Ditto ditto ...	Harendra Kishore Chakrabatti ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153 (b) of the B. T. Act.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	Dacca.	
Munsif of Narayanganj ...	Atul Chandra Das Gupta ...	P. of a. s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (b), of the B. T. Act. P. under Act VII of 1889.
Ditto ditto ...	Jamini Kanta Mukharji ...	P. of a. s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (b), of the B. T. Act.
Ditto ditto ...	Bamacharan Chakrabatti.	
Ditto ditto ...	Maniudra Nath Bhanja (*offg.*).	
Supdt. of the Central Jail ..	Major W. G. Hamilton, I.M.S. ...	On military duty. Mr M. Leach, in executive charge.
Dy. Comm. of Excise and Salt	Ramapati Chatarji.	
Supdt. of Excise and Salt ...	Rai Sahib Lalit Mohan Sen.	
Inspr. of Regn. Offices, Dacca ...	Rai Sahib Ram Jadab Maitra.	
Special Sub-Registrar ...	Gholam Nabi	Pr. lv. for 2 mos. from 26-3-1917.
	Jyotish Chandra Mukharji (*offg.*).	
Dy. Inspr.-Genl. of Police, Dacca Range.	K. B. W. Thomas.	
Supdt. of Police	R. E. Bradley.	
Ditto (Addl.) ...	T. Clear.	
Supdt. of River Police* ...	P. C. Bamford	At Narayanganj.
Asst. Supdt. of Police ...	B. Wardle	Ditto.
Ditto ditto ...	G. R. Smith.	
Ditto ditto (Proby.) ...	D. R. Hardwick	In charge of the Dacca City Police.
Dy. Supdt. of Police ...	Azizul Haq Chaudhuri.	
Ditto ditto ...	Topendra Kumar Ghosh Chaudhuri	At Munshiganj.
Ditto ditto ...	Chandra Kanta De (*offg.*) ...	At Manikganj.

Nabiganj in Narayanganj is the head-quarters station of the Superintendent River Police.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	Dacca.	
Principal, Constables' Training School.	W. Murray.	
Engineer in charge of River Police steam-launches, etc.	G. N. Rowe, R.I.M.	At Narayanganj.
Commandant, Dacca Military Police Battalion.	Capt. D. I. Macpherson ...	10th Jats. P. of a magte., 1st class, under E. B. and Assam Mily. Police Act of 1892, and under Act V of 1861. P. under cls. (*a*), (*b*) and (*c*) of sec. 190 of the C. P. C.
Asst. Commandant ...	Capt. E. D. Dallas-Smith.	
Inspr. of Schools, Dacca Division.	H. E. Stapleton ...	On deputation to military duty.
	J. W. Gunn (*offg.*).	
Second Inspr. of Schools, Dacca Division.	Rai Sahib Pramoda Kumar Basu.	Combd. lv. for 6 mos. from 2-1-1917.
	Babu Gopal Chandra Sarkar (*offg.*)	
Ditto ditto ...	Harendra Narayan Chakrabatti.	
Inspectress of Schools ...	Miss M. V. Irons.	
Asst. Inspectress of Schools ...	Mrs. Kumudini Das ...	Combd. lv. for 9 mos. from 1-4-1916.
	Miss Charushila Ray (*offg.*).	
Asst. Inspr. of Schools, Dacca Division.	Abdul Latif	
Ditto ditto ...	Abul Hashem Khan Chaudhuri.	
Asst. Inspr. of Schools for Muhammadan Education, Dacca Division.	Khabiruddin Ahmad.	
Principal, Dacca College ...	W. A. J. Archbold.	
Professor, ditto ...	E. R. Watson.	
Ditto ditto ...	R. B. Ramsbotham ...	On deptn. to mily. duty.
Ditto ditto ...	Jiban Chandra Talukdar (*offg.*).	

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	Dacca.	
Professor, Dacca College ...	E. Smith	On deptn. to mily. duty.
Ditto ditto ...	T. T. Williams.	
Ditto ditto ...	D. B. Meek.	
Ditto ditto ...	Bhupati Mohan Sen.	
Ditto ditto ...	Rai Bhupati Nath Das Bahadur	Also Secy. to the Provincial Advisory Committee for Indian Students, Dacca
Ditto ditto ...	G. H. Langley	Supernumerary.
Ditto ditto ...	Satyendra Nath Bhadra.	
Ditto ditto ...	Bidhu Bhusan Goswami.	
Ditto ditto ...	Rakhal Das Ghosh.	
Ditto ditto ...	Paresh Chandra Mukharji.	
Ditto ditto ...	Ashwini Kumar Mukharji.	
Ditto ditto ...	Hari Das Shaha.	
Ditto ditto ...	Abinash Chandra Mazumdar.	
Ditto ditto ...	Surendra Nath Ghosh.	
Ditto ditto ...	Naresh Chandra Ghosh.	
Ditto ditto ...	Muhammad Irfan.	
Ditto ditto ...	Padmini Bhusan Rudra.	
Ditto ditto ...	Sachindra Chandra Das Gupta ...	Transferred to Govt. of India, Finance Dept.
Ditto ditto ...	Bawa Kartar Singh.	
Ditto ditto ...	Dr. M. Musharraful Hukk.	
Ditto ditto ...	Satish Chandra Bose.	
Ditto ditto ...	Bankim Das Banarji.	

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	Dacca.	
Professor, Dacca College ...	E. Smith	On deptn. to mily. duty.
Ditto ditto ...	T. T. Williams.	
Ditto ditto ...	D. B. Meek.	
Ditto ditto ...	Bhupati Mohan Sen.	
Ditto ditto ...	Rai Bhupati Nath Das Bahadur	Also Secy. to the Provincial Advisory Committee for Indian Students, Dacca
Ditto ditto ...	G. H. Langley	Supernumerary.
Ditto ditto ...	Satyendra Nath Bhadra.	
Ditto ditto ...	Bidhu Bhusan Goswami.	
Ditto ditto ...	Rakhal Das Ghosh.	
Ditto ditto ...	Paresh Chandra Mukharji.	
Ditto ditto ...	Ashwini Kumar Mukharji.	
Ditto ditto ...	Hari Das Shaha.	
Ditto ditto ...	Abinash Chandra Mazumdar.	
Ditto ditto ...	Surendra Nath Ghosh.	
Ditto ditto ...	Naresh Chandra Ghosh.	
Ditto ditto ...	Muhammad Irfan.	
Ditto ditto ...	Padmini Bhusan Rudra.	
Ditto ditto ...	Sachindra Chandra Das Gupta ...	Transferred to Govt. of India, Finance Dept.
Ditto ditto ...	Bawa Kartar Singh.	
Ditto ditto ...	Dr. M. Musharraful Hukk.	
Ditto ditto ...	Satish Chandra Bose.	
Ditto ditto ...	Bankim Das Banarji.	

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	Dacca.	
Professor, Dacca College ...	W. A. Jenkins.	
Ditto ditto ...	Hari Das Mukharji (offg.)	
Ditto ditto ...	Abdur Rahman Khan.	
Lecturer, ditto ...	Abdul Aziz (No. II)	
Librarian, ditto ...	Bahar-ud-din Ahmad.	
Principal, Dacca Training College	E. E. Biss ... ... H. A. Stark (*offg.*).	Services placed at the disposal of the Govt. of Bengal.
Vice-Principal, Training College	M. P. West ... ... Manoranjan Mitra (*offg.*).	Offg. Inspr. of Schools, Chittagong Division.
Ditto Dacca Law College	Naresh Chandra Sen Gupta.	
Law Lecturer	R. K. Das (Bar.-at-Law).	
Ditto	Sharat Chandra Ghosh.	
Professor, Dacca Training College.	Manoranjan Mitra ...	Offg. Vice-Principal, Dacca Training College.
Supdt., Dacca Normal School ...	Rai Sahib Debendra Kumar Ray.	
Asst. Supdt., Dacca Normal School.	Atul Chandra Banarji.	
Head Master, Dacca Armanitola High School.	T. J. Collins.	
Head Master, Dacca School of Engineering.	C. J. Henderson.	
Inspr. of Residences of Students	Rai Sahib Bidhu Bhushan Mazumdar.	
Head Master, Dacca Collegiate School.	Abhay Charan Das.	
Foreman-Instructor, Dacca School of Engineering.	K. Evans.	
Principal, Dacca Madrasah ...	Shams-ul-Ulama Abu Nasr Muhammad Wahid.	
Asst. Head Master, ditto ...	Abdul Maqsud.	

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	Dacca.	
Professor, Dacca College ...	E. Smith	On deptn. to mily. duty.
Ditto ditto ...	T. T. Williams.	
Ditto ditto ...	D. B. Meek.	
Ditto ditto ...	Bhupati Mohan Sen.	
Ditto ditto ...	Rai Bhupati Nath Das Bahadur	Also Secy. to the Provincial Advisory Committee for Indian Students, Dacca
Ditto ditto ...	G. H. Langley	Supernumerary.
Ditto ditto ...	Satyendra Nath Bhadra.	
Ditto ditto ...	Bidhu Bhusan Goswami.	
Ditto ditto ...	Rakhal Das Ghosh.	
Ditto ditto ...	Paresh Chandra Mukharji.	
Ditto ditto ...	Ashwini Kumar Mukharji.	
Ditto ditto ...	Hari Das Shaha.	
Ditto ditto ...	Abinash Chandra Mazumdar.	
Ditto ditto ...	Surendra Nath Ghosh.	
Ditto ditto ...	Naresh Chandra Ghosh.	
Ditto ditto ...	Muhammad Irfan.	
Ditto ditto ...	Padmini Bhusan Rudra.	
Ditto ditto ...	Sachindra Chandra Das Gupta ...	Transferred to Govt. of India, Finance Dept.
Ditto ditto ...	Bawa Kartar Singh.	
Ditto ditto ...	Dr. M. Musharraful Hukk.	
Ditto ditto ...	Satish Chandra Bose.	
Ditto ditto ...	Bankim Das Banarji.	

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	Dacca.	
Professor, Dacca College ...	W. A. Jenkins.	
Ditto ditto ...	Hari Das Mukharji (offg)	
Ditto ditto ...	Abdur Rahman Khan.	
Lecturer, ditto ...	Abdul Aziz (No. II)	
Librarian, ditto ...	Bahar-ud-din Ahmad.	
Principal, Dacca Training College	E. E Biss ... ... H. A. Stark (*offg.*).	Services placed at the disposal of the Govt. of Bengal.
Vice-Principal, Training College	M. P. West ... ... Manoranjan Mitra (*offg.*).	Offg. Inspr. of Schools, Chittagong Division.
Ditto Dacca Law College	Naresh Chandra Sen Gupta.	
Law Lecturer	R. K. Das (Bar.-at-Law).	
Ditto	Sharat Chandra Ghosh.	
Professor, Dacca Training College.	Manoranjan Mitra ...	Offg. Vice-Principal, Dacca Training College.
Supdt., Dacca Normal School ...	Rai Sahib Debendra Kumar Ray.	
Asst. Supdt., Dacca Normal School.	Atul Chandra Banarji.	
Head Master, Dacca Armanitola High School.	T. J. Collins.	
Head Master, Dacca School of Engineering.	C. J. Henderson.	
Inspr. of Residences of Students	Rai Sahib Bidhu Bhushan Mazumdar.	
Head Master, Dacca Collegiate School.	Abhay Charan Das.	
Foreman-Instructor, Dacca School of Engineering.	K. Evans.	
Principal, Dacca Madrasah ...	Shams-ul-Ulama Abu Nasr Muhammad Wahid.	
Asst. Head Master, ditto ...	Abdul Maqsud.	

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
	Dacca.	
Principal, Eden High School for Girls.	Miss Lena Sorabji ... ... Miss. R. B. Verulkar (*offg.*).	Pr. lv. for 3 mos. from 1-4-'917.
Asst. Mistress, Eden High School for Girls.	Miss Sarala Bala Rakshit.	
Second Mistress, Eden High School for Girls.	Miss R. B. Verulkar.	
Mistress of Method, Eden High School for Girls.	Miss Wears Taylor.	
Teacher of Surgery ...	Jogendra Nath Mitra.	
Teacher of Medical Jurisprudence and Hygiene.	Harendra Kumar Das ... Baroda Shankar Bhattacharji (*offg.*).	Offg. Civil Surgeon, Jalpaiguri.
Teacher of Midwifery, Materia Medica.	Gyanendra Nath Chatarji ...	Holding charge of the work of the House Surgeon, Mitford Hospl., Dacca, in addition.
Teacher of Physiology, Pathology and Bacteriology.	Binay Lal Mazumdar.	
Teacher of Medicine, Chemistry and Physics.	Hem Chandra Sarkar.	
Teacher of Anatomy ...	Guru Prasad Mitra.	
Civil Surgeon *	Lieut.-Col. E. A. R. Newman, I.M.S.	Also Superintendent of the Medical School and the Lunatic Asylum, Dacca.
Dy. Sany. Commr., Dacca Circle	Dr. Muhammad Ibrahim Sufi.	
House Surgeon, Mitford Hospital, Dacca.	Mily Asst. Surgeon F. G. Hurst	On deputation to military duty. Asstt. Surgeon Gyanendra Nath Chatarji doing the work of House Surgeon in addition.
Medl. officer in charge of Govt. Hostels.	Narendra Nath Mukharji.	
Sub. Medl. Officer, Narayanganj	Akshay Kumar Sarkar.	
Superintending Engr., Eastern Circle.	R. C. Hodgson (*offg.*).	
Ex. Engr.	C. B. Lines	Dacca Division.
Sub-Engineer	Ashutosh Guha.	

* The Civil Surgeon of Dacca has been appointed to be an Inspector of Lepers (*vide* Notification No. 212 G., dated the 5th April 1910).

The Civil Surgeon of Dacca is, under section 5, Act X of 1884 (Indian Factories Act), the Certifying Surgeon of Dacca and Narayanganj.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
Dacca.		
Dist. Engr.	R. B. McCormack.	
Deputy Director of Agriculture	K. McLean.	
Fibre Expert	R S. Finlow	Does the work of the Economic Botanist and Agricultural Chemist in addition to his duties.
Agricultural Chemist ...	H. E. Annett	Services placed temporarily at the disposal of the Govt. of U. P. from 28-9-1916.
Economic Botanist ..	G. P. Hector	Combd. lv. for 18 mos. from 5-5-1916.
Supdt. of Agriculture, Dacca Divn	Rajeswar Das Gupta.	
Arboriculture Expert ...	R. L. Proudlock.	
Darjeeling.		
(District head-quarters, Darjeeling.)		
Dy. Commr.*	J. T. Rankin	*Ex-officio* Forest Settlement Officer under chapter II of Act VII of 1878. P. of a sub-judge and of a s. c. c. judge up to Rs. 500, and p. to hear appeals from the decisions of munsifs (*ex-officio*). P. under secs. 344 to 359 of the C. P. C. Authorized to take cognisance of all proceedings under Bengal Regn. V of 1799. Is also a District delegate. *Ex-officio* Registrar of Births and Deaths under Act VI of 1886.
Dy. Magte. and Dy. Collr ...	L. B. Burrows, J P. ...	P. of a magte., 1st class, and under secs. 110, 133 186, 260, 524 and 565. P. of a s. c. c. judge up to Rs. 500, and of a sub-judge and a munsf within the Sadar subdivn. P. to record evidence in the English language under sec. 138(1) of the C. P. C.
Ditto ditto ...	Jitendra Nath Sarkar ...	Ditto, 1st class, and under secs. 110, 260, 435 and 565. In charge of the treasury.
Ditto ditto ...	Binod Kumar Ghosh ...	Ditto, 1st class, and under sec. 260. P. under Act II of 1886. P. under Act I of 1894.
Offg. Jt. Magte. and Dy. Collr. ...	H. G. Blomfield	Ditto, 1st class. In charge of the Kurseong subdivn. Also Sub-Registrar. P. of a Munsif. P. to try rent suits within the Siliguri subdivn.
Dy. Magte. and Dy. Collr. ...	H. L. Fell	Ditto, 1st class, and under secs. 110, 206 and 260. In charge of the Siliguri subdivision. P. of a Sub-Registrar and Munsif within the Siliguri, Phansidewa, Naxalbari, and Kharibari police-stations. P. of a s. c. c. judge up to the value of Rs. 50.
Offg. Jt. Magte. and Dy. Collr. ...	H. R. Wilkinson	Ditto, 1st class. In charge of the Kalimpong subdivision. P. of a munsif to try rent suits within the subdivision. P. of a s. c. c. judge up to Rs. 50.

* The Court of the Dy. Commr. of Darjeeling has jurisdiction, under Act III of 1907, in all cases in which the debt mentioned in the insolvency petition does not exceed Rs. 5,000.
The Munsif of Kurseong has powers of a s. c. c. judge up to Rs. 50 within the Kurseong and Terai munsifs.
The Subdivisional Officer of Kurseong is the Vice-Chairman of the Terai Branch Road Committee and an *ex-officio* member of the Committee.
The Dy. Consvr. of Forests, Kurseong Division, is an *ex-officio* member of the Terai Branch Road Committee.
The Sub-Deputy Collector employed as Second Officer at Siliguri draws a local allowance of Rs. 30 a month

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
	Darjeeling.	
Sub.-Dy. Collr.	Kul Bahadur Pradhan ...	P. of a magte., 2nd class. Manager, Govt. Estates.
Ditto	Prabhat Chandra Sen ...	Ditto 2nd class. Manager, Terai Govt. Estate
Ditto (s. p. t.) ...	T. Wangyal	Ditto, 2nd class. Manager, Karmi Ward Estates.
Ditto (s. p. t.) ...	B. W. M. Abdur Rahaman ...	Inspector of Co-operative Societies. At Kurseong.
Ditto (Proby.) ...	Mati Chand Pradhan.	
Supdt. of Excise and Salt ...	W. B. S. Nyss.	
D. and S. Judge	D. and S. Judge, Dinajpur and Jalpaiguri.	
Consvr. of Forests, Bengal ...	C. E. Muriel	Combd. lv. for 1 yr. 10 mos. and 2 days from 7-1-1916.
	Sir H. A. Farrington, Bart. (*offg.*)	
Dy. Consvr. in charge, Darjeeling Divn.	J. L. Baker	
Asst. Consvr. in charge, Kurseong Divn.	J. R. P. Gent.	
Extra Dy. Consvr. in charge, Kalimpong Divn.	Lalit Mohan Sen.	
Extra Asst. Consvr. ...	E. A. C. Modder	Instructor, Kurseong Forest School.
Ditto, Darjeeling Divn.	Satyendra Kumar Basu (Proby.).	
Supdt. of Police	C. E. Briscoe	
Dy. Supdt. of Police ...	Sonam Wangfel Laden La.	
Head Master, Victoria School, Kurseong.	A. A. Barnes.	

The Sub-Dy. Collr. stationed at Siliguri receives a local allowance of Rs. 30 a month—*vide* Appt. Dept. letter No. 7198 A., dated 12-10-1914, to the Commr., Rajshahi Divn.

All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist), employed in the districts of Bengal are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
	Darjeeling.	
Head Mistress, Dow Hill Girls School, Kurseong.	Miss P. E. A. Fisher.	
Asst. Mistress, Dow Hill Training School.	Miss Ada Stocker.	
Mistress of Domestic Economy and Housewifery, Dow Hill School.	Miss I. Wilkins	On leave.
Chaplain, Darjeeling Cantonments.	Rev. A. C. Ridsdale	
Chaplain of Kurseong ...	Rev. J. W. Simmons.	
Supdt. of Jail	L. B. Burrows.	
Civil Surgeon	Major H. B Foster, I.M.S.	
Asst. Surgn. in charge, Siliguri subdivn. and dispy.	Hemendra Nath Bakshi.	
Supdg. Engr., N. Circle ...	G. G. Dey (*offg.*).	
Exe. Engineer, Darjeeling Divn.	B. G. Gwyther.	
Asstt. Engineer	J. G. Harton (*offg.*).	
Quinologist to the Govt. of Bengal.	G. E. Shaw.	
	Dinajpur.	
	(District head-quarters, Dinajpur.)	
Magte. and Collr. ...	A. G. Hallifax.	

All Subdivisional Officers are Registering officers under sec. 28 of Act XXI 1883, and are vested with powers of Collr. under secs. 12—15 and 69—71 of Act VIII of 1885, and under Act XIX of 1883, as amended by Act XVIII of 1899.

All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist), employed in the districts of Bengal are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	Dinajpur.	
Dy. Magte. and Dy. Collr. ...	Rajnarayan Banarji ...	P. of a magte., 1st class, and under secs. 110, 260 and 565.
Ditto ditto ...	Banamali Bagchi	Ditto, 1st class, and under secs. 110, 260 and 565. In charge of the Sadar subdivision. P. under Act I of 1894.
Ditto ditto ...	Narendra Nath Ray ...	Ditto, 1st class, and under sec. 260. In charge of the treasury.
Ditto ditto ...	Shitala Kanta Gangali ...	Ditto, 1st class, and under secs. 260 and 565. In charge of the Thakurgaon subdivision. P. under Act I of 1894.
Ditto ditto ...	Satyendra Nath Dutt ...	Ditto, 1st class.
Ditto ditto ...	Abdul Aziz	Ditto, 1st class, and under secs. 133, 260 and 565. In charge of the Balurghat subdivision. P. under Act I of 1894.
Ditto ditto (*s. p. t.*)	Abdul Majid (No. III) ...	Ditto, 2nd class. P. of a Rev. officer and of an A. S. O.
Sub-Dy. Collr.	Narendra Narayan Chakrabatti	Ditto. 1st class. At Balurghat.
Ditto	Sharat Chandra Chatarji ...	Ditto, 2nd class. At Sadar.
Ditto	Sharat Chandra Lahiri (No. II) ...	Ditto, 2nd class. At Thakurgaon.
Ditto (*s. p. t.*) ...	Harchdra Lal Das	Ditto, 3rd class. At Sadar. Whole-time Batwara Officer.
Supdt. of Excise and Salt ...	Panchu Gopal Sen.	
D. and S. Judge (*a*) ...	R. R. Garlick	Also D. and S. Judge, Jalpaiguri and Darjeeling. President of the Commrs. for the trial of offences in the Rajshahi Divn. under the Defence of India Act.
Sub-Judge°	Ashutosh Gupta (*offg.*) ...	*Ex-officio* Subordinate Judge of Jalpaiguri. P. of a s. c. c. judge up to Rs. 500. Is a district delegate.
Ditto (Addl.) ...	Shashi Bhushan Banarji (*offg*) ...	
Munsif of Dinajpur ...	Durga Prasad Ghosh ...	P. of a s. c. c. judge up to Rs. 100. P. to try orgl. suits up to the value of Rs. 2,000. P. under sec. 153, cl. (*b*) of the Bengal Tenancy Act.
Ditto ditto ...	Binod Behari Mukharji ...	P. of a s. c. c. judge up to Rs. 100.
Ditto Raiganj ...	Prandhan Bhar	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153(*b*) of the Bengal Tenancy Act.
Ditto Balurghat ...	Satyc Charan Makharji ...	Ditto ditto. P. under sec. 153 (*b*) of the Bengal Tenancy Act.

Ex-officio the Special Judge for the purpose of hearing appeals from the decisions of Revenue officers employed under Act VIII of 1885 in the district. Special Judge for the purpose of hearing appeals from the decisions of Revenue officer under secs. 105 to 108 of the Tenancy Act.

The Munsifs of Balurghat, Raiganj, Thakurgaon and Phulbari are vested *ex-officio* with the functions of District Court under sec. 26 (*a*) of Act VII of 1889 within the local limits of their respective jurisdictions—Bengal Government Notification No. 6444 A., dated the 24th December 1895.

The Dist. Judge of Dinajpur is appointed to be Special Judge for the purpose of hearing appeals from the decisions of Revenue officers under secs. 106 to 108 of the Tenancy Act.

°The Subordinate Judge of Dinajpur holds his sittings at Jalpaiguri on the following dates:—

1st sitting from 18th March to 20th April.
2nd .. .. 8th to 27th July.
3rd .. .. 9th to 20th September.

(*a*) *Ex-officio* Special Judge under sec. 109 A of the B. T. Act in the districts of Dinajpur and Jalpaiguri.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
Dinajpur.		
Munsif of Balurghat (Addl.) ...	Tarani Kanta Nag (*offg.*).	
Ditto Thakurgaon ...	Thakur Das Banarji ...	P. of a s. c. c. judge up to Rs. 50. P. under Act VII of 1889, *ex officio*.
Supdt. of Police	J. C. Farmer.	
Ditto	Khan Sahib Ghulam Rabbani ...	At Balurghat.
Offg. Civil Surgeon ...	Debendra Nath Hajra.	
Civil Asst. Surgeon in charge of Dinajpur Dispy. (Sadar).	Debendra Nath Hajra ... Ramani Mohan Mukharji (*offg.*).	Offg. Civil Surgeon.
Medl. Officer, E. B. Ry., Parbatipur.	Aghor Nath Ghosh.	
District Engineer	Jamini Kanta Sen Gupta.	
District Sub-Registrar ...	Kalidas Chakrabatti.	
Head Master, Dinajpur Zilla School.	Basanta Kumar Mitra.	
Faridpur.		
(District head-quarters, Faridpur.)		
Magte. and Collr. ...	J. G. Dunlop.	
Dy. Magte. and Dy. Collr. ...	Kunja Bihari Gosain ...	P. of a magte. 1st class, and under secs. 110, 133, 190 (*1*) (c), 260, 407 (2), 524 and 565. In charge of the Treasury.
Ditto ditto ...	Jogindra Nath Pal ...	Ditto, 1st class and under secs. 110 and 565.
Ditto ditto ...	Nabagopal Chaki ...	Ditto, 1st class, and under secs. 110, 133, 190 (*1*) (c), 260, 524 and 565. In charge of the Sadar subdivision.
Dy. Magte. and Dy. Collr. ...	Krishna Gopal Ghosh ...	P. of a magte., 1st class. Certificate officer. P. under Act I of 1894.

The Subdivisional Officer of Goalundo, Faridpur, is vested with powers under sec. 84 of the Indian Railways Act (Act X of 1899).

All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist), employed in the districts of Bengal are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	Faridpur.	
Deputy Collr.	Upendra Nath Ghosh ...	P. of a magte., 2nd class.
Ditto (s. *p. t.*) ...	Hiran Lal Mukharji ...	P. of a magte., 3rd class.
Dy. Magte. and Dy. Collr. ...	Alfred Bose	Ditto, 1st class, and under secs. 110, 133, 260 and 565. P. under Act I of 1894. In charge of the Goalundo subdivision.
Jt. Magte. and Dy. Collr. ...	R. F. Lodge	Ditto, 1st class and under sec. 260. In charge of the Madaripur subdivision.
Dy. Magte. and Dy. Collr. ...	Kshirod Chandra Sen ...	Ditto, 1st class, and under secs. 110, 133, 260, 407(2) and 565. At Madaripur. P under Act I of 1894.
Ditto ditto ...	Anadi Nath Sen	Ditto, 1st class, and under secs. 110, 133, 144, 260 and 565. At Madaripur.
Ditto ditto ...	Amal Krishna Mukharji ...	Ditto, 1st class, and under secs. 110, 260 and 565. In charge of Gopalganj subdivision.
Sub-Dy. Collr.	Abu Muhammad Hasamuddin Haidar.	Inspr. Co-operative Societies.
Ditto	Bimala Charan Guha ...	P. of a magte., 2nd class. At Madaripur. Chaukidari Circle officer.
Ditto	Ramani Ranjan Datta ...	Ditto, 3rd class. At Madaripur. Chaukidari Circle officer.
Ditto	Mir Hafizuddin	Ditto. 2nd class. At Gopalganj.
Ditto	Atul Kumar Ghosh ...	Ditto, 2nd class. At Goalundo.
Ditto	Sridhar Mazumdar	Ditto, 3rd class. Chaukidari Circle officer. At Goalundo.
Ditto	Brajendra Nath Das Gupta ...	Ditto, 3rd class. At Sadar. Khas Tahsildar.
Ditto	Nishi Kanta Basu	Ditto. 3rd class. At Sadar. On butwara work.
Ditto (s. *p. t.*)	Binod Mohan Chakrabatti ...	Ditto. 3rd class. At Madaripur
Ditto (s. *p. t.*)	Tamasha Ranjan Dutta ...	Ditto. 2nd class. At Goalundo Transferred to Dacca temply.
Ditto (s. *p. t.*)... ...	Abul Khair Serajul Islam Zahid	Ditto. 3rd class. At Sadar.

The Subdivisional Officer of Goalundo, Faridpur, is vested with powers under sec. 84 of the Indian Railways Act (Act X of 1899).

Sub-Judge of Faridpur is District Delegate under sec. 235 A of Act X of 1865 and sec. 52 of Act V of 1881, respectively, within the local limits of his jurisdiction, exclusive of the area over which the senior Munsif of Madaripur has jurisdiction.

The senior Munsif of Madaripur, Faridpur, is a District Delegate under section 235A of Acts X of 1865 and V of 1881, respectively, within the local limits of his jurisdiction.

The settlement staff of this District is also employed in the Bakarganj district.

All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist), employed in the districts of Bengal, are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	Faridpur.	
Supdt. of Excise and Salt ...	G. D. Hoskins (*offg.*).	
D. & S. Judge * (*a*) ...	Rai Sarada Prasad Sen Bahadur.	
Addl. ditto	Baidya Nath Ghatak (*offg.*).	
Sub-Judge	Baidya Nath Ghatak ...	P. of a s. c. c. judge up to Rs. 500. Is also Asst. Sessions Judge. Offg. Addl. D. and S. Judge, Faridpur.
Ditto	Shyama Charan Ukil Banarji	P. of a s. c. c. judge up to Rs. 500.
Ditto	Durga Das Chakrabatti (*offg.*).	Ditto ditto.
Ditto (Addl.)	Girindra Nath Mukharji.	
Munsif of Faridpur ...	Manmohan Neogi	P. of a s. c. c. judge up to Rs. 100, and under Act VII of 1889. P. under Act XII of 1887. P. to try original suits up to the value of Rs. 2,000. P. under sec. 153, cl. (b) of the B. T. Act. Offg. Sub-Judge, Bakarganj.
Ditto ditto ...	Haripada Mazumdar ...	P. of a s. c. c. judge up to Rs. 100 and under Act VII of 1889. P. under sec. 153, cl. (b) of the B. T. Act. P. to try original suits up to Rs. 2,000.
Ditto ditto (Addl.) ...	Tej Chandra Mukharji (*offg.*).	
Ditto Goalundo ...	Ashutosh Ray	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889. P. under sec. 153, cl. (b) of the B. T. Act.
Ditto ditto ...	Praphulla Krishna Ghose ...	P. of a s. c. c. judge up to Rs. 100.
Ditto Madaripur ...	Rasik Mohan Bhattacharji ...	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889. P. under sec. 153, cl. (b) of the B. T. Act.
Ditto ditto ...	Kunja Bihari Ray	P. of a s. c. c. judge up to Rs. 50.
Ditto ditto (Addl.) ...	Surendra Nath Mitra.	
Addl. Munsif of Faridpur and Madaripur.	Hemanta Kumar Haldar ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (b) of the B. T. Act. Now at Madaripur.
Munsif of Bhanga	Nata Bihari Ghosh	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889.
Ditto	Malati Nath Basu	P. of a s. c. c. judge up to Rs. 100.
Ditto	Hira Lal Das Gupta.	
Ditto	Mahima Ranjan Mitra (*offg.*).	
Munsif of Chikandi ...	Tejchandra Mitra	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889 and under sec. 153, cl. (b) of the B. T. Act.

Ex-officio Special Judge for the purpose of hearing appeals from the decisions of Revenue officers employed under Act VII of 1885 in the district. Special Judge for the purpose of hearing appeals from the decisions of Revenue officers under secs. 105—108 of the Tenancy Act.

(*a*) *Ex-officio* Special Judge under sec. 109 A of the B. T. Act.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
Faridpur.		
Munsif of Chikandi ...	Satya Prasanna Mazumdar ...	P. of a s. c. c. judge up to Rs. 100 and under Act VII of 1889.
Ditto ditto ...	Upendra Nath Chatarji (*offg.*) ...	Now employed at Madaripur.
Special Sub-Regr.	Muhammad.	
Addl. Asst. Inspectress of Schools	Mrs Saralabala Mitra ...	Will continue to be Lady Principal, Govt. Training School for female teachers, Calcutta.
	Miss Lilabati Ghosh (*offg.*).	
Head Master, Faridpur Zilla School.	Ishan Chandra Sen.	
Supdt. of Police	A. D. Gordon.	
Dy. Supdt. of Police ...	Saiyid Muhammad Husain ...	At Goalundo.
Ditto (*offg.*) ...	E. J. C. Mayne	At Madaripur.
Civil Surgeon	Nripendra Nath Bose ...	Also Supdt. of Jail.
Civil Asst. Surgeon, Goalundo Subdivision.	Lalit Mohan Ray	On deputation.
	Surendra Nath Sen Gupta (*offg.*).	
Civil Asst. Surgn., Madaripur subdivn. and dispy.	Tarak Nath Deb.	
Asst. Supdt. of Emigration, Embarkation Agent and Medl. Inspr. of Emgts., Goalundo.	Mily. Asst. Surgn. W. J. Marshall.	On deputation to mily. duty.
	Asstt. Surgn. Pratulpati Gangali (*offg.*).	
Dist. Engineer	Nani Gopal Mukharji.	
Hooghly.		
(Divisional headquarters of the Commissioner of the Burdwan Division, and district headquarters, Chinsura.)		
Commr., Burdwan Divn. ...	D. H. Lees.	
Persnl. Asstt. to Commr. ...	Jatindra Mohan Chatarji.	
Magistrate and Collr. ...	F. B. Bradley-Birt.	

All Subdivisional Officers are registering officers under section 24 of Act XVII of 1908, and are vested with the power of Collr. under secs. 12—15 and 69—71 of Act VIII of 1886.

All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist), employed in the districts of Bengal are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	Hooghly.	
Dy. Magte. and Dy. Collr. ...	Atul Chandra Kar ...	P. of a magte., 1st class, and under secs. 110, 133, 143, 144, 260, 407 (2) and 565. Certificate officer.
Ditto ditto ...	Prabodh Chandra Chatarji ...	Ditto, 1st class, and under secs. 260 and 435. In charge of the Sadar subdivision. P. under Act II of 1886.
Ditto ditto ...	Bijay Kumar Gangali ...	Ditto, 1st class, and under secs. 110, 133, 260 and 565. In charge of khas mahal and road cess. In charge of the Treasury.
Ditto ditto ...	Atai Ilahi	Ditto, 1st class, and under secs. 110, 260 and 565.
Ditto ditto ...	Dhirendra Lal Dey	Ditto, 1st class. P. under Act I of 1894.
Ditto ditto ...	Phanindra Nath Mukharji (No. 2).	Ditto, 3rd class.
Ditto ditto (proby.) ...	Sushil Kumar Mukharji ...	Ditto, 3rd class.
Supdt. of Excise and Salt ...	Jogendra Lal Khastgir ...	Also Supdt. of Excise, Howrah.
Asstt. Jt.-Magte. and Collr. ...	A. C. Todd, J. P.	P. of a magte., 1st class. In charge of the Serampore subdivn.
Dy. Magte. and Dy. Collr. ...	Jati Dutt	Ditto, 1st class. and under secs. 260 and 565.
Ditto ditto ...	Satish Chandra Ghosh ...	Ditto, 1st class, and under secs. 110, 260 and 435. P. under Act I of 1894. In charge of the Arambagh subdivn.
Sub-Dy. Collr.	Kshitish Chandra Haldar ...	Ditto, 2nd class. At Sadar. Employed in con. with the settlement operations of certain Govt. estates in the district of Hooghly.
Ditto	Nripendra Nath Ray ...	Ditto, 2nd class. Chaukidari Circle officer. At Sadar.
Ditto	Manmohan Mukharji ...	Ditto, 2nd class. At Arambagh. Chaukidari Circle officer.
Ditto	Birendra Lal Gupta ...	Ditto, 2nd class. At Sadar.
Ditto	Priya Lal Trivedi	Ditto, 2nd class. Chaukidari Circle officer. At Serampore.
Ditto	Din Muhammad	Ditto, 2nd class. Chaukidari Circle officer. At Sadar.
Ditto	Umesh Chandra Sil ...	Ditto, 2nd class. At Arambagh.

All Subdivisional Officers are registering officers under section 24 of Act XVII of 1908, and are vested with the power of Collector under sections 12—15 and 69—71 of Act VIII of 1886.

The 2nd Munsif of Hooghly and the 1st Munsif of Serampore are *ex-officio* Addl. Judges of the Small Cause Court in their respective stations—*vide* No. 1377 J., dated the 16th February 1904.

All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist), employed in the districts of Bengal are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	Hooghly.	
Sub-Dy. Collr. (s. *p. t.*) ...	Suresh Chandra Nandi ...	P. of magte., 2nd class. At Serampore.
Ditto (do.) ...	Khalilur Rahman Khan ...	Ditto, 3rd class.
Ditto (Proby.) ...	Asad Husain	Ditto, 3rd class.
D. & S. Judge (*a*)	Sarat Kumar Ghose ...	Is also judge of Howrah.
Addl. D. & S. Judge ...	A. J. Chotzner (*offg.*) ...	Also Addl. D. and S. Judge, 24-Parganas.
Ditto	H. C. Maitland (*offg.*) ...	Tempy. P. under Act I of 1884 within the local limits comprising the Executive districts of Hooghly and Howrah.
Sub-Judge	Lalit Mohan Das	*Ex-officio*. P. of a s. c. c. judge up to Rs. 500 within the local limits of the Polba and Hooghly thanas in the Sadar munsifi of that dist.
Ditto	Kedar Nath Chaudhuri ...	P. of an Asstt. Sess. Judge. Offg. D. and S. Judge, Hooghly.
Ditto, Hooghly, and Judge of the Small Cause Courts, Howrah and Serampore.	Ashutosh Ghosh (No. I) ...	P. under Act I of 1894.
Munsif of Hooghly ...	Abdul Khaliq	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889. Is a District Delegate. P. under sec. 153 (*b*) of the B. T. Act.
Ditto	Rash Bihari Mukharji ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153 (*b*) of the B. T. Act.
Munsif of Serampore ...	Mahendra Nath Das ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (*b*), of the B. T. Act. Is a District Delegate.
Ditto	Bakulal Biswas	P. under sec. 153, cl. (*b*), of the B. T. Act.
Ditto	Shishir Kumar Ghoshal.	
Ditto of Arambagh ...	Hem Chandra Basu (No. II) ...	P. of a s. c. c. judge up to Rs. 100 and under Act VII of 1889. P. under sec. 153, cl. (*b*), of the B. T. Act. Now employed at Ulubaria.
Ditto	Raj Kumar Basu	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889. P. under sec. 153, cl. (*b*) of the B. T. Act. Is a District Delegate.
Ditto	Kiran Chandra Mitra ...	P. of a s. c. c. judge up to Rs. 100 and under Act VII of 1889. P. under sec. 153, cl. (*b*), of the B. T. Act.

(*a*) *Ex-officio* Special Judge under sec. 109 A of the B. T. Act in the districts of Howrah and Hooghly. The Senior Munsif of Arambagh has powers *ex-officio* under Act VII of 1889—8th June 1894. The Second Munsif of Hooghly and the First Munsif of Serampore are *ex-officio* Additional Judges of the Small Cause Court in their respective stations, *vide* No. 1377 J., dated the 16th February 1904.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
	Hooghly.	
Dist. Sub-Regr.	Sattar Baksh.	
Dy. Inspr.-Genl. of Police, Burdwan Range.	J. M. Coates (*offg.*)... ...	Alld. comb. lv. for 2 years, *viz.*, pr. lv. for 3 mos. and furlough for the rest from 11-4-1917.
Supdt. of Police	P. S. Quarry.	
Asst. Supdt. of Police ...	E. Hodson	At Serampore.
Dy. Supdt. of Police ...	W. F. Wainright (*offg.*).	
Ditto ditto ...	Narendra Chandra Sen (*offg.*).	
Principal, Hooghly College ...	J. M. Bottomley.	
Professor, Hooghly College ...	Shyama Das Mukharji ...	Services lent to the Calcutta University.
Ditto ditto ...	Gopi Bhusan Sen.	
Ditto ditto ...	Nripendra Kumar Datta.	
Ditto ditto ...	Bipin Bihari Sen	Appointed Lecturer under the Calcutta University.
Ditto ditto ...	Purna Chandra Bhattacharji.	
Ditto ditto ...	Bhagabat Kumar Goswami Shastri.	
Ditto ditto ...	Abinash Chandra Basu	
Ditto ditto ...	Hari Lal Chaudhuri.	
Ditto ditto ...	Fida Ali Khan.	
Law Lecturer, Hooghly College	Prabhash Chandra Mitra	
Inspector of Schools, Burdwan Division.	T. O. D. Dunn ... ... W. E. Griffith (*offg.*).	Offg. Inspector of Schools, Presy. Divn.
Ditto ditto (Addl.) ...	Phani Bhushan Basu ... Kabiruddin Ahmad (*offg.*).	Offg. Addl. Inspector of Schools, Burdwan Divn.
Ditto ditto (Addl.) ..	Pramatha Nath Chattarji.	
Asst. Inspr. of Schools, Burdwan Divn.	Hem Chandra Sen Gupta ... Rai Sahib Aswini Kumar Das (*offg.*).	Offg. Professor, Presy. College.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
	Hooghly.	
Asst. Inspr. of Schools, Burdwan Divn.	Nalini Mohan Sanyal ... Hem Chandra Sarkar (*offg.*).	Offg. Asstt. Inspr. of Schools, Rajshahi Divn.
Ditto ditto ...	Aghor Nath Banarji ... Matloob Ahmad Khan Chaudhuri (*offg.*).	Comb. lv. for 6 mos. from 5-2-1917.
Ditto ditto ...	A. S. H. Husain.	
Ditto ditto for Muhammadan Education.	Tasaddak Ahmad.	
Asst. Inspectress of Schools, Burdwan Divn.	Miss Indumukhi Nath.	
Addl. ditto ditto ...	Miss Niroj Bashini Som ...	Offg. Asstt. Inspectress of Schools, Presy. Divn.
Head Master, Hooghly Collegiate School.	Matloob Ahmad Khan Chaudhuri	Offg. Asst. Inspr. of Schools, Burdwan Division.
Supdt., Hooghly Madrasah ...	Muhammad Musa.	
Asst. Supdt., Hooghly Madrasah	Shams-ul Ulama Mir Muhammad.	
Ditto, Hooghly Training School.	Sharat Chandra Brahmachari.	
Principal, Serampore Weaving School.	E. Hoogewerf.	
Asst. ditto ...	Ashutosh Guha.	
Asst. Commandant ...	M. J. Willmott.	
Civil Surgeon*	Lt.-Col. C. A. Lane, M.D., I.M.S.	Also Supdt. of Jails. Also Civil Surgeon, Serampore, in addition.
Ditto of Serampore* ...	Lt.-Col. C. A. Lane, M.D., I.M.S.	Also Civil Surgeon of Hooghly.
Civil Asst. Surgn. in charge of the Arambagh subdivn. and dispy.	Pashupati Basu.	
Ditto, Uttarpara dispy. ...	Surendra Nath Datta ... Jogesh Nath Sen (*offg.*).	Offg. Civil Surgeon, Khulna.
Ditto, Imambarah Hospital ...	Kali Mohan Sen ... Dinesh Chandra Chakrabatti (*offg.*).	On deputation.

* The Civil Surgeon of Hooghly is, under section 6, Act XII of 1911, Certifying Surgeon of Factories for the Hooghly district, except Serampore subdivision.
The Civil Surgeon of Serampore is Certifying Surgeon of Factories for the Serampore subdivision.
Lieut. J. C. Gillmon is certifying Surgeon of Factories for the Serampore thana.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
Hooghly.		
Ex. Engineer at Hooghly ...	H. C. Vieyra	Burdwan Division.
District Engineer	Sukhendra Nath Ghosh.	
Howrah.		
(District head-quarters, Howrah.)		
Magte. and Covenanted Dy. Collr.	F. D. Ascoli	Is *ex-officio* licensing officer under Act XII of 1886. P. of a Collr. for the purpose of discharging the functions referred to in secs. 69 and 71 of the Bengal Tenancy Act. *ex-officio*. P. of a Collr. under Act I of 1894. P. of a Collr. *ex-officio* in all matters relating to treasury and accounts. P. of a Collr. under Act V (B. C.) of 1875. Power of a Collr., *ex-officio*, under Bengal Embankment Act, II (B.C.) of 1882. P. to hear appeals under sec. 11 of the Calcutta Survey Act, 1887, for the purpose of survey of land situated in Howrah Municipality. Superintendent of Excise Revenue, excluding Howrah and Bally Municipalities. Assistant Commissioner under the Indian Salt Act. P. of a Collr. of Income-tax. P. under Stamp Act. P. under sec. 32 (2) of the Certificate Act.
Dy. Magte. and Dy. Collr. ...	Shashi Bhushan Basu ...	P. of a magte., 1st class, and under secs. 110, 133, 186, 190 (1) (c), 260, 407 (2) and 565.
Ditto ditto ...	Braja Durlabh Hajra ...	Ditto, 1st class, and under secs. 110, 133, 260, 407 (2), 524 and 565. P. under Act I of 1894, P. under Act II of 1886. In charge of the Sadar subdivision.
Ditto ditto ...	Mahima Nath Bhattacharji ...	Ditto, 1st class, and under sec. 565. Certificate Officer. In charge of Government Estates, sett. and khas mahals.
Ditto ditto ...	A. P. Peters	Ditto, 1st class, and under secs. 110, 133, 186, 190 (1) (c), 260, 524 and 565. In charge of the Treasury. Asstt. Supdt. of survey for surveying lands within the limits of the Howrah Municipality.
Ditto ditto ...	Bhabesh Chandra Roy ...	Ditto, 1st class, and under secs. 110, 133, 186, 260, 524 and 565.
Ditto ditto (s. *p. t.*)	M. H. M. Furrokh ...	Ditto, 3rd class.
Ditto ditto (proby.)	Abu Muhammad Nasiruddin.	
Ditto ditto (proby.)	Dwijendra Nath Sen.	
Ditto ditto ...	Rai Anath Bandhu De Bahadur	P. of a magte., 1st class, and under sec. 260. P. under Act I of 1894. In charge of the Uluberia subdivision.

All Subdivisional Officers are registering officers under sec. 24 of Act XVII of 1908, and are vested with powers of a Collr. under secs. 12—15 and 69—71 of Act VIII of 1885.

Subdivisional Officer, Uluberia, is also in charge of the survey and record of particular in respect of mauza Nasarpara included in tauzi No. 10 in the district of Hooghly.

The third Munsif of Howrah is *ex-officio* addl. judge of s. c. c. at his station.

The covenanted Dy. Collr. of Howrah has powers of an Asstt. Commr. under the Indian Salt Act, XII of 1882.

All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist), employed in the districts of Bengal are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	Howrah.	
Sub. Dy. Collr.	Sharat Chandra Lahiri (No. 1) ...	P. of a magte, 2nd class. At Ulubaria.
Ditto	Kshiti Nath Ghosh	Ditto. 3rd class. Also Asst. of Survey for surveying lands within the Howrah Municipality.
Ditto (s. *p. t*) ...	Hangsha Prasad Ray	Ditto. 3rd class. At Sadar. P. of a Rev. officer and of an A. S. O.
Ditto (Proby.) ...	Surendra Nath De.	
Supdt. of Excise and Salt ...	Jogendra Lal Khastgri ...	Also Supdt. of Excise, Hooghly.
Sessions Judge	D. & S. Judge, Hooghly.	
Sub-Judge[2]	Debendra Nath Pal	P. under Act I of 1894.
Judge of the Small Cause Courts, Howrah and Serampore.	Ashutosh Ghosh (No. 1) ...	Also Sub-Judge, Hooghly. P. under Act I of 1894.
Munsif of Howrah	Nripendra Nath Guha	P. of a s. c. c. judge up to Rs. 100 within the local limits of the Howrah Munsifi, exclusive of the Howrah and Bally Municipalities.
Ditto	Kumud Bandhu Gupta ...	P. of a s. c. c. judge up to Rs. 100 within the local limits of the Howrah Munsifi, exclusive of the Howrah and Bally Municipalities. P. under sec. 153, cl (b) of the B. T. Act. On lv.
Ditto	Hem Chandra Basu (No. 1) ...	P. under section 153 (b) of the B. T. Act. P. of a s. c. c. judge up to Rs. 100 within the local limits of the Howrah Munsifi, exclusive of the Howrah and Bally Municipalities. P. to try orgl. suits up to Rs. 2,000.
Munsif of Ulubaria	Shashi Kumar Ghosh	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (b) of the B. T. Act.
Munsif of Amta	Mahendra Nath Lahiri ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153 (b) of the B. T. Act.
Ditto	Gopal Chandra Biswas	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (b) of the B. T. Act.
Dist. Sub-Regr.	Nalin Chandra Chatarji.	
Supdt. of Police	A. O. Johnstone.	
Supdt., E. I. Ry. Police ...	C. J. Leonard.	
Asst. Supdt. of Police ...	C. F. Freeman.	

[2] The Subordinate Judge of Howrah is vested *ex-officio* with the functions of a district Court under section 26, sub-section (1) of Act VII of 1889 within the local limits of the executive district of Howrah.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	Howrah.	
Dy. Supdt. of Police	Kshetra Mohan Gangali (*offg.*).	
Principal, Civil Engineering College, Sibpur.	Bernard Heaton.	
Professor, Civil Engineering College, Sibpur.	W. H. Everett ... ... Birendra Chandra Gupta (*offg.*).	Offg. Supdt. of Industries and Inspr. of Technical Institutions in Bengal.
Ditto ditto ...	T. H. Richardson.	
Ditto ditto ...	E. H. Roberton.	
Ditto ditto ...	A. Macdonald ... ... Surendra Nath Maitra (*offg.*).	On Mily. duty.
Ditto ditto ...	W. Saunders ... ... Rajendra Nath Sen (*offg.*).	On Mily. duty.
Lecturer in Civil Engineering College, Sibpur.	Surendra Nath Das.	
Agricultural Lecturer, Civil Engineering College, Sibpur.	Vacant.	
Supdt., Apprentice Dept., Civil Engineering College, Sibpur.	J. V. Francies ... ... D. R. G. Turnbull (*s. p. t.*).	On Mily. duty.
Teacher in the Apprentice Dept. of the Civil Engineering College.	P. W. Byers.	
Teacher of Surveying, Civil Engineering College, Sibpur.	Chuni Lal Sarkar.	
Professor of Mechanical Engineering, Civil Engineering College, Sibpur.	C. A. King.	
Foreman Instructor, Civil Engineering College, Sibpur.	G. R. Ballantine.	
Ditto ditto ...	G. W. Lawrence.	
Instructor of Surveying for the Mining classes, Civil Engineering College, Sibpur.	F. J. Cuerden ... ... C. V. Newman (*offg.*).	Services placed at the disposal of the Central Provinces Administration from 1-7-1914.
Demonstrator, ditto	Kamada Charan Chakrabatti.	

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
Howrah.		
Chaplain	Rev. E. T. Young.	
Civil Surgeon	Lt.-Col. E. E. Waters, I.M.S.	
House Surgeon, Howrah General Hospital.	Mily. Asst. Surgn. F. E. Knight. Jyoti Prasad Mitra (*offg.*).	On deputation to Mily. duty.
Resident Asst. Surgeon, Howrah General Hospital.	Dwijendra Nath Bhaduri.	
Medl. Officer, Engineering College, Sibpur.	Rai Sahib Satish Chandra Basu.	
Civil Asst. Surgeon in Medl. charge of the Ulubaria subdivision and dispy.	Upendra Nath Bakshi ...	Also Certifying Surgeon for the New Ring Cotton Mills at Ulubaria, for New Ring Mills at Fuleswar, and Lawrence Jute Mill at Chakkasi.
Inspector of Factories and Certifying Surgeon under Act XV of 1881 for the National Jute Mills at Rajganj.	The Civil Surgeon of Howrah.	
District Engineer	Gyanendra Nath Gangali.	
Supdt. of Agriculture ...	Jadu Nath Sarkar.	
Jalpaiguri.		
(Divisional headquarters of the Commissioner of the Rajshahi Division and District headquarters, Jalpaiguri.)		
Commr., Rajshahi Divn.* ...	H. F. Samman (*offg.*).	
Personal Asst. to Commr. ...	Jyotish Chandra Sen.	
Dy. Commr. †	F. W. Strong	P. under sec. 12 (*c*) of the Indian Factories Act, 1881. Has powers, *ex-officio*, to hear appeals from the decisions of the Forest Settlement Officers.
Dy. Magte. and Dy. Collr. ...	Ashutosh Banarji	P. of a magte., 1st class, and under secs. 110, 133, 260 and 565 (*1*) (*3*).

The Civil Surgeon of Howrah is, under section 6, Act XII of 1911 (Indian Factories Act), Certifying Surgeon within the jurisdiction of Howrah, except the Ulubaria subdivision.

Assistant Surgeon of Ulubaria is, under section 6 of Act XII of 1911 (Indian Factories Act), Certifying Surgeon for the Ulubaria subdivision.

Lieut. J. C. Gillmon, Certifying Surgeon for the Golabari and Bally thanas in the district.

* P. under sec. 243 (*2*) of the Cantonment Code, 1899.

† P. under sec. 15 of the Lepers Act, 1898.

The Subdivisional Officer of Alipur Duars in Jalpaiguri has *ex-officio* power of a s. c. c. judge up to Rs. 50.

All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist), employed in the districts of Bengal are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886.

All Subdivisional Officers are registering officers under section 21 of Act XVII of 1903, and are vested with the powers of a Collector under sections 12—15 and 69—71 of Act VIII of 1886.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
	Jalpaiguri.	
Dy. Magte. and Dy. Collr. ...	B. A. Hollow	P. of a magte., 1st class, and under sec. 110. P. under Act I of 1894.
Ditto ditto ...	Harendra Nath Datta ...	Ditto. 1st class, and under sec. 565. P. under Act II of 1886.
Ditto ditto ...	Jatindra Nath Mitra ...	Ditto, 1st class, and under sec. 565. In charge of the Treasury.
Ditto ditto (*s. p. t.*)	Abdul Halim Chaudhuri ...	Ditto. 3rd class.
Offg. Jt.-Magte. and Dy. Collr. ...	C. G. B. Stevens	Ditto. 1st class, and under sec. 260. In charge of the Alipur subdivision. P. of a s. c. c. judge up to Rs. 100. Has the powers of a Munsif.
Sub-Dy. Collr.	Chandra Kumar Sen Gupta ...	In charge of the Alipur tahsil.
Ditto	Hari Charan Banarji ...	P. of a Magte., 1st class. At Alipur. Has the power of a Munsif within the Alipur subdvn.
Ditto	Naba Gopal Ray	P. of a magte., 2nd class. In charge of Falakata tahsil.
Ditto	Harendra Nath Mazumdar ...	In charge of Mainaguri tahsil.
Ditto (*s. p. t.*) ...	Israil Haq Chaudhuri ...	P. of a magte., 2nd class. At Sadar.
Supdt. of Excise and Salt ...	A. W. Eagleton.	
Dy. Conservator of Forests ...	E. O. Shebbeare	Employed in revising plans in Buxa and Jalpaiguri divns.
Deputy Conservator of Forests, Jalpaiguri Division.	H. T. Lewis.	
Asst. Consvr. of Forests, Buxa Division.	A. K. Glasson.	

The Deputy Commissioner and senior covenanted assistant, or, if none, the Senior Deputy Magistrate, have power of a Spl. Magte. 1st class, under Act IV of 1879 and Act I of 1876 in Jalpaiguri; also under Chaps. XV & VII of the Penal Code in the Cooch Behar State.

The Subdivisional Officer of Alipur is vested with the powers of a Munsif within the subdivision—17th March 1896. He also draws a local allowance of Rs. 100 a month—*vide* Despatch from Secretary of State, No. 114 (Public), dated the 21st July 1898.

The Subordinate Judge of Dinajpur holds his sittings at Jalpaiguri on the following dates:—

1st sitting from 18th March to 20th April.
2nd ,, ,, 8th ,, to 7th July.
3rd ,, ,, 9th ,, to 28th September.

Has the power of a Collector under section 53 of Act VIII of 1885.

The Sub-Deputy Magistrates employed as Tahsildars at Falakata and Mainaguri are vested with the powers of a Magistrate of the 3rd class and with powers under section 190 (1) (*b*) to take cognizance of offences under section 34 of Act V of 1861 in Falakata and Mainaguri, respectively.

The second officer and the Sub-Deputy Collector at Alipur Duar each draws a local allowance of Rs. 50 a month. In the case of the Sub-Deputy Collector subject to the condition that the officer's emoluments do not exceed Rs. 250 a month.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
	Jalpaiguri.	
Extra Asst. Consvr. of Forests ...	Jatindra Nath Basu.	
Ditto ditto ...	Paresh Nath Mukharji ...	Muraghat Range.
Ditto ditto ...	Mahini Chandra Chaudhri ...	Buxa Range.
D. & S. Judge	D. and S. Judge, Dinajpur, Darjeeling.	
Sub-Judge	Sub-Judge of Dinajpur.	
Munsif	Hem Kumar Neogi ...	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889. P. under sec. 153, cl. (b), of the B. T. Act. P. to try orgl. suits up to the value of Rs. 2,000.
Ditto	Bisweswar Mazumdar ...	P. of a s. c. c. judge up to Rs. 100, and under Act VII of 1889.
Special Sub-Regr.	Sris Chandra Chakrabatti.	
Asst. Commdt., Dacca Mily. Police Battalion.	J. R. Phillips	At Buxa Duar.
Cantonment Magte, Buxa Duars	J. R. Phillips.	
Dy. Inspector-General of Police, Rajshahi Range.	R. H. S. Hutchinson.	
Supdt. of Police	F. J. Lowman.	
Dy. Supdt. of Police ...	Upendra Kumar Basu (*offg.*).	
Inspr. of Schools, Rajshahi Division.	Rai Bahadur Dr. P. Chatarji (*offg.*).	
Asst. Inspr. of Schools, Rajshahi Division.	Gopal Chandra Sarkar ... Nalini Mohan Sanyal (*offg.*).	Offg. Inspr. of Schools, Dacca Divn.
Asst. Inspector of Schools for Muhammadan Education, Rajshahi Division.	A. S. M. Azam.	
Asst. Inspectress of Girls' Schools, Rajshahi Division.	Miss Mrinalini Bose.	
Dy. Inspr. of Schools, Jalpaiguri	Gobinda Chandra Chakrabatti ...	Offg. Dy. Inspr. of Schools, Bogra.
Civil Surgeon*	Harendra Kumar Das (*offg.*).	

Officer Commanding the Buxa Duar station is the *ex-officio* Cantonment Magistrate.

All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist), employed in the districts of Bengal are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886.

*The Civil Surgeon of Jalpaiguri is the Inspector of Lepers in the Jalpaiguri district.

All Subdivisional Officers are registering officers under section 24 of Act XVII of 1908, and are vested with the powers of a Collector under sections 12—15 and 69—71 of Act VIII of 1886.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
Jalpaiguri.		
Civil Asst. Surgeon, Jalpaiguri...	Basanta Kumar Bhaumik.	
In civil medical charge of Buxa Duars.	Lieut. C. G. Howlett.	
Dy. Sany. Commr., Rajshahi Circle.	Dr. R. B. Khambata.	
Exe. Engr.	A. J. King (*offg.*)	Duars Road Division.
Ditto	Sarada Charan Mitra (*offg.*) ...	Jalpaiguri Division.
Dist. Engr.	W. E. McKenna.	
Jessore.		
(District head-quarters, Jessore.)		
Magte. and Collr.	Benegal Narsinga Rau (*offg.*)	
Dy. Magte. and Dy. Collr. ...	Ramesh Chandra Singh ...	P. of a magte., 1st class, and under secs. 32, 110, 133, 260, 524 and 565. In charge of the Treasury.
Ditto ditto ...	Debendra Nath Basu ...	Ditto, 1st class. P. under Act I of 1894.
Ditto ditto ...	Gopendra Kumar Ghosh Chaudhuri.	Ditto, 1st class, and under secs. 110, 260 and 565. Certificate officer.
Ditto ditto ...	Tabibur Rahman	Ditto, 1st class, and under secs. 110, 133, 260 and 565 (1) (3). In charge of the Sadar subdivision.
Ditto ditto ...	Mohit Chandra Ghosh ...	Ditto, 1st class, and under sec. 565.
Ditto ditto (s. *p. t.*) ...	Indu Shekhar Mukharji ...	Ditto, 2nd class.
Dy. Magte. and Dy. Collr. ...	Birendra Kumar Basu ...	Ditto, 1st class. P. under Act I of 1894. In charge of the Jhenida subdivision.
Dy. Magte. and Dy. Collr. ...	Narendra Kumar Sen ...	Ditto, 1st class, and under secs. 110, 260 and 565. In charge of the Magura subdivision.

N.B.—The Subdivisional Officers of Narail, Bangaon, Magura and Jhenida have powers of Collector under Act V (B.C.) of 1880.

All Subdivisional Officers are registering officers under sec. 24 of Act XVII of 1908 and are vested with powers of a Collector under secs 12—15 and 69—71 of Act VIII of 1885

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
Jessore.		
Dy. Magte. and Dy. Collr. ...	Sushil Kumar Ghosh ...	P. of a magte., 1st class, and under secs. 110, 133, 260 and 565. In charge of the Bangaon subdivision. P. under Act I of 1894.
Ditto ditto ...	Jogesh Chandra Chaudhuri ...	Ditto, 1st class, and under secs. 110, 260 and 565. In charge of the Narail subdivision.
Sub-Dy. Collr.	Surendra Nath Ghosh ...	Ditto, 2nd class. At Sadar.
Ditto	Bazlur Rahman (No. 1) ...	Ditto, 2nd class. At Jhenida.
Ditto	Fazlur Rahman	Ditto, 2nd class. At Magura.
Ditto (*s. p. t.*) ...	Samiruddin Bhuiyan ...	Ditto, 2nd class. At Narail.
Supdt. of Excise and Salt ...	Jitendra Nath Goswami.	
D. and S. Judge (*a*) ...	P. E. Cammiade.	
Addl. D. and S. Judge † ...	Prabodh Chandra De ...	Also Addl. D. and S. judge, Khulna.
Sub-Judge	Gyanendra Nath Mukharji ...	P. of a s. c. c. judge up to Rs. 500 and under Act VII of 1889 Also Sub-Judge, Khulna. Is a District Delegate.
Ditto	Bipin Chandra Chatarji ...	P. of a s. c. c. judge up to Rs. 500.
Munsif of Jessore	Tara Prasanna Chatarji ...	P. of a s. c. c. judge up to Rs. 100.
Ditto	Atul Chandra Banarji ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (b) of the B. T. Act.
Ditto	Kshitish Chandra Banarji.	
Munsif of Bangaon ...	Narendra Kumar Mukharji ...	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889. P. under sec. 153 (b) of the B. T. Act.
Ditto	Sharat Chandra Mukharji.	
Munsif of Magura	Ashutosh Gosain	P. of a s. c. c. judge up to Rs. 100 and under Act VII of 1889. P. under sec. 153, cl. (b) of the B. T. Act.
Ditto	Saroj Kanta Banarji.	
Munsif of Narail	Atul Chandra Gangali ...	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889.
Ditto	Nagendra Nath Basu ...	P. of a s. c. c. judge up to Rs. 100.
Ditto	Sharat Chandra De ...	P. of a s. c. c. judge up to Rs. 50.

(*a*) *Ex-officio* Special Judge under sec. 109 A of the B. T. Act in the district of Jessore.
All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist), employed in the districts of Bengal are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886.
† Will sit at Jessore till 15th July and then at Khulna.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
Jessore.		
Munsif of Jhenida	Gopeswar Banarji	P. of a s. c. c. Judge up to Rs. 100. P. under Act VII of 1889. P. under sec. 153 (b) of the B. T. Act.
Ditto	Durga Prasanna Pal.	
Ditto	Hemanta Kumar Haldar ...	P. of a s. c. c. Judge up to Rs. 100 and under Act VII of 1889.
Dist. Sub-Registrar ...	Prabodh Chandra Chatarji.	
Supdt. of Police	G. P. Whalley.	
Dy. Supdt. of Police ...	Gagan Chandra Ray.	
Civil Surgeon	Khan Bahadur Shaikh Ilahi Baksh.	Also Supdt. of Jail.
District Engineer	Kshiti Nath Ghosh.	
Khulna.		
(District head-quarters, Khulna.)		
Magte. and Collr. ...	W. B. Thomson.	
Dy. Magte. and Dy. Collr. ...	Khan Bahadur Haji Khundkar Fazl-ul-Haq.	P. of a magte., 1st class, and under secs. 110, 133, 260 and 565. Certificate Officer.
Ditto ditto ...	Jatindra Nath Gupta ...	Ditto, 1st class, and under secs. 110, 133, 260, 524 and 565. In charge of the Treasury.
Ditto ditto ...	Sharat Chandra Ray ...	Ditto, 1st class, and under sec. 260. In charge of the Sadar subdivision.
Ditto ditto ...	Abani Chandra Chatarji ...	Ditto, 1st class, and under secs. 110, 133, 144, 190 (1) (c), 260 and 565. P. under Act I of 1894.
Ditto ditto ...	Hiranya Kumar Das Gupta ...	Ditto, 2nd class. Employed on Batwara work in addition to his duties.
Ditto ditto ...	Abdul Majid (No. II) ...	Ditto, 2nd class.
Ditto ditto ...	Abul Hasnat Muhammad Abdul Hye.	Ditto, 1st class, and under secs. 110, 174, 260 and 565. P. under Act I of 1894. P. under Act II of 1886. In charge of the Satkhira subdivn.

All Subdivisional Officers in the Khulna district are registering officers under sec. 24 of Act XVII of 1908, and are vested with powers of a Collector under secs. 12—15 and 69—71 of Act VIII of 1885.

Ex-officio a Special Judge of the Khulna district for the purpose of hearing appeals referred to in sec. 109A of the Bengal Tenancy Act, 1885 (VIII of 1885).

All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist), employed in the districts of Bengal are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	Khulna.	
Dy. Magte. and Dy. Collr. ...	Sushil Chandra Ghosh ...	P. of a magte., 1st class, and under secs. 110, 133, 143, 144 and 260. In charge of the Bagerhat subdivn. P. under Act I of 1894.
Sub-Dy. Collr.	Amulya Krishna Dutt ...	Ditto. 2nd class. At Bagerhat.
Ditto	Pramatha Nath Chatarji ...	Ditto. 2nd class. Chaukidari Circle Officer. At Satkhira.
Ditto	Satya Charan Haldar ...	Ditto. 3rd class. At Satkhira.
Asstt. Settlement Officer ...	Rash Bihari Mukharji ...	Powers of a Rev. Officer.
Supdt. of Excise and Salt ...	J. P. Deefholts.	
Dy. Consvr. of Forests, Sundarbans Divn.	J. C. Carroll.	
Extra-Asst. Consvr. of Forests attached to the Sundarbans Divn.	Jatindra Nath Basu.	
D. and S. Judge	A. Mellor.	
Addl. D. and S. Judge † ...	Prabodh Chandra De ...	Also Addl. D. and S. judge, Jessore.
Sub-Judge	Kunja Bihari Gupta ...	P. of a s. c. c. judge up to Rs. 500 and under Act VII of 1889.
Ditto	Gyanendra Nath Mukharji ...	P. of a s. c. c. judge up to Rs. 500. Also a Sub-Judge, Jessore. Now at Khulna.
Munsif of Khulna ...	Parada Kinkar Mukharji ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153 (b) of the B. T. Act. P. to try original suits up to Rs. 2,000.
Ditto	Prabodh Chandra Basu ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (b), of the B. T. Act.
Ditto (Addl.) ...	Bhupendra Nath Mitra ...	P. of a s. c. c. judge up to Rs. 100.

† Sits at Khulna from 16th July 1916 till the end of the year.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
Khulna.		
Munsif of Bagerhat ...	Jadu Nath Mazumdar ...	P. of a s. c. c. judge up to Rs. 100, and under Act VII of 1889.
Ditto	Nitai Charan Ghosh ...	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889. P. under s c. 153, cl. (b), of the B. T. Act. Lv. for 27 days from 10-3-1917.
Ditto	Atal Bihari Datta (*offg.*).	
Ditto	Priya Nath Basu (*offg.*)	
Munsif of Satkhira ...	Nalini Kanta Basu ...	P. of a s. c. c. judge up to Rs. 100, and under Act VII of 1889. P. under sec. 153, cl. (b), of the B. T. Act.
Ditto	Binod Bihari Ray ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153(b) of the B. T. Act.
Ditto	Gajanan Banarji ..	P. of a s. c. c judge up to Rs. 50.
Dist. Sub-Regr.	Sachis Chandra Chatarji.	
Head Master, Khulna Zilla School	Phatik Chandra Chakrabatti.	
Supdt. of Police	Muhammad Khurshid (*offg.*)	
Dy. Supdt. of Police ...	Ambica Charan Chakrabatti (*offg.*)	At Sadar.
Ditto	Narendra Kumar Mallik (*offg.*) ...	At Bagerhat.
Civil Surgeon	Surendra Nath Datta (*offg.*) ...	Also Supdt. of Jail.
Civil Asst. Surgeon, Satkhira subdivn. and dispy.	Chandra Kumar Nandi.	
Ditto Bagerhat subdvn. and dispy.	Bribdaban Chandra Banik.	
Medl. Officer in charge, E. B. Ry., Khulna.	Pushupati Mitra.	
District Engineer ...	Rasik Lal Hui.	
Malda.		
(District head-quarters, English Bazar.)		
Magte. and Collr	J. H. Lindsay (*offg.*).	
Dy. Magte. and Dy. Collr. ...	Nagendra Nath Sen ...	P. of a magte., 1st class, and under secs. 110, 133, 266 and 565. Certificate Officer. P. under Act I of 1894 and Act II of 1886.
Ditto ditto ...	Jitendra Chandra Mazumdar ...	Ditto, 1st class, and under sec. 565. In charge of the Treasury.

The Senior Deputy Magistrate of Malda has p. of a magte., 1st class, under Act V of 1898 for three years from 10th October 1914.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
Malda.		
Dy. Magte. and Dy. Collr. (*s.p.t.*)	Mahmood Ali Chaudhuri ...	P. of a magte., 2nd class.
Ditto (Proby.)	Afsar Ali Chaudhuri.	
Sub-Dy. Collr.	Pankaj Bihari Das	Ditto 3rd class.
Ditto	Khwaja Abdul Fattah ...	Ditto ditto. At Sadar. P. of a Rev. Officer and of an A. S. O. Pr. lv. for 2 mos. and 10 days from date of relief.
Supdt. of Excise and Salt ...	Asoke Jiban Banarji.	
D. and S. Judge*	D. and S. Judge, Rajshahi	
Munsif of Malda† ...	Banku Bihari Chatarji (*offg*.).	
Ditto	Manmatha Nath Basu ...	P. of a s. c. c. judge up to Rs. 100. P. under Act XII of 1887. P. under sec. 153, cl. (*b*), of the B. T. Act. P. to try orgl. suits up to Rs. 2,000. Is a Dist. Delegate.
Ditto	Chandra Shekhar Sen ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153(*b*) of the B. T. Act. Furlough for 4 mos. and 15 days from 5-12-1916.
Special Sub-Registrar ...	Ahmad Abduzzahir.	
Supdt. of Police	T. J. A. Craig.	
Civil Surgeon	Shah Jahan Ali (*offg*.) ...	Also Supdt. of Jail.
District Engineer	Surendra Nath Banarji.	
Midnapore.		
(District head-quarters, Midnapore.)		
Magte. and Collr.	W. A. Marr	*Ex-officio* asst. to the Supdt. of the Tributary Mahals, Cuttack. P. of a Rev. Supdt. of Canals in Howrah. Is also Supdt. of Survey under sec. 4, Act V (B.C.) of 1875. P. of a Collr. under Regln. II of 1819 and under Regln. IX of 1825 as modified by Regln. II of 1828.
Addl. Dist. Magte. (*a*) ...	G. E. Lambourn	For 6 mos.

The Medical Officer of Malda is under section 5, Act XV of 1884 (Indian Factories Act), the Certifying Surgeon of the district.

* *Ex-officio* the Special Judge for the purpose of hearing appeals from the decisions of revenue officers employed under the Bengal Tenancy Act in the district.

†Munsif of Nawabganj and the senior Munsif of Malda are vested *ex-officio* with the functions of a District Court under Act VII of 1889.

The Collector of Midnapore is vested with the powers of an Assistant Commissioner under the Indian Salt Act, XII of 1882.

All Subdivisional Officers are registering officers under sec. 24 of Act XVII of 1908, and are vested with powers of a Collector under secs. 12—15 and 69—71 of Act VIII of 1885.

The senior Munsif of Contai is vested with the functions of a district court under Act VII of 1889 within the local limits of Contai munsifi—20th February 1894.

(*a*) The Additional District Magistrate of Midnapore has *ex-officio* powers to discharge the functions of a Collector under clause (16) of section 3 of the Bengal Tenancy Act. Has also *ex-officio* special appellate powers under Act VII of 1876. Has also *ex-officio* powers of a Collector under Act VII of 1822, Act IX of 1825, Act III of 1828, Act IX of 1833, and Act IX of 1880. Has also *ex-officio* powers under Act II of 1886.

All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist), employed in the districts of Bengal are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
Midnapore.		
Dy. Magte. and Dy. Collr. ...	Nawabzada Saiyid Ali Ashraf ...	P. of a magte., 1st class, and under secs. 110 and 260. In charge of the Sadar subdivn. P. under Act II of 1866.
Ditto ditto ...	Gyanendra Nath Ray ...	Ditto, 1st class, and under secs. 260 and 565. Certificate Officer.
Ditto ditto ...	Krishna Lal De	Ditto, 1st class, and under sec. 565. In charge of the treasury.
Ditto ditto ...	Dasharathi Datta ..	Ditto, 1st class, and under secs. 110, 260 and 565.
Ditto ditto ...	Ramapada Chatarji ...	Manager, Jalamutha and Majnamutha estates and Basudebpur Wards Estates. Alld. pr. lv. fo. 2 mos. from 10-4-1917.
Ditto ditto ...	Surendra Nath Basu ..	P. of a magte., 1st class. In charge of Partition, Wards and Khas mahals. P. under Act I of 1894 and under Act II of 1886.
Ditto ditto ...	Satish Chandra Upadhyaya ...	Ditto, 1st class, and under sec. 565.
Ditto ditto ...	Gyanendra Mohan Chaudhuri ...	Ditto, 1st class, and under secs. 110, 133, 260 and 565.
Ditto ditto (s. *p. t.*)	Basanta Kumar Mukharji ...	Ditto, 2nd class.
Ditto ditto (Proby.)	Ali Reza.	
Ditto ditto ...	Rai Nikhil Nath Ray Bahadur ...	P. of a magte., 1st class, and under secs. 110, 133, 260, 407 (2) and 565. In charge of the Contai subdivn. P. under Act I of 1894.
Ditto ditto ...	Surendra Mohan Bhaumik ...	Ditto, 1st class, and under secs. 110, 133, 260 and 565. At Contai. Certificate Officer.
Ditto ditto ...	Chuni Lal Mukharji ...	Ditto, 1st class, and under secs. 260 and 565. In charge of the Ghatal subdivn.
Ditto ditto ...	Nrisinha Ranjan Mukharji ...	Ditto, 1st class, and under secs. 133, 260 and 565 (1) (3). In charge of the Tamluk subdivn. Transfd. to 24-Parganas temply.
Settlement Officer ...	A. K. Jameson, I.C.S. ...	P. of a Rev. Officer and Settlt. Officer. Also Supdt. of Survey. P. under secs. 108 and 108A of the Bengal Tenancy Act.
Asst. Settlement Officer ...	Bijay Bihari Mukharji ...	P. of a Rev. Officer and of an Asst. Settlement Officer. Also Asst. Supdt. of Survey.

The Subdivisional Officers in the dist. of Midnapore are authorized to discharge the functions of a Collector under sec. 5 of the Bengal Tenancy Act, VIII of 1885.

All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist), employed in the districts of Bengal are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886.

All Subdivisional Officers are registering officers under section 24 of Act XVII of 1908, and are vested with the powers of a Collector under sections 12—15 and 69—70 of Act VIII of 1886.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
	Midnapore.	
Asst. Settlement Officer ...	Surendra Nath Banarji (No. II)	
Ditto ditto ...	Phani Bhusan Mitra ...	
Ditto ditto ...	Minnat Ali	
Ditto ditto ...	Karali Charan Gangali ...	P. of a Rev. Officer and of an Asst. Settlement Officer. Also Asst. Supdt. of Survey.
Ditto ditto ...	Sudhir Kumar Sen Gupta ...	
Ditto ditto ...	Phanindra Bhushan Mitra ...	
Ditto ditto ...	Jogesh Chandra Mitra ...	
Ditto ditto ...	Rajendra Lal Chakravatti.	
Ditto ditto ...	Bireswar Sanyal	P. of a Rev. Officer and of an Asst. Settlement Officer. Also Asst. Supdt. of Survey.
Ditto ditto ...	Bhubaneshwar Sanyal ...	P. of a Rev. Officer and Asst. Settlt Officer.
Ditto ditto ...	Shashi Bhushan Ghosh ...	Ditto ditto.
Sub-Dy. Collr.	Tarapada Bhattacharji ...	P. of a magte., 1st class. At Contai.
Ditto	Phani Bhusan Chakrabatti ...	Ditto, 2nd class. At Tamluk.
Ditto	Satyesh Chandra Gupta ...	Ditto, 3rd class. At Sadar. Employed in cess revaluation work.
Ditto	Madhu Sudan Gupta ...	Ditto, 3rd class. At Sadar.
Ditto	Prakash Chandra Dutt ...	Ditto, 1st class. At Ghatal.
Ditto	Ananga Mohan Chakrabatti ...	Ditto, 2nd class. At Sadar.
Ditto	Harihar Banarji	Ditto, 3rd class. At Sadar. Manager, Pachetgarh Wards Estate.
Ditto ditto	V. M. Bonerji	Ditto, 2nd class. At Sadar. Chaukidari Circle Officer.
Ditto (s. *p. t.*) ...	Sanat Kumar Mukharji ...	Ditto, 3rd class.
Supdt. of Excise and Salt ...	J. C. Platts	
Ditto (Proby.) ...	Abdur Raquib.	
D. & S. Judge*	W. N. Delevingne	President of the Bench of Commrs. for the trial of offences under the Defence of India Act in the Burdwan and Presy Divisions.
Addl. D. and S. Judge ...	C. H. Moseley	Also Addl. D. and S. Judge, Burdwan.

* Special Judge for the purpose of hearing appeals under sec. 109A of the Bengal Tenancy Act, VIII of 1885, as amended by Bengal Acts III of 1898 and I of 1907.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	Midnapore.	
Sub-Judge	Bhupal Chandra Gangali ...	P. of a s. c. c. judge up to Rs. 500.
Ditto	Barada Prasad Ray ...	P. of a s. c. c. judge up to Rs. 500.
Ditto	Shyama Charan Chakrabatti ...	Ditto ditto.
Munsif of Dantan ...	Nalini Nath Das Gupta ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153(*b*) of the B. T. Act. Pr. lv. for 30 days from 5-3-1917.
Ditto	Biman Bihari Sarkar (*offg.*).	
Munsif of Contai	Jogendra Narayan Ray Chaudhuri	P. of a s. c. c. judge up to Rs. 50.
Ditto	Surendra Nath Sen (No. I) ...	P. of a s. c. c. judge up to Rs. 100 P. under Act VII of 1889. P. under sec. 153(*b*) of the B. T. Act.
Ditto	Suresh Chandra Sen (No. I).	
Munsif of Tamluk ...	Lalit Mohan Basu	P. of a s. c. c. judge up to Rs. 100 and under sec. 153, cl. (*b*) of the B. T. Act.
Ditto	Jagadish Chandra Sen ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (*b*), of the Bengal Tenancy Act.
Ditto	Sachindra Kumar Sen ...	P. of a s. c. c. judge up to Rs. 100.
Ditto	Ram Chandra Ghosh ...	Ditto ditto. P. under sec. 15.
Munsif of Midnapore ...	Makhan Lal Mukharji.	
Ditto	Rohini Kanta Mitra ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (*b*), of the Bengal Tenancy Act.
Ditto	Girija Bhusan Sen ...	Ditto ditto.
Ditto	Upendra Chandra Mazumdar (*offg.*).	
Munsif of Ghatal† ...	Praphulla Chandra Dutt ...	Ditto ditto.

The Senior Munsif of Tamluk is vested *ex-officio* with the functions of a District court under section 26 (*1*) of Act VII of 1889 within the local limits of his jurisdiction.

† The Munsif of Ghatal is vested *ex-officio* with the functions of a district court under sec. 26 (*1*) of Act VII of 1889.

The Asst. Surgeon of Ghatal is Certifying Surgeon for the Ghatal subdivision.

The Civil Surgeon of Midnapore is, under section 6, Act XII of 1911 (The Indian Factories Act), Certifying Surgeon of the district.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
Midnapore.		
Munsif of Garhbeta ...	Bijay Gopal Chatarji ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (*b*), of the B. T. Act.
Supdt. of the Central Jail ...	Lt.-Col. E. R. Parry, I.M.S. ...	On Military duty.
	A. H. W. Leonard (*offg.*) ...	Pr. lv. for 40 days from 26-4-1917. Mr. G. E. Lambourn, I.C.S., holding executive charge in addition to his duties.
Dist. Sub-Registrar ...	Satya Ranjan Das Gupta.	
Supdt. of Police	H. Coates	
Ditto (Addl.) ...	G. L. H. Stein (*offg.*).	
Asst. Supdt. of Police ...	D. L. Stewart.	
Dy. Supdt. of Police ...	Rai Sahib Jogesh Chandra Bhaumik (*offg.*).	
Ditto	F. J. R. Moss (*offg.*) ...	At Kharagpur.
Chaplain of Kharagpur ...	G. R. Walters.	
Civil Surgeon	Pramatha Nath Banarji (*offg.*).	
Civil Asst. Surgn., Midnapore dispensary.	Surendra Nath Mukharji.	
Ditto. Contai subdivn. and dispy.	Ashwini Kumar Das.	
Ditto, Tamluk subdivn. and dispy.	Hari Pada Mukharji ... Jitendra Nath Ghosh (*offg.*).	On deputation.
Ditto, Ghatal subdivn. and dispy.	Narendra Nath Ghosh.	
Exe. Engineer, Cossye Division	C. P. M. Harrison.	
Asst. Engineer, Panskura ...	Binay Ranjan Haldar.	
Sub-Engineer, Midnapore ...	Banku Bihari Mukharji.	
District Engineer	N. N. Bose.	

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
Murshidabad.		
(District head-quarters, Berhampore.)		
Magte. and Collr.	W. D. R. Prentice.	
Dy. Magte. and Dy. Collr. ...	Atul Chandra Datta ...	P. of a magte., 1st class, and under secs. 108, 110, 133, 260, 524 and 565.
Ditto ...	Abul Mahmud	Ditto, 1st class, and under secs. 110, 123, 190 (*1*) (*c*), 260 and 565. In charge of the treasury.
Ditto ...	Harendra Kumar Ghosh (No. II)	Ditto, 1st class, and under secs. 110, 133, 190(*1*), 260 and 565. In charge of the Sadar subdivision. P. under Act I of 1894 in the Sadar subdivision.
Ditto ...	Sarada Nanda Das ...	Ditto, 1st class and under secs. 110, 133, 260 and 565.
Ditto ...	R. W. Von Morde ...	Ditto, 1st class, and under secs. 110, 133 and 565. Certificate Officer.
Asst. Magte. and Collr. ...	H. C. V. Philpot	Ditto, 1st class. In charge of the Lalbagh subdivision, temply. P. under Act I of 1894.
Dy. Magte. and Dy. Collr. ...	Lal Bihari Das	Ditto, 1st class, and under secs. 110, 133, 143, 144, 174, 190(*1*) (*c*), 260, 524 and 565. In charge of the Jangipur subdivision.
Ditto ...	Shamsuddin Ahmad ...	Ditto, 1st class, and under sec. 260. In charge of the Kandi subdivn.
Sub-Dy. Collr.	Mirza Yahya Shirazie ...	Ditto, 2nd class. At Lalbagh. Chaukidari Circle Officer.
Ditto	Suresh Chandra Gupta ...	Ditto, 2nd class. At Kandi, Chaukidari Circle Officer.
Ditto	Birendra Kumar Basu ...	Ditto, 2nd class. At Jangipur. Chaukidari Circle Officer.
Ditto	Manindra Lal Banarji ...	Ditto, 3rd class. At Kandi.
Ditto	Dilip Chandra Dhar ...	Ditto, 2nd class. At Lalbagh.
Ditto (s. *p. t.*) ...	Satyendra Nath Roy ...	Ditto, 3rd class. At Berhampore.
Ditto (s. *p. t.*) ...	Kailashpati Ghosh ...	P. of a magte., 2nd class. At Jangipur.
Ditto (s. *p. t.*) ...	Harendra Narayan Bose ...	Ditto, 3rd class.
Ditto (proby.) ...	Shaikh Abdullah.	
Settlt. Officer	Abinash Chandra Banarji ...	Ditto, 2nd class. P. of a Rev. Officer and of a Settlt. Officer. Also Supdt. of Survey. P. under sec. 108A of the B. T. Act.
Dist. and Sessions Judge ...	Muhammad Yusuf.	

All Subdivisional Officers are registering officers under sec. 24 of Act XV of 1908 are vested with power of a Collector under secs. 12—15 and 69—71 of Act VIII of 1885.

All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist), employed in the districts of Bengal, are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
	Murshidabad.	
Subordinate Judge ...	Kamini Kumar Mukharji ...	P. of a s. c. c. Judge up to Rs. 500. P. under Act VII of 1889.
Munsif of Berhampore ...	Hari Jiban Banarji ...	P. of a s. c. c. Judge up to Rs. 100. P. under sec. 153(b) of the B. T. Act.
Ditto	Dhirendra Nath Guha (*offg.*).	
Munsif of Lalbagh ...	Ramesh Chandra Basu ...	P. of a s. c. c. Judge up to Rs. 100. P. under Act IX of 1887 to try under s. c. c. Procedure suits not exceeding Rs. 50 within the thanas Shahanagar, Maulabazar and Asanpur of the Lalbagh munsifi. P. under sec. 153, cl. (b), of the B. T. Act. Is a District Delegate.
Munsif of Jangipur ...	Naranath Mukharji ...	P. of a s. c. c. Judge up to Rs. 50.
Ditto	Baman Das Mukharji ...	P. of a s. c. c. Judge up to Rs. 100 and under Act VII of 1889. P. under sec. 15 of the Act.
Munsif of Kandi	Pashupati Basu	P. of a s. c. c. Judge up to Rs. 100 and under Act VII of 1889. P. under sec. 153, cl. (b) of the B. T. Act.
Ditto	Bihari Lal Sarkar	P. of a s. c. c. Judge up to Rs. 100 under sec. 153, cl. (b) of the B. T. Act.
Munsif of Kandi, Lalbagh and Jangipur. (Addl.)	Nilendra Nath Basu (*offg.*) ...	Now employed at Barisal.
Supdt. of Excise and Salt ...	Hem Chandra Mitra.	
Dist. Sub-Regr.	Pramatha Nath Ray ... Surendra Gopal Mitra (*offg.*)	Pr. iv. for 2 mos and 25 days from 27-3-1917.
Supdt. of Police	G. R. MacDowell.	
Dy. Supdt. of Police ...	Hari Kumar Gupta (*offg.*).	
Supdt, Central Lunatic Asylum	Major A. S. M. Peebles, I.M.S.	
Dy. Supdt. ditto ...	Lieut. H. V. Mann, I.S.M.D. ... Civil Asst. Surgn. Bidhu Bhusan Pal (*offg.*).	On deptn. to mily. duty.
Head Master, Nawab Bahadur's Institution, Murshidabad.	J. H. Little.	
Dy. Inspector of Schools ...	Priya Nath Brahmachari.	
Civil Surgeon	Major A. S. M. Peebles, I.M.S. (*offg.*).	*Ex-officio* Medl. Insnr. of Emigrants. Also Supdt. of Jails.
Civil Asst. Surgeon, Berhampore dispensary	Atindra Nath Sen.	
Civil Asst. Surgeon of Kandi subdivn. and dispensary.	Indra Narayan Sen Gupta.	
Civil Asst. Surgn. of Jangipur subdivn. and dispensary.	Madhu Sudan Mukharji.	

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
Murshidabad.		
Civil Asst. Surgn., Lalbagh subdivn. and dispy.	Fazlur Rahman Khan.	
Exc. Engr., Nadia Rivers Divn., Berhampore.	Bhola Nath Banarji.	
Asstt. Engineer	Suresh Chandra Chatarji.	
District Engineer	L. C. Sen Gupta.	
Mymensingh.		
(District head-quarters, Mymensingh.)		
Magte. and Collr.	W. S. Hopkyns.	
Addl. District Magte.* ...	S. Klingenstein	For 6 months + 6 mos. P. of a certificate officer in respect of Court of Wards tenants.
Asstt. Magte. and Collr. ...	Satyendra Nath Modak ...	P. of a magte., 3rd class.
Dy. Magte. and Dy. Collr. ...	Prakash Chandra Singh ...	Ditto, 1st class, and under secs. 110, 133, 260, 407, (2) and 565. Certificate Officer.
Ditto ditto ...	Phakir Chandra Chatarji ...	Ditto, 1st class, and under secs. 110, 133, 260 and 565. P. under Act I of 1894, in the Sadar subdivision. Pr. iv. for 2 mos. from 11-3-1917.
Ditto ditto ...	Uma Prasanna Guha ...	Ditto, 1st class, and under secs. 110, 133, 143, 144, 174, 186, 190 (*c*), 260, 407 (2), 524 and 565. In charge of the treasury.
Ditto ditto ...	Hriday Ranjan Sen ...	Whole-time Batwara Officer. Partition Dy. Collr.
Ditto ditto ...	A. F. M. Abdul Ali ...	P. of a magte., 1st class, and under secs. 110, 133, 186, 190(*1*) (*a*) (*b*) (*c*), 260, 524 and 565. P. under Act I of 1894. In charge of the Sadar subdivision.
Ditto ditto ...	Jatindra Kumar Biswas ...	Ditto, 1st class, and under secs. 110, 133, 186, 190 (*1*) (*b*) (*c*), 260, 524 and 565. P. under Act II of 1886. P. under Act I of 1894.
Ditto ditto ...	Kunja Lal Ghosh	Ditto, 1st class, and under secs. 110, 133, 144, 260 and 565.
Ditto ditto ...	Mahendra Nath Kundu ...	Ditto, 1st class, and under secs. 110, 260 and 565.
Ditto ditto ...	Birendra Mohan Ghosh ...	Ditto, 2nd class.
Ditto ditto (*s. p. t.*)	Surendra Nath Ray ...	Ditto, 3rd class.
Ditto ditto ...	Sarada Prasanna Ghosh ...	P. under Act I of 1894 within the district of Dacca and Mymensingh. Employed on the acqn. of land for Bhairabbazar-Netrakona-Mymensingh Ry., 1-9-1915.

* The Additional District Magistrate of Mymensingh has been appointed to perform the functions of a Collector under—(*i*) section 3, clause (*c*), of the Land Acquisition Act, I of 1894; (*ii*) section 87 of the Land Registration Act, VII (B.C.) of 1876, as amended by Act I (Eastern Bengal and Assam Code) of 1907; and (*iii*) section 61 of the Bengal Land Revenue Sales Act, XI of 1859, as amended by Act VII (B.C.) of 1868, within that district. The said officer is also vested with the powers of an inspecting officer under rules 12 and 19, pages 59 and 60 of the Board's Rules, 1902, and under section 1, page 1 of the Board's Inspection Manual. (Notification No. 1724 R., dated the 18th June 1909). Has *ex-officio* powers under Act II of 1886. (*Vide* Notification No. 169 T—S.R., dated the 23rd May 1913).

The Additional District Magistrate has also been appointed to perform the functions of a Collector under section 24 of the Opium Act, 1878.

The Additional District Magistrate has *ex-officio* powers of a Collector under the Indian Stamp Act, II of 1899. Financial Department No. 249 T., dated the 12th June 1913.

The Additional District Magistrate has also *ex-officio* all powers of a Collector under Eastern Bengal and Assam Excise Act, I of 1910, subject to the control of the Collector of the district. Financial Department Notification No. 284 T.—S.R., dated the 16th June 1913.

The Additional District Magistrate has *ex-officio* powers of a Collector under the B. T. Act, VIII of 1885. *Vide* Revenue Department Notification No. 1330 L.R., dated the 7th July 1913.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
Mymensingh.		
Dy. Magte. and Dy. Collr. ...	Dasharathi Chatarji ...	P. of a magte., 1st class, and under secs. 110, 133, 260, 524 and 565. Asst. Manager, Tagore Raj Mortgaged Estates, 5-11-1912.
Offg. Jt.-Magte. and Dy. Collr.	Satyendra Nath Ray ...	Ditto, 1st class, and under sec. 260. In charge of the Kishorganj subdivn.
Dy. Magte. and Dy. Collr. ...	Gokul Chandra Mazumdar ...	Ditto, 1st class, and under secs. 110, 133 and 260. At Kishorganj.
Ditto ditto ...	Shailendra Nath Basu Mallik ...	Ditto, 1st class and under secs. 110, 133, 260 and 565. At Kishorganj.
Asst. Magte. and Collr. ...	Hubert Graham	Ditto, 1st class. In charge of the Tangail subdivision.
Dy. Magte. and Dy. Collr. ...	Rabindra Nath Ray ...	Ditto, 1st class, and under secs. 110, 260 and 565. At Tangail. P. under Act I of 1894.
Ditto ditto ...	Jatindra Nath Chatarji ...	Ditto, 1st class. At Tangail.
Ditto ditto ...	Atul Chandra Guha ...	Ditto, 1st class and under secs. 110 and 260. P. under Act I of 1894. In charge of the Netrakona subdivision.
Ditto ditto ...	Abu Ali Muhammad Chaudhuri...	Ditto, 1st class, and under secs. 110, 133, 174, 260 and 565. At Netrakona.
Offg. Jt.-Magte. and Dy. Collr.	H. Quinton	Ditto, 2nd class. In charge of the Jamalpur subdivision.
Dy. Magte. and Dy. Collr. ...	Sukesh Chandra Deb Ray ...	Ditto, 1st class, and under secs. 110, 133, 144, 190 (1) (c) and 565.
Settlement Officer[c] ...	F. A. Sachse, I.C.S.	P. of a Rev. Officer and Settlement Officer. Also Supdt. of Survey. P. under secs. 108 and 108A of the B. T. Act.
Asst. Settlement Officer ...	Saiyid Muazzamuddin Husain.	
Ditto ditto ...	Nibaran Chandra Das Gupta.	
Ditto ditto ...	Hira Lal Sen	P. of a Rev. Officer and of an Asst. Settlt. Officer.

All subdivisional officers are registering officers under section 28 of Act XXI of 1883 and are vested with powers of a Collector under sections 12—15 and 69—71 of Act VIII of 1885 and under Act XIX of 1883 as amended by Act XXIII of 1899.

All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist), employed in the districts of Bengal are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886.

[c] Has the powers of a Collector under section 56 of Act VIII of 1885.

The Subdivisional Officer of Kishorganj is an Inspector under Act XIII of 1889.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	Mymensingh.	
Asst. Settlement Officer ...	Jamini Mohan Ghosh.	
Ditto ditto ...	Akshay Kumar Mukharji.	
Ditto ditto ...	Abani Kumar Sen	
Ditto ditto ...	Janaki Bhushan Singh ...	P. of a Rev. Officer and of an Asstt. Settlement Officer.
Ditto ditto ...	Anath Bandhu Chatarji ...	
Ditto ditto ...	Girish Chandra Das.	
Ditto ditto ...	Shams-uz-zuha Ahmad ...	P. of a Rev. Officer and of an Asstt. Settlement Officer.
Ditto ditto ...	Rajendra Narayan Rakshit.	
Sub-Dy. Collr.	Ahmad Ali	P. of a magte., 2nd class. At Tangail.
Ditto	Kali Charan Mukharji ...	Ditto, 2nd class. At Sadar.
Ditto	Priya Nath Das	Ditto, 3rd class. At Netrakona.
Ditto	Azizur Rahman (No. 1) ...	Ditto, ditto ditto.
Ditto	Ahsanullah	Ditto, 2nd class. At Jamalpur.
Supdt. of Excise and Salt ...	Tarakeswar Bhattacharji.	
D. and S. Judge* (a) ...	J. D. Cargill.	
Addl. D. and S. Judge ...	W. A. Seaton (*offg.*).	
2nd Addl. D. and S. Judge ...	Debendra Prasad Bagchi.	
Sub-Judge	Debendra Prasad Bagchi ...	P. of an Asst. Sess. Judge. P. of a s. c. c. Judge up to Rs. 500. Offg. second Addl. D. and S. Judge, Mymensingh.
Ditto	Umesh Chandra Sen (*offg.*).	

Ex-officio special Judge for the purpose of hearing appeals from the decisions of revenue officers employed under the Bengal Tenancy Act in the district. Special Judge for the purpose of hearing appeals from the decisions of revenue officers under sections 105—108 of the Tenancy Act.

(a) *Ex-officio* special Judge under sec. 109 (a) of the B. T. Act in the district of Mymensingh.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
	Mymensingh.	
Sub-Judge	Sharat Chandra Basu (*offg.*) ...	P. of a s. c. c. judge up to Rs. 500.
Ditto	Rajendra Nath Ray ...	P. of an Asstt. Sess. Judge.
Ditto	Sharat Chandra Ghosh (*offg.*).	
Munsif of Mymensingh ...	Muhammad Ibrahim Husain ...	P. of a s. c. c. judge up to Rs. 50.
Ditto	Ananga Mohan Lahiri ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (*b*), of the B. T. Act. P. under Act VII of 1889.
Ditto	Birendra Kumar Datta ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (*b*), of the B. T. Act.
Ditto (Addl.) ...	Girish Chandra Sen	
Munsif of Netrakona ...	Manoranjan Ray	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889. P. under sec. 153 (*b*) of the B. T. Act. Pr. lv. from 5-2-1917 to 5-4-1917.
Ditto	Ramesh Chandra Sen ...	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889.
Ditto	Paziruddin Ahmad.	
Ditto	Satish Chandra Sen (*offg.*).	
Ditto	Atul Chandra Ray (*offg.*)	
Munsif of Iswarganj ...	Jogendra Chandra De Biswas ...	P. of a s. c. c. judge up to Rs. 100, and under Act VII of 1889. P. under sec. 153 (*b*) of the B. T. Act.
Ditto	Indu Shekhar Basu (*offg.*).	
Munsif of Kishorganj ...	Dinesh Chandra Chatarji ...	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889. P. under sec. 153, cl. (*b*), of the B. T. Act.
Ditto	Jitendra Prasad Chatarji ...	P. of a s. c. c. judge up to Rs. 100, and under Act VII of 1889. P. under sec. 153, cl. (*b*), of the B. T. Act.
Ditto	Pyari Mohan Chatarji.	
Ditto	Shyam Lal Basu (*offg.*).	
Munsif of Tangail ...	Amirta Lal Mukharji ...	P. of a s. c. c. judge up to Rs. 100 and under Act VII of 1889. P. under sec. 153 (*b*), of the B. T. Act.
Ditto	Satish Chandra Basu ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (*b*), of the B. T. Act. On deputation to Jamalpur from 10-3-1917.
Ditto	Niradeswar Banarji (*offg.*).	
Munsif of Pingna	Aswini Kumar Das Gupta ...	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889. P. under sec. 153 (*b*) of the B. T. Act. Pr. lv. for 31 days + 22 days from 12-2-1917.
Ditto	Sailesh Chandra Banarji (*offg.*).	
Munsif of Sherpur	Bipin Bihari Mukharji ...	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889. P. under sec. 153, cl. (*b*), of the B. T. Act.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
	Mymensingh.	
Munsif of Jamalpur ...	Rajani Kumar Ghosh ...	P. of a. s. c. c. judge up to Rs. 100 and under Act VII of 1889. P. under sec. 153 (*b*) of the B. T. Act.
Munsif of Jamalpur ...	Srish Chandra Chakrabatti (*offg.*).	
Munsif of Bajitpur ...	Jyotish Chandra Neogi ...	P. of a. s. c. c. judge up to Rs. 100 P. under Act VII of 1889. P. under sec. 153 *b*) of the B. T. Act.
Ditto	Shashi Shekhar Ghosh (*offg.*).	
Special Sub-Regr. ...	Qurbanullah.	
Supdt. of Police ...	A. E. Hayward.	
Addl. Supdt. of Police ...	R. E A Ray (*offg.*).	
Asst. Supdt. of Police ..	H. E. Hansen	At Kishorganj.
Ditto	M. F. Cleary.	
Dy. Supdt. of Police ...	Muhammad Abdul Khaliq ...	At Netrakona.
Ditto	Chandi Cha an Mukharji (*offg.*)...	At Tangail.
Ditto	Shital Chandra Sen (*offg.*).	
Civil Surgeon	Major O. St. John Moses ...	Also Supdt. of Jail.
Civil Asst. Surgeon, Mymensingh Dispensary.	Shah Jahan Ali	On deputation.
	Rajendra Chandra Barory (*offg.*).	
Civil Asst. Surgeon, Tangail subdivision and dispensary.	Rajendra Chandra Datta ...	Pr. lv. for 1 mo. from 17-3-1917.
	Tempy. Asstt. Surgeon Bama Charan Munshi (*offg.*)	
Civil Asst. Surgeon, Jamalpur subdivision and dispensary.	Bama Charan Karmakar.	
Civil Asst. Surgeon, Kishorganj subdivision and dispensary.	Chuni Lal Nandi.	
Civil Asst. Surgeon, Netrakona subdivision.	Surendra Nath Ghosh (II).	

The Civil Surgeon of Mymensingh is, under section 6 of the Indian Factories Act, XII of 1911, Certifying Surgeon of Factories for the district of Mymensingh.

The Assistant Surgeons of the Jamalpur and Tangail subdivisions are Certifying Surgeons of Factories for the Jamalpur and Tangail subdivisions, respectively.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
Mymensingh.		
Dist. Engineer	R. K. Coxe.	
Nadia.		
(District head-quarters, Krishnagar.)		
Magte. and Collr.	Satis Chandra Mukerjee.	
Dy. Magte. and Dy. Collr. ...	Bisweswar Bhattacharji ...	P. of a magte., 1st class, and under secs. 110, 133, 143, 185, 190 (1) (a) (b) (c), 260, 407 (2), 524 and 565. Certificate Officer.
Ditto ditto ...	Jatindra Mohan Singh ...	Ditto, 1st class, and under secs. 110, 133, 260, 407 (2) and 565. In charge of the treasury.
Ditto ditto ...	Debendra Kumar Mitra ...	Ditto, 1st class, and under secs. 110, 133, 143, 144, 260 and 565. P. under Act I of 1894. P. of a Rev. Officer and of an A. S. O.
Ditto ditto ...	Manmatha Nath Mukharji ...	Ditto, 1st class, and under secs. 133, 174, 260, 524 and 565. In charge of the Sadar subdivision temply.
Ditto ditto ...	Binod Bihari Sarkar ...	Ditto, 1st class, and under secs. 260 and 565.
Ditto ditto ...	Ahmad	Ditto, 2nd class. Pr. lv. for 12 days from 6-4-1917.
Ditto ditto (Proby.) ...	Praphulla Chandra Sen.	
Ditto ditto ...	Lalit Chandra Guha ...	Ditto, 1st class, and under secs. 110, 133, 144, 190 (1), (a) (b) (c), 260 and 565. In charge of the Chuadanga Subdivision.
Ditto ditto ...	Muhammad Fazlul Karim ...	Ditto, 1st class, and under secs. 110, 260 and 565. In charge of the Meherpur subdivision. Pr. lv. for 6 weeks + 15 days from 10-2-1917.
Ditto ditto ...	Monoranjan Maitra ...	Ditto, 1st class and under secs. 110, 260 and 565. In charge of the Meherpur Subdivision temply.
Ditto ditto ...	Rai Sahib Bhupendra Nath Mukharji.	Ditto, 1st class, and under secs. 110, 133, 143, 144, 174, 186, 260, 407 (2), 524 and 565. In charge of the Kushtia subdivision.
Ditto ditto ...	Surendra Mohan Basu ...	Ditto, 1st class, and under secs. 110, 133, 190, 260 and 565. In charge of the Ranaghat subdivision.
Sub-Dy. Collr.	Kamini Mohan Das Gupta ...	Ditto, 2nd class. At Meherpur.

All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist), employed in the districts of Bengal are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886.

All Subdivisional Officers are registering officers under section 24 of Act XVII of 1908, and are vested with the power of Collector under sections 12—15 and 69—71 of Act VIII of 1886.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
Nadia.		
Sub-Dy. Collr.	Saiyid Muhammad Ali Sutaimayah	P. of a magte., 2nd class. At Ranaghat. Chaukidari Circle Officer.
Ditto	Abdul Fazl Muhammad Mahmud	Ditto, 2nd class. At Ranaghat.
Ditto (s.p.t.) ...	Quazi Muhammad Sudrul Ola ...	Ditto, 3rd class. At Krishnagar.
Ditto (s.p.t.) ...	Anwar-ul Haq	Ditto, 3rd class. At Kushtia.
Ditto (s.p.t.) ...	Sourindra Kumar Mitra ...	Ditto, 3rd class. At Chuadanga.
Ditto (s.p.t.) ...	Nalini Ranjan Bose ...	Ditto, 3rd class. At Meherpur.
Ditto (Proby.) ...	Nagendra Nath Mazumdar.	
Supdt. of Excise and Salt ...	H. F. P. Mahar (*offg.*).	
D. and S. Judge (*a*) ...	R. E. Jack.	
Sub-Judge	Kali Kumar Sarkar ...	P. of a s. c. c. judge up to Rs. 500.
Munsif of Krishnagar ...	Birendra Chandra Sen Gupta ...	P. of a s. c. c. judge up to Rs. 100.
Ditto ...	Srish Chandra Chaudhuri ...	P. of a s. c. c. judge up to Rs. 100. P. to try orgl. suits up to Rs. 2,000.
Ditto ...	Basanta Bihari Mukharji (*offg.*)	P. under sec. 153, cl. (b), of the B. T. Act.
Munsif of Meherpur ...	Pashupati Mukharji ...	P. of a s. c. c. judge up to Rs. 100, and under Act VII of 1889. P. under sec. 153 (*b*) of the B. T. Act.
Munsif of Chuadanga ...	Jatindra Chandra Lahiri ...	P. of a s. c. c. judge up to Rs. 100, and under Act VII of 1889. P. under sec. 153, cl. (*b*) of the Bengal Tenancy Act.
Ditto Kushtia ...	Srish Chandra Ray ...	Ditto ditto. P. under Act VII of 1889. P. under sec. 153, cl. (*b*) of the B. T. Act.
Ditto ditto ...	Kshitipati Nath Mitra.	
Ditto Ranaghat ...	Ram Dulal Deb ...	P. of a s. c. c. judge up to Rs. 100, and under Act VII of 1889. P. under sec. 153, cl. (*b*), of the Bengal Tenancy Act.
Ditto Kushtia and Ranaghat (*Addl*).	Rabindra Nath Dhar ...	P. of a s. c. c. judge up to Rs 50. Now employed at Kushtia.
Dist. Sub-Registrar ...	Dhanada Charan Mitra.	

(*a*) *Ex-officio* special Judge under sec. 109A of the B. T. Act in the district of Nadia.

All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist), employed in the districts of Bengal are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
	Nadia.	
Supdt of Police	R. G. Watling ... ... Nikhil Chandra Basu (*offg.*)	Alld. pr. lv. for 6 weeks from 10-4-1917.
Dy. Supdt. of Police ...	Nikhil Chandra Basu ...	Offg. Supdt. of Police.
Ditto ...	Aswini Kumar Guha (*offg.*) ...	At Kushtia.
Principal, Krishnagar College ...	R. N. Gilchrist.	
Professor, ditto ...	Rabindra Narayan Ghosh.	
Ditto ditto ...	Rakhal Raj Biswas.	
Ditto ditto ...	Hem Chandra Sarkar ... Bidhubhushan Sen Gupta (*offg.*).	Offg. Asstt. Inspr. of Schools, Burdwan Divn.
Ditto ditto ...	Ramendra Nath Ghosh.	
Ditto ditto ...	Kiran Chandra Mitra.	
Ditto ditto ...	Bhabesh Chandra Banarji.	
Ditto ditto ...	Debendra Nath Sen.	
Law Lecturer, ditto ...	Indu Bhusan Bhaduri.	
Demonstrator in Chemistry, Krishnagar College.	Hem Chandra Datta Gupta.	
Head Master, Krishnagar Collegiate School.	Raj Kumar Das.	
Civil Surgeon	Bharat Chandra Dhar ...	Also Supdt. of Jail.
Civil Asst. Surgeon of the Krishnagar Dispy.	Mahendra Nath Indra ... Dhirendra Nath Sen (*offg.*).	Offg. Barasat Dispy., 24-Parganas.

All Subdivisional Officers are registering officers under sec. 24 of Act XVII of 1908 and are vested with powers of a Collector under secs. 12—15 and 69—71 of Act VIII of 1885.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
Nadia.		
District Engineer	Satish Chandra Chatarji, B.E.	
Noakhali.		
(District head-quarters, Noakhali.)		
Magte. and Collr.	B. C. Prance (*offg.*)	*Ex-officio* appellate powers under the Lepers Act II of 1898. P. under sec. 108A of the B. T. Act.
Special Magte.	L. S. Bingemann	P. of a magte., 1st class.
Dy. Magte. and Dy. Collr. ...	Prafulla Shankar Sen ...	Ditto, 1st class, and under secs. 110, 133, 260, 407 (2) and 565. Sadar Subdivisional Officer. P. under Act I of 1894.
Ditto ditto ...	Girijabhushan Ghoshal ...	Ditto, 2nd class. Khas Tahsildar.
Ditto ditto ...	Nepal Chandra Sen ...	Ditto, 1st class and under secs. 110, 260, and 565.
Ditto ditto ...	Abu Saleb Muhammad Ibrahim	Ditto, 3rd class.
Ditto ditto ...	Afzalur Rahman	Ditto, 1st class, and under sec. 260. P. under Act I of 1894. In charge of the Feni subdivision.
Ditto ditto ...	Shyama Charan Sen ..	Ditto, 1st class, and under secs. 110, 133, 260 and 565.
Settlement Officer	W. H. Thompson	Also Settlement Officer of Tippera.
Technical Adviser	J. Newton.	
Asst. Settlement Officer ...	J. R. Johnson	P. of a Rev. Officer and of an Assistant Settlt. Officer.
Ditto ditto ...	Khan Sahib Abdul Khair Kabiruddin Ahmad.	
Ditto ditto ...	Abdul Jalil Khan	
Ditto ditto ...	Sati Prasad Gangali.	

All subdivisional officers are registering officers under section 28 of Act XXI of 1883 and are vested with powers of a Collector under sections 12—15 and 69—71 of Act VIII of 1885 and under Act XIX of 1883 as amended by Act XVIII of 1889.

All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist), employed in the districts of Bengal are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	Noakhali.	
Asst. Settlement Officer ...	Surendra Nath Sen Gupta ...	P. of a Rev. Officer and of an Asstt. Settlt. Officer.
Ditto ditto ...	Rai Charan Pal	
Ditto ditto ...	Pranendra Narayan Chaudhuri ...	
Ditto ditto ...	Kali Mohan Sen	
Ditto ditto ...	Basanta Kumar Ray.	
Ditto ditto ...	Subodh Chandra Datta.	
Ditto ditto ...	Satish Chandra Chakrabatti ...	P. of a Rev. Officer and of an Asst. Settlt. Officer.
Ditto ditto ...	Prabhat Chandra Banarji ...	
Ditto ditto ...	Ali Azam	
Sub-Dy. Collr.	Abu Muhammad Arshad Ali ...	P. of a magte., 2nd class. At Feni. Chaukidari Circle Officer.
Ditto	Kafiluddin Ahmad	Ditto, 3rd class. At Sadar. Chaukidari Circle Officer.
Ditto	Shashi Bhushan Biswas ...	Ditto, 2nd class. In charge of Hatya Tahsil.
Ditto	Amir Ali	Ditto, 2nd class. At Sadar.
Ditto (*s. p. t.*) ...	Azizur Rahman (No. II) ...	Ditto, 2nd class. At Sandip.
Ditto (*s. p. t.*) ...	Dhurjati Kumar Datta ...	Ditto, 3rd class. At Sadar.
Ditto (*s. p. t.*) ...	Nurul Haq	Ditto, 3rd class. At Feni.
Supdt. of Excise and Salt ...	Aswini Kumar Basu ...	Also Supdt. of Excise, Tippera.
D. and S. Judge* (*a*) ...	Sarada Prasad Bakshi.	
Sub-Judge	Ananda Kishore Datta Ray ...	P. of a s. c. c. judge up to Rs. 500.
Ditto (Addl.) ...	Durga Kanta Ray (*offg.*).	

* *Ex-officio* Special Judge under section 109 A of the Bengal Tenancy Act in the district of Noakhali.

(a) *Ex-officio* special Judge for the purpose of hearing appeals from the decisions of revenue officers employed under the Bengal Tenancy Act in the district of Noakhali. Special Judge for the purpose of hearing appeals from the decision of Revenue officers under sections 105 to 108 of the Tenancy Act.

The District Judge of Tippera is *ex-officio* a special Judge for the purpose of hearing appeals from the decision of Revenue officers employed under the Bengal Tenancy Act in the Chhagalnaya thana of the Noakhali district.

The Collector of Noakhali is vested with the powers of an Assistant Commissioner under Indian Salt Act. XII of 1882

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
Noakhali.		
Munsif of Sudharam ...	Raman Chandra Banarji ...	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889.
Ditto	Praphulla Chandra Guha ...	P. of a s. c. c. judge up to Rs. 50. P. under sec. 153(b) of the B. T. Act.
Ditto	Tribhubaneswar Ray ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153(b) of the B. T. Act.
Munsif of Hatiya	Tarak Nath Basu	P. of a s. c. c. judge up to Rs. 100, and under Act VII of 1889. P. of a magte., 2nd class P. under sec. 153, cl. (b), of the B. T. Act.
Munsif of Lakhmipur ...	Rebati Mohan Thakurtha ...	P. of a s. c. c. judge up to Rs. 100, and under Act VII of 1889. P. under sec. 153, cl. (b), of the B. T. Act.
Ditto	Khagendra Nath Datta ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153. cl. (b), of the B. T. Act. Furlough from 4 mos. and 19 days from 2-1-1917.
Ditto	Surendra Nath Sen (*offg.*)	
Munsif of Sandip	Shib Charan Sil	P. of a s. c. c. judge up to Rs. 100, and under Act VII of 1889. P. under sec. 153, cl. (b), of the B. T. Act. Lv. for 33 days from 5-3-1917.
Ditto	Dwijendra Nath Pal (*offg.*).	
Munsif of Sandip and Lakhimpur (Addl.).	Bhuban Mohan Singh (*offg.*) ...	Now at Feni.
Munsif of Feni	Jogesh Chandra Sen Gupta ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (b), of the B. T. Act. P. under Act VII of 1889.
Ditto	Srish Chandra De.	
Special Sub-Regr.	Raj Kumar Basu.	
Supdt. of Police	Tuni Mirza.	
Civil Surgeon	Jay Krishna Gupta (*offg.*) ...	*Ex-officio* Inspector of Lepers. Also Supdt. of Jail.
Civil Assistant Surgeon ...	Dhiraj Mohan Sen.	
District Engineer	Aswini Kumar Sen.	
Pabna.		
(District head-quarters, Pabna.)		
Magte and Collr.	Rai Ganga Charan Chatarji Bahadur.	
Dy. Magte. and Dy. Collr. ...	Bhabataran Chatarji ...	P. of a magte., 1st class, and under sec. 260. Pr. lv. for 3 mos. from 7-2-1917.
Ditto	Ashutosh Datta	P. of a magte., 1st class, and under secs. 110, 133, 260, 524 and 565. In charge of the Treasury.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
Pabna.		
Dy. Magte. and Dy. Collr. ...	Kumud Bihari Mallik ...	P. of a magte., 1st class, and under secs. 110, 260 and 565. P. under Act II of 1886. P. under Act I of 1894. Also Supdt. of Excise, temply.
Ditto ditto ...	Sukumar Chatarji	Ditto, 1st class. In charge of the Sadar subdivision.
Ditto ditto ...	Bhabataran Chatarji ...	Ditto, 1st class, and under sec. 260. Special Land Acquisition Officer in connection with the Sara-Sirajganj Railway.
Ditto ditto ...	Mazharul Islam	Ditto, 2nd class.
Offg. Jt. Magte. and Dy. Collr. ...	D. Gladding	Ditto. 1st class. In charge of the Sirajganj subdivision.
Dy. Magte. and Dy. Collr. ...	Charu Chandra Gupta ...	Ditto. 1st class, and under sec. 565. At Sirajganj. P. under Act I of 1894.
Ditto ditto ...	Bagala-Prasanna Chakrabatti ...	Ditto. 1st class, and under secs. 110, 133, 143, 144, 174, 188, 190 (1) (*a*) (*b*) (*c*), 260, 524 and 565. At Sirajganj.
Ditto ditto ...	Abul Kasem Wajihuddin Ahmad	Ditto. 2nd class. At Sirajganj.
Sub. Dy. Collr.	Atul Gopal Ray ...	Ditto, 1st class. At Sirajganj.
Ditto (*s. p. t.*) ...	Monoranjan Chaudhuri ...	Ditto, 3rd class. At Sadar.
Sub. Dy. Collr.	Jyotish Chandra Chakrabatti ...	Inspector, Co-operative Societies.
Supdt. of Excise and Salt ...	Muhammad Chainuddin ...	Also Supdt. of Excise and Salt, Bogra.
D. and S. Judge*(*a*) ...	Mahim Chandra Ghosh.	
Sub-Judge	Tinkari Chaudhuri ...	P. of a. s. c. c. judge up to Rs. 500. P. under Act VII of 1889. Is a Dt. Delegate.
Ditto	Nagendra Nath Chatarji (*offg.*) ...	Ditto.
Munsif of Pabna	Debendra Chandra Biswas ...	P. of a. s. c. c. judge up to Rs. 100.
Ditto	Ashutosh Ghosh (II) ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (*b*) of the B. T. Act.
Ditto	Mayataru Haldar.	
Munsif of Sirajganj ...	Dinesh Chandra Ray ...	P. of a s. c. c. judge up to Rs. 50.

All Subdivisional Officers are registering officers under section 28 of Act XXI of 1883 and are vested with the powers of a Collector under sections 12—15 and 69—71 of Act VIII of 1885 and under Act XIX of 1883 as amended by Act XVIII of 1899.

* *Ex-officio* special Judge for the purpose of hearing appeals from the decisions of Revenue officers employed under Bengal Tenancy Act in the district. Special Judge for the purpose of hearing appeals from the decisions of the Revenue officers under sections 105—109 of the Tenancy Act.

The Subdivisional Officer of Sirajganj is also Addl. Inspector of Factories within his subdivision.

(*a*) *Ex-officio* special Judge under sec. 109 A of the B. T. Act in the districts of Pabna and Bogra.

All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist), employed in the districts of Bengal are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	Pabna.	
Munsif of Sirajganj ...	Narendra Nath Neogi ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (*b*), of the B. T. Act.
Ditto	Ram Lal Banarji (*offg*).	
Spl. Sub-Registrar ...	Muzharuddin Chaudhuri.	
Supdt. of Police	C. E. Ezechiel.	
Asst. Supdt. of Police ...	F. P. McKinty	At Sirajganj.
Dy. Supdt. of Police ...	Kshetra Nath Basu (*offg.*).	
Civil Surgeon	Kali Mohan Sen (*offg.*).	
Civil Assistant Surgeon, Sirajganj subdivision and dispensary.	Sharat Chandra Biswas ...	*Ex-officio* Medical Officer of labourers.
District Engineer	J. K. Das Gupta.	
	Rajshahi.	
	(Divisional head-quarters, Jalpaiguri; district head-quarters, Rampur-Boalia.)	
Magte. and Collr.° ...	A. Cassells (*offg.*) ...	*Ex-officio* Supdt. of Ganja revenue in the border villages of Bogra and Dinajpur.
Asst. Magte. and Collr. ...	J. Younie	P. of a magte., 3rd class.
Dy. Magte. and Dy. Collr. ...	Jagadish Chandra Sen ...	Ditto, 1st class, and under sec. 110, 133, 190 (1) (*c*), 260, 407 (2) and 565. Apptd. to be a Commr. for the trial of offences under the Defence of India Act.
Ditto ditto ...	Annada Charan Gupta ...	Ditto, 1st class, and under secs. 110, 133, 144, 260, 407, 435, 524 and 565. P. under Act I of 1894. In charge of the Sadar subdivision.
Ditto ditto ...	Dakshina Ranjan Ghosh ...	Ditto, 1st class, and under secs. 110, 133, 143, 144, 260 and 535. In charge of the Treasury.
Ditto ditto ...	Adiuzzaman Khan... ...	Ditto, 3rd class.

The Civil Surgeon of Pabna is, under sec. 6 of the Indian Factories Act XII of 1911, Certifying Surgeon in the district of Pabna.

The Assistant Surgeon attached to the Sirajganj dispensary is, under sec. 6, Act XII of 1911 (the Indian Factories Act), Certifying Surgeon of that subdivision.

° P. under sec. 15 of the Lepers Act, 1899.

The Subdivisional Officer of Nator is *ex-officio* Collector under the Bengal Embankment Act, II of 1882.

All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist), employed in the districts of Bengal are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
	Rajshahi.	
Dy. Magte. and Collr. ...	Ramesh Chandra Dutta ...	P. of a magte., 1st class, and under secs. 11, 138, 260 and 565. P. under Act I of 1894 In charge of the Naugaon subdivision.
Ditto ditto ...	Nirmal Shanker Sen ...	Ditto, 1st class, and under secs. 260 and 565. P. under Act I of 1894. In charge of the Nator subdivision.
Ditto ditto ...	Rai Sahib Shital Chandra Chatarji.	Whole-time Batwara officer. Employed in con. with the partition progs. of certain estates lying in the districts of Rajshahi, Dinajpur, Bogra and Malda
Ditto ditto ...	Bimal Chandra Singh ...	P. of a magte. 2nd class.
Ditto ditto ...	Kalimuddin Ahmad ...	Ditto, 1st class, and under sec. 565, At Nator.
Ditto ditto (Proby.) ...	Digendra Nath Shaha.	
Settlement Officer ...	W. H. Nelson	P. of a Rev. Officer and Settlement Officer. Also Supdt. of Survey. Offg. magte. Collr. of Rajshahi in addition.
Assistant Settlement Officer ...	Raikishor Mazumdar ...	
Ditto ditto ...	Khan Bahadur Ataur Rahman ...	
Ditto ditto ...	Shamsuddin Muhammad Abdul Aziz.	P. of a Rev. Officer and a Settlement Officer.
Ditto ditto ...	Abdul Latif Chaudhuri ...	
Ditto ditto ...	Lal Mohan Basu	

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
Rajshahi.		
Assistant Settlement Officer ...	Muhammad Hahdad ...	
Ditto ditto ...	Bishnupada Roy ...	
Ditto ditto ...	Kashiswar Chakrabatti ...	P. of a Rev. officer and a Settlement officer.
Ditto ditto ...	Ramesh Chandra Sen.	
Ditto ditto ...	Jamini Kanta Basu.	
Ditto ditto ...	Muzammil Haq.	Pr. lc. for 3 mos. from 12-10-1916.
Sub-Dy. Collr.	Azizur Rahman (No. I) ...	P. of a Magte., 3rd class. At Sadar.
Ditto (*s. p. t.*) ...	Himanshu Jyoti Mazumdar ...	Ditto, 2nd class. At Naugaon.
Ditto (*s. p. t.*) ...	Gyan Chandra Chakrabatti ...	Ditto, 3rd class. At Nator.
Ditto (*s. p. t.*) ...	Akbar Husain Ahmad ...	Ditto, 3rd class. At Sadar.
Supdt. of Excise	Mahiuddin Ahmad.	
D. and S. Judge* (*a*) ...	J. Cornes	Is also D. and S. Judge of Malda. President of the Commrs. for the trial of offences under the Defence of India Act in the Rajshahi Div.
Sub-Judge	Bipin Bihari Ghosh ...	P. of a s. c. c. judge up to Rs. 500.
Munsif of Rampur-Boalia ...	Hira Lal Mukharji	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (*b*), of the B. T. Act.
Ditto Nator† ...	Ashutosh Pal	P. of a s. c. c. judge up to Rs. 100 P. under sec. 153, cl. (*b*), of the B. T. Act.

* *Ex-officio* special Judge for the purpose of hearing appeals from the decisions of Revenue officers employed under the Bengal Tenancy Act in the district.

(*a*) *Ex-officio* special Judge under section 109A of the Bengal Tenancy Act in the districts of Rajshahi and Malda.

† Munsif of Nator is vested with the function of a district court under Act II of 1889.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	Rajshahi.	
Munsif of Naugaon* ...	Kunja Behari Ballabh.	
Ditto Nawabganj ...	Nirod Ranjan Guha ...	P. of a. s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (*b*), of the B. T. Act.
Special Sub-Registrar ...	Taskinuddin Ahmad (*offg.*)	
Supdt. of Police	Major H. Chamney, C.M.G. ...	Principal, Police Training College, Sarda.
Ditto	P. T. Monckton.	
Dy. Supdt. of Police ...	Umesh Chandra Chanda (*offg.*)	
Ditto (Proby.) ...	Jitendra Nath Ray ...	
Ditto (Proby.) ...	Raghabendra Nath Banarji ...	Under training.
Ditto (Proby.) ...	Bankim Chandra Das Gupta ...	
Asst. Inspector of Schools, Rajshahi Division.	Muhammad Sulaiman.	
Principal, Rajshahi College ...	Rai Kumudini Kanta Banarji Bahadur.	
Professor, ditto ...	Raj Mohan Sen.	
Ditto ditto ...	Bama Charan Bhattacharji.	
Ditto ditto ...	Jatindra Chandra Guha.	
Ditto ditto ...	Jyotish Chandra Chatarji.	
Ditto ditto ...	Santosh Kumar Chatarji.	
Ditto ditto ...	Upendra Nath Ghoshal.	
Ditto ditto ...	Panchanan Neogi.	
Ditto ditto ...	Srish Chandra Chakrabatti.	
Ditto ditto ...	Nripendra Chandra Banarji ...	Offg. Professor, Presy. College.
Ditto ditto ...	Hem Chandra De.	
Ditto ditto ...	Ashutosh Maitra.	

* Munsif of Naugaon is vested *ex-officio* with the functions of a district court under Act II of 1889.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
Rajshahi.		
Professor, Rajshahi College ...	Rai Charan Biswas.	
Ditto ditto ...	Ramapada Mazumdar (*offg.*).	
Ditto of Arabic and Persian, Rajshahi College.	Hakim	
Lecturer, Rajshahi College ...	Nalini Kumar Datta.	
Ditto ditto ...	Rampada Mazumdar ...	Offg. Professor, Rajshahi College.
Law Lecturer, Rajshahi College	Sharat Chandra Ray.	
Head Master, Rajshahi Collegiate School.	Chinta Haran Chakrabatti.	
Civil Surgeon*	Dr. R. S. Ashe (*offg.*) ...	Also Supdt. of Jail.
Civil Asst. Surgeon, Rampur-Boalia (Raja P. N. Roy) Dispensary.	Upendra Nath Ray Chaudhuri.	
Civil Assistant Surgeon, Nator subdivision and dispensary.	Pratulpati Gangali ...	On deputation.
	Akhil Ranjan Mazumdar (*offg.*).	Tempy. Asstt. Surgeon.
Civil Assistant Surgeon, Naugaon subdivision and dispensary.	Kshetra Gopal Mukharji.	
Ex. Engineer	Madhu Sudan Sen Gupta.	
Hony. Asstt. Engr. ...	Mahendra Nath Ghosh.	
District Engineer	Pran Kumar Gupta.	
Supdt. of Agriculture ...	Nagendra Nath Gupta.	
Rangpur. **(District head-quarters, Rangpur.)**		
Magte. and Collr.	Jnanendra Nath Gupta.	
Dy. Magte. and Dy Collr. ...	Ramani Mohan Das ...	P. of a magte. 1st class. and under secs. 110, 133, 260, 407 (2), 524 and 565.
Ditto ditto ...	Hari Charan Bose ...	Ditto, 1st class, and under secs. 110, 133, 144, 260 and 565. P. under Act I of 1894. In charge of the Sadar Subdivn.
Ditto ditto ...	Talimuddin Ahmad Tariquol Alam.	Ditto, 1st class. and under secs. 110, 133, 260 and 565. Pr. lv. for 6 weeks from 3-2-1917.
Ditto ditto ...	Manoranjan Maitra ...	Ditto, 1st class, and under secs. 110, 260 and 565. Is still at Meharpur, Nadia.
Ditto ditto ...	Muhammad Abdullah ...	Ditto, 1st class. and under secs. 110, 133, 260, and 565.
Ditto ditto ...	Lehazuddin Ahmad ...	Ditto, 1st class. and under sec. 260. In charge of the Treasury.

* The Civil Surgeon of Rajshahi is, under sec. 5, Act XV of 1881 [The Indian Factories (Act)], Certifying Surgeon of the district and is also Inspector of Lepers in the Rajshahi district.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
Rangpur.		
Dy. Magte. and Dy. Collr.	Kali Das Bagchi	P. of a magte., 1st class.
Ditto ditto ...	Srimanta Kumar Das Gupta ...	Ditto, 1st class, and under secs. 110, 133, 190 (*1*) (*c*), 260 and 565 (*1*) (*3*). In charge of the Kurigaon subdivision.
Ditto ditto ...	Jogesh Chandra Dutta ...	Ditto, 1st class, and under secs. 110, 133, 143, 144, 174, 260 and 565. P. under Act I of 1894. In charge of the Gaibandha subdivision.
Ditto ditto† ...	Jogendra Lal Nandi ...	Ditto, 1st class, and under secs. 110, 133, 144, 260 and 565. In charge of the Nilphamari subdivision. P. under Act I of 1894.
Sub-Deputy Collector ...	Manindra Nath Basu ...	Ditto, 1st class. At Gaibandha.
Ditto	Gyanranjan Mukharji ...	Ditto, 2nd class. At Sadar. Chaukidari Circle Officer.
Ditto	Durga Mohan Ray	Ditto, 2nd class. At Nilphamari.
Ditto	Mahatap Chandra Ghosh ...	Ditto, 2nd class. At Sadar. Chaukidari Circle Officer.
Ditto	Sharat Chandra Basu ...	Ditto, 2nd class. At Kurigaon. Chaukidari Circle Officer.
Ditto	Subodh Chandra Mitra ...	Ditto, 1st class. At Kurigaon.
Ditto (s. *p. t.*) ...	T. Macdonald	Ditto, 3rd class. At Gaibandha.
Ditto (s. *p. t.*) ...	Anadi Nath Sarkar ...	Ditto, 3rd class. At Sadar.
Superintendent of Excise and Salt.	K. Shempa (*offg.*).	
D. & S. Judge* (*a*)... ...	Satyendra Chandra Mallik..	
Sub-Judge‡	Debendra Nath Banarji (*offg.*) ...	P. of a s. c. c. judge up to Rs. 500.

† The officer in charge of the Nilphamari subdivision has powers of a Special Magistrate, 1st class, under Act IV of 1879, and Act I of 1876, in the districts of Dinajpur and Rangpur, and under Chapters XVI and XVII of the Penal Code in Dinajpur. The Magistrate and senior covenanted officer of Rangpur are vested with the same powers.

All Subdivisional Officers are registering officers under section 28 of Act XXI of 1883 and are vested with powers of a Collector under sections 12—15 and 69—71 of Act VIII of 1885 and under Act XIX of 1883 as amended by Act XVIII of 1899.

The following officers are appointed to be Inspectors under Act XIII of 1899 within the Rangpur Municipality :—

(1) The District Magte. of Rangpur; (2) The Supdt., Civil Veterinary Dept., E. B. and Assam; (3) District Supdt. of Police.

All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist), employed in the districts of Bengal are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886.

* *Ex-officio* the special Judge for the purpose of hearing appeals from the decisions of Revenue officers employed under the Bengal Tenancy Act in the district.

(*a*) *Ex-officio* special Judge under section 109 A of the Bengal Tenancy Act in the district of Rangpur.

‡ The Sub-Judge at Rangpur is vested with powers under secs. 344 to 369, Civil Procedure Code, in regard to cases arising within the jurisdiction of the District Judge, Rangpur—Bengal G. O. No. 1309 A.—D., dated the 9th June 1905

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	Rangpur.	
Munsif of Rangpur ...	Gopal Chandra Basu ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (b), of the B. T. Act.
Munsif of Gaibandha ...	Nagendra Nath Bhattacharji ...	P. of a s. c. c. judge up to Rs. 100 and under Act VII of 1889. P. under sec. 153, cl. (b), of the B. T. Act.
Ditto	Sayidur Rahman	P. of a s. c. c. judge up to Rs. 50.
Munsif of Kurigaon ...	Panha Lal Basu	P. of a s. c. c. judge up to Rs. 100, and under Act VII of 1889.
Ditto	Ram Chandra Banarji ...	P. of a s. c. c. judge up to Rs. 100, and under Act VII of 1889. P. under sec. 153, cl. (b), of the B. T. Act.
Munsif of Nilphamari ...	Phani Bhushan Banarji ...	P. of a s. c. c. judge up to Rs. 100, and under Act VII of 1889. P. under sec. 153, cl. (b), of the B. T. Act.
Ditto	Kali Prasanna Bagchi ...	P. of a s. c. c. judge up to Rs. 100.
Special Sub-Registrar ...	Saiyid Abul Mansur.	
Supdt. of Police	W. H. Cornish.	
Ditto (Addl.)	Tripura Charan Mukharji.	
Ditto	J. M. Mackenzie	Superintendent, Railway Police. At Saidpur.
Supdt., Training School ...	Nagendra Mohan Gupta.	
Civil Surgeon	Dr. R. S. Ashe ... ... Rai Ganga Gobinda Sankara Bahadur (*offg.*).	Offg. Civil Surgeon, Rajshahi.
Civil Asst. Surgn. in charge, Rangpur dispensary.	Bipin Chandra Das Gupta.	
Medical Officer, Eastern Bengal Railway, Lalmanirhat.	Lt. A. Luke, I.S.M.D. (Retired) (*offg.*).	
District Engineer	S. K. Dutt.	
Supdt. of Agriculture, in charge Rangpur Dairy Farm.	Jatindra Nath Chakrabatti.	

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
Tippera.		
(District head-quarters, Comilla.)		
Magte. and Collr.	T. Emerson	*Ex-officio* appellate power under the leper Act, III of 1898. *Ex-officio* Political Agent, Hill Tippera. Alld. pr. lv. for 1 mo. from 15-4-1917.
Addl. Dist. Magte.* † ...	Rai Ambika Prasad Sen Bahadur	For 6 mos. + 1 year.
Special Magte.	L. S. Bingemann	P. of a magte., 1st class.
Dy. Magte. and Dy. Collr. ...	Rai Manomohan Chakrabatti Bahadur.	Ditto, 1st class, and under secs. 110, 133, 144, 190 (1) (a) (b) (c), 260, 407 (2) and 565.
Ditto ditto ...	Anisuzzaman Khan ...	Ditto, 1st class, and under secs. 110, 260 and 565. P. under Act I of 1894.
Ditto ditto ...	Niranjan Ray	Ditto, 1st class, and under secs. 110, 133, 143, 144, 174, 186, 190 (1) (a) (b) (c), 260, 524 and 565. In charge of the Sadar subdivision.
Ditto ditto ...	Nirod Krishna Ray ...	Ditto, 1st class, and under secs. 110, 133, 260 and 565.
Ditto ditto ...	Satyendra Nath Batabyal ...	Ditto, 1st class, under secs. 110, 133, 143, 144, 174, 260 and 565.
Ditto ditto ...	Dalilur Rahman	Ditto, 1st class, and under secs. 110, 260 and 565. In charge of the Treasury.
Ditto ditto ...	Saleh Ahmad	Ditto, 1st class, and under sec. 110. P. under Act I of 1894. Pr. lv. for 2 mos. and 15 days from 11-3-1917.
Ditto ditto ...	E. A. Rampezotti	Ditto, 2nd class.
Ditto ditto (Proby.)	Binod Chandra Sen ...	Ditto, 3rd class.
Ditto ditto ...	Nabagauranga Basak ...	P. of a magte., 1st class, and under secs. 260 and 565. In charge of the Brahmanbaria subdivision.
Ditto ditto ...	Basanta Kumar Das ...	Ditto, 1st class, and under secs. 133, 260 and 565. At Brahmanbaria.
Ditto ditto ...	Abdus Sobhan Mahmud ...	Ditto, 3rd class. At Brahmanbaria Pr. lv. for 2 mos. and 15 days from 3-3-1917.
Ditto ditto ...	Saiyid Salamatullah ...	Ditto, 1st class, and under secs. 110 and 565. At Brahmanbaria.
Offg. Jt.-Magte. and Dy. Collr. ...	D. S. Fraser	Ditto, 1st class, and under sec. 260. In charge of the Chandpur subdivision.
Dy. Magte. and Dy. Collr. ...	Abu Ahmad Abdul Basit ...	Ditto, 1st class, and under secs. 110, 133, 260 and 565. At Chandpur.
Settlement Officer	W. H. Thompson.	
Sub.-Dy. Collr.	Upendra Chandra Narayan Chandhuri.	Ditto, 2nd class. At Brahmanbaria. Chaukidari Circle Officer.

All Subdivisional Officers are registering officers under section 2 of Act XXI of 1883, and are vested with powers of a Collector under sections 12—15 and 69—71 of Act VIII of 1885, and under Act XIX of 1883, as amended by Act XVIII of 1899.

* Has the powers of a Collector under the Land Acquisition Act I of 1894. He is also vested with the powers of an Inspecting officer under rules 12 to 19, pages 59 and 60 of the Board's Rules, 1902, and under rule 1, page 1 of the Board's Inspection Manual. (Notification No. 1194 R., dated the 4th May 1909.) Has also powers under sec. 24 of the Opium Act, 1878, sec. 2, sub-sec. 9, cl. (b) of the Indian Stamp Act, 1899, and also section 40 of the Indian Income-tax Act, 1886. (Notifications Nos. 3685 M., 3686 M., and 3687 M., dated the 25th May 1909).

† Has *ex-officio* special appellate powers of a Collector under the Land Registration Act VII of 1876. Has powers of a Collector under the Bengal Land Revenue Sales Act, XI of 1859.

All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist), employed in the districts of Bengal, are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
Tippera.		
Sub.-Dy. Collr.	Sharat Kumar Guha ...	P. of a magte., 2nd class. At Brahmanbaria. Chaukidari Circle Officer.
Ditto ...	Raqibuddin Ahmed ...	Ditto, 2nd class. At Comilla. Chaukidari Circle Officer.
Ditto	Atul Chandra Bagchi ...	Ditto, 3rd class. At Sadar. Chaukidari Circle Officer.
Ditto	Khundkar Ali Tahir ...	Ditto, 2nd class. At Brahmanbaria. Pr. lv. for 3 mos. from 2-3-1917.
Ditto	Muhammad Yahya ...	Ditto, 2nd class. At Chandpur.
Ditto	Sharat Chandra Guha ...	Ditto, 2nd class. At Chandpur.
Ditto	Anil Chandra Lahiri ...	Ditto, 2nd class. At Brahmanbaria.
Ditto (s. *p. t.*)	Bisweswar Sen Gupta ...	Ditto, 3rd class. Chaukidari Circle Officer.
Ditto (s. *p. t.*) ...	Sushil Chandra Datta ...	Ditto, 2nd class. At Comilla.
Ditto (s. *p. t.*) ...	Dinesh Chandra Sen Gupta ...	Ditto, 3rd class. At Comilla.
Ditto (s. *p. t.*) ...	Surendra Nath Ray ...	Ditto, 3rd class. At Comilla.
Ditto (s. *p. t.*) ...	Akshay Kumar Mazumdar ...	Ditto, 3rd class. At Comilla.
Ditto (Proby.) ...	Bazlur Rahman.	
Ditto (Proby.) ...	Fazlul Azim.	
Supdt. of Excise and Salt ...	Aswini Kumar Basu ...	Also Supdt. of Excise, Noakhali.
D. and S. Judge*(*b*) ...	F. W. Ward.	
Addl. D. and S. Judge ...	G. P. Hogg.	
Sub-Judge	Chandra Bhushan Banarji ...	P. of a s. c. c. judge up to Rs. 500.
Ditto	Kumudini Kanta Ray (*offg.*) ...	Ditto ditto.
Ditto (Addl.)	Narendra Nath Ghosh (*offg.*) ...	Also Subordinate Judge, Dacca.
Ditto	Girindra Nath Mukharji ...	P. of a s. c. c. judge up to Rs. 500. Now employed as Addl. Sub. Judge, Faridpur.

Ex-officio Special Judge for the purpose of hearing appeals from the decisions of Revenue officers employed under the Bengal Tenancy Act in the district and also in the Chhagalnaya thana for the Noakhali district and also in village Srindihi and four other villages in the district of Dacca. Special Judge for the purpose of hearing appeals from the decisions of the Revenue officers under secs. 105—108 of the Tenancy Act.

(*b*) *Ex-officio* Special Judge under sec. 109 A of the Bengal Tenancy Act in the district of Tippera.

† Will sit at Chittagong from 16th April 1917.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	Tippera.	
Munsif of Comilla	Kunja Bihari Ghosh ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (b), of the B. T. Act.
Ditto	Rajendra Lal Sadhu ...	Ditto ditto.
Ditto	Rama Prasad Maitra ...	P. of a s. c. c. judge up to Rs. 250. P. to try original suits up to the value of Rs. 2,000. P. under sec. 153, cl. (b), of the B. T. Act.
Ditto	Kshirada Ranjan Dhar ...	P. of a s. c. c. judge up to Rs. 100.
Ditto	Rai Mohan Karmakar ...	P. of a s. c. c. judge up to Rs. 100. Employed at Chandpur.
Ditto	Jatindra Kumar Basu ...	P. of a s. c. c. judge up to Rs. 50.
Ditto	Lutfur Rahman	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (b), of the B. T. Act.
Munsif of Brahmanbaria ...	Rebati Mohan Goswami ...	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889. P. under sec. 153 (b) of the B. T. Act.
Ditto ...	Nishi Kanta Banarji (*offg.*).	
Munsif of Nabinagar ...	Iradat Ulla	Ditto ditto.
	Harendra Kumar Maitra (*offg.*).	
Munsif of Kasba	Hem Chandra Mitra ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (b), of the B. T. Act. P. under Act VII of 1889.
Ditto ...	Rai Mohan Karmakar ...	P. of a s. c. c. judge up to Rs. 100. Now employed at Comilla.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	Tippera.	
Munsif of Chandpur ...	Hem Chandra Das Gupta ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (b), of the B. T. Act. P. under Act VII of 1889.
Ditto ...	Hem Chandra Basu (No. III) ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (b), of the B. T. Act.
Ditto ...	Gaur Krishna Basu ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (b), of the B. T. Act.
Inspector of Registration offices	Khan Sahib Amjad Ali.	
Special Sub-Registrar ...	Sharat Chandra Singh Thakur.	
Superintendent of Police ...	E. G. Hart.	
Addl. Supdt. of Police ...	R. M. Wright.	
Dy. Supdt. of Police ...	Narendra Chandra Bhattacharji ...	At Brahmanbaria.
Ditto ...	Karunamay Ray ...	At Chandpur. Priv. lv. for 2 mos. from date of relief.
Civil Surgeon	Dr. Kumar Bhabendra Narayan (*offg.*).	*Ex-officio* Inspector of Lepers. Also Supdt. of Jails.
Asst. Surgeon, Comilla ...	Sharat Chandra Datta ...	Holding charge of the Charitable Dispy. in addition.
Ditto, Brahmanbaria ...	Barada Shankar Bhattacharji ... Bidyananda Datta (*offg.*).	On deputation.
Asst. Inspectress of Schools, Comilla.	Miss Sybil Webb ... Miss Surabala Ghosh (*offg.*).	Comb. lv. for 1 yr. and 1 mo. from 20-7-1916.
District Engineer	Pyari Charan Gupta.	

The Civil Surgeon of Tippera is, under section 6 of the Indian Factories Act, XII of 1911, Certifying Surgeon of Factories in the district of Tippera.

The Assistant Surgeons of Chandpur and Brahmanbaria subdivisions are Certifying Surgeons in their respective divisions.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	24-Parganas.	
	(Divisional head-quarters, Calcutta; district head-quarters, Alipore.)	
Magte. and Collr.*	A. G. R. Henderson ...	
Addl. Dist. Magte.	Rai Ramsadan Bhattacharji Bahadur.	For 6 mos.
Dy. Magte. and Dy. Collr. ...	Chandra Shekhar Kar ...	P. of a magte., 1st class, and under secs. 110, 133, 190(1)(c), 260, 407(2) and 565.
Ditto ...	Rai Ram Sadan Bhattacharji Bahadur.	Ditto. 1st class, and under secs. 110, 133, 186, 190 (*1*) (c), 260, 407 (2), 524 and 565. In charge of the Sadar subdivision. Apptd. to act as Addl. Dt. Magte., 24-Parganas, temply.
Ditto ...	Tara Prasanna Acharji ...	Ditto, 1st class, and under secs. 110, 133, 260, 407(2) and 565.
Ditto ...	Rai Suresh Chandra Singh Bahadur.	Ditto, 1st class, and under secs. 110, 133, 260 and 565. At Sealdah.
Ditto ...	Bakhal Mohan Banarji ...	Ditto, 1st class, and under secs. 110, 133, 144, 260, 435 and 565.
Ditto ...	Rai Priya Lal Gangali Bahadur...	Ditto, 1st class. In charge of the Treasury.
Ditto ...	Hem Chandra Chatarji ...	Ditto, 1st class, and under secs. 110, 133, 260 and 565. Certificate Officer.
Ditto ...	Saiyid Abdus Salik ...	Ditto, 1st class, and under secs. 110, 143, 190 (*1*) (c), 260, 524 and 565 (*1*) (*3*). In charge of Political Pension Office.
Ditto ...	Ashutosh Mukharji ...	Ditto, 1st class, and under secs. 110, 260 and 565. At Sadar. Posted to the district. Who'e-time Presy. Magte. for not exceeding 3 mos. + 3 mos.
Ditto ...	Nasiruddin Ahmad ...	Ditto, 1st class, and under secs. 110, 133, 260 and 565.
Ditto ...	Nrisinha Ranjan Mukharji ...	Ditto. 1st class, and under secs. 133, 260 and 565.
Ditto ...	Wali-ul Islam	Ditto, 2nd class.
Ditto ...	Muhammad Hedayat Ali ...	Ditto, 2nd class. Employed in carrying out survey of the Tolly's Nala surplus lands and for causing permanent boundary marks to be erected
Ditto ...	Praphulla Chandra Das Gupta ...	Ditto, 2nd class. Asst. Supdt. of Survey in respect of all lands comprised within the Tollygunge Municipality. Employed in carrying out survey of the Tolly's Nala surplus lands and causing permanent boundary marks to be erected thereon.

All Subdivisional Officers are registering officers under section 24 of Act XVII of 1908, and are vested with powers of Collector under sections 12—15 and 69—71 of Act VIII of 1885.

*The Collector of the 24-Parganas is *ex-officio* Collector of Calcutta.

N.B.—The Subdivisional Officers of Satkhira, Barasat and Basirhat have powers of a Collector under Act V (B.C.) of 1880.

The senior covenanted asst. or jt.-magte. of the 24-Parganas is *ex-officio* Inspector of Factories outside the Barrackpore subdivision.

The Magistrate of the 24-Parganas is *ex-officio* visitor of the lunatic asylums at Bhawanipur and Dullunda. He is also a member of the Board constituted for the Prince Albert Victor Asylum for Lepers.

The Collector of 24-Parganas is vested with the powers of an Assistant Commissioner under Indian Salt Act XII of 1882.

The Addl. Dt. Magte. of the 24-Parganas is *ex-officio* Collector under Act VIII of 1885, Act VII of 1876 Act IX of 1880, Act XI of 1859, Act I of 1894, Act V of 1909, Act II of 1899, and Act II of 1886.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
24-Parganas.		
Dy. Magte. and Dy. Collr.	Brajanath Roy ...	P. of a magte., 2nd class. Employed in Cess Revaluation work.
Ditto (Proby.) ...	Sachindra Nath Chatarji.	
Ditto (Proby.) ...	Abul Fazl Muhammad Mohsin Ali.	
Offg Jt.-Magte. and Dy. Collr. ...	J. M. Pringle	P. of a magte., 1st class, and under secs. 110, 133, 524 and 565. In charge of the Barrackpore subdivision.
Dy. Magte. and Dy. Collr. ...	Manohar Gupta	Ditto, 1st class, and under sec. 565. At Barrackpore.
Ditto ...	Ambika Charan Datta ...	Ditto, 1st class, and under secs. 110, 133, 260, 524 and 565. In charge of the Diamond Harbour subdivision.
Ditto ...	Mani Mohan Ghosh ...	Ditto, 1st class, and under sec. 565. At Diamond Harbour.
Ditto ...	Suresh Chandra Sen (No. II.) ...	Ditto, 1st class, and under secs. 110, 133, 190(1)(c), 260 and 565. In charge of the Basirhat subdivision.
Ditto ...	Suresh Chandra Ghatak ...	Ditto, 1st class, and under secs. 110, 133, 190(c), 260, 524 and 565. In charge of the Barasat subdivision.
Asstt. Sett. Officer	Sudhir Chandra Ghosh ...	P. of a Rev. Officer and an Asst. Sett. Officer.
Sub-Dy. Collr.	Rajendra Nath Gupta ...	P. of a magte., 2nd class. At Diamond Harbour.
Ditto	Harish Chandra Sarkar ...	Ditto, 2nd class. At Barrackpore.
Ditto	Jyoti Prasad Das	Ditto, 2nd class. At Alipore.
Ditto	Haran Chandra Sen ...	Ditto, 2nd class. Supdt., Orphanganj Govt. Market, Kidderpore.

All Subdivisional Officers are registering officers under section 4 of Act XVII of 1908, and are vested with powers of a Collector under sections 12—15 and 69—71 of Act III of 1885.

The Deputy Magistrate of Sealdah is empowered to direct the detention of youthful offenders in the Reformatory School under Act VIII of 1897.

All Subdivisional Officers, including Sadar Subdivisional Officers (where they exist), employed in the districts of Bengal are appointed Deputy Collectors of Income-tax and vested with the powers of a Collector under Act II of 1886.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
24-Parganas.		
Sub-Dy. Collr.	Quazi Muhammad Muhiuddin ...	P. of a magte., 3rd class. At Diamond Harbour.
Ditto	Bankim Bihari Mitra ...	Ditto, 1st class. At Barasat.
Ditto	Akshay Kumar Bose ...	Ditto, 2nd class. At Basirhat.
Ditto (s *p t.*) ...	Haridas Chatarji	Ditto, 2nd class. At Alipore.
Ditto (s. *p. t.*) ...	Kali Charan Som ...	Ditto, 3rd class. At Alipore.
Ditto (s. *p. t.*) ...	Muhammad Faridulla ...	Ditto, 3rd class. At Alipore.
Ditto (s. *p. t.*) ...	Phani Lal Mukharji ...	Ditto, 3rd class.
Ditto (Proby.) ...	Bijay Gobinda Ghoshal.	
Ditto (Proby.) ...	Anadi Nath Lahiri.	
Ditto (Proby.) ...	Abdul Karim.	
Ditto (Proby.) ...	Saiyid Ali Ahmad.	
Ditto (Proby.) ...	Abu Muhammad Ubaidur Rashid.	
Supdt. of Excise and Salt ...	N. W. Parish.	
Dist. and Sessions Judge § (*a*) ...	A. H. Cuming ... H. P. Duval (*offg.*).	Offg. Judge, High Court, Calcutta.
Addl. Dist. and Sessions Judge§	A. J. Chotzner	*Ex-officio*. P. to perform the functions of a principal civil court of original jurisdiction, under sec. 3, cl. (*d*) of Act I of 1894, within the limits of Calcutta. Also Addl. D. and S. Judge, Hooghly.
2nd Addl. ditto § ...	J. A. Woodhead ...	P. to perform the functions of a principal civil court of original jurisdiction, under sec. 3, cl. (d), of Act I of 1894, wit in the limits of Calcutta and 24-Parganas.
3rd Addl. ditto ...	J. H. A. Street.	

§The Judge of the 24-Parganas is *ex-officio* visitor of the lunatic asylums at Bhawanipur and Dullunda and is *ex-officio* judge under Act X of 1870 for the town of Calcutta.

(*a*) *Ex-officio* special judge under section 109 A of the Bengal Tenancy Act in the district of 24-Parganas.

A special allowance of Rs. 250 a month is attached to the office of the Dy. Collr. in charge of the Sundarbans, and this allowance and the pay combined, exclusive of boat and other travelling allowances, should not be less than Rs. 500 nor more than Rs. 800. (Secretary of State's Despatch No. 96 Rev., dated 30th June 1905.) The Subdivisional Officer of Barrackpore is *ex-officio* Inspector of Factories within the subdivision.

Admitted to the Calcutta house-allowance scheme from 1st November 1908. In hot weather the allowance will be Rs. 60 a month when the officer is drawing less than Rs. 2,000 a month, otherwise it will be nil; in cold weather the allowance will be Rs. 175 a month when the officer is drawing less than Rs. 2,000 a month, otherwise it will be Rs. 150 a month.

The Addl. D. and S. Judge of 24-Parganas and Hooghly has *ex-officio* powers under Act I of 1894 within the local limits for Calcutta.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	24-Parganas.	
Sub-Judge	Ambika Charan Mazumdar ...	P. of a s. c. c. judge up to Rs. 500 within the local limits of those portions of the Alipore and Sealdah Munsifs which lie outside the jurisdiction of the Small Cause Court proper at Sealdah.
Ditto	Siddheswar Chakrabatti ...	Ditto ditto.
Ditto	Bhagabati Charan Kundu.	P. to try cases under the Insolvency Act in which debts do not exceed Rs. 5,000.
Ditto	Amulya Chandra Ghosh (*offg.*) ...	Has p. of a sub-judge and a s. c. c. judge
Judge, S. C. Court, Sealdah ...	Umesh Chandra Chakrabatti ...	P. of a Sub-judge. At Sealdah.
Munsif of Alipore	Mati Lal Ray	P. of a s. c. c. judge up to Rs. 100 within the local limits of that portion of the Alipore Munsifi which lies outside the limits of the jurisdiction of the small cause court of Sealdah. P. under sec. 153, cl. (*b*), of the Tenancy Act. P. to try rent-suits up to Rs. 50.
Ditto (Addl.) ...	Upendra Chandra Ghosh ...	P. of a s. c. c. judge up to Rs. 100 within the Basirhat Munsifi. Now employed at Basirhat.
Ditto	Kshetra Nath Banarji ...	P. of a s. c. c. judge up to Rs. 100 within the local limits of that portion of the Alipore Munsifi which lies outside the limits of the jurisdiction of the Small Cause Court proper at Sealdah. P. under sec. 153, cl. (*b*), of the B. T. Act. P. to try rent-suits of homestead lands up to Rs. 50.
Ditto	Narendra Nath Lahiri ...	P. of a s. c. c. judge up to Rs. 100 within the local limits of that portion of the Alipore Munsifi which lies outside the limits of the jurisdiction of the s. c. c. at Sealdah. P. under sec. 153, cl. (*b*), of the B. T. Act. P. to try rent-suits of homestead lands up to Rs. 50.
Ditto (Addl.) ...	Bimal Chandra Chatarji ...	Now employed at Basirhat.
Munsif of Sealdah	Kumud Kanta Basu ...	P. of a s. c. c. judge up to Rs. 100 within the local limits of that portion of the Sealdah Munsifi which lies outside the limits of the jurisdiction of the s. c. c. proper at Sealdah. P. under sec. 153, cl. (*b*), of the Tenancy Act. P. to try rent-suits of homestead lands up to Rs. 50. P. to try original suits up to Rs. 2,000.

Munsifs of Alipore and Sealdah in the district of 24-Parganas are vested with power to try under s. c. c. procedure suits for the recovery of rents of homestead lands within their respective jurisdiction up to Rs. 50.

Munsif of the second Court, Sealdah, is apptd., in addn. to his own duties, to be Regr. of the s. c. c., Sealdah, with p. to try suits of the s. c. c. class up to Rs. 20 within the limits of the Sealdah Small Cause Court.

The two permanent Subordinate Judges and the permanent Munsifs of Alipore and the Munsif of the first court of each of the outlying stations, Barasat, Baruipur, Basirhat, Diamond Harbour and Sealdah are authorized to take cognizance of proceedings under the Indian Succession Act, X of 1815, which cannot be dealt with by the district delegates within their respective jurisdictions.

The two permanent Sub-Judges of the 24-Parganas, the permanent Munsif of Alipore the Munsifs of the Courts of Barasat and Baruipur are vested with powers under Act VII of 1889.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
24-Parganas.		
Sub-Dy. Collr.	Quazi Muhammad Muhiuddin ...	P. of a magte., 3rd class. At Diamond Harbour.
Ditto	Bankim Bihari Mitra ...	Ditto, 1st class. At Barasat.
Ditto	Akshay Kumar Bose ...	Ditto, 2nd class. At Basirhat.
Ditto (s *p t.*) ...	Haridas Chatarji	Ditto, 2nd class. At Alipore.
Ditto (s. *p. t.*) ...	Kali Charan Sou ...	Ditto, 3rd class. At Alipore.
Ditto (s. *p. t.*) ...	Muhammad Faridulla ...	Ditto, 3rd class. At Alipore.
Ditto (s. *p. t.*) ...	Phani Lal Mukharji ...	Ditto, 3rd class.
Ditto (Proby.) ...	Bijay Gobinda Ghoshal.	
Ditto (Proby.) ...	Anadi Nath Lahiri.	
Ditto (Proby.) ...	Abdul Karim.	
Ditto (Proby.) ...	Saiyid Ali Ahmad.	
Ditto (Proby.) ...	Abu Muhammad Ubaidur Rashid.	
Supdt. of Excise and Salt ...	N. W. Parish.	
Dist. and Sessions Judge § (*a*) ...	A. H. Cuming ... H. P. Duval (*offg.*).	Offg. Judge, High Court, Calcutta.
Addl. Dist. and Sessions Judge§	A. J. Chotzner	*Ex-officio*. P. to perform the functions of a principal civil court of original jurisdiction, under sec. 3, cl. (*d*) of Act I of 1894, within the limits of Calcutta. Also Addl. D. and S. Judge, Hooghly.
2nd Addl. ditto § ...	J. A. Woodhead ...	P. to perform the functions of a principal civil court of original jurisdiction, under sec. 3, cl. (*d*), of Act I of 1894, wit in the limits of Calcutta and 24-Parganas.
3rd Addl. ditto ...	J. H. A. Street.	

§The Judge of the 24-Parganas is *ex-officio* visitor of the lunatic asylums at Bhawanipur and Dullunda and is *ex-officio* judge under Act X of 1870 for the town of Calcutta.

(*a*) *Ex-officio* special judge under section 109 A of the Bengal Tenancy Act in the district of 24-Parganas.

A special allowance of Rs. 250 a month is attached to the office of the Dy. Collr. in charge of the Sundarbans, and this allowance and the pay combined, exclusive of boat and other travelling allowances, should not be less than Rs. 500 nor more than Rs. 800. (Secretary of State's Despatch No. 96 Rev., dated 30th June 1905.) The Subdivisional Officer of Barrackpore is *ex-officio* Inspector of Factories within the subdivision.

Admitted to the Calcutta house-allowance scheme from 1st November 1908. In hot weather the allowance will be Rs. 60 a month when the officer is drawing less than Rs. 2,000 a month, otherwise it will be nil; in cold weather the allowance will be Rs. 175 a month when the officer is drawing less than Rs. 2,000 a month, otherwise it will be Rs. 150 a month.

The Addl. D. and S. Judge of 24-Parganas and Hooghly has *ex-officio* powers under Act I of 1894 within the local limits for Calcutta.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
24-Parganas.		
Sub-Judge	Ambika Charan Mazumdar ...	P. of a s. c. c. judge up to Rs. 500 within the local limits of those portions of the Alipore and Sealdah Munsifs which lie outside the jurisdiction of the Small Cause Court proper at Sealdah.
Ditto	Siddheswar Chakrabatti ...	Ditto ditto.
Ditto	Bhagabati Charan Kundu.	P. to try cases under the Insolvency Act in which debts do not exceed Rs. 5,000.
Ditto	Amulya Chandra Ghosh (*offg.*) ...	Has p. of a sub-judge and a s. c. c. judge
Judge, S. C. Court, Sealdah ...	Umesh Chandra Chakrabatti ...	P. of a Sub-judge. At Sealdah.
Munsif of Alipore	Mati Lal Ray	P. of a s. c. c. judge up to Rs. 100 within the local limits of that portion of the Alipore Munsifi which lies outside the limits of the jurisdiction of the small cause court of Sealdah. P. under sec. 153, cl. (*b*), of the Tenancy Act. P. to try rent-suits up to Rs. 50.
Ditto (Addl.) ...	Upendra Chandra Ghosh ...	P. of a s. c. c. judge up to Rs. 100 within the Basirhat Munsifi. Now employed at Basirhat.
Ditto	Kshetra Nath Banarji ...	P. of a s. c. c. judge up to Rs. 100 within the local limits of that portion of the Alipore Munsifi which lies outside the limits of the jurisdiction of the Small Cause Court proper at Sealdah. P. under sec. 153, cl. (*b*), of the B. T. Act. P. to try rent-suits of homestead lands up to Rs. 50.
Ditto	Narendra Nath Lahiri ...	P. of a s. c. c. judge up to Rs. 100 within the local limits of that portion of the Alipore Munsifi which lies outside the limits of the jurisdiction of the s. c. c. at Sealdah. P. under sec. 153, cl. (*b*), of the B. T. Act. P. to try rent-suits of homestead lands up to Rs. 50.
Ditto (Addl.) ...	Bimal Chandra Chatarji ...	Now employed at Basirhat.
Munsif of Sealdah	Kumud Kanta Basu ...	P. of a s. c. c. judge up to Rs. 100 within the local limits of that portion of the Sealdah Munsifi which lies outside the limits of the jurisdiction of the s. c. c. proper at Sealdah. P. under sec. 153, cl. (*b*), of the Tenancy Act. P. to try rent-suits of homestead lands up to Rs. 50. P. to try original suits up to Rs. 2,000.

Munsifs of Alipore and Sealdah in the district of 24-Parganas are vested with power to try under s. c. c. procedure suits for the recovery of rents of homestead lands within their respective jurisdiction up to Rs. 50.

Munsif of the second Court, Sealdah, is apptd., in addn. to his own duties, to be Regr. of the s. c. c., Sealdah, with p. to try suits of the s. c. c. class up to Rs. 20 within the limits of the Sealdah Small Cause Court.

The two permanent Subordinate Judges and the permanent Munsifs of Alipore and the Munsif of the first court of each of the outlying stations, Barasat, Baruipur, Basirhat, Diamond Harbour and Sealdah are authorized to take cognizance of proceedings under the Indian Succession Act, X of 1815, which cannot be dealt with by the district delegates within their respective jurisdictions.

The two permanent Sub-Judges of the 24-Parganas, the permanent Munsif of Alipore the Munsifs of the Courts of Barasat and Baruipur are vested with powers under Act VII of 1889.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	24-Parganas.	
Munsif of Sealdah	Sarada Kumar Sen Gupta ...	P. of a s. c. c. judge up to Rs. 100 within the local limits of that portion of the Sealdah Munsifi which lies outside the limits of the jurisdiction of the s. c. c. proper at Sealdah. P. under sec. 153, cl. (*b*), of the Bengal Tenancy Act. P. to try rent suits up to Rs. 50. P. under Act VII of 1889.
Munsif of Diamond Harbour ...	Satindra Nath Guha ...	P. of a s. c. c. judge up to Rs. 100 and under Act VII of 1889. P. under sec. 153, cl. (*b*), of the B. T. Act.
Ditto ditto ...	Rebati Ranjan Mukharji ...	P. of a s. c. c. judge up to Rs. 100 and under Act VII of 1889. P. under sec. 153, cl. (*b*), of the B. T. Act.
Ditto ditto ...	Sarada Prasad Datta ...	P. of a s. c. c. judge up to Rs. 100 and under Act VII of 1889.
Ditto ditto ...	Satchidananda Mukharji ...	P. of a s. c. c. judge up to Rs. 100.
Munsif of Barasat	Bhupendra Nath Mukharji ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (*b*), of the B. T. Act.
Ditto	Bipin Bihari Chatarji ...	P. of a s. c. c. judge up to Rs 100. P. under sec. 153, cl. (*b*), of the B. T. Act.
Munsif of Basirhat ...	Prabodh Chandra Ray ...	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889. P. under sec. 153 cl. (*b*), of the B. T. Act.
Ditto	Bimal Chandra Chatarji ...	P. of a s. c. c. judge up to Rs. 100. P. under Act VII of 1889. P. under sec. 153, cl. (*b*), of B. T. Act.
Munsif of Baruipur ...	Satish Chandra Ghosh ...	P. of a s. c. c. judge up to Rs. 100. P. under sec. 153, cl. (*b*), of the B. T. Act.
Ditto	Ramesh Chandra Bardhan ...	P. of a s. c. c. judge up to Rs. 100.
Dist. Sub-Registrar ...	Rai Sahib Tarapada Ghosh.	
Dist. Engr. at Alipore ...	Karuna Kumar Dutta Gupta.	
Hony. Asst. Engr., Hastings ...	D. R. G. Turnbull.	
Cantonment Magte. of Barrackpore and Dum-Dum.	J. M. Pringle	P. of a magte., 1st class.

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	REMARKS.
	24-Parganas.	
Supdt. of Police, E. B. Ry., Scaldah.	A. E. O'Sullivan.	
Supdt. of Police	F. L. Peters.	
Ditto (Addl.) ...	L. H. Burton.	
Asst. Supdt. of Police ...	J. E. Spencer	At Barrackpore. On special duty in the Intelligence Branch, temply.
Dy. Supdt. of Police ..	Rai Sahib Raj Mohan Das.	
Ditto ditto ...	Bhola Nath Banarji ...	In charge of the Sadar B division and the Diamond Harbour subdivision. Allowed priv. lv. for 2 mos. from -4-1917.
Ditto ditto ...	Rai Sahib Kumud Mohan Das Gupta.	
Ditto ditto (offg.) ...	Anukul Chandra Roy.	
Chaplain of Barrackpore ...	Rev. E. R. Wilkinson.	
Chaplain of St. Stephen's Church, Kidderpore.	Rev. F. G. H. Tambling.	
Chaplain of Dum-Dum ...	Rev. E. R. Wilkinson.	
Supdt., Central Jail, Alipore ...	Lt.-Col. J. Mulvany, I.M.S.	
Civil Surgeon	Lt.-Col. E. A. W. Hall, I.M.S. ...	*Ex-officio* consulting physician to the Alipore Central Jail, and also for the purposes of the Government Life Insurance business carried on by the Postal Department in this circle.
Asst. to the Civil Surgeon ...	Mily. Asst. Surgn. H. A. Young	On deputation Mily. duty.
	Tempy. Civil Asst. Surgeon Jatindra Mohan Mukharji (*offg.*).	

C.—DISTRIBUTION LIST BY DISTRICTS.

Appointment.	Name.	Remarks.
	24-Parganas.	
Civil Medl. Officer, Dum-Dum ...	Capt. E. P. A. Smith, R.A.M.C.	
Ditto Barrackpore	Major C. S. Smith, R.A.M.C.	
Cantonment Hospital. Barrackpore.	Captain A. W. N. Bowen.	
Civil Asst. Surgeon., Barasat sub-divn. and dispy.	Jaykrishna Gupta ... ... Mahendra Nath Indra (*offg.*).	Also Supdt. of Jail. On deputation.
Civil Asst. Surgn. in medl charge, Diamond Harbour dispensary and subdivn.	Pramatha Nath Banarji ... Jamini Kanta Sen Gupta (*offg.*).	On deputation.
Resident Asst Surgn, Shambhu nath Pandit Hospital.	Nripendra Kumar Basu.	
Addl. Asst. Surgn., Shambhunath Pandit Hospital.	Bijitendra Basu (temply.).	
Civil Asst. Surgn., Bhola Nath Bose's Dispensary, Barrackpore.	Satish Chandra De ... Radha Raman Ghosh (*offg.*).	On deputation.
Certifying Surgn. under Act XV of 1881 for Budge-Budge Jute Mills, Empress of India Cotton Mill, Bulk-oil Dépôt, Budge-Budge, Lower Hooghly Jute Mills, Clive Jute Mills, Garden Reach Cotton Mills, Upper Hooghly Jute Mills, and Messrs. Graham & Co., and Messrs. Shaw, Wallace & Co.'s Oil Factories at Budge Budge.	The Civil Surgeon of the 24-Parganas.	

The following officers are Inspectors of Factories under section 3, Act XV of 1881, as amended by Act I of 1891, within the local limits mentioned against the name of each officer, and also to be Certifying Surgeon under the provisions of the same Act on the same local areas:—

I.—For the district of the 24-Parganas and the town of Calcutta—

(1) The Police Surgeon of Calcutta, for so much of the town of Calcutta as lies to the south of Canning Street and for Sealdah.
(2) The Superintendent of the Mayo Hospital, Calcutta, for so much of the town of Calcutta as lies to the north of Canning Street. He is also Certifying Surgn. under section 5 of Act XV of 1881.
(3) The Station Staff Surgeon of Dum-Dum for that subdivision.
(4) Lieut. J. C. Gillmon, I.S.M.D., for the Barrackpore subdivn. of the 24-Pargs. district (with the exception of thana Dum-Dum) and for the Calcutta Cigarette Factory at Chitpore.

The Civil Surgeon of the 24-Parganas for the rest of the district.

PART XXXI.

WARRANT OF PRECEDENCE FOR INDIA.

Home Department Notification No. 328, dated Calcutta, the 10th February 1899.

In supersession of Home Department Notification No. 2032, dated the 1st November 1877, the following new Warrant of Precedence for India, which has been approved by Her Majesty the Queen-Empress of India, and which has received Her Royal Sign Manual, as also the revised graded list of civil offices not reserved for members of the Indian Civil Service, supplementary to the Warrant of Precedence, which has been prepared under the orders of the Governor-General in Council, are published for general information :—

I.—Warrant of Precedence approved by the Queen-Empress of India.

Victoria, by the Grace of God, of the United Kingdom of Great Britain and Ireland, Queen Defender of the Faith, Empress of India,—

To all to whom these Presents shall come :

Whereas it hath been represented unto Us that it is advisable that the rank and precedence of persons holding appointments in the East Indies, as regulated by Our Royal Warrant, dated the 18th day of October 1876, should be altered. We do therefore hereby declare that it is Our will and pleasure that in lieu of the table laid down in Our said recited Warrant, the following table be henceforth observed with respect to the rank and precedence of the persons hereinafter named, viz. :—

1. Governor-General and Viceroy of India.
2. Governors of Madras and Bombay.
3. President of the Council of the Governor-General.
4. Lieutenant-Governor when in his own territories.
5. Commander-in-Chief in India.
6. Lieutenant-Governor.
7. Chief Justice of Bengal.
8. Bishop of Calcutta, Metropolitan of India.
9. Ordinary Members of the Council of the Governor-General.
10. Commander-in-Chief of Her Majesty's Naval Forces in the East Indies.
11. Chief Justice of a High Court other than that of Bengal.
12. Bishops of Madras and Bombay.
13. Ordinary Members of Council in Madras and Bombay.
14. Lieutenant-Generals Commanding the Forces, Punjab, Bengal, Madras and Bombay.
15. Chief Commissioners of the Central Provinces and Assam ; Residents at Hyderabad and in Mysore ; Agents to the Governor-General in Rajputana, Central India and Baluchistan.
16. Puisne Judges of a High Court.
17. Chief Judge of a Chief Court.
18. Military Officers above the rank of Major-General.
19. Comptroller and Auditor-General.*
20. Additional Members of the Council of the Governor-General for making Laws and Regulations and Chairman of the Railway Board.†
21. Bishops of Lahore, Rangoon and Lucknow.

The Agent to the Governor-General and Chief Commissioner of the North-West Frontier Province ranks in article 15 of the table (Home Department Notification No. 5923, dated the 1st November 1901).

The Bishop of Nagpur ranks in article 20 of the table (Home Department Notification No. 2191, dated the 27th May 1903).

* *Vide* Home Department Notification No. 232 C., dated the 15th January 1915.

† *Vide* Home Department Notification No. 699, dated the 13th March 1905.

22. Secretaries to the Government of India and Members of the Railway Board.*
23. Commissioner in Sind.
24. Judges of a Chief Court, Recorder of Rangoon, and Judicial Commissioners, Burma.
25. Chief Secretaries to the Governments of Madras and Bombay.
26. Major-Generals; Members of a Board of Revenue; Commissioners of Revenue and Customs, Bombay; and Financial Commissioners, Punjab and Burma.
27. Judicial Commissioners, including Additional Judicial Commissioners of Oudh, the Central Provinces and Sind.
28. Additional Members of the Councils of the Governors of Madras and Bombay for making Laws and Regulations, and Members of the Legislative Council of a Lieutenant-Governor.
29. Vice-Chancellors of Indian Universities.

First Class.

30. Members of the Indian Civil Service of 30 years' standing.
31. Advocate-General, Calcutta.
32. Commissioners of Divisions; the Superintendent of Port Blair; and Residents, Political Agents and Superintendents drawing Rs. 2,000 a month and upwards (not being Collectors or Deputy Commissioners of British districts) within their respective charges.
33. Chief Secretaries to Local Governments other than those of Madras and Bombay.
34. Surveyor-General of India; Directors-General of the Post Office, of Telegraphs in India, and of Railways; Chief Engineers, first class; Accountants-General, Military and Public Works Departments; Director, Royal Indian Marine; and Manager, North-Western Railway.
35. Bishops (not territorial) under license from the Crown.
36. Archdeacons of Calcutta, Madras and Bombay.
37. Brigadier-Generals.
38. Commissioners of Divisions.
39. Commissioner of Northern India Salt Revenue; and Opium Agents, Benares and Bihar.
40. Secretaries and Joint-Secretaries to Local Governments and Private Secretary to the Viceroy.

Second Class.

41. Members of the Indian Civil Service of 23 years' standing and Colonels.
42. Military Secretary to the Viceroy.
43. Judicial Commissioners of the Hyderabad Assigned Districts and Baluchistan; the Superintendent of Port Blair; and Residents, Political Agents and Superintendents drawing Rs. 2,000 a month and upwards (not being Collectors or Deputy Commissioners of British districts).
44. Inspector-General of Forests in India, and Director of the Geological Survey.
45. Standing Counsel to the Government of India.
46. Directors of Public Instruction, and Inspectors-General of Police and Prisons under Local Governments, and Accountants-General.
47. Survey Commissioner and Director of Land Records and Agriculture, Bombay; Commissioners of Settlements; and Controllers of Military Accounts.
48. Chief or Senior Civil Secretary to a Local Administration.
49. Chief Engineers, second and third classes; Deputy Surveyor-General; Deputy Director-General of Telegraphs in India, and Director-in-Chief, Indo-European Telegraph Department, and Secretary to the Railway Board.*
50. Divisional and District and Sessions Judges; Collectors and Magistrates of Districts; Deputy Commissioners of Districts; Deputy Superintendent of Port Blair; and the Chief Officer of each Presidency Municipality, within their respective charges.

The Chief Engineer, Telegraphs, ranks in article 34 (*vide* Home Department Notification No. 143 C., dated the 9th November 1914).

The Directors of Railway Construction and Railway Traffic rank in article 34 of the table (Home Department Notification No. 1259, dated the 15th June 1899). Consuls-General rank as No. 37 (*a*) below Brigadier-Generals, and Consuls as No. 41 (*a*) below Members of the Indian Civil Service of 23 years' standing and Colonels (Foreign Department Circular letter No. 257 G., dated the 22nd February 1899). Consular officers *de carrière* will in their respective grades take precedence of Consular officers who are not *de carrière* (Foreign Department No. 1454 G., dated the 2nd May 1912).

The Revenue and Judicial Commissioner in Baluchistan ranks in article 38 of the table when in Kalat or Las Bela or elsewhere outside the limits of his charge (Foreign Department letter No. 1284 G., dated the 1st August 1901). In British Baluchistan and the Agency-territories he ranks in article 32 (Foreign Department letter No. 613 G., dated the 11th April 1901).

The Director-General of Education in India ranks in article 44 of the table (Home Department Notification No. 1988, dated the 27th June 1902).

* *Vide* Home Department Notification No. 699, dated the 13th March 1905.

The Educational Commissioner with the Government of India ranks in article 39 of the table [*vide* Home Department Notification No. 1065 (Public), dated the 12th July 1915].

The Director and Deputy Director, Central Criminal Intelligence Department, will take rank respectively in articles 30 and 47 of the table (Home Department No. 1230, dated the 5th June 1904).

The Controller of Currency ranks in article 32 of the table [*vide* Home Department Notification No. 1840 (Public), dated the 9th October 1914.]

The Chief Secretary to the Government of Bengal will rank provisionally in article 25 (*vide* Home Department No. 860 dated the 16th October 1916).

51(*a*). Archdeacons of Lahore, Lucknow and Rangoon
52. Deputy Secretaries to the Government of India and Director-General of Commercial Intelligence.*
53. The Senior Chaplains of the Church of Scotland in Bengal, Madras and Bombay.
54. Remembrancers of Legal Affairs and Government Advocates under Local Governments.
55. Officers in the First Class Graded List of Civil Offices not reserved for Members of the Indian Civil Service ; Controller of Printing and Stationery.†

Third Class.

56. Members of the Indian Civil Service of 18 years' standing and Lieutenant-Colonels.
57. The Deputy Director, Royal Indian Marine.
58. The Assistant Director, Royal Indian Marine.
59. Commanders and Inspectors of Machinery, Royal Indian Marine.
60. Political Agents and Superintendents drawing less than Rs. 2,000 a month (not being Collectors or Deputy Commissioners of British districts) within their own charges.
61. Secretaries to Local Administrations other than those already specified.
62. Consulting Engineers to the Government of India for Railways.
63. Private Secretaries to Governors.
64. Military Secretaries to Governors.
65. Administrators-General.
66. Sanitary Commissioners under Local Governments ; Postmasters-General ; the Comptroller, Post Office ; and Conservators of Forests, first grade.
67. Directors of Public Instruction and Inspectors-General of Police and Prisons under Local Administrations ; and Comptrollers and Deputy Auditors-General.
68. Managers of State Railways other than the North-Western Railway ; Chairman of the Port Trust, Bombay ; and Chairman of the Port Trust, Calcutta.
69. Vice-Chairman of the Port Trust, Calcutta ; Directors of Telegraphs, first class ; Directors of Traffic and Construction, Indian Telegraph Department ; Examiners of Accounts, Public Works Department, first class ; Officers of the Superior Revenue Establishment of State Railways, first class, first grade ; Superintending Engineers, Public Works Department, first class ; and Superintendents of the Survey of India Department, first grade.
70. Inspectors-General of Registration and Directors of Land Records and Agriculture under Local Governments.
71. Senior Chaplains other than those already specified.
72. Sheriffs within their own charges.
73. Officers in the Second Class Graded List of Civil Offices not reserved for Members of the Indian Civil Service.

Fourth Class.

74. Members of the Indian Civil Service of 12 years' standing and Majors.
75. Lieutenants of over eight years' standing and Chief Engineers of the Royal Indian Marine.
76. Government Solicitors.

(*a*) The Archdeacon of Nagpur will take rank in article 51 of the table (Home Department Notification No. 3839, dated the 29th December 1903).

* *Vide* Home Department Notification No. 699, dated the 13th March 1905.

† *Vide* Home Department Notification No. 266, dated the 1st February 1909.

Military Deputy Auditors-General and Senior Controller of Military Supply Accounts will take rank in article 47, and Military Deputy Accountant-General and Junior Controller of Military Supply Accounts in article 55 [*vide* Home Department Notification (Public) No. 288, dated the 4th June 1914].

The Chairman of the Port Trust, Rangoon, ranks in article 68 of the table (Home Department Notification No. 5006, dated the 29th August 1901).

The Political Agents and Superintendents in Baluchistan drawing less than Rs. 2,000 when outside their respective charges rank in article 73 unless their Army rank or standing in the Civil Service gives them a higher place (Foreign Department letter No. 1284 G., dated the 1st August 1901). The same rule is applicable to the Political Agent in Haraoti and Tonk (Foreign Department letter No. 938 G., dated the 21st May 1903).

Vice-Consuls rank as No. 74 (*a*) below Members of the Indian Civil Service of 12 years standing and Majors (Foreign Department Circular letter No. 257 G., dated the 22nd February 1899). Consular officers *de carrière* will in their respective grades take precedence of Consular officers who are not *de carrière* (Foreign Department No. 1454 G., dated the 2nd July 1912).

Excise Commissioners under Local Governments will take rank in article 70 (*vide* Home Department Notification No. 277, dated the 21st October 1907).

Chief Constructor of the Royal Indian Marine Dockyard at Bombay will take rank in article 73, and the Constructors of the Royal Indian Marine Dockyards at Bombay and Kidderpore in article 78 (*vide* Home Department Notification No. 3802, dated the 21st September 1911).

Officers in charge of the Zhob, Quetta-Pishin and Thal-Chotiali districts rank in article 50 of the table throughout their respective charges, whether British or Agency territory (Foreign Department letter No. 613 G., dated the 11th April 1901).

The Political Agent in Kalat ranks in article 60 of the table (Foreign Department letter No. 613 G., dated the 11th April 1909).

The First Assistant to the Agent to the Governor-General in Baluchistan ranks in article 61 of the table (Foreign Department letter No. 613 G., dated the 11th April 1901). This order has also been extended to the First Assistants to the Resident at Hyderabad and Mysore and to the Agent to the Governor-General in Rajputana and Central India (Foreign Department letter No. 1389 G., dated the 2nd September 1903).

The Chief Inspector of Explosives in India ranks in article 62 of the table (Home Department Notification No. 1988, dated the 27th June 1902.

The Deputy Director-General of Telegraph Traffic, and Directors, Telegraph Engineering, rank in article 66 (*vide* Home Department Notification No. 143 C., dated the 9th November 1914).

Government Emigration Agents at Calcutta for British Guiana and Natal, and for Trinidad, Fizi, Jamaica and Mauritius, will take rank in article 73 (*vide* Home Department Notification No. 3888, dated the 27th September 1911).

Fourth Class.

77. Inspectors-General of Registration, Sanitary Commissioners, and Directors of Land Records and Agriculture under Local Administrations.
78. Officers in the Third Class Graded List of Civil Offices not reserved for Members of the Indian Civil Service.

The entries in the above table apply exclusively to the persons entered therein, and, while regulating their relative precedence with each other, do not apply to the non-official community resident in India, the members of which shall take their place according to usage.

Officers in the above table will take precedence in order of the numbers of the entries.

Those included in one number will take precedence *inter se* according to the date of entry into that number.

When an officer holds more than one position in the table, he will be entitled to the highest position accorded to him.

Officers who are temporarily officiating in any number in the table will rank in that number below permanent incumbents.

All officers not mentioned in the above table, whose rank is regulated by comparison with rank in the Army, to have the same rank with reference to Civil Servants as is enjoyed by Military Officers of equal grades.

All other persons who may not be mentioned in this table to take rank according to general usage which is to be explained and determined by the Governor-General in Council in case any question shall arise.

Nothing in the foregoing rules to disturb the existing practice relating to precedence at Native Courts or on occasions of intercourse with Natives, and the Governor-General in Council to be empowered to make rules for such occasions in case any dispute shall arise.

All ladies to take place according to the rank herein assigned to their respective husbands, with the exception of wives of Peers, and of ladies having precedence in England independently of their husbands, and who are not in rank below the daughters of Barons, such ladies to take place according to their several ranks, with reference to such precedence in England, immediately after the wives of Members of the Council of the Governor-General.

Given at Our Court at Windsor, this tenth day of December in the year of Our Lord One thousand eight hundred and ninety-eight, and in the sixty-second Year of Our Reign.

By Her Majesty's Command,

GEORGE HAMILTON.

II.—Supplementary Graded List of Civil Offices not reserved for Members of the Indian Civil Service prepared under the orders of the Governor-General in Council.

First Class—(No. 55 of the Warrant).*

Assay Masters of the Mint, Calcutta and Bombay.
Chief Judges of Presidency Courts of Small Causes.
Commissioners of Police, Calcutta, Madras, Bombay and Rangoon.†
Deputy Comptroller-General.
Director-General of Archæology.‡
Director-General of Statistics.
Director of the Botanical Survey of India.
Inspector-General of Agriculture in India. ‡
Masters of the Mint, Calcutta and Bombay.
Meteorological Reporter to the Government of India.
Superintendent of Revenue Survey, Madras.
Superintendent, Trigonometrical Surveys.

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*The entries in each class are arranged in alphabetical order.
†Home Department Notification No. 2002, dated the 8th September 1899.
‡Home Department Notification No. 1988, dated the 27th June 1902.
Officers of the Postal and Telegraph Department drawing Rs. 800 a month and upwards rank in article (*vide* Home Department Notification No. 143 C., dated the 9th November 1914).
The Registrar of Joint Stock Companies, Bengal, will rank in article 78 (*vide* Home Department No. 892 C., dated the 22nd February 1917).

Second Class—(No. 73 of the Warrant).*

Adviser on Chinese Affairs in Burma.
Agent-General in India for the British Protectorates in Africa under the Administration of the Foreign Office.‡
Chief Collector of Customs, Burma.
Chief Inspector of Mines in India.†
Chief Presidency Magistrates.
Chief Superintendents of the Telegraph Department.
Collector of Customs and Salt Revenue, Sind.
Collectors and Magistrates of Districts, and Deputy Commissioners of Districts and of Settlements.
Conservators of Forests, 2nd and 3rd grades.
Deputy Accountants-General under Local Governments.
Deputy Inspectors-General of Police.
Deputy Superintendent of Port Blair
Directors of the Persian Gulf Section, and of the Persian Section of the Indo-European Telegraph Department.
Directors of Telegraphs of the 2nd, 3rd and 4th classes.
Divisional and District and Sessions Judges.
Examiners of Accounts, Public Works Department, 2nd and 3rd classes.
Government Astronomer, Madras.
Imperial Bacteriologist.
Inspector of Mines to the Government of India.
Librarian, Imperial Library.†
Officers in charge of the Records of the Government of India.
Officers of the Indian Educational Service and of the graded Educational Service drawing Rs. 1,250 a month and upwards.
Officers of the Superior Revenue Establishment of State Railways, 1st class, 2nd and 3rd grades.
Principal of the Mayo College at Ajmere.
Principal of the Rajkumar College at Rajkot.
Reporter on Economic Products.
Superintendent of the Royal Botanical Gardens, Calcutta.
Superintendents, Geological Survey of India.
Superintendents of Revenue Survey and Assessment, Bombay.
Superintendents of the Survey of India Department, 2nd grade.
Superintending Engineers, Public Works Department, 2nd and 3rd classes.
Under-Secretaries to the Government of India.

Third Class (No. 78 of the Warrant).*

Agricultural Chemist.
Assistant Inspector-General of Forests.
Assistant Secretaries to the Government of India.
Collector of Stamp Revenue, Superintendent of Excise Revenue, and Deputy Collector of Land Revenue, Calcutta.
Commander of the steamer employed in the Persian Gulf Section of the Indo-European Telegraph Department.
Deputy Collector of Salt Revenue, Bombay.
Deputy Commissioner of Northern India Salt Revenue.
Deputy Commissioners of Police, Calcutta and Bombay.
Deputy Commissioner of Salt, Abkari and Customs Department, Madras.
Deputy Conservators of Forests drawing Rs. 800 a month and upwards.
Deputy Director of Land Records and Agriculture, Madras.
Deputy Director of the Imperial Forest School, Dehra Dun.
Deputy Directors of Revenue Settlements and Deputy Superintendents of Revenue Surveys, Madras.
Deputy Postmasters-General of the 1st, 2nd § and 3rd § grades.
Deputy Superintendents, Geological Survey of India.
Deputy Superintendents, Survey of India Department.

*The entries in each class are arranged in alphabetical order.
†Home Department Notification No. 1988, dated the 27th June 1902.
‡Home Department Notification No. 3119, dated the 11th September 1908.
For further additions to Article 73, *vide* Home Department Notification No. 2013, dated the 1st October 1913 printed on page 454.
§Home Department Notification No. 2292, dated the 24th July 1902.

District Superintendents of Police drawing Rs. 800 a month and upwards.
Engineer and Electrician of the Persian Gulf Section of the Indo-European Telegraph Department.
Examiners of Accounts, Public Works Department, 4th class, 1st and 2nd grades.
Executive Engineers, Public Works Department, 1st and 2nd grades.
Inspector-General of Railway Mail Service.
Judge of the City Civil Court, Madras.
Judges of Presidency Courts of Small Causes, and First Judge of the Small Cause Court, Rangoon.
Officers of the Indian Educational Service, and of the graded Educational Service drawing less than Rs. 1,250 a month, but more than Rs. 1,000 a month.
Officers of the Superior Revenue Establishments of the State Railways, 2nd class, 1st and 2nd grades.
Palæontologist, Geological Survey of India.
Presidency Magistrates.
Protector of Emigrants and Superintendent of Emigration, Calcutta.
Public Prosecutor in Sind.
Registrars to the High Courts and to the Chief Court, Punjab.
Sub-Deputy Opium Agents drawing Rs. 800 a month and upwards.
Superintendent of Land Records and Agriculture in Sind.*
Superintendent of the Indian Museum.
Superintendent of Stamps and Stationery.
Superintendents, Telegraph Department, 1st and 2nd grades.

Under the orders of Her Majesty's Secretary of State for India, the following table, showing the relative rank of Officers in the Army, Royal Navy and Royal Indian Marine, is attached† to the Warrant of Precedence for India, published with Home Department Notification No. 328, dated the 10th February 1899 :—

Lieutenant-Colonels ...	Captains under 3 years and officers of corresponding rank, Royal Navy.	But junior to all Lieutenant-Colonels.
	Deputy Director, Royal Indian Marine.	
	Assistant " " " "	
	Commanders, Royal Navy.	
	Commanders, Royal Indian Marine.	
	Staff Commanders and officers of corresponding rank, Royal Navy.	
	Inspectors of Machinery, Royal Indian Marine.	
	Chief Engineers, Royal Indian Marine.	
Majors	Lieutenants of 8 years' seniority and officers of corresponding rank, Royal Navy.	But junior to all Majors.
	Lieutenants, Royal Indian Marine, over 8 years' seniority.	
	Engineers, Royal Indian Marine, of and over 9 years' seniority.	
Captains	Lieutenants under 8 years and officers of corresponding rank, Royal Navy.	But junior to all Army Captains.
	Lieutenants, Royal Indian Marine, under 8 years' seniority.	
	Engineers, Royal Indian Marine, under 9 years' seniority.	
Lieutenants	Sub-Lieutenants and officers of corresponding rank, Royal Navy.	But junior to all Lieutenants.
	Sub-Lieutenants, Royal Indian Marine.	
	Assistant Engineers, Royal Indian Marine.	

H. H. RISLEY,
Offg. Secy. to the Govt. of India.

‡ NOTE.—Officers of the Royal Naval Reserve rank with, but after, officers of the Royal Navy and Royal Indian Marine of their corresponding rank.

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* Home Department Notification No. 1988, dated the 27th June 1902.
† Home Department Notifications Nos. 227 and 147, dated the 26th January 1900 and 24th January 1903, respectively; Home Department No. 551, dated the 10th March 1910-11, and No. 715, dated the 14th March 1905; and Home Department Notification No. 1236, dated the 26th May 1911.
‡ *Vide* Home Department Notification No. 1014, dated the 9th July 1915.
For further additions to the Warrant, *vide* Home Department Notification No. 2013, dated the 1st October 1913, printed on page 454.

Home Department Notification No. 2013, dated Simla, the 1st October 1913 (As announced by Home Department Notifications mentioned in the footnote).

It is hereby notified for general information that the undermentioned officers will take rank in the articles of the Warrant of Precedence for India published with the Home Department Notification No. 328, dated the 10th February 1899, which are indicated below in each case :—

(1) Governor of Bengal, in article 2.

(2) Ordinary Members of the Council of the Governor of Bengal, in article 13.

(3) Members of the Executive Council of the Lieutenant-Governor of Bihar and Orissa, when within their own jurisdiction, immediately above the officers included in article 14, and when without their jurisdiction, in article 15.

(4) Joint-Secretaries to the Government of India, in article 21.

(5) Financial Commissioner, Central Provinces, in article 26.

(6) Additional Members of the Legislative Council of the Governor of Bengal, in article 27.

(7) Advocates-General, Madras and Bombay, immediately below article 30.

(8) Members of the Legislative Council of a Chief Commissioner, in article 40.

(9) Director of the Indian Institute of Science, in article 46.

(10) Judicial Commissioner, Chota Nagpur, Chairmen of the Boards of Trustees for the Improvement of the Cities of Bombay and Calcutta, and President, Rangoon Municipal Committee, within their respective charges, in article 50.

(11) President, Forest Research Institute and College, Dehra Dun, in article 54.

(12) Collectors of Customs at Calcutta, Bombay, Madras, Rangoon and Karachi, in article 66.

(13) Chairman of the Port Trust, Madras, in article 68.

(14) Electrical Engineer-in-Chief, Telegraph Department, in article 69.

(15) Registrars of Co-operative Credit Societies under Local Governments and Comptroller of Patents in article 70.

(16) Principals of Government Colleges ; officers of the Indian Agricultural Service, or of the General List of the Indian Finance Department, or of the Superior Revenue Establishment of State Railways, or of the Civil Veterinary, Forest, Survey, Mines, Postal, Telegraph, Customs or Scientific Departments, or officers of the Indian Institute of Science, or Sanitary Engineers, not being Superintending Engineers, or Consulting Architects to Local Governments, drawing Rs. 1,250 a month and upwards ; officers of the Public Works Engineer Establishment of 19 years' standing who hold the rank of Executive Engineer ; officers of the Police Department drawing Rs. 1,200 a month and upwards ; Divisional Controllers of Military Accounts ; Director of Survey, Madras ; Electrical Adviser to the Government of India ; Judicial Commissioner, Chota Nagpur, and Secretary to the Bengal Legislative Council and Assistant Secretary to the Government of Bengal in the Legislative Department, in article 73.

(17) Registrars of Co-operative Credit Societies and Excise Commissioners under Local Administrations, in article 77.

(18) Principals of Government Colleges ; officers of the Indian Educational Service and the graded Educational Service, or of the Indian Agricultural Service, or Sanitary Engineers, or Consulting Architects, or Electrical Inspectors, drawing Rs. 1,000 a month and upwards, and officers of the General List of the Indian Finance Department, or officers of the higher branch of the Military Accounts Department, or of the Superior Revenue Establishment of State Railways, or of the Civil Veterinary, Forest, Survey, Police, Mines, Customs, or Scientific Departments, drawing Rs. 900 a month and upwards ; officers of the Public Works Engineer Establishment of 12 years' standing who hold the rank of Executive Engineer ; Assistant Commissioners, Northern India Salt Revenue, drawing Rs. 800 a month and upwards ; Chemical Examiner for Customs and Excise ; Collector of Income-tax, Calcutta ; Director, Vaccine Institute, Belgaum ; First Assistant Superintendent, Port Blair ; Legal Assistant in the Legislative Department of the Government of India ; officers of the Archæological Department drawing Rs. 800 a month and upwards ; officers of the Excise and Salt Departments drawing Rs. 800 a month and upwards ; officers of the Provincial Services of not less than 18 years' standing drawing Rs. 600 a month and upwards ; Registrar to the Chief Court, Lower Burma, and Secretary to the Board of Revenue in the Department of Revenue Settlement, Survey, Land Records and Agriculture, Madras, when a member of the Provincial Civil Service, in article 78.

H. WHEELER,

Secretary to the Government of India.

No. 982, dated the 4th June 1914 ; No. 143 C., dated the 9th November 1914 ; No. 666, dated the 11th August 19

CASUALTIES IN QUARTER ENDING 31st MARCH 1917.

Retirements.

NAME.	Service or appointment.	Date.
Moore, W. T.	Dy. Inspr. Genl. of Police ...	14th March 1917.
Sen, Annada Charan	Registrar, Rev Dept. ...	2nd March ,,
Chatarji, Digambar, The Hon'ble Mr Justice.	Judge, High Court, Calcutta ...	1st March ,,
Mitra, Ganesh Chandra	Asstt. Surgeon ...	7th Feb. ,,
Sir F. L. Halliday, KT., C.I.E., M.V.O. ...	D. I.-G. of Police	31st March ,,
Mitra, Biraja Charan	Subordinate Judge	16th Feb. ,,
Khalilur Rahman Khan Chaudhuri ...	Sub-Registrar	22nd Feb. ,,
Mukharji, Sripati	Asstt Inspr. of Schools	16th Jan. ,,
Das Gupta, Haran Chandra ...	Ditto ditto	6th Feb. ,,
Mukharji, Kedar Nath	Dy. Inspr. of Schools	29th Nov. 1916.
Banarji, Hrishikesh	Sub. Dy. Collr.	30th Jan. 1917.

Deaths.

Mannsell, G. W.	Asstt. Engineer	23rd Feb. 1917.
Banarji, Kiran Chandra	Dy. Inspr. of Schools	2nd Nov. 1916.
Muhiuddin Ahmad	Sub-Registrar	31st March 1917

Resignation.

Saiyad Muhammad Abdullah ...	Sub. Dy. Collr.	6th Jan. 1917.

Removals.

Hamir Lal Mehta	Dy. Supdt. of Police	12th Jan. 1917.
Shibram Mukharji	Ditto	Ditto ,,

APPENDIX.

LIST OF TITLE-HOLDERS AND RECIPIENTS OF KAISAR-I-HIND MEDALS, ETC., IN BENGAL.

PARTS I, II, III, IV, V, VI AND VII.

APPENDIX.

PART I.—LIST OF PERSONS IN BENGAL HOLDING DECORATIONS CONFERRED BY THE CROWN.

No.	Full name with titles and decorations.	Official designation.	Residence.	Year in which the title was granted.
	ORDER OF THE BATH.			
	Companion.			
1	James Monro	.....	(At present in England)	1888
2	The Hon'ble Surgeon-General William Rice Edwards, C.M.G., M.D., I.M.S.	Surgeon-General with the Government of Bengal.	2, Theatre Road, Calcutta.	.....
	ORDER OF THE STAR OF INDIA.			
	Knights Commanders.			
1	The Hon'ble Ihtisham-ul-Mulk Rais-ud-Daula Amir-ul-Omrah Nawab Sir Asif Qudr Saiyid Wasif Ali Mirza Khan Bahadur, Mahabatjang, K.C.V.O., Nawab Bahadur of Murshidabad.	Member, Bengal Legislative Council	Murshidabad ...	1910
2	Sir Krishna Gobinda Gupta ...	.....	Bhatpara, Dacca ..	1911
3	The Hon'ble Sir Bijay Chand Mahtab, K.C.I.E., I.O.M., Maharajadhiraja Bahadur of Burdwan.	Member, Bengal Legislative Council	Burdwan; "Bijay Manjil," Alipore. Also "Rose Bank," Darjeeling.	1911
4	H. H. Maharaja Sir Jitendra Narayan Bhup Bahadur of Cooch-Behar.	.....	Cooch-Behar; also Woodlands, Alipore, also "Colinton," Darjeeling.	.....
	Companions.			
1	Raja Pyari Mohan Mukharji ...	.....	Uttarpara, Hooghly ...	1887
2	Raja Ban Bihari Kapur Bahadur (*a*)	.....	Burdwan	1903
3	The Hon'ble Mr P. C. Lyon ...	Member, Executive Council, Bengal	19, Loudon Street, Calcutta.	1908
4	The Hon'ble Justice Sir Ashutosh Mukharji, KT., M.A., D.L.	Judge, High Court, Calcutta ...	77, Russa Road, Bhawanipore, Calcutta.	1909
5	Sir Rash Bihari Ghosh, KT., C.I.E., D.L.	Vakil, High Court	33, Judge's Court Road, Alipore, Calcutta.	1909
6	Edmund Vivian Gabriel, C.V.O. ...	.....	In England (on Military duty).	1911
7	Lt.-Col. A. C. deL. Joly de Lotbinière, R.E., C.I.E (*a*)	Secy., Govt. of Bengal (Irrigation and Marine Departments) and Chief Engineer. (Reverted to Military duty temporarily.)	.....	1911
8	Sir Jagadish Chandra Basu, KT., C.I.E., D.Sc.	... ...	93, Upper Circular Road, Calcutta. Also Rarhikhal, Dacca.	1911

(*a*) Also recipient of a Kaisar-i-Hind Medal (First Class).

PART I.—LIST OF PERSONS IN BENGAL HOLDING DECORATIONS CONFERRED BY THE CROWN.

No.	Full name with titles and decorations.	Official designation.	Residence.	Year in which the title was granted.
	ORDER OF THE STAR OF INDIA.			
	Companions.			
9	Sir Henry Wheeler, K.C.I.E. ...	Commissioner of a Division	On leave in England ...	1914
10	The Hon'ble Mr. Nicholas Dodd Beatson Bell, C.I.E., I.C.S. (a)	Member, Executive Council, Bengal	3, Loudon Street, Calcutta.	1915
11	The Hon'ble Mr. John Ghest Cumming, C.I.E.	Chief Secy., Govt. of Bengal (on deputation).	Ditto ditto ...	1916
12	The Hon'ble Mr. J. B. Wood, C.I.E.	Secy., Poll. Dept., Govt. of India ...	Simla and Delhi ..	1916
13	The Hon'ble Mr. J. H. Kerr, C.I.E. ...	Chief Secretary to the Government of Bengal.	No. 3, Lee Road, Calcutta.	1917
	ORDER OF St. MICHAEL AND St. GEORGE.			
	Companions.			
1	Major Henry Chamney	Principal, Police Training College, Sarda.	Sarda	1900
2	The Hon'ble Surgeon-General William Rice Edwards, C.B., M.D., I.M.S.	Surgeon-General with the Government of Bengal.	2, Theatre Road, Calcutta.	.....
	ORDER OF THE INDIAN EMPIRE.			
	Knight Grand Commander.			
1	H. E. the Right Hon'ble Lawrence John Lumley Dundas, Earl of Ronaldshay.	Governor of the Presidency of Fort William in Bengal.	Government House, Calcutta.	1917
	Knights Commanders.			
1	The Hon'ble Sir Bijay Chand Mahtab, K.C.S.I., I.O.M., Maharajadhiraja Bahadur of Burdwan.	Member, Bengal Legislative Council	Burdwan; "Bijay Manjil," Alipore, Calcutta; also "Rose Bank," Darjeeling.	1909
2	The Hon'ble Sir Rajendra Nath Mukharji.	Senior Partner, Messrs. Martin & Co., Calcutta.	7, Harrington Street ...	1911
3	Maharaja Sir Girija Nath Ray Bahadur, of Dinajpur.	Zamindar	Dinajpur	1914
4	The Hon'ble Maharaja Sir Manindra Chandra Nandi.	Zamindar, Murshidabad, Bengal and an Addl. Member of the Council of the G. G. for making laws and regulations.	Kasimbazar, Murshidabad; also 302, Upper Circular Road, Calcutta.	1915
5	Sir William Maxwell, M.V.O., I.C.S.	Director-General of Posts and Telegraphs.	Simla and Delhi ...	1915
6	The Hon'ble Nawab Sir Syed Shamsul-Huda, M.A., B.L.	Member, Executive Council, Bengal	221, Lower Circular Road, Calcutta.	1916
7	Sir Henry Wheeler, C.S.I. ...	Commissioner of a Division	On leave in England ...	1917

(a) Also recipient of a Kaiser-i-Hind Medal (Second Class).

PART I.—LIST OF PERSONS IN BENGAL HOLDING DECORATIONS CONFERRED BY THE CROWN.

No.	Full name with titles and decorations.	Official designation.	Residence.	Year in which the title was granted.
	ORDER OF THE INDIAN EMPIRE.			
	Companions.			
1	Nawab Abdul Jabbar, Khan Bahadur.	.....	61, Lower Circular Road, Calcutta; also Kasiarah in Burdwan.	1895
2	Sir Rash Bihari Ghosh, Kt., C.S.I., D.L.	Vakil, High Court	33, Judge's Court Road, Alipore, Calcutta.	1896
3	R. D. Mehta	.....	55, Canning Street, Calcutta.	1897
4	Rai Bahadur Sir Kailas Chandra Basu, Kt. (a)	.....	1, Sukea's Street, Calcutta.	1900
5	Kali Nath Mitra	.....	58, Beadon Street, Calcutta.	1901
6	Colonel John Hodding, V.D. ...	Chief Manager, Dacca Nawab's Estates.	Dacca	1903
7	Sir Jagadish Chandra Basu, Kt., C.S.I., D.SC.	.....	93, Upper Circular Road, Calcutta; also village Rarhikhal, district Dacca.	1903
8	George Huddleston	.....	In England ...	1903
9	Lt.-Colonel Robert Bird, M.V.O., M.D., F.R.C.S.	Indian Medical Service. Professor of Surgery, Medical College.	2, Upper Wood Street, Calcutta.	1905
10	The Hon'ble Mr. Nicholas Dodd Beatson Bell, C.S.I., I.C.S. (b)	Member, Executive Council, Bengal	3, Loudon Street, Calcutta.	1906
11	Lt.-Col. A. C. deL. Joly de Lotbiniére, C.S.I., R.E. (a)	Secy., Govt. of Bengal (Irrigation and Marine Departments) and Chief Engineer. (Reverted to Military duty temporarily.)	.....	1906
12	Ralph Buller Hughes-Buller, I.C.S. (c)	Magte. & Collr.	On leave ...	1908
13	Sir Frederick Loch Halliday, Kt., M.V.O.	D. I.-G. of Police, Bengal ...	Ditto ...	1909

(a) Also recipient of a Kaisar-i-Hind Medal (First Class).
(b) Also recipient of a Kaisar-i-Hind Medal (Second Class).
(c) Also recipient of a King's Police Medal.

PART I.—LIST OF PERSONS IN BENGAL HOLDING DECORATIONS CONFERRED BY THE CROWN.

No.	Full name with titles and decorations.	Official designation.	Residence.	Year in which the titl was granted.
	ORDER OF THE INDIAN EMPIRE.			
	Companions.			
14	Cecil Ward Chichele Plowden (*a*) ...	Inspector-General of Police, Bengal	Calcutta	1909
15	Nilambar Mukharji	Late Vice-Chairman, Calcutta Corporation.	46, Beadon Street, Calcutta.	1909
16	Rai Bahadur Nritya Gopal Basu ...	Late Accountant-General, Bengal ...	42, Beadon Row, Calcutta.	1910
17	The Hon'ble Mr. J. B. Wood, C.S.I.	Secretary, Political Department, Government of India.	Simla and Delhi ...	1911
18	Lieutenant-Colonel George Grant Gordon, V.D.	.....	In England ..	1911
19	Walter Culley Madge	.....	Calcutta	1911
20	Herbert Gerard Tomkins ...	Accountant-General, Bengal ...	Treasury Buildings, Calcutta.	1911
21	Lt.-Colonel Sir Leonard Rogers, Kt., M.D., I.M.S., F.R.C.S., M.R.C.P.	Professor of Pathology, Medical College, Calcutta, and Bacteriologist to Government.	12, Elysium Row, Calcutta.	1911
22	Mahamahopadhyaya Hara Prasad Shastri, M.A.,B.L.	Honorary Magistrate, Naihati Independent Bench, Bengal.	26, Pataldanga Street, Calcutta; also Naihati, 24-Parganas.	1911
23	The Hon'ble Mr. John Henry Kerr, C.S.I.	Chief Secretary to the Government of Bengal.	3, Lee Road, Calcutta	1911
24	John Ghest Cumming, C.S.I. ...	Chief Secy., Government of Bengal (on deputation).	3, Loudon Street, Calcutta.	1911
25	The Rev. James Anderson Graham, M.A., D.D. (*b*)	.....	Kalimpong, Darjeeling	1911
26	Sir Francis Hugh Stewart, Kt. ...	Partner, Messrs. Gladstone, Wyllie & Co	5, Council House Street, Calcutta.	1911
27	Praphulla Chandra Ray, D.Sc. ...	Professor, Presidency College, Calcutta.	Calcutta	1912
28	Lt.-Col. Walter James Buchanan, I.M.S.	Inspector-General of Prisons, Bengal.	Ditto	1913
29	The Hon'ble Raja Hrishikesh Laha	Merchant, Bengal	96, Amherst Street, Calcutta.	1913
30	Nalini Bhushan Gupta ..	Bar.-at-Law	10, Middleton Street, Calcutta.	1913

(*a*) Also recipient of King's Police Medal.
Also recipient of a Kaisar-i-Hind Medal (First Class).

PART I.—LIST OF PERSONS IN BENGAL HOLDING DECORATIONS CONFERRED BY THE CROWN.

No.	Full name with titles and decorations.	Official designation.	Residence.	Year in which the title was granted.
	ORDER OF THE INDIAN EMPIRE.			
	Companions.			
31	The Hon'ble Mr. Alexander Philips Muddiman.	Secretary, Legislative Department, Government of India.	Simla and Delhi ...	1913
32	The Hon'ble Mr. Henry Fraser Howard.	Secy., Finance Dept., Govt. of India	Ditto ...	1915
33	The Hon'ble Mr. Hugh Lansdown Stephenson.	On Special Duty under the Government of India.	.....	1913
34	Abanindra Nath Tagore ...	Late Vice-Principal, Government School of Art, Calcutta.	Calcutta	1913
35	W. H. H. Arden-Wood	Principal, La Martinière College, Calcutta.	11, Loudon Street, Calcutta.	1913
36	The Hon'ble Dr. Deba Prasad Sarbadhikari, M.A.	Vice-Chancellor of the Calcutta University.	20, Suri Lane, Calcutta	1914
37	Frank Charles Daly (a)	Dy. Inspector-General of Police, Crime and Railways.	Grand Hotel, Calcutta.	1914
38	Leonard Birley	Secy. to the Govt. of Bengal, Revenue Department.	Calcutta	1914
39	The Hon'ble Babu Mahendra Nath Ray.	Vakil, High Court, Calcutta ...	2, Boloram Bose's 1st Lane, Bhowanipore, Calcutta	1914
40	Colonel Sidney Mercer Renny ...	Director of Ordnance Factories ...	3, Harrington Street, Calcutta.	1914
41	Kiran Chandra De	Offg. Commr. of Chittagong Dn.	Chittagong ...	1915
42	The Hon'ble Mr. Frank Willington Carter	Merchant, Bengal	Partner in Messrs. Turner, Morrison & Co., Calcutta; 7, Pretoria Street, Calcutta.	1915
43	Ram Charan Mitra	Vakil, High Court, Bengal, Calcutta, and Law Officer of Government.	23, Bechu Chatarji Street, Calcutta.	1915
44	Lt.-Col. Walter Thomas Grice, V.D.	Head of the Firm of Messrs. Smith, Stanistreet & Co.	Calcutta	1915
45	Godfrey Charles Denham (a) ...	Supdt. of Police, Bengal	On deputation under the Govt of India.	1915
46	Suresh Prasad Sarbadhikari, M.D. ...	.....	79-1, Amherst Street, Calcutta.	1916
47	Christopher Addams-Williams ...	Supdg. Engineer, Bengal	.....	1916
48	Rai Bansidhar Banerji Bahadur, B.L.	Dy. Magte. and Dy. Collr., Calcutta	27-3, Baithakhana Road, Calcutta.	1916
49	W. R. Gourlay	Private Secretary to His Excellency the Governor of Bengal.	Calcutta	1917
50	C. A. Tegart, M.V.O.	Additional Deputy Commissioner of Police, Calcutta.	Ditto	1917

(a) Also recipient of King's Police Medal.

PART I.—LIST OF PERSONS IN BENGAL HOLDING DECORATIONS CONFERRED BY THE CROWN.

No.	Full name with titles and decorations.	Official designation.	Residence.	Year in which the title was granted.
	ROYAL VICTORIAN ORDER.			
	Knight Commander.			
1	The Hon'ble Ihtisham-ul-Mulk Rais-ud-Daula Amir-ul Omrah Nawab Sir Asif Qadr Saiyid Wasif Ali Mirza Khan Bahadur, Mahabatjang, K.C.S.I., Nawab Bahadur of Murshidabad. (*a*)	Member, Bengal Legislative Council	Murshidabad ..	1912
	Commanders.			
1	Edmund Vivian Gabriel, C.S.I. (*b*) ...	.....	In England ..	1906
2	Charles James Stevenson-Moore ...	Member, Board of Revenue, Bengal	Calcutta	1912
3	C. B. Bayley	Asstt. Secy. Bengal, P. W. Dept. ...	Ditto	1912
	Members (Fourth Class).			
1	Sir Frederick Loch Halliday, Kt., C.I.E., J.P. (*b*)	D. I.-G. of Police, Bengal ...	On leave ...	1906
2	Sir Henry Cooper Eggar, Kt. (*b*) ...	Head Partner, Messrs. Sanderson & Co., Solicitors.	In England ...	1906
3	Sir William Maxwell, K.C.I.E ...	D.-G. of Posts and Telegraphs ...	Simla and Delhi ...	1911
4	Major G. H. Willis, R.E. ...	Mint Master, Calcutta (On special duty) ...	H. M.'s Mint, Calcutta	1911
5	Lt.-Col. Robert Bird, C.I.E., M.D., F.R.C.S.	Indian Medical Service	2, Upper Wood Street, Calcutta.	1912
	Member (Fifth Class).			
1	C. A. Tegart(*c*) C.I.E.	Dy. Commr. of Police	Calcutta	1912
	IMPERIAL SERVICE ORDER.			
	Companions of the Imperial Service Order.			
1	Rai Bahadur Rala Ram ...	Deputy Engineer-in-Chief, Eastern Bengal Railway.	32-1, Upper Circular Road, Calcutta.	1911
2	Narayan Kisen Sen	Stamp Store-keeper, Office of the Controller of Printing, Stationery and Stamps, India.	Calcutta	1911
3	Umesh Chandra Das	Retired Civil Surgeon	27, Gopal Lal Thakur's Road, Baranagor, 24-Parganas. Also Burdwan.	1911

(*a*) Conferred by H. M. King at Calcutta.
(*b*) Conferred by H. R. H. the Prince of Wales.
(*c*) Also recipient of King's Police Medal.

PART I.—LIST OF PERSONS IN BENGAL HOLDING DECORATIONS CONFERRED BY THE CROWN.

No.	Full name with titles and decorations.	Official designation.	Residence.	Year in which the title was granted.
	IMPERIAL SERVICE ORDER.			
	Companions of the Imperial Service Order.			
4	Robert George Girard	Collector of Income-tax, Bengal ...	Calcutta	1912
5	Charu Chundra Goswami ...	Late Registrar, Assam Secretariat ...	Bhajanghata, Nadia. At present 16, Dalimtola Lane, Calcutta.	1912
6	Ambika Charan Chatarji ...	Saristadar, District Judge's Court, Comilla.	Comilla	1913
7	Dr. Paul Johanners Brühl, D.Sc., M.I.E.E., F.G.S., F.C.S.	Registrar, Calcutta University ...	Calcutta	1915
8	Khagendra Nath Mitra	Retired Deputy Magistrate and Deputy Collector.	14, Bechu Chatarji Street, Calcutta.	1913
9	G. H. Maffin	Late Chief Inspector, Customs Preventive Service, Calcutta	England	1913
10	Manmatha Nath Ghosh ...	Retired Deputy Magistrate and Deputy Collector.	Calcutta	1914
11	Rai Chuni Lal Basu Bahadur, M.B., F.C.S.	1st Asst. Chemical Exmr. to Govt., Teacher of Physics and Chemistry, Campbell Medical School, and Fellow of the Calcutta University.	Ditto	1915
12	John Arthur Evans Burrup ...	Asst. Collector of Customs ...	Ditto	1916
13	Edward Evans Harvey	Chief Accountant, office of the Director of Ordnance Factories.	Ditto	1917
	ORDER OF BRITISH INDIA—(Second Class).			
1	Subadar-Major Gopal Chandra Sardar Bahadur.	Subadar, Dacca Military Police Battalion.	Dacca	1911
2	Ram Singh Bahadur	1st Class Sr. Sub-Asst. Surgeon, Indian Subordinate Medical Dept.	Reverted to Military duty.	1914
	Order of the Crown of India.			
1	Her Highness Maharani Suniti Debi	.....	Cooch Behar; also "Woodlands," Alipore, 24-Parganas; also "Colinton," Darjeeling."	1887

PART I.—LIST OF PERSONS IN BENGAL HOLDING DECORATIONS CONFERRED BY THE CROWN.

KNIGHT.

No.	Full name with titles and decorations.	Official designation.	Residence.	Year in which the title was granted.
1	The Hon'ble Sir Allan Arthur ...	.....	34, Chowringhee, Calcutta.	1900
2	Sir Gurn Das Banarji, D.L. ...	Late Judge, High Court, Calcutta ...	Sashtitola Road, Narkeldanga, Sealdah.	1904
3	Sir E. Cable	.....	In England ...	1906
4	Maharaja Sir Pradyot Kumar Tagore Bahadur. (*a*)	.....	12 and 13, Prasanna Kumar Tagore Street, Calcutta.	1906
5	Sir Chunder Madhab Ghose ...	Late Judge, High Court, Calcutta ...	Bhawanipur, Calcutta; also village Sologhur, Dacca.	1906
6	Sir George Henry Sutherland ...	.....	In England ...	1908
7	Sir Henry Cooper Eggar, M.V.O. ...	Head Partner, Messrs. Sanderson & Co., Solicitors.	Ditto ...	1910
8	The Hon'ble Justice Sir Ashutosh Mukharji, C.S.I., M.A., D.L.	Judge, Calcutta High Court, and Fellow of the Calcutta University.	77, Russa Road, Calcutta.	1911
9	Sir Ralph Percy Ashton ...	Partner in Messrs. Kilburn & Co., Calcutta, and President of the Mining and Geological Institutes.	In England ...	1911
10	Sir Frederick Loch Halliday, C.I.E., M.V.O.	D. I.-G of Police, Bengal. (On leave.)	Ditto	1911
11	Sir William Garth	Advocate, Calcutta High Court ...	Ditto	1914
12	Lt.-Col. Sir Leonard Rogers, C.I.E., M.D., I.M.S., F.R.C.S., M.R.C.P.	Professor of Pathology, Medical College, Calcutta, and Bacteriologist to Government.	12, Elysium Row, Calcutta.	1914
13	Sir Satyendra Prasanna Sinha ...	Advocate-General, Bengal, on deputation to England.	17, Elysium Row, Calcutta.	1915
14	Sir Ruthven Grey Monteath ...	Senior Resident partner of Messrs. Mackinnon, Mackenzie & Co.	Calcutta	1915
15	Sir Rash Bihari Ghosh, C.S.I., C.I.E., D.L.	Vakil, High Court, Calcutta ...	33, Judge's Court Road, Alipore, Calcutta.	1915
16	The Hon'ble Justice Sir John George Woodroffe, Bar.-at-Law.	Puisne Judge of the High Court, Calcutta.	Calcutta	1915
17	Sir Rabindranath Tagore	.....	Ditto and Bolpore ...	1915
18	Sir Robert Richard Gales, A.M.I.C.E., F.C.H.	Chief Engineer with the Railway Board.	Delhi and Simla ...	1915
19	The Hon'ble Sir Lancelot Sanderson, K.C.	Chief Justice, Bengal	7, Middleton Street, Calcutta.	1915
20	Rai Bahadur Sir Kailas Chandra Basu, C.I.E. (*b*)	.....	1, Sukea's Street, Calcutta.	1916
21	Sir Francis Hugh Stewart, C.I.E ...	Partner, Messrs. Gladstone, Wyllie & Co.	5, Council House Street, Calcutta.	1916
22	The Hon'ble Justice Sir Charles William Chitty, Bar.-at-Law.	Puisne Judge of the High Court, Calcutta.	Calcutta	1916
23	Sir Robert Swan Highet ...	Agent, E. I. Ry.	.....	1916
24	The Hon'ble Sir Archibald Birkmyre	Messrs. Birkmyre Bros. ...	Calcutta	1917
25	Sir Jagadish Chandra Basu, C.S.I., C.I.E.	.....	93, Upper Circular Road, Calcutta.	1917
26	Sir Norcot Hasting Yeeles Warren	Secretary and Treasurer, Bank of Bengal.	Calcutta	1917
27	Sir Duncan Carmichael	Partner, Messrs. Mackinnon, Mackenzie & Co.	In England ...	1917

(*a*) The title of Maharaja is hereditary.
(*b*) Also recipient of a Kaisar-i-Hind Medal (First Class)

PART II—LIST OF PERSONS IN BENGAL HOLDING TITLES CONFERRED OR RECOGNIZED BY GOVERNMENT.

No.	Full name with titles and decorations.	Official mode of address.	Residence.	Year in which the title was granted.	REMARKS.
		NATIVE CHIEFS.			
		Hill Tippera.			
1	His Highness Raja Birendra Kishor Deb Barman Manikya.	His Highness Raja Birendra Kishor Deb Barman Manikya, of Hill Tippera.	Hill Tippera.		
		Cooch Behar.			
1	His Highness Maharaja Sir Jitendra Narayan Bhup Bahadur, K.C.S.I.	His Highness Maharaja Sir Jitendra Narayan Bhup Bahadur, K.C.S.I. of Cooch Behar.	Cooch Behar; also "Woodlands," Alipore, 24-Parganas; also "Colinton," Darjeeling.		
		ZAMINDARS AND NOBLEMEN.			
		Maharajadhiraja Bahadur of Burdwan (Hereditary).			
1	The Hon'ble Sir Bijay Chand Mahtab, K.C.S.I., K.C.I.E., I.O.M., Maharajadhiraja Bahadur of Burdwan.	The Hon'ble Sir Bijay Chand Mahtab, K.C.S.I., K.C.I.E., I.O.M., Maharajadhiraja Bahadur of Burdwan.	Burdwan; also Alipore, Calcutta, and "Rose Bank," Darjeeling.	1908	
		Maharaja Bahadur (Personal).			
1	Maharaja Sir Girija Nath Ray Bahadur, K.C.I.E.	Maharaja Sir Girija Nath Ray Bahadur, K.C.I.E., of Dinajpur.	Dinajpur	1907	
2	Maharaja Sir Pradyot Kumar Tagore Bahadur, KT.	Maharaja Sir Pradyot Kumar Tagore Bahadur, KT.	12 and 13, Prasanna Kumar Tagore Street, Calcutta.	1911	The title of "Maharaja" is hereditary.
3	Maharaja Kshaunnish Chandra Ray Bahadur.	Maharaja Kshaunnish Chandra Ray Bahadur, of Krishnagar.	Krishnagar ...	1917	
		Maharaja (Hereditary).			
1	Maharaja Sir Pradyot Kumar Tagore Bahadur, KT.	Maharaja Sir Pradyot Kumar Tagore Bahadur, KT.	12 and 13, Prasanna Kumar Tagore Street, Calcutta.	1891	The title of "Maharaja Bahadur" is *personal*.
2	Maharaja Bhupendra Chandra Singh.	Maharaja Bhupendra Chandra Singh, of Susang.	Susang, Mymensingh ...	1884	Succeeded to the title in 1916.

PART II—LIST OF PERSONS IN BENGAL HOLDING TITLES CONFERRED OR RECOGNIZED BY GOVERNMENT.

No.	Full name with titles and decorations.	Official mode of address.	Residence.	Year in which the title was granted.	REMARKS.
		Maharaja (Personal).			
1	Maharaja Jagadindra Nath Ray.	Maharaja Jagadindra Nath Ray, of Nator.	Nator, Rajshahi ...	1877	
2	The Hon'ble Maharaja Sir Manindra Chandra Nandi, K.C.I.E.	The Hon'ble Maharaja Sir Manindra Chandra Nandi, K.C.I.E., of Kasimbazar	Kasimbazar, Murshidabad; also 302, Upper Circular Road, Calcutta.	1898	The title of Maharaja has been conferred upon his next heir and successor as a *personal* distinction, subject to the approval of the head of the Government of Bengal for the time being
3	Maharaja Ranajit Sinha.	Maharaja Ranajit Sinha, of Nashipur.	Nashipur, Murshidabad; also 10, Hungerford Street, Calcutta.	1910	The title of "Raja Bahadur" is hereditary
		Raja Bahadur (Hereditary).			
1	Maharaja Ranajit Sinha.	Maharaja Ranajit Sinha, of Nashipur.	Nashipur, Murshidabad; also 10, Hungerford Street.	1917	The title of "Maharaja" is personal.
		Raja Bahadur (Personal).			
1	Raja Shashi Shekhareshwar Ray Bahadur.	Raja Shashi Shekhareshwar Ray Bahadur, of Tahirpur.	Tahirpur, Rajshahi ...	1896	
2	Raja Rao Jogendra Narayan Ray Bahadur. (*a*)	Raja Rao Jogendra Narayan Ray Bahadur, of Lalgola.	Lalgola, Murshidabad	1909	
3	Raja Shashi Kanta Acharji Chaudhuri Bahadur.	Raja Shashi Kanta Acharji Chaudhuri Bahadur, of Muktagacha, Mymensingh.	Muktagacha, Mymensingh.	1913	
4	Raja Pramatha Bhushan Deb Ray Bahadur.	Raja Pramatha Bhushan Deb Ray Bahadur, of Naldanga.	Naldanga, Jessore; also Noahatta, Muhammadpur, police-station Magura, Jessore; also 66, Linton Street, Entally, Calcutta.	1913	
5	Raja Sati Prasad Garga Bahadur.	Raja Sati Prasad Garga Bahadur, of Mahisadal.	Mahisadal, Midnapore; also 78, Wellesley Street, Calcutta.	1913	
6	Raja Ban Bihari Kapur Bahadur, C.S.I. (*a*)	Raja Ban Bihari Kapur Bahadur, C.S.I.	Burdwan	1916	

(*a*) Also recipient of a Kaisar-i-Hind Medal (First Class).

PART II—LIST OF PERSONS IN BENGAL HOLDING TITLES CONFERRED OR RECOGNIZED BY GOVERNMENT.

No.	Full name with titles and decorations.	Official mode of address.	Residence.	Year in which the title was granted.	REMARKS.
		Raja (Personal).			
1	Raja Pyari Mohan Mukharji, C.S.I.	Raja Pyari Mohan Mukharji, C.S.I.	Uttarpara, Hooghly ...	1887	
2	Raja Shrinath Ray ...	Raja Shrinath Ray, of Bhagyakul.	Bhagyakul, Dacca; also 53B, Shobhabazar Street, Calcutta.	1891	
3	Raja Narendra Lal Khan.	Raja Narendra Lal Khan, of Narajole.	Narajole, Midnapore; also 116, Bow Bazar Street, Calcutta.	1895	
4	Raja Pramada Nath Ray.	Raja Pramada Nath Ray, of Dighapatia.	163, Lower Circular Road, Calcutta; also "Giribilash," Darjeeling; also Dighapatia, Rajshahi.	1897	
5	Raja Bhuban Mohan Ray.	Raja Bhuban Mohan Ray.	Rangamati, Chittagong Hill Tracts; also Rajnagar in Chittagong.	1897	
6	Raja Gopendra Krishna Deb.	Raja Gopendra Krishna Deb.	2, Raja Naba Krishna Street, Calcutta.	1906	Late a District and Sessions Judge, Bengal.
7	Raja Bijay Singh Dudhuria.	Raja Bijay Singh Dudhuria, of Azimganj.	Azimganj; also 6 & 7, Camac Street, Calcutta.	1908	
8	Raja Jogendra Kishor Ray Chaudhuri.	Raja Jogendra Kishor Ray Chaudhuri, of Ramgopalpur.	Ramgopalpur, Mymensingh.	1909	
9	Raja Krista Das Laha	Raja Krista Das Laha.	2, Cornwallis Street, Calcutta.	1910	
10	Raja Manmatha Nath Ray Chaudhuri.	Raja Manmatha Nath Ray Chaudhuri, of Santosh.	Santosh, Mymensingh; also 16-1, Alipore Road, Calcutta.	1910	
11	Raja Jagat Kishor Acharji Chaudhuri.	Raja Jagat Kishor Acharji Chaudhuri, of Muktagacha, Mymensingh.	Muktagacha, Mymensingh.	1910	
12	Raja Kishori Lal Goswami.	Raja Kishori Lal Goswami.	Serampore, Hooghly ...	1911	Late a Member, Executive Council, Bengal.
13	Raja Mahendra Ranjan Ray Chaudhuri.	Raja Mahendra Ranjan Ray Chaudhuri, of Kakina.	Kakina, Rangpur ...	1911	
14	Raja Sarat Chandra Ray Chaudhuri (a).	Raja Sarat Chandra Ray Chaudhuri, of Chanchal.	Chanchal, Malda ...	1912	

(a) Also recipient of a Kaisar-i-Hind Medal (First Class).

PART II—LIST OF PERSONS IN BENGAL HOLDING TITLES CONFERRED OR RECOGNIZED BY GOVERNMENT.

No.	Full name with titles and decorations.	Official mode of address.	Residence.	Year in which the title was granted.	REMARKS.
		Raja (Personal).			
15	Raja Gopal Lal Ray ...	Raja Gopal Lal Ray, of Tajhat.	Tajhat, Rangpur ...	1912	
16	The Hon'ble Raja Hrishikesh Laha, C.I.E.	The Hon'ble Raja Hrishikesh Laha, C.I.E.	96, Amherst Street, Calcutta.	1913	
17	Raja Jyot Kumar Mukharji.	Raja Jyot Kumar Mukharji.	Uttarpara, Hooghly ...	1915	
18	Raja Maniloll Singh Roy.	Raja Maniloll Singh Roy, of Chakdighi.	Chakdighi, Burdwan; also 14, Thakurdass Palit's Lane, Calcutta.	1916	
19	Raja Satya Niranjan Chakrabatti.	Raja Satya Niranjan Chakrabatti, of Hetampur.	Hetampur, Birbhum ...	1916	
		Rani (Personal).			
1	Rani Hemanta Kumari Debi.	Rani Hemanta Kumari Debi, of Puthia, Rajshahi.	Puthia, Rajshahi ...	1901	
2	Rani Dinamani Chaudhurani.	Rani Dinamani Chaudhurani, of Santosh.	Santosh, Mymensingh; also 16-1, Alipore Road, Calcutta.	1910	
		Mahamahopadhyaya (Personal).			
1	Hara Prasad Shastri, C.I.E., F.A.S.B.	Mahamahopadhyaya Pandit Hara Prasad Shastri, C.I.E., F.A.S.B.	26, Pataldanga Street, Calcutta; also Naihati, 24-Parganas.	1898	
2	Kamakhya Nath Tarkabagisha.	Mahamahopadhyaya Pandit Kamakhya Nath Tarkabagisha.	111-4, Sham Bazar Street, Calcutta; also Pratappur, thana Jagaballabhpur, Howrah; at present Nabadwip.	1900	
3	Shib Chandra Sarbabhauma.	Mahamahopadhyaya Pandit Shib Chandra Sarbabhauma.	Bhatpara, 24-Parganas	1903	
4	Jadabeshwar Tarkaratna.	Mahamahopadhyaya Pandit Jadabeshwar Tarkaratna.	Nawabganj, Rangpur	1905	
5	Satish Chandra Acharji, Vidyabhusan, M.A., Ph.D., M.R.A.S., F.A.S.B.	Mahamahopadhyaya Pandit Satish Chandra Acharji Vidyabhusan, M.A., Ph.D., M.R.A.S., F.A.S.B.	Calcutta	1906	Principal, Sanskrit College, Calcutta.
6	Guru Charan Tarkadarshanatirtha.	Mahamahopadhyaya Pandit Guru Charan Tarkadarshanatirtha.	Debagram, p.o. Akhaura, Tippera.	1908	Lecturer, Sanskrit College, Calcutta.

PART II—LIST OF PERSONS IN BENGAL HOLDING TITLES CONFERRED OR RECOGNIZED BY GOVERNMENT.

No.	Full name with titles and decorations.	Official mode of address.	Residence.	Year in which the title was granted.	REMARKS.
		Mahamahopadhyaya (Personal).			
7	Kailas Chandra Kabya Byakaran Purana Sankhya Tirtha.	Mahamahopadhyaya Pandit Kailas Chandra Kabya Byakaran Purana Sankhya Tirtha.	Kurigram, Rangpur ...	1909	
8	Kali Prasanna Bhattacharji.	Mahamahopadhyaya Pandit Kali Prasanna Bhattacharji.	Uzirpur, Barisal ...	1911	Retired Principal, Sanskrit College, Calcutta
9	Madhab Chandra Tarkachuramani.	Mahamahopadhyaya Pandit Madhab Chandra Tarkachuramani.	Dacca	1911	
10	Pramatha Nath Tarkabhushan.	Mahamahopadhyaya Pandit Pramatha Nath Tarkabhushan.	Calcutta	1911	Professor, Sanskrit College, Calcutta.
11	Lakshman Shastri ...	Mahamahopadhyaya Pandit Lakshman Shastri.	Ditto	1914	Professor, Sanskrit College, Calcutta.
12	Ajit Nath Nayaratna	Mahamahopadhyaya Pandit Ajit Nath Nayaratna.	Nadia	1916	
13	Gana Nath Sen, M.A., L.M.S.	Mahamahopadhyaya Pandit Gana Nath Sen, M.A., L.M.S.	Beadon Street, Calcutta	1916	
		Bohmong (Hereditary).			
1	Mong Cha Ngeo Chaudhury.	Bohmong Mong Cha Ngeo Chaudhury.	Bandarban, Chittagong Hill Tracts.	1916	
		Mong Raja (Hereditary).			
1	Mong Raja Nephru Sain.	Mong Raja Nephru Sain.	Manikchhari, Chittagong Hill Tracts.		
		Diwan Bahadur.			
1	Hira Lal Basu	Diwan Bahadur Hira Lal Basu.	10, Creek Lane, Calcutta	1912	
2	Hari Nath Ray ...	Diwan Bahadur Hari Nath Ray.	16, Noor Muhammad Sarkar's Lane, Calcutta.	1914	Late Offg. Judge, Calcutta High Court
		Sardar Bahadur (Personal).			
1	Subadar-Major Gopal Chandra, Sardar Bahadur.	Subadar-Major Gopal Chandra, Sardar Bahadur.	Dacca	1910	
2	Bhimdal Diwan Lazarus Rai. (a)	Sardar Bahadur Bhimdal Diwan Lazarus Rai.	Darjeeling	1911	Retired Deputy Superintendent of Police.
3	Belbong Ram (a) ...	Sardar Bahadur Belbong Ram.	Mashpara village, p.s. Kamarpatta, dist. Goalpar, Dhubri.	1914	Retired Inspector, Armed Police, Jalpaiguri.

(a) Recipient of a King's Police Medal

PART II—LIST OF PERSONS IN BENGAL HOLDING TITLES CONFERRED OR RECOGNIZED BY GOVERNMENT.

Rai Bahadur (Personal).

No.	Full name with titles and decorations.	Official mode of address.	Residence.	Year in which the title was granted.	Remarks.
1	Shetab Chand Nahar ...	Rai Shetab Chand Nahar Bahadur.	Azimganj, Murshidabad	1875	
2	Radha Gobind Ray Sahib.	Rai Radha Gobind Ray Sahib Bahadur.	Dinajpur	1875	
3	Badri Das	Rai Badri Das Bahadur	152, Harrison Road, Calcutta.	1877	
4	Abinash Chandra Banarji.	Rai Abinash Chandra Banarji Bahadur.	Bally, Howrah	1887	
5	Sharat Chandra Banarji	Rai Sharat Chandra Banarji Bahadur.	Sibpur, Howrah; at present at Benares	1887	
6	Budh Singh Dudhuria...	Rai Budh Singh Dudhuria Bahadur.	Azimganj, Murshidabad; also 78, Clive Street, Calcutta.	1888	
7	Nalinaksha Basu ...	Rai Nalinaksha Basu Bahadur.	Burdwan	1890	
8	Gagan Chandra Ray ...	Rai Gagan Chandra Ray Bahadur.	The "Manor," Bankura, and India Club, Calcutta.	1893	
9	Kali Kumar De ...	Rai Kali Kumar De Bahadur.	64, South Road, Entally, Calcutta.	1893	
10	Shrinath Pal	Rai Shrinath Pal Bahadur.	Saidabad, Murshidabad; also 53, Mirzapur Street, Calcutta.	1894	
11	Radha Ballabh Chaudhuri.	Rai Radha Ballabh Chaudhuri Bahadur.	Rajaberia in Sherpur, Mymensingh; also 120, Lower Circular Road, Calcutta.	1894	
12	Baikuntha Nath Basu	Rai Baikuntha Nath Basu Bahadur.	167, Maniktola Street, Calcutta; also Boroe, Jaynagar, 24-Parganas.	1894	Hony. Presy. Magistrate, Calcutta.

PART II—LIST OF PERSONS IN BENGAL HOLDING TITLES CONFERRED OR RECOGNIZED BY GOVERNMENT.

No.	Full name with titles and decorations.	Official mode of address.	Residence.	Year in which the title was granted.	REMARKS.
		Rai Bahadur (Personal).			
13	Hem Chandra Sarkar ...	Rai Hem Chandra Sarkar Bahadur.	Manirampur, 24-Parganas; also 30, Upper Circular Road, Calcutta.	1894	
14	Sir Kailas Chandra Basu, KT., C.I.E.(a)	Rai Bahadur Sir Kailas Chandra Basu, KT., C.I.E.	No. 1, Sukea's Street, Calcutta.	1895	
15	Brahma Mohan Mallik	Rai Brahma Mohan Mallik Bahadur.	Ghuttya Bazar, Hooghly; at present at No. 1-5-1, Prem Chand Boral's Street, Calcutta.	1895	
16	Sarada Prasad Ray ...	Rai Sarada Prasad Ray Bahadur.	Jamna, thana Pandua, Hooghly.	1896	
17	Manmatha Nath Mitra	Rai Manmatha Nath Mitra Bahadur.	54, Shampukur Street, Calcutta.	1897	
18	Surendra Nath Mitra ...	Rai Surendra Nath Mitra Bahadur.	6, Rama Nath Mozumdar's Street, Calcutta.	1897	Late Under-Secy. Financial and Municipal Departments, Government of Bengal.
19	Rajkumar Datta ...	Rai Rajkumar Datta Bahadur.	Harinarayanpur, Noakhali.	1897	Zamindar.
20	Nritya Gopal Basu, C.I.E.	Rai Nritya Gopal Basu Bahadur, C.I.E.	42, Beadon Row, Calcutta.	1897	Late Acctt.-Genl., Bengal.
21	Guru Charan Das Gupta	Rai Guru Charan Das Gupta Bahadur.	Kalia in Jessore; Barisal Town; also 19, Ram Mohan Sen's Lane, Calcutta.	1897	Late Civil Surgeon, Khulna.
22	Raj Mohan Banarji ...	Rai Raj Mohan Banarji Bahadur.	36, Ramtanu Bose's Lane, Calcutta.	1898	
23	Krishna Chandra Chatarji.	Rai Krishna Chandra Chatarji Bahadur.	Dowashine *vid* Sribati post-office, Katwa, Burdwan.	1898	
24	Mani Lal Nahar ...	Rai Mani Lal Nahar Bahadur.	Azimganj, Murshidabad; also 5, Indian Mirror Street, Calcutta.	1898	

(a) Also recipient of a Kaisar-i-Hind Medal (First Class).

PART II—LIST OF PERSONS IN BENGAL HOLDING TITLES CONFERRED OR RECOGNIZED BY GOVERNMENT.

No.	Full name with titles and decorations.	Official mode of address.	Residence.	Year in which the title was granted.	REMARKS.
		Rai Bahadur (Personal).			
25	Nanda Gopal Banarji...	Rai Nanda Gopal Banarji Bahadur.	124-25, Amherst Street, Calcutta ; also Puralia.	1898	District Engineer, Manbhum. Now at Purulia.
26	Rasik Lal Kundu ...	Rai Rasik Lal Kundu Bahadur.	Serampore, Hooghly ; also Imphal, Manipur.	1898	
27	Chuni Lal Basu, I.S.O....	Rai Chuni Lal Basu Bahadur, I.S.O., M.B., F.C.S	24, Mahendra Bose's Lane, Calcutta.	1898	Chemical Examiner to Government and Assistant Professor of Chemistry, Medical College, Calcutta.
28	Krishna Mohan Mukharji.	Rai Krishna Mohan Mukharji Bahadur.	152, Russa Road, South Bhowanipur, Calcutta ; also Harinavi, Rajpur, 24-Parganas.	1899	
29	Krishna Chandra Banarji.	Rai Krishna Chandra Banarji Bahadur.	24, Sankaripara Road, Bhawanipur, Calcutta.	1899	
30	Chandra Kumar Datta	Rai Chandra Kumar Datta Bahadur.	Teota, police-station Shrinagar, Dacca.	1899	
31	Hari Ram Goenka ...	Rai Hari Ram Goenka Bahadur.	31, Banstolla Street, Calcutta.	1900	
32	Girish Chandra Chaudhuri.	Rai Girish Chandra Chaudhuri Bahadur.	68, Corporation Street, Calcutta.	1900	
33	Shashi Bhushan Datta	Rai Shashi Bhushan Datta Bahadur.	Agartala, Hill Tippera...	1901	State Engineer, Hill Tippera.
34	Pulin Bihari Lal Singh	Rai Pulin Bihari Lal Singh Bahadur.	Ukhara, Raniganj ...	1901	
35	Jadu Nath Mazumdar (*a*)	Rai Jadu Nath Mazumdar Bahadur.	Jessore	1902	Government Pleader.
36	Jogesh Chandra Mitra	Rai Jogesh Chandra Mitra Bahadur.	9, Puddopukur Road, Bhawanipur, Calcutta.	1903	
37	Sita Nath Ray ...	The Hon'ble Rai Sita Nath Ray Bahadur.	Bhagyakul, Dacca ; also 102, Sovabazar Street, Calcutta.	1903	

(*a*) Also recipient of a Kaisar-i-Hind (Second Class).

PART II—LIST OF PERSONS IN BENGAL HOLDING TITLES CONFERRED OR RECOGNIZED BY GOVERNMENT.

Rai Bahadur (Personal).

No.	Full name with titles and decorations.	Official mode of address.	Residence.	Year in which the title was granted.	Remarks.
38	Rajendra Chandra Shastri.	Rai Rajendra Chandra Shastri Bahadur.	30, Taruck Chatterjee's Lane, Calcutta.	1903	Bengali Translator.
39	Surjya Kumar Chaudhuri.	Rai Surjya Kumar Chaudhuri Bahadur.	24, Ram Rattan Bose's Lane, Calcutta.	1903	Senior Supdt. in the Dept. of Finance and Commerce of the Govt. of India.
40	Dwarika Nath Mitra ...	Rai Dwarika Nath Mitra Bahadur.	65-4, College Street, Calcutta.	1904	
41	Mati Lal Mukharji ...	Rai Mati Lal Mukharji Bahadur.	Satpukur, Cossipore police-station.	1904	
42	Brajendra Nath Chatarji.	Rai Brajendra Nath Chatarji Bahadur.	45-1, Amherst Street, Calcutta.	1904	
43	Tara Nath Chakrabarti	Rai Tara Nath Chakrabarti Bahadur.	Jafarnagar, Goalundo, Faridpur.	1905	Late Government Pleader, Faridpur.
44	Rajendra Kumar Basu	Rai Rajendra Kumar Basu Bahadur	12, Brindaban Byrak's Street, Calcutta. At present Baidyanath, Sonthal Parganas.	1906	
45	Ram Chandra Mintri ..	Rai Ram Chandra Mintri Bahadur.	Kalimpong, Darjeeling	1906	
46	Pyari Mohan Basu ...	Rai Pyari Mohan Basu Bahadur.	Deputyapara, Palkhara, post-office Munshiganj, Dacca.	1906	
47	Kumudini Kanta Banarji.	Rai Kumudini Kanta Banarji Bahadur.	Munshiganj, Dacca, Rajshahi.	1906	Principal, Rajshahi College.
48	Bihari Lal Chandra ...	Rai Bihari Lal Chandra Bahadur.	16, Baniapukur Road, Calcutta.	1906	
49	Mati Lal Ganguli ...	Rai Mati Lal Ganguli Bahadur.	110, Hazra Road, Bhawanipur, Calcutta.	1906	
50	Sheo Prasad Jhoonjhoon wala.	Rai Sheo Prasad Jhoonjhoon wala Bahadur.	24, Bartala Street, Calcutta.	1906	
51	Karuna Das Basu ...	Rai Karuna Das Basu Bahadur.	Dacca; also 55, Mirzapur Street, Calcutta.	1906	Late District and Sessions Judge, Bengal.
52	Ganga Gobinda Sarkar	Rai Ganga Gobinda Sarkar Bahadur.	1-1, Giris Vidyaratna's Lane, Calcutta.	1906	Civil Surgeon, Rangpur.

PART II—LIST OF PERSONS IN BENGAL HOLDING TITLES CONFERRED OR RECOGNIZED BY GOVERNMENT.

No.	Full name with titles and decorations.	Official mode of address.	Residence.	Year in which the title was granted.	REMARKS.
			Rai Bahadur (Personal).		
53	Mati Lal Haldar ...	Rai Mati Lal Haldar Bahadur.	90-1, Grey Street, Calcutta; also Bhandardaha, thana Dumjur, district Howrah.	1907	Hony. Presy. Magistrate, Calcutta.
54	Sheo Karan Das Goenka	Rai Sheo Karan Das Goenka Bahadur.	12, Banstolla Gully, Calcutta.	1907	
55	Nabin Chandra Datta...	Rai Nabin Chandra Datta Bahadur.	Chittagong ...	1907	Late Civil Surgeon
56	Satish Chandra Chaudhuri.	Rai Satish Chandra Chaudhuri Bahadur.	Bhawanipur, Mymensingh.	1907	
57	Lalit Mohan Singh Ray	Rai Lalit Mohan Singh Ray Bahadur.	Chakdighi, Burdwan; also 4, Creek Row, Calcutta.	1907	
58	Shashi Bhushan Chatarji	Rai Shashi Bhushan Chatarji Bahadur.	South Garia, thana Baruipur, district 24-Parganas.	1907	
59	Gopal Chandra Chatarji	Rai Gopal Chandra Chatarji Bahadur.	No. 44, Creek Row, Calcutta.	1907	Retired Assistant Surgeon.
60	Priya Lal Ganguli ...	Rai Priya Lal Ganguli Bahadur.	12, Parsibagan Lane, Calcutta; also Khalia, Madaripur, Faridpur.	1907	Dy. Magte. and Dy. Collr., Alipore (24-Parganas).
61	Annada Prasad Sarkar	Rai Annada Prasad Sarkar Bahadur.	No. 68, Harish Mukherji Road Bhawanipur, Calcutta.	1908	Late Supdg. Engr., S.-W. Circle.
62	Bipin Bihari Mukharji	Rai Bipin Bihari Mukharji Bahadur.	8-1, Creek Lane, Calcutta.	1908	
63	Suresh Chandra Singh	Rai Suresh Chandra Singh Bahadur.	Kalikacha, Tippera ...	1908	Dy Magte and Dy. Collector, Sealdah.
64	Hari Mohan Chandra (a)	Rai Hari Mohan Chandra Bahadur.	Darjeeling	1908	
65	Jogendra Nath Ghosh	Rai Jogendra Nath Ghosh Bahadur.	23-1-3, Guru Prasad Chaudhuri's Lane, Calcutta.	1909	
66	Chhagmull Sukhani ...	Rai Chhagmull Sukhani Bahadur.	Darjeeling	1909	

(a) Also recipient of a Kaisar-i-Hind Medal (First Class).

PART II—LIST OF PERSONS IN BENGAL HOLDING TITLES CONFERRED OR RECOGNIZED BY GOVERNMENT.

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		Rai Bahadur (Personal).			
67	Purna Chandra Moulik	Rai Purna Chandra Moulik Bahadur.	Durlabpur, Karimpur p.s., Meherpur sub-division, Nadia.	1909	Dy. Magte., Bihar and Orissa.
68	Rasamay Mitra ...	Rai Rasamay Mitra Bahadur.	Calcutta	1909	Late Head Master, Hindu School.
69	Binaya Krishna Bose ...	Rai Binaya Krishna Bose Bahadur.	68, Lansdowne Road, Bhawanipur.	1909	
70	Charu Chandra Sarkar	Rai Charu Chandra Sarkar Bahadur.	Calcutta and Simla; also Sorisha, thana Diamond Harbour, dist. 24-Parganas.	1909	Late Superintendent, Home Department.
71	Rala Ram, I.S.O. ...	Rai Rala Ram Bahadur, I.S.O.	32-1, Upper Circular Road, Calcutta.	1909	Deputy Engineer-in-Chief, E. B. Ry.
72	Chandi Charan Chatarji	Rai Chandi Charan Chatarji Bahadur.	67, Sukea's Street ...	1909	Retired Dy. Magte.
73	Annada Lal Bose ...	Rai Annada Lal Bose Bahadur.	Civil Surgeon, Barisal ...	1909	Asst. Surgeon; formerly Teacher of Surgery and Midwifery, Orissa Medical School, and in medical charge of Cuttack General Hospital.
74	Amrita Lal Raha ...	Rai Amrita Lal Raha Bahadur.	Khulna	1909	Vice-Chairman, Dist. Board, Khulna.
75	Bijay Narayan Kundu	Rai Bijay Narayan Kundu Bahadur.	Itachona, Hooghly ...	1909	
76	Shashi Bhushan Mitra	Rai Shashi Bhusan Mitra Bahadur.	141, Dharamtolla Street, Calcutta.	1909	
77	Shrish Chandra Mitra...	Rai Shrish Chandra Mitra Bahadur.	Belun *viâ* Panduah, dist. Hooghly; also 10, Madan Boral Lane, Bow Bazar, Calcutta.	1909	
78	Chandra Kanta Datta	Rai Chandra Kanta Datta Bahadur.	No. 1, Mullen Street, Calcutta.	1909	
79	Debendra Chandra Ghosh.	The Hon'ble Rai Debendra Chandra Ghosh Bahadur.	54, Kansaripara Road, Bhawanipur.	1910	
80	Bipin Bihari Sen ...	Rai Bipin Bihari Sen Bahadur.	Khulna	1910	Govt. Pleader.
81	Shyam Chand Ray ...	Rai Shyam Chand Ray Bahadur.	8-2, Vidyasagar Street, Calcutta.	1910	Retired Subordinate Judge.
82	Hari Prasad Ghosal ...	Rai Hari Prasad Ghosal Bahadur.	Raghunathgari, Murshidabad.	1910	Ex. Engineer, Govt. of Bihar and Orissa.

PART II—LIST OF PERSONS IN BENGAL HOLDING TITLES CONFERRED OR RECOGNIZED BY GOVERNMENT.

No.	Full name with titles and decorations.	Official mode of address.	Residence.	Year in which the title was granted.	REMARKS.
		Rai Bahadur (Personal).			
83	B. A. Gupte ...	Rai B. A. Gupte Bahadur.	Victoria Memorial Exhibition, Belvedere, Alipore p. o., Calcutta.	1910	Asst. Secy., Victoria Memorial Fund, Calcutta.
84	Sharat Chandra Chatarji.	Rai Sharat Chandra Chatarji Bahadur.	Rangpur	1910	Govt. Pleader.
85	Lal Mohan Guha ...	Rai Lal Mohan Guha Bahadur.	Faridpur, Dacca ...	1910	Dy. Supdt. of Police, Bihar and Orissa.
86	Gopal Chandra Banarji	Rai Gopal Chandra Banarji Bahadur.	Sibpur, Howrah; and 14, Rama Nath Mazumdar Street, Calcutta; also Chakradharpur in Singhbhum.	1910	Late. District and Sessions Judge, Bengal.
87	Jogendra Nath Mitra ...	Rai Jogendra Nath Mitra Bahadur	14, Badur Bagan Row, Calcutta.	1910	Ditto.
88	Radha Charan Pal ...	The Hon'ble Rai Radha Charan Pal Bahadur.	108, Baranashi Ghosh's Street, Calcutta.	1910	Commr., Calcutta Corporation.
89	Mahant Radha Shyam Das Adhikari.	Rai Mahant Radha Shyam Das Adhikari Bahadur.	Basantia, Midnapore ...	1910	
90	Jay Kali Chakravarti...	Rai Jay Kali Chakravarti Bahadur.	Amta, Howrah ..	1910	
91	Biswambhar Rai ...	Rai Biswambhar Rai Bahadur.	Krishnagar, Nadia ...	1910	
92	Shyama Charan Bhattacharjya.	Rai Shyama Charan Bhattacharjya Bahadur.	Kantalpara, 24-Parganas; also Bhatpara, 24-Parganas.	1910	
93	Kiran Chandra Roy ...	Rai Kiran Chandra Roy Bahadur.	Narail, Jessore, and Cossipore, 24-Parganas.	1910	Zemindar.
94	Kripa Nath Datta ...	Rai Kripa Nath Datta Bahadur.	Chitpur, 24-Parganas ...	1910	
95	Girija Prasanna Mukharji.	Rai Girija Prasanna Mukharji Bahadur.	Gobardanga, 24-Parganas; also 6, Elgin Road, Calcutta.	1910	
96	Radhika Charan Datta	Rai Radhika Charan Datta Bahadur.	Jessore; also Khul Kula, village Sailkupa, Jhenidah, Jessore.	1910	Pleader; late Vice-Chairman, District Board.
97	Sheth Mohandas Meghraj.	Rai Sheth Mohandas Meghraj Bahadur.	Bara Bazar, Calcutta ... (At present in Sind, Hyderabad.)	1910	

PART II—LIST OF PERSONS IN BENGAL HOLDING TITLES CONFERRED OR RECOGNIZED BY GOVERNMENT.

Rai Bahadur (Personal).

No.	Full name with titles and decorations.	Official mode of address.	Residence.	Year in which the title was granted.	REMARKS.
98	Barada Kanta Mitra ...	Rai Barada Kanta Mitra Bahadur.	Naihati, 24-Parganas ...	1910	Superintendent, Office of the Director-General of Posts and Telegraphs.
99	Prasanna Kumar Chakrabatti.	Rai Prasanna Kumar Chakrabatti Bahadur.	Dhala, Mymensingh ...	1910	
100	Ramesh Chandra Guha	Rai Ramesh Chandra Guha Bahadur.	Bajrajogini, Dacca ...	1910	Honorary Magistrate, Munshigani.
101	Kunja Lal Sanyal ...	Rai Kunja Lal Sanyal Bahadur.	Kumarkhali, Nadia ...	1910	
102	Baikuntha Nath Sen ...	Rai Baikuntha Nath Sen Bahadur.	Berhampore, Murshidabad ; also Calcutta.	1911	
103	Bipin Bihari Gupta ...	Rai Bipin Bihari Gupta Bahadur.	Halisahar, 24-Parganas; at present at Cuttack.	1911	
104	Banshidhar Banarji, C.I.E.	Rai Banshidhar Banarji Bahadur, C.I.E., B.L.	27-3, Baithakkhana Road, Calcutta.	1911	Deputy Magistrate and Deputy Collector on deputation to the Cal. Improvement Trust.
105	Aghor Chandra Hazra	Rai Aghor Chandra Hazra Bahadur.	61, Diamond Harbour Road, Kidderpore, Calcutta.	1911	Retired Subordinate Judge.
106	Lakshmi Narayan Barman.	Rai Lakshmi Narayan Barman Bahadur.	1, Lal Madhab Mukharjee s Lane, Jorasanko, Calcutta.	1911	Late Registrar, Army Department, Government of India.
107	Pyari Lal Ray Chaudhuri.	Rai Pyari Lal Ray Chaudhuri Bahadur.	Shaistanagar, Noakhali	1911	Zemindar.
108	Bihari Lal Mitra ...	Rai Bihari Lal Mitra Bahadur.	155, Lower Circular Road, Calcutta.	1911	
109	Upendra Nath Brahmachari, M.D.	Rai Dr. Upendra Nath Brahmachari Bahadur.	19, Grey Street, Calcutta.	1911	Teacher of Medicine, Campbell Medical School.
110	Jogendra Nath Mukharji.	Rai Jogendra Nath Mukharji Bahadur.	Gobrapur, p.-o. Gorapota, Jessore.	1911	Retired District and Sessions Judge, Bengal.
111	Chandi Das Ghosh ...	Rai Chandi Das Ghosh Bahadur.	14 and 16, Mohan Bagan Row, Calcutta.	1911	Late Dy. Magte. and Dy. Collr.
112	Prasanna Kumar Basu	Rai Prasanna Kumar Basu Bahadur.	Krishnagar, Nadia ...	1911	Pleader.
113	Mahim Chandra Sarkar	Rai Mahim Chandra Sarkar Bahadur.	10, Kali Das Singhee's Lane, Calcutta: also Malanchi, p.-o. Pabna.	1911	Retired Subordinate Judge.
114	Mahendra Chandra Mitra.	The Hon'ble Rai Mahendra Chandra Mitra Bahadur.	Hooghly	1911	Government Pleader

PART II—LIST OF PERSONS IN BENGAL HOLDING TITLES CONFERRED OR RECOGNIZED BY GOVERNMENT.

No.	Full name with titles and decorations.	Official mode of address.	Residence.	Year in which the title was granted.	REMARKS.
			Rai Bahadur (Personal).		
115	Jogendra Chandra Ghosh.	Rai Jogendra Chandra Ghosh Bahadur.	Bhawanipur, Calcutta; also village Sologhur, Dacca.	1911	
116	Hira Lal Bhaduri ...	Rai Hira Lal Bhaduri Bahadur.	Serampore, Hooghly ...	1911	Late Acctt. in the office of the A.-G., Bengal.
117	Radhika Mohan Lahiri	Rai Radhika Mohan Lahiri Bahadur.	Karakdi, Faridpur ..	1911	Asst. Director-Genl. of the Post Office of India.
118	Ananga Mohan Naha ..	Rai Ananga Mohan Naha Bahadur.	Comilla	1911	Pleader.
119	Charu Chandra Chaudhuri.	Rai Charu Chandra Chaudhuri Bahadur.	Sherpur, Mymensingh ...	1911	Hony. Magte., Sherpur Independent Bench.
120	Mathura Nath Sen ...	Rai Mathura Nath Sen Bahadur.	Barisal (Bakarganj); also Kaora, Barisal.	1911	Pleader.
121	Jogesh Chandra Ghosh	Rai Jogesh Chandra Ghosh Bahadur.	Dacca	1911	
122	Kalipada Banarji ...	Rai Kalipada Banarji Bahadur.	Jalpaiguri	1911	Pleader and Vice-Chairman, District Board, Jalpaiguri.
123	Girish Chandra Datta...	Rai Girish Chandra Datta Bahadur.	21, Punchanan Ghosh's Lane, Calcutta.	1911	Retired Hony. Asst. Engr. (Sub.-Engr., 1st grade), P. W. D., Assam.
124	Priya Nath Mukharji...	The Hon'ble Rai Priya Nath Mukharji Bahadur.	Harrison Road, Calcutta; also Rahora, 24-Parganas.	1912	L.-G. of Registration, Bengal.
125	Pramatha Nath Chatarji	Rai Pramatha Nath Chatarji Bahadur.	Kanaipur, Konnagar; also 28-12, Nakuleshwar Bhattacharji's Lane, Kalighat, Calcutta.	1912	Late Subordinate Judge, 24-Parganas.
126	Hari Nath Ghosh, M.D.	Rai Dr. Hari Nath Ghosh Bahadur.	Sealdah (Calcutta) ...	1912	Asst. Surgn., Teacher, Campbell Medl. School, Sealdah.
127	Priya Nath Banarji ...	Rai Priya Nath Banarji Bahadur.	Jalpaiguri ...	1912	Govt. Pleader, Jalpaiguri.
128	Ananda Chandra Roy	Rai Ananda Chandra Roy Bahadur.	Comilla, Tippera ...	1912	Zemindar of Comilla, Tippera.
129	Shashanka Kumar Ghosh.	Rai Shashanka Kumar Ghosh Bahadur.	Dacca	1912	Govt. Pleader, Dacca.
130	Satish Chandra Sen ...	Rai Satish Chandra Sen Bahadur.	Chittagong ..	1912	Govt. Pleader, Chittagong.
131	Gopal Chandra Mukharji.	Rai Gopal Chandra Mukharji Bahadur.	10-2, St. James' Square, Calcutta.	1912	
132	Mahim Chandra Basu ...	Rai Mahim Chandra Basu Bahadur.	19, Hatkhola Road, p.-o. Ramna, Dacca.	1912	
133	Mrityunjay Ray Chaudhuri.	Rai Mrityunjay Ray Chaudhuri Bahadur.	Sadyapuskarini, Kundi, Rangpur.	1912	Zamindar o Kundi and Hony. Magte. Also Vice-Chairman, Rangpur District Board.

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			Rai Bahadur (Personal).		
134	Janaki Nath Ray ...	Rai Janaki Nath Ray Bahadur.	Bhagyakul, Dacca; also 102, Sovabazar Street, Calcutta.	1913	
135	Pran Krishna Biswas ...	Rai Pran Krishna Biswas Bahadur.	Dasghara, Hooghly; also 181-7, Upper Circular Road, Calcutta.	1913	Retired District and Sessions Judge, Bengal; also Hony. Presy. Magte., Calcutta.
136	Bisweswar Lal Halwasiya.	Rai Bisweswar Lal Halwasiya Bahadur.	Howrah; also 69-70, Cotton Street, and 47, Muktaram Babu's Street, Calcutta.	1913	
137	Chandhuri Krishna Chandra Das Praharaj Mahapatra.	Rai Chaudhuri Krishna Chandra Das Praharaj Mahapatra Bahadur.	Midnapore ...	1913	
138	Dwarka Nath Mazumdar	Rai Dwarka Nath Mazumdar Bahadur.	38-1, Machua Bazar Street, Calcutta.	1913	Supdt., Railway Mail Service, Howrah.
139	Man Mohan Ray ...	Rai Man Mohan Ray Bahadur.	Chandbil Meherpur, Nadia.	1913	Deputy Commissioner, Sambalpur.
140	Ganga Charan Chatarji	Rai Ganga Charan Chatarji Bahadur.	Khalia, police-station Madaripur, Faridpur.	1913	District Magistrate, Pabna.
141	Umesh Chandra Sen ...	Rai Umesh Chandra Sen Bahadur.	Panchchar, police-station Shibchar, Faridpur; also Agartala.	1913	Late Judge, Court of Small Causes, Dacca and Munshiganj.
142	Mahendra Nath Bhattacharji.	Rai Mahendra Nath Bhattacharji Bahadur.	Santragachi, Howrah ...	1913	Vice-Chairman, Howrah Municipality.
143	Lalit Mohan Chatarji ...	Rai Lalit Mohan Chatarji Bahadur.	Dacca	1913	Principal, Jagannath College, Dacca.
144	Upendra Lal Banarji ...	Rai Upendra Lal Banarji Bahadur.	31-1, Brindaban Mallik's Lane, Calcutta.	1913	Assistant Accountant-General, Bengal.
145	Sharat Chandra Chattarji.	Rai Sharat Chandra Chattarji Bahadur.	81-1, Bentinck Street, Calcutta.	1913	Retired Dy. Magte. and Dy. Collr.
146	Krishna Kali Mukharji	Rai Krishna Kali Mukharji Bahadur.	6, Mohim Haldar Street, Kalighat, Calcutta.	1914	
147	Surendra Nath Mitra ...	Rai Surendra Nath Mitra Bahadur.	123, Cornwallis Street, Calcutta.	1914	Late Subordinate Judge.
148	Anath Bandhu De ...	Rai Anath Bandhu De Bahadur.	Kajirpagla, Munshiganj, Dacca.	1914	Dy. Magte. and Dy. Collr.
149	Satyendra Nath Ray Chaudhuri.	Rai Satyendra Nath Ray Chaudhuri Bahadur.	Rairkathi, Pirojpur, Barisal.	1914	Hony. Magte., Bakarganj.
150	Mahendra Chandra Mukharji.	Rai Mahendra Chandra Mukharji Bahadur.	Serajganj, Pabna ...	1914	Chairman, Serajganj Municipality.
151	Mahendra Chandra Lahiri.	Rai Mahendra Chandra Lahiri Bahadur.	Serampore, Hooghly ...	1914	First class Hony. Magte., Serampore Bench; also late Vice-Chairman, Serampore Municipality.
152	Srikrishna Mahapatra(a)	Rai Srikrishna Mahapatra Bahadur.	10-1, St. James' Square, Calcutta.	1914	Dy. Supdt. of Police, Bihar.

(a) Also recipient of the Royal Victorian Medal.

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		Rai Bahadur (Personal).			
153	Chuni Lal Dey ...	Rai Chuni Lal Dey Bahadur.	Calcutta	1914	Registrar, office of the Surveyor-General of India.
154	Chandra Mohan De ...	Rai Chandra Mohan De Bahadur.	Dayanagar, Berhampore, Murshidabad.	1914	Lecturer on Ophthalmic Surgery, Medical School, Agra.
155	Basanta Krishna Basu	Rai Basanta Krishna Basu Bahadur.	Calcutta	1914	Dy. Magte. and Dy Collr.
156	Tarak Chandra Das ...	Rai Tarak Chandra Das Bahadur.	1, Anthony Bagan Lane, Calcutta.	1914	Late Small Cause Court Judge, Munshiganj, Dacca.
157	Manomohan Chakrabarti.	Rai Manomohan Chakrabarti Bahadur.	14, Palmer Bazar Road, Entally.	1914	Dy. Magte. and Dy Collr., Comilla.
158	Nogendra Nath Dhar ...	Rai Nogendra Nath Dhar Bahadur.	Ghootia Bazar, Hooghly	1914	Retired Subordinate Judge.
159	Dina Nath Sanyal ...	Rai Dina Nath Sanyal Bahadur.	Krishnagar ...	1914	Retired Civil Surgeon.
160	Purnananda Chatarji, D.Sc.	Rai Dr. Purnananda Chatarji Bahadur.	Panchasar, Munshiganj, Dacca.	1914	Provl. Edul. Service, Bengal.
161	Bhupati Nath Das ...	Rai Bhupati Nath Das Bahadur.	Dacca	1914	Provl. Edl. Service. Professor, Dacca College.
162	Abinash Chandra Koar	Rai Abinash Chandra Koar Bahadur.	72, Dr. Durga Charan Banarji's Road, Calcutta.	1914	Supdt., Home Dept.
163	Jamini Mohan Mitra ...	Rai Jamini Mohan Mitra Bahadur.	1-2, Durga Charan Pithuri's Lane, Calcutta.	1915	Registrar, Co-operative Societies, Bengal.
164	Pankaja Kumar Chatarji.	Rai Pankaja Kumar Chatarji Bahadur.	10, Ramdhan Mitra's Lane, Shambazar, Calcutta.	1915	Late District and Sessions Judge, Bengal.
165	Hazarimul Doodwawala	Rai Hazarimul Doodwawala Bahadur.	106, Muktaram Babu's Street, Calcutta.	1915	
166	Amar Nath Das ...	Rai Amar Nath Das Bahadur.	No. 20, Bethune Row, Calcutta.	1915	Ex. Engineer, Circular and Eastern Canals Division, Bengal.
167	Prasanna Kumar Ray...	Rai Prasanna Kumar Ray Bahadur.	Chittagong ...	1915	Hony. Magte. and Vice-Chairman of the District Board, Chittagong.

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		Rai Bahadur (Personal).			
168	Shyama Charan Simlai	Rai Shyama Charan Simlai Bahadur.	Patuakhali, Bakarganj	1915	Pleader.
169	Sarada Prasad Sen ...	Rai Sarada Prasad Sen Bahadur.	Faridpur	1915	District and Sessions Judge, Bengal.
170	Shyama Pada Sarkar ...	Rai Shyama Pada Sarkar Bahadur.	Protabnagar, police-station Arambagh, Hooghly. At present Shaharanpur Remount Depôt.	1915	
171	Ramanik Singh ...	Rai Ramanik Singh Bahadur.	Calcutta	1915	Ex. Engineer, E. B. Ry.
172	Haridhan Datta ...	Rai Dr. Haridhan Datta Bahadur.	37, Beniatolla Lane, Calcutta.	1915	
173	Rajan Bhusan Mukharji	Rai Rajani Bhusan Mukharji Bahadur.	Kundala, Birbhum, Bengal.	1915	
174	Debendra Nath Ballabh	Rai Debendra Nath Ballabh Bahadur.	Dhankuria, 24-Parganas, Bengal.	1915	
175	Ram Sadan Bhattacharji.	Rai Ram Sadan Bhattacharji Bahadur.	152, Haris Mukharji's Road, Bhawanipur.	1915	Deputy Magistrate, 24-Parganas, Bengal.
176	Nistaran Banarji ...	Rai Nistaran Banarji Bahadur.	19, Hazra Road, Bhawanipur.	1916	Late Small Cause Court Judge, Sealdah.
177	Kamala Nath Das ...	Rai Kamala Nath Das Bahadur.	Dacca	1916	Late Small Cause Court Judge, Dacca and Munshiganj.
178	Jogendra Kumar Ghosh	Rai Jogendra Kumar Ghosh Bahadur.	Additional Magte. ...	1916	
179	Ambica Prasad Sen ...	Rai Ambica Prasad Sen Bahadur.	Additional District Magte., Comilla.	1916	
180	Shashi Bhushan Mazumdar	Rai Sashi Bhusan Mazumdar Bahadur.	78, Lansdowne Road, Calcutta.	1916	Executive Engineer, Calcutta.
181	Lal Bihari Ganguli ...	Rai Lal Bihari Ganguli Bahadur.	Assistant Surgeon, Campbell Medical School, Calcutta.	1916	
182	Tarak Nath Sadhu ...	Rai Tarak Nath Sadhu Bahadur.	8-1-1, Madan Chatarji's Lane, Calcutta.	1916	Pleader, Police Court, Calcutta.

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		Rai Bahadur (Personal.)			
183	The Hon'ble Sri Nath Ray.	The Hon'ble Rai Sri Nath Ray Bahadur.	Mymensingh; also Shekharnagar, Vikrampur (Dacca).	1916	Manager of the estates of Raja Shashi Kanta Acharji Chaudhuri Bahadur.
184	Annada Charan Sen ...	Rai Annada Charan Sen Bahadur.	No. 1, Girish Mukherji Road, Bhawanipur.	1916	Late District and Sessions Judge.
185	Bhagabati Charan Mitra	Rai Bhagabati Charan Mitra Bahadur.	Alipore	1916	District and Sessions Judge, Alipore.
186	Abinash Chandra Basu	Rai Abinash Chandra Basu Bahadur.	Calcutta	1916	P. A. to the I.-G. of Regn., Bengal
187	Bihari Lal Addi ...	Rai Bihari Lal Addi Bahadur.	18, Gobindo Chand Dhur's Lane, Calcutta.	1916	Hony. Presy. Magte., Calcutta.
188	Mon Mohan Chakrabatti (*a*)	Rai Mon Mohan Chakrabatti Bahadur.	Bharanga, district Pabna; also Dacca.	1916	Late Dy. Supdt. of Police, Bengal.
189	Satish Chandra Banarji	Rai Satish Chandra Banarji Bahadur.	Calcutta	1916	Asst. Prof. of Physiology, Medical College.
190	Rama Prasad Mallik ...	Rai Rama Prasad Mallik Bahadur.	Agradwipa, Burdwan; also 4, Bhuban Mohan Sarkar Lane, Calcutta.	1916	Zemindar and Hony. Magte.
191	Kedar Nath Banarji ...	Rai Kedar Nath Banarji Bahadur.	Howrah	1916	
192	Nishi Kanta Ghosh ...	Rai Nishi Kanta Ghosh Bahadur.	The Lodge, Mymensingh; also Ray's House, Bajrajogini, Dacca.	1916	Pleader and late Chairman, Mymensingh Municipality.
193	Sarada Prasad Bakhshi	Rai Sarada Prasad Bakhshi Bahadur.	Noakhali	1917	District and Sessions Judge, Noakhali.
194	Rajani Kanta Chatarji	Rai Rajani Kanta Chatarji Bahadur.	Calcutta	1917	Late Sub Judge, Bengal.
195	Annada Mohan Ray Chaudhuri.	Rai Annada Mohan Ray Chaudhuri Bahadur.	Zemindar, Tepa Rangpur	1917	
196	Bunwari Lal Hati ...	Rai Bunwari Lal Hati Bahadur.	Pleader, Adra, Burdwan	1917	
197	Nikhil Nath Roy ...	Rai Nikhil Nath Roy Bahadur.	Deputy Collector ...	1917	Sub-Divisional Officer, Contai, Midnapore.
198	Bhupendra Nath Gupta.	Rai Bhupendra Nath Gupta Bahadur.	18, Bhatpara Lane, Sibpur, Howrah.	1917	
199	Purna Chandra Lahiri	Rai Purna Chandra Lahiri Bahadur.	74, Nimtola Street, Calcutta.	1917	Asst. Commissioner of Police, Calcutta.
200	Gopal Chandra Chatarji	Rai Gopal Chandra Chatarji Bahadur.	1-5, Prem Chand Boral's Street, Calcutta.	1917	Asst. Bacteriologist and Asst. Professor of Pathology, Medical College.
201	Chaudhuri Gajendra Nath Satpati.	Rai Chaudhuri Gajendra Nath Satpati Bahadur.	Banpatna, p.-o. Benapur, Midnapore.	1917	.....

(*a*) Also recipient of King's Police Medal.

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		Vaidyaratna (Personal).			
1	Kaviraj Kali Das Bidyabhusan.	Vaidyaratna Kaviraj Kali Das Bidyabhusan.	8, Ray Bagan Lane, Calcutta.	1912	
2	Kaviraj Jogendra Nath Sen Bidyabhusan.	Vaidyaratna Kaviraj Jogendra Nath Sen Bidyabhusan.	31, Prasanna Kumar Tagore Street, Calcutta; also Khandarpara, Faridpur.	1912	
		Sardar Sahib.			
1	Subadar Niranjan Singh	Sardar Sahib Subadar Niranjan Singh.	Head Indian Passenger Supdt., E. B. Railway.	1916	
		Rai Sahib (Personal).			
1	Srikrishna Ghosh ...	Rai Sahib Srikrishna Ghosh.	Rajibpur, thana Habra, 24-Parganas.	1892	
2	Bhagabati Charan Chatarji.	Rai Sahib Bhagabati Charan Chatarji.	Talpukur, police-station Titagarh, 24-Parganas.	1894	
3	Durga Charan Chakrabatti.	Rai Sahib Durga Charan Chakrabatti.	3-1, Haro Lal Mitra Street, Bagh Bazar, Calcutta; also Somrah, Hooghly.	1895	Hony. Assistant Engineer, Circular and Eastern Canals Division.
4	Mathura Mohan Mukharji.	Rai Sahib Mathura Mohan Mukharji.	"Augusta Villa," Darjeeling.	1895	
5	Girindra Nath Mukharji	Rai Sahib Girindra Nath Mukharji.	94, Corporation Street, Calcutta.	1897	
6	Bankim Chandra Mazumdar.	Rai Sahib Bankim Chandra Mazumdar.	Khulna	1898	
7	Mahendra Nath Chatarji	Rai Sahib Mahendra Nath Chatarji.	Sarai, police-station Pandua; now living at Benares.	1898	
8	Dwaraka Prasad ...	Rai Sahib Dwaraka Prasad.	1, Puddopooker Square, Kidderpore, Calcutta.	1901	Sub-Engr., Works Services.
9	Priya Nath Basu ...	Rai Sahib Priya Nath Basu.	Borah, thana Singur, dist. Hooghly.	1901	
10	Dwaraka Nath Das ...	Rai Sahib Dwaraka Nath Das.	Karjonee, post-office Ghair, Manikganj, Dacca.	1902	

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			Rai Sahib (Personal).		
11	Durga Kumar Basu ...	Rai Sahib Durga Kumar Basu.	Barabari, Tegharia, Dacca.	1902	
12	Haran Chandra Rakshit	Rai Sahib Haran Chandra Rakshit.	Mazilpore, thana Joynagar dist. 24-Parganas.	1903	
13	Phanindra Mohan Basu	Rai Sahib Phanindra Mohan Basu.	.....	1903	
14	Surendra Nath Gupta...	Rai Sahib Surendra Nath Gupta.	115-1, Lower Circular Road, Calcutta.	1903	
15	Pramada Kumar Bose...	Rai Sahib Pramada Kumar Bose.	Dacca ...	1903	Offg. Inspector of Schools. He has returned to Dacca.
16	Braja Nath Shaha ...	Rai Sahib Braja Nath Shaha.	Chowmatha, Chinsura, dist. Hooghly. Is living in Benares.	1904	
17	Kali Mohan Sen ...	Rai Sahib Kali Mohan Sen.	Sonarang, Dacca ...	1908	Sub-Asst. Surgeon, Dibrugarh.
18	Kali Kishor Chaudhuri	Rai Sahib Kali Kishor Chaudhuri.	Mustafapur, Madaripur, Faridpur.	1908	Retired Inspr. of Police.
19	Pran Krishna Sen ...	Rai Sahib Pran Krishna Sen.	Bihar and Orissa Government.	1909	Sub-Engr. and Hony. Asst. Engr., P. W. D., Bihar.
20	Banga Chandra Chaudhuri.	Rai Sahib Banga Chandra Chaudhuri.	Calcutta	1909	Asst. Inspr. of Distilleries.
21	Row Narayan Sooryavunsy.	Rai Sahib Row Narayan Sooryavunsy.	Chittagong ...	1909	Late Inspector of Telegraphs, A.-B. Ry.
22	Makhan Lal Ghosh ...	Rai Sahib Makhan Lal Ghosh.	14, Mohon Bagan Row, Calcutta.	1910	Assistant, Foreign Dept.
23	Nabin Chandra Chaudhuri.	Rai Sahib Nabin Chandra Chaudhuri.	27, Lansdowne Road, Ballyganj, Calcutta.	1910	Clerk, Office of the Quartermaster General in India.
24	Jogesh Chandra Bhaumik. (a)	Rai Sahib Jogesh Chandra Bhaumik.	Midnapore	1910	Deputy Supdt. of Police.
25	Gyan Chandra Chaudhuri.	Rai Sahib Gyan Chandra Chaudhuri.	3, Nundo Kumar Chowdhury's Lane.	1911	Late Head Assistant, Appt. Dept., Bengal Secretariat.
26	Bhupendra Nath Mukharji.	Rai Sahib Bhupendra Nath Mukharji.	28, Kasundia Road, Howrah.	1911	Deputy Magistrate and Dy. Collector. S. D. O., Kushtia.
27	Guru Nath Sen ...	Rai Sahib Guru Nath Sen.	Mirata's Lane, Dacca Town.	1911	
28	Nanda Kumar Basu ...	Rai Sahib Nanda Kumar Basu.	Kutibaree, post-office Rajnagar, Dacca. Also 34-3, Bahir Mirzapur Road, Garpar, 24-Parganas.	1911	Retired Supdt. of Police, Jessore.

(a) Also recipient of King's Police Medal.

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			Rai Sahib (Personal).		
29	Ishan Chandra Ghosh...	Rai Sahib Ishan Chandra Ghosh.	Calcutta	1911	Late Head Master, Hare School.
30	Nalini Kanta Rai Chaudhuri.	Rai Sahib Nalini Kanta Rai Chaudhuri.	Raruli, Khulna ...	1911	
31	Purna Chandra Chakrabatti.	Rai Sahib Purna Chandra Chakrabatti.	Panchanantollah Lane, Bally. Also 4, Pitambar Bhuttacharji's Lane, Garpar, 24-Parganas.	1911	Late Head Clerk, Sibpur Engineering College.
32	Tarak Brahma Biswas	Rai Sahib Tarak Branma Biswas.	Paikpara, p.-s. Mirpur, subdivision Kushtia.	1911	Retired Extra Assistant Conservator of Forests.
33	Kali Prasanna Ray ...	Rai Sahib Kali Prasanna Ray.	Satrijitpur, p. o. Binodepur, Jessore. * Also 26-2, Scott's Lane, Calcutta.	1911	Late Head Assistant, Inspector-General of Police's Office.
34	Girish Chandra Bagchi	Rai Sahib Girish Chandra Bagchi.	Police Hospital, 118, Amherst Street, Calcutta.	1911	Sub-Assistant Surgeon, Police Hospital.
35	Kali Charan Datta ...	Rai Sahib Kali Charan Datta.	Calcutta	1911	Superintendent, Military Accountant-General's Office.
36	Bhuthnath Chatarji ...	Rai Sahib Bhutnath Chatarji.	Chaitalpara Lane, Bally, dist. Howrah.	1911	Retired Accountant, office of the Controller, Military Accounts.
37	Nirduksha Kumar Ghosh.	Rai Sahib Nirduksha Kumar Ghosh.	66, Chaulputty Road, Bhawanipur, Calcutta.	1911	Late Head Clerk, Alipore Meteorological Office.
38	Maya Das Puri ...	Rai Sahib Maya Das Puri.	Calcutta	1911	Extra Assistant Supdt., Survey of India.
39	Nibaran Chandra Mukharji.	Rai Sahib Nibaran Chandra Mukharji.	Ditto	1911	Asst. Traffic Supdt., Bengal-Nagpur Railway.
40	Bhai Sundar Singh ...	Rai Sahib Bhai Sundar Singh.	Kharagpur, Midnapore...	1911	Inspector of Works, Bengal-Nagpur Railway.
41	Devendra Nath Ghosh	Rai Sahib Devendra Nath Ghosh.	26, Nyan Chand Dutt's Street, Calcutta.	1911	Supdt., Dept. of Statistics, India.
42	Akshay Kumar Sarkar	Rai Sahib Akshay Kumar Sarkar.	Calcutta	1911	Supdt., Dept. of Commerce and Industry.

PART II—LIST OF PERSONS IN BENGAL HOLDING TITLES CONFERRED OR RECOGNIZED BY GOVERNMENT.

No.	Full name with titles and decorations.	Official mode of address.	Residence.	Year in which the title was granted.	REMARKS.
			Rai Sahib (Personal).		
43	Bidhu Bhushan Majumdar.	Rai Sahib Bidhu Bhushan Majumdar.	Dacca	1911	
44	Pramatha Narayan Chaudhuri.	Rai Sahib Pramatha Narayan Chaudhuri.	Bharenga, Pabna ...	1911	Zemindar.
45	Beni Madhab Mitra ...	Rai Sahib Beni Madhab Mitra.	65-4, Lansdowne Road, Bhawanipur.	1911	Ex. Engr., 2nd Cal. Divn.
46	Pandit Kundan Lal ...	Rai Sahib Pandit Kundan Lal.	Jagadhri, district Umballa.	1911	Supervisor, Survey Dept., Calcutta.
47	Lalit Mohan Sen ...	Rai Sahib Lalit Mohan Sen.	Dacca	1911	Supdt. of Excise.
48	Shyama Charan Ghosh	Rai Sahib Shyama Charan Ghosh	Sara	1911	Sub-Engr., Lower Ganges (Sara) Bridge Project
49	Debendra Nath Bhattacharji.	Rai Sahib Debendra Nath Bhattacharji.	Barisha, 24-Parganas ...	1911	
50	Satish Chandra Basu ...	Rai Sahib Satish Chandra Basu.	Howrah	1911	Asst. Surgeon, Engineering College, Howrah.
51	Sharat Kumar Raha ...	Rai Sahib Sharat Kumar Raha.	Calcutta	1912	Supdt. of Excise.
52	Umesh Chandra Chaudhuri.	Rai Sahib Umesh Chandra Chaudhuri.	Vishnupur, Bankura ...	1912	Hony. Magte., Vishnupur, Bankura.
53	Nagendra Nath Chatarji.	.....	Chandpur, p.-s. Pandua	1912	
54	Jogendra Nath Singha	Rai Sahib Jogendra Nath Singha.	Nadia	1913	Vice-Chairman, Chuadanga Local Board, Nadia.
55	Mrityunjay Chatarji ...	Rai Sahib Mrityunjay Chatarji.	Burdwan	1913	Manager, Ukhra Estate, Raniganj.
56	Brajendra Mohan Gupta	Rai Sahib Brajendra Mohan Gupta.	158-1, Baitakkhana Road.	1913	Head Assistant, Political and Judicial Depts., Bengal Secretariat.
57	Kishori Mohan Mitra ...	Rai Sahib Kishori Mohan Mitra.	31, Brindaban Mullick's Lane, Calcutta.	1913	Late Head Asst., Board of Rev., L. P.
58	Haradhone Basu ...	Rai Sahib Haradhone Basu.	29, Serang's Lane, Calcutta; also Schooldanga, Bankura.	1913	Late Personal Asst. to the Director of Public Instruction.
59	Amrita Lal Basu ...	Rai Sahib Amrita Lal Basu.	Calcutta	1913	Office of the Dy. Acctt.-Genl., Post Office and Telegraphs, Calcutta.
60	Mahendra Nath Datta	Rai Sahib Mahendra Nath Datta.	13, Hari Ghosh Street, Calcutta.	1913	Retired Head Master, Collegiate School, Gauhati.
61	Bihari Lal Dhar ...	Rai Sahib Bihari Lal Dhar.	Matuail, p. o. Demra, thana Keraniganj, Dacca.	1913	Retired Dy. Inspector of Schools, Assam.
62	Kumud Nath Mukharji	Rai Sahib Kumud Nath Mukharji.	Rishra, Serampore ...	1913	Retired Deputy Magistrate.
63	Dinesh Chandra Sen ...	Rai Sahib Dinesh Chandra Sen.	7, Kantapukur Bye-lane, Calcutta.	1913	

PART II—LIST OF PERSONS IN BENGAL HOLDING TITLES CONFERRED OR RECOGNIZED BY GOVERNMENT.

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			Rai Sahib (Personal).		
64	Kalikanand Mukharji	Rai Sahib Kalikanand Mukharji.	Suri, Birbhum ...	1913	Govt. Pleader and Public Prosecutor, Birbhum, Suri.
65	Debendra Kumar Ray	Rai Sahib Debendra Kumar Ray.	Dacca	1913	Supdt., Dacca Normal School.
66	Ananga Mohan Mukharji.	Rai Sahib Ananga Mohan Mukharji.	8, Gopal Banarji's Lane, Shahanagar, Kalighat; also Joynagar.	1913	Dy. Supdt. of Police, Cr. Investigation Dept.
67	Jogendra Nath Ray ...	Rai Sahib Jogendra Nath Ray.	Barrackpur	1913	Late Registrar, Rev. Dept., Bengal Secretariat.
68	Gopal Chandra Bhaumik.	Rai Sahib Gopal Chandra Bhaumik.	Akur Takur, p. o. Tangail, dist. Mymensingh.	1914	Late Forest Ranger.
69	Kunja Bihari Mukharji	Rai Sahib Kunja Bihari Mukharji.	Calcutta	1914	Asst. Commr. of Police, 256, Bow Bazar Street, Calcutta.
70	Guru Charan Datta ...	Rai Sahib Guru Charan Datta.	Ditto	1914	Jail Dept., Bengal.
71	Mahendra Lal Basu ...	Rai Sahib Mahendra Lal Basu.	Hooghly	1914	Hony. Magte., Hooghly.
72	Shyama Charan Ray ..	Rai Sahib Shyama Charan Ray.	Shamsagar, Burdwan ...	1914	Late Asst., Army Dept. Secretariat.
73	Rasik Lal Ray ...	Rai Sahib Rasik Lal Ray.	96-1, Garpar Road, Calcutta.	1914	
74	Bepin Mohan Sehanabis	Rai Sahib Bepin Mohan Sehanabis.	Mihijam, E. I. Ry. ...	1914	
75	Tarak Chandra Datta	Rai Sahib Tarak Chandra Datta.	Calcutta	1914	Head Assistant, Bengal Police Office.
76	Bama Charan Bhowmik	Rai Sahib Bama Charan Bhowmik.	Jorpukharia, Pabna ...	1914	Late Dy. Supdt. of Police, Bihar & Orissa.
77	Narendra Nath Mukharji.	Rai Sahib Narendra Nath Mukharji	19, Balaram Bose Ghat Road, Bhawanipur; also Barasat, dist. 24-Parganas.	1914	Head Assistant, Surveyor-General's Office.
78	Raj Mohan Das (*a*) ...	Rai Sahib Raj Mohan Das.	Alipore, 24-Parganas ...	1915	Dy. Supdt. of Police, Bengal.
79	Mahendra Nath Bhattacharji.	Rai Sahib Mahendra Nath Bhattacharji.	109, Sitaram Ghose's Street, Calcutta.	1915	Personal Asst. to the Inspr.-General of Civil Hospitals, Bengal.
80	Akshay Kumar Mukharji.	Rai Sahib Akshay Kumar Mukharji.	Madaripur, Faridpur ...	1915	
81	Manmohan Guha ...	Rai Sahib Manmohan Guha.	Harpara, Srinagar, Dacca.	1915	Second Insps. of Registration Offices, Bengal (Retired).
82	Hem Chandra Datta ...	Rai Sahib Hem Chandra Datta.	28, Kally Das Singhee's Lane, Calcutta.	1915	Superintendent, Office of Accountant-General, Posts and Telegraphs

(*a*) Also recipient of King's Police Medal.

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			Rai Sahib (Personal).		
83	Tarini Charan Bhattacharji.	Rai Sahib Tarini Charan Bhattacharji.	Calcutta	1915	Head Assistant, Public Works Department, Irrigation Branch, Bengal.
84	Abinash Chandra Basu	Rai Sahib Abinash Chandra Basu.	Midnapore	1915	Honorary Organiser, Co-operative Societies, Pingla, Midnapore, Bengal.
85	Tarapada Ghosh ...	Rai Sahib Tarapada Ghosh.	24-Parganas, Bengal ...	1915	District Sub-Registrar.
86	Hara Kishor Biswas ...	Rai Sahib Hara Kishor Biswas.	Barisal	1915	Deputy Collector, Khas Mahal.
87	Behari Lal Sarkar ...	Rai Sahib Behari Lal Sarkar.	38-2, Bhawani Charan Datta's Street, Calcutta.	1915	Editor of the "Bangavasi", Calcutta in Bengali.
88	Sripati Charan Sarkar	Rai Sahib Sripati Charan Sarkar.	Voluntary Venereal Hospital, Alipore.	1916	Sub-Asstt. Surgeon, Bengal
89	Harihar Mukharji ...	Rai Sahib Harihar Mukharji.	39-4, Sukea's Street Calcutta.	1916	Asstt. Commr. of Police, Calcutta.
90	Kumud Mohan Das Gupta (a)	Rai Sahib Kumud Mohan Das Gupta.	11, Camac Street, Calcutta.	1916	Dy. Supdt. of Police, Intelligence Branch, C. I. D.
91	Pramatha Nath Ghosh	Rai Sahib Pramatha Nath Ghosh.	Munshiganj, Dacca ...	1916	
92	Surendra Nath Sinha ...	Rai Sahib Surendra Nath Sinha.	5-2, Ghosh's Lane, Calcutta.	1916	
93	Binay Krishna Basu ...	Rai Sahib Binay Krishna Basu.	Andul Mauri, Howrah	1916	
94	Krishna Chandra Ghatak.	Rai Sahib Krishna Chandra Ghatak.	Clerk, Loco. Supdt.'s Office, Kanchrapara, E. B. Ry.	1916	
95	Peary Mohan Talukdar	Rai Sahib Peary Mohan Talukdar.	Guakhara, p.s. Chatmohar, Pabna.	1916	Late Superintendent, Deputy Commissioner's Office, Darjeeling.
96	Trailokya Nath Dey ...	Rai Sahib Trailokya Nath Dey.	33, Bhuban Banerji Lane, Calcutta.	1916	Supdt., Office of the Dy. A.-G., Posts and Telegraphs, Calcutta.
97	Amal Chandra Pal ...	Rai Sahib Amal Chandra Pal.	Superintendent of the Park, Barrackpore.	1916	
98	Dwarka Nath Mubayi	Rai Sahib Pundit Dwarka Nath Mubayi.	Kharagpur ...	1916	Chief Acctt. of the Chief Mechanical Engineer, Kharagpur.
99	Bidhu Bhusan Singh Ray.	Rai Sahib Bidhu Bhusan Singh Ray.	Chakdighi	1916	Personal Asstt. to the Sanitary Commr., Bengal.
100	Chhakkan Lal Bhattacharji	Rai Sahib Chhakkan Lal Bhattacharji.	Jailor, Barisal ...	1916	
101	Hem Chandra Basu ...	Rai Sahib Hem Chandra Basu.	Calcutta ...	1916	Inspector of Police, C. I. D., Bengal.
102	Chandra Kishore Kar ...	Rai Sahib Chandra Kishore Kar.	Mymensingh (Bajitpur)	1916	Hony. Magistrate.

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			Rai Sahib (Personal.)		
103	Gyanendra Nath Mitra	Rai Sahib Gyanendra Nath Mitra.	Calcutta	1916	Registrar, Financial Dept., Bengal.
104	Akhoy Kumar Sen ...	Rai Sahib Akhoy Kumar Sen.	Wari, Dacca ...	1916	Head Clerk, Police Office, Dacca.
105	Sital Chandra Chatarji	Rai Sahib Shital Chandra Chatarji.	Deputy Collector, Rajshahi.	1916	
106	Aswini Kumar Das ...	Rai Sahib Aswini Kumar Das.	Deputy Inspector of Schools, 24-Parganas.	1916	
107	Pyari Mohan Sanyal ...	Rai Sahib Pyari Mohan Sanyal.	Naogaon, Rajshahi ...	1916	Jotedar.
108	Falaram Banarji ...	Rai Sahib Falaram Banarji.	249, Ramkristopur Lane, Howrah.	1916	
109	Sarat Chandra Banarji	Rai Sahib Sarat Chandra Banarji.	.....	1916	
110	Balaram Sen ...	Rai Sahib Balaram Sen	Gorifa, 24-Parganas ...	1916	
111	Dasarathi Bhattacharji	Rai Sahib Dasarathi Bhattacharji.	Deputy Superintendent, Department of Statistics, Calcutta.	1916	
112	Bama Charan Ray ...	Rai Sahib Bama Charan Ray.	Pleader, Bankura ...	1917	
113	Ramani Mohan Mitra...	Rai Sahib Ramani Mohan Mitra.	1-2, Durga Charan Pithuri's Lane, Calcutta.	1917	P. A. to the Commr. of Excise and Salt, Bengal.
114	Hiralal Datta ...	Rai Sahib Hiralal Dutta.	.....	1917	Supdt., M. S. G.'s Office, Calcutta.
115	Gopal Chandra Mukharji.	Rai Sahib Gopal Chandra Mukharji.	46, Bhawani Charan Dutt's Lane, Calcutta.	1917	P. A. to the I.-G. of Prisons, Bengal.
116	Krishnadhone Banarji	Rai Sahib Krishnadhone Banarji.	Ram Mohan Mukerji's Lane, Sibpur, Howrah.	1917	P. A. to the Sanitary Engr., Bengal.
117	Kali Kripa Biswas ...	Rai Sahib Kali Kripa Biswas.	Sharnatoli Patiya, p.-s. Chittagong.	1917	Inspector of Police, Chittagong Hill Tracts.
118	Dina Bandhu Mukharji	Rai Sahib Dina Bandu Mukharji.	Sibpur, Howrah ...	1917	Howrah.
119	Ram Jadab Maitra ...	Rai Sahib Ram Jadab Maitra.	Haripur, p.-s. Chatmohar, Pabna.	1917	Inspector of Registration Offices, Bengal.
120	Mohendra Nath Singh	Rai Sahib Mohendra Nath Singh.	.....	1917	Head Clerk, Gun and Shell Factory, Cossipore.
121	Jagodananda Chatarji	Rai Sahib Jagodananda Chatarji.	.....	1917	Sr. Indian Clerk, Agent's Office, E. I. Ry., Calcutta.

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		Rao Sahib.			
1	Pandit Matadin Sukul	Rao Sahib Pandit Matadin Sukul.	.....	1886	Ex. Engineer
		Nawab Bahadur of Murshidabad and Amir-ul-Omrah—(Hereditary).			
1	The Hon'ble Ihtisham-ul-Mulk Rais-ud-Daula Amir-ul-Omrah Nawab Sir Asif Qadr Saiyid Wasif 'Ali Mirza Khan Bahadur, Mahabat Jang, K.C.S.I., K.C.V.O.	The Hon'ble Ihtisham-ul-Mulk Rais-ud-Daula Amir-ul-Omrah Nawab Sir Asif Qadr Saiyid Wasif 'Ali Mirza Khan Bahadur Mahabat Jang, K.C.S.I., K.C.V.O., Nawab Bahadur of Murshid-abad.	Murshidabad ...	1906	
		Prince (Personal).			
1	Prince Qamar Qadr Mirza Abid Ali Baha-dur.	Prince Qamar Qadr Mirza Abid Ali Baha-dur.	123, Circular Garden Reach Road, Kidder-pore.	1888	
2	Prince Mirza Muham-mad Babar Bahadur.	Prince Mirza Muham-mad Babar Bahadur.	33, Ismail Madan's Lane, Colootolla, Calcutta.	1888	
3	Prince Buland Jah Mirza Muhammad Askari Bahadur.	Prince Buland Jah Mirza Muhammad Askari Bahadur.	Garden Reach, 24-Parganas.	1888	
4	Prince Awali Murtabat Mirza Muhammad Ibrahim Ali Bahadur.	Prince Awali Murtabat Mirza Muhammad Ibrahim Ali Bahadur.	3, Garden Reach, 24-Parganas.	1888	
5	Prince Sultan Mirza Muhammad Riza Ali Bahadur.	Prince Sultan Mirza Muhammad Riza Ali Bahadur.	59, Beniapukur Road, Calcutta.	1888	
6	Prince Dilawar-Jah Mirza Muhammad Naqi Ali Bahadur.	Prince Dilawar-Jah Mirza Muhammad Naqi Ali Bahadur.	3, Garden Reach, 24-Parganas.	1888	
7	Prince Dara Jah Mirza Muhammad Abul Ali Bahadur.	Prince Dara Jah Mirza Muhammad Abul Ali Bahadur.	4-1, Collin's Lane, Cal-cutta.	1888	
8	Prince Afsar-ul-Mulk Mirza Muhammad Akram Husain Baha-dur.	Prince Afsar-ul-Mulk Mirza Muhammad Akram Hussain Baha-dur.	60, Elliot Road, Calcutta	1888	

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		Nawab (Hereditary).			
1	Nawab Khwaja Habibulla.	Nawab Khwaja Habibulla.	Dacca	1915	
		Nawab (Personal).			
1	Nawab A. F. M. Abdur Rahman, Khan Bahadur.	Nawab A. F. M. Abdur Rahman, Khan Bahadur.	16, Taltala Lane, Calcutta; also Rajapur, Faridpur.	1907	Late Judge, Small Cause Court, Calcutta.
2	Nawab Wala Qadr Saiyid Husain 'Ali Mirza.	Nawab Wala Qadr Saiyid Husain 'Ali Mirza.	Murshidabad ...	1909	
3	Nawab Abdul Jabbar, Khan Bahadur, C.I.E.	Nawab Abdul Jabbar, Khan Bahadur, C.I.E.	Kasiarah, Burdwan; also 61, Lower Circular Road, Calcutta.	1910	
4	Nawab Khwaja Muhammad Yusuf, Khan Bahadur.	Nawab Khwaja Muhammad Yusuf, Khan Bahadur.	Dacca	1910	
5	Nawab Siraj-ul-Islam, Khan Bahadur.	Nawab Siraj-ul-Islam, Khan Bahadur.	7, Golam Sovan's Lane, Calcutta.	1911	Vakil, High Court, and Municipal Commissioner, Calcutta.
6	Nawab Saiyid Nawab Ali Chaudhuri, Khan Bahadur.	The Hon'ble Nawab Saiyid Nawab Ali Chaudhuri, Khan Bahadur.	Dhanbari, Mymensingh	1911	Member, Imperial Legislative Council.
7	Nawab Saiyid Hossain Haider Chaudhuri, Khan Bahadur.	Nawab Saiyid Hossain Haider Chaudhuri, Khan Bahadur.	Comilla	1911	Zemindar.
8	Nawab Sir Syed Shams-ul-Huda, K.C.I.E.	The Hon'ble Nawab Sir Syed Shams-ul-Huda, K.C.I.E.	221, Lower Circular Road.	1913	Member, Bengal Ex. Council.
9	Nawab Muhammad Ali Nawab Chowdhury, Khan Bahadur.	Nawab Muhammad Ali Nawab Chowdhury, Khan Bahadur.	Paschimgaon, Tippera	1914	
		Shams-ul-'Ulama (Personal).			
1	Ata-ur-Rahman ...	Shams-ul-'Ulama Maulvi Ata-ur-Rahman.	11, Munshi Walli Ulla's Lane, Calcutta.	1893	

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		Shams-ul-'Ulama (Personal).			
2	Maulvi Vilayat Hussain	Shams-ul-'Ulama Maulvi Vilayat Hussain.	7-1, Ram Sankar Ray's Lane, Calcutta.	1898	
3	Maulvi Lutfur Rahman	Shams-ul-'Ulama Maulvi Lutfur Rahman.	Talibpur, Murshidabad	1904	
4	Khan Bahadur Maulvi Muhammad Yusuf J'afari.	Shams-ul-'Ulama Khan Bahadur Maulvi Muhammad Yusuf J'afari.	Office of the Board of Examiners; also 17, Gardner Lane, Calcutta.	1905	Chief Maulvi to the Board of Examiners.
5	Maulvi Abu Nasr Muhammad Wahid.	Shams-ul-'Ulama Maulvi Abu Nasr Muhammad Wahid.	Dacca	1909	Supdt., Dacca Madrassa.
6	Maulvi Kamaluddin Ahmad.	Shams-ul-'Ulama Maulvi Kamaluddin Ahmad.	33, Gora Chand Road, Calcutta.	1910	Supdt., Chitta[illegible] Madrassa. At present in England.
7	Maulvi Safiulla ...	Shams-ul-'Ulama Maulvi Safiulla.	Calcutta	1911	Lecturer, Arabic Dept., Calcutta Madrassa.
8	Maulvi Abul Khair Abdul Wahhab.	Shams-ul-'Ulama Maulvi Abul Khair Abdul Wahhab.	Lecturer, Calcutta Madrassa.	1914	Subordinate Educational Service.
9	Maulvi Mir Muhammad	Shams-ul-Ulama Maulvi Mir Muhammad.	Professor, Hooghly Madrassa.	1916	
		Khan Bahadur (Personal).			
1	Khundkar Fazl-i-Rabbi	Khan Bahadur Khundkar Fazl-i-Rabbi.	Murshidabad ...	1896	
2	Ghulam Qasim ...	Khan Bahadur Ghulam Qasim.	Saipala in Basirhat, 24-Parganas.	1897	
3	Mirza Shuja'at Ali Beg	Khan Bahadur Mirza Shuja'at Ali Beg.	26, Theatre Road, Calcutta.	1898	

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		Khan Bahadur (Personal).			
4	Munshi Ihsan Husain	Khan Bahadur Munshi Ihsan Husain.	Rajnagar, Birbhum ...	1901	Hony. Magte. of the Sadar Bench and Muhammadan Marriage Registrar.
5	Maulvi Shams-uz-Zuha	Khan Bahadur Maulvi Shams-uz-Zuha.	Sekedda, Birbhum ...	1903	Hony. Magte. of the Sadar Bench.
6	Saiyid Aulad Hasan ...	Khan Bahadur Saiyid Aulad Hasan.	Dacca	1907	Late Inspector of Registration.
7	Sahibzada Muhammad Amir-ud-din.	Sahibzada Muhammad Amir-ud-din Khan Bahadur.	Hooghly	1907	
8	Shams-ul-'Ulama Maulvi Muhammad Yusuf J'afari.	Shams-ul-'Ulama Khan Bahadur Maulvi Muhammad Yusuf J'afari.	17, Gardner Lane ...	1910	Head Maulvi, Board of Examiners, Calcutta.
9	Muhammad Abdul Mumin.	Khan Bahadur Muhammad Abdul Mumin.	61, Lower Circular Road, Calcutta.	1910	Under Secy. to the Govt. of Bengal, Revenue Dept.
10	Taslimuddin Ahmad ...	Khan Bahadur Taslimuddin Ahmad.	Rangpur	1910	
11	Ahsanullah	Khan Bahadur Ahsanullah.	Calcutta	1911	Addl. Inspector of Schools, Presy. Divn.
12	Maulvi Abdus Salam ...	Khan Bahadur Maulvi Abdus Salam.	27, Elliott Lane, Calcutta.	1911	Presy. Magte., Calcutta.
13	Maulvi Hemayatuddin Ahmad.	Khan Bahadur Maulvi Hemayatuddin Ahmad	Barisal	1911	Pleader and Member, Dt. Board.
14	Maulvi Muhammad Ibrahim.	Khan Bahadur Maulvi Muhammad Ibrahim.	Chinsura, Hooghly; also Mussalmanpara Lane, Calcutta.	1912	Inspector of Schools, Presy. Divn.
15	Maulvi Nadir Hossein(a)	Khan Bahadur Maulvi Nadir Hossein.	Kasba Mazail, p. o. Shaurail via Pangsa, E. B. Ry.	1912	Late Dy. Supdt. of Police B. & O. Govt.
16	Maulvi Amin-ul-Islam	Khan Bahadur Maulvi Amin-ul-Islam.	7, Golam Sovan's Lane, Calcutta.	1913	P. A. to the Commr. of the Presy. Divn.
17	Kazi Alauddin Ahmed	Khan Bahadur Kazi Alauddin Ahmed.	Dacca	1913	Zemindar.
18	Haji Abdul Rahim ...	Khan Bahadur Haji Abdul Rahim.	Calcutta	1913	Asst. Supdt., Survey of India.
19	Maulvi Shaikh Ilahi Baksh.	Khan Bahadur Maulvi Shaikh Ilahi Baksh.	Noakhali	1914	Civil Surgeon, Noakhali district.

(a) Also recipient of a King's Police Medal.

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		Khan Bahadur (Personal).			
20	Maulvi Muhammad Ismail.	Khan Bahadur Maulvi Muhammad Ismail.	Mymensingh	1914	Public Prosecutor and Vice-Chairman, District Board, Mymensingh.
21	Maulvi Hafizar Rahaman Chaudhuri.	Khan Bahadur Maulvi Hafizar Rahman Chaudhuri.	Bogra, Bengal	1915	
22	Munshi Khabirullah ...	Khan Bahadur Munshi Khabirullah.	Munshiganj, Dacca ...	1915	
23	Maulvi Wasimuddin Ahmed.	Khan Bahadur Maulvi Wasimuddin Ahmed.	Pabna	1915	Vice-Chairman, District Board, Pabna, Bengal.
24	Maulvi Musharraf Hussain.	Khan Bahadur Maulvi Musharraf Hussain.	Jalpaiguri, Bengal ...	1915	
25	Maulvi Zahiruddin Ahmed.	Khan Bahadur Maulvi Zahiruddin Ahmad.	"Islam Villa," Jagatdal, 24-Parganas; also "Karim Lodge," Bara Bazar, Chinsura, Hooghly; also Elachipur, p. o. Shivalaya, Dacca.	1915	
26	Haji Kasim-ud-din Molla.	Khan Bahadur Haji Kasim-ud-din Molla.	Janai, district Hooghly	1915	
27	Haji Khundkar Fazl-ul-Haq.	Khan Bahadur Haji Khundkar Fazl-ul-Haq.	Khulna and Murshidabad	1916	Deputy Magistrate and Deputy Collector.
28	Maulvi Muhammad Azhur.	Khan Bahadur Maulvi Muhammad Azhur.	Tatur Kandi, Bajitpur, Kishoreganj, Mymensingh.	1916	
29	Maulvi Abu Nasr. Muhammad Ali.	Khan Bahadur Maulvi Abu Nasr. Muhammad Ali.	Calcutta	1916	Municipal Magistrate, Calcutta.
30	Maulvi Ata-ur-Rahman	Khan Bahadur Maulvi Ata-ur-Rahman.	Rajshahi	1916	Dy. Magte. & Dy. Collr.
31	Khwaja Muhammad Azam.	Khan Bahadur Khwaja Muhammad Azam.	Dilkusha, Dacca ...	1917	
		Shifa-ul-Mulk.			
1	Hakim Abdur Rashid Khan	Shifa-ul-Mulk Hakim Abdur Rashid Khan.	No. 18, Harinbari Lane, Calcutta.	1911	
		Khan Sahib (Personal).			
1	Najib Khan	Khan Sahib Najib Khan.	Dum-Dum, 24-Parganas	1907	
2	'Abdul Ghani	Khan Sahib 'Abdul Ghani.	Nurpur, Faridpur ...	1910	Secy., Faridpur Urban Co-operative Credit Society.
3	Janab Ali Khan ...	Khan Sahib Janab Ali Khan.	Madaripur, Faridpur ...	1910	Chairman, Urban Co-operative Credit Societies.
4	Amjad 'Ali	Khan Sahib Amjad 'Ali	Comilla	1911	Inspector of Regn. Offices, Bengal.
5	'Abul Muzaffar 'Abdul 'Ali Khan.	Khan Sahib 'Abul Muzaffar 'Abdul 'Ali Khan.	Mymensingh	1911	District Sub-Registrar, Dacca.
6	Maulvi Abdul Wali ...	Khan Sahib Maulvi Abdul Wali.	23, European Asylum Lane, Calcutta.	1912	Late Inspector of Regn. Offices, Bengal.

PART II—LIST OF PERSONS IN BENGAL HOLDING TITLES CONFERRED OR RECOGNIZED BY GOVERNMENT.

No.	Full name with titles and decorations.	Official mode of address.	Residence.	Year in which the title was granted.	REMARKS.
		Khan Sahib (Personal).			
7	Maulvi Abdul Rauf ...	Khan Sahib Maulvi Abdul Rauf.	Brahmanbaria, Tippera	1913	
8	Munshi Ismat Ali ...	Khan Sahib Munshi Ismat Ali.	Alipore	1913	Press Overseer, Jail Press, Alipore.
9	Maulvi Ghulam Rabbani.	Khan Sahib Maulvi Ghulam Rabbani.	Calcutta (Intelligence Branch).	1913	Dy. Supdt. of Police.
10	Quazi Zahirul Huq ...	Khan Sahib Quazi Zahirul Huq	Greda, p.-s Kotwali, Faridpur.	1914	Head Master, Anglo-Persian Dept., Dacca Madrassa.
11	Maulvi Abdur Rahim	Khan Sahib Maulvi Abdur Rahim.	No. 25, Agha Muhammad Mehdi Street, Wellesley, Calcutta.	1914	Inspector of Police, Calcutta.
12	Khadim Husain Khondkar.	Khan Sahib Khadim Husain Khondkar.	Faridpur	1914	Secretary, Muksudpur Urban Co-operative Bank, Ld., Faridpur.
13	Maulvi Kadir Baksh ...	Khan Sahib Maulvi Kadir Baksh.	Malda	1915	Vice-Chairman, District Board, Malda.
14	Maulvi Abdul Aziz Khan.	Khan Sahib Maulvi Abdul Aziz Khan.	Ditto	1915	Late Chairman, English Bazar Municipality, Malda.
15	Maulvi Saiyid Abdul Latiff.	Khan Sahib Maulvi Saiyid Abdal Latiff.	Bakarganj, Bengal ...	1915	Subdivisional Officer, Patuakhali, Bengal.
16	Maulvi Muhammad Abdul Majid.	Khan Sahib Maulvi Muhammad Abdul Majid.	Gaibandha, Rangpur ...	1916	Hony. Magte. and Member, Rangpur Dt. Board.
17	Maulvi Abdul Aziz ...	Khan Sahib Maulvi Abdul Aziz.	Assistant Inspector of Schools, Chittagong.	1916	
18	Maulvi Abdul Khair Kabiruddin Ahmad.	Khan Sahib Maulvi Abdul Khair Kabiruddin Ahmad.	Deputy Collector ...	1916	
19	Maulvi Qamar-ud-din Ahmad.	Khan Sahib Maulvi Qamar-ud-din Ahmad.	Ditto ...	1916	Colonization Officer, Bakarganj.
20	Maulvi Aman Ali ...	Khan Sahib Aman Ali	Chittagong ...	1916	Pleader.
21	Maulvi Abid Ali Khan	Khan Sahib Maulvi Abid Ali Khan.	English Bazar, Malda	1917	Sub-Overseer, Public Works Department, Malda.
22	Maulvi Shahamat-ulla	Khan Sahib Maulvi Shahamat-ulla.	Kurseong, Darjeeling ...	1917	Municipal Commissioner, Kurseong.
23	Sultan Muhammad Mean Sahib.	Khan Sahib Sultan Muhammad Mean Sahib.	Calcutta	1917	Superintendent, Military Supply Accounts, Calcutta.

PART III—LIST OF RECIPIENTS IN BENGAL OF KAISER-I-HIND MEDALS FOR PUBLIC SERVICE IN INDIA.

No.	NAME.	Official designation.	Residence.	Year in which the medal was awarded.
		First Class (Gold Medal).		
1	Lt.-Col. Alain Chartier del. Joly de Lotbinière, R.E., C.S.I., C.I.E.	Secy., Govt. of Bengal (Irrigation and Marine Departments), and Chief Engineer. (Reverted to Military duty temporarily.)	.....	1903
2	The Rev. J. A. Graham, M.A., L.D., C.I.E.	.....	Kalimpong, Darjeeling	1903
3	Harendra Lal Ray	.....	53A, Sovabazar Street, Calcutta.	1905
4	Benjamin Russel Barber	General Secretary, Y. M. C. A., Calcutta.	Calcutta	1909
5	Rai Bahadur Sir Kailas Chandra Basu, Kt., C.I.E.	.....	1, Sukea's Street, Calcutta.	1909
6	Miss Cornelia Sorabji	Lady Asst., Court of Wards ...	Army and Navy Chambers, Chowringhee, Calcutta.	1909
7	George Morgan	.....	10, Wood Street, Calcutta.	1910
8	Raja Sharat Chandra Ray Chaudhuri	.....	Chanchal, Malda ...	1910
9	Mrs. Alice Comley	Hony. Secy., St. Mary's Home, Calcutta.	In England	1910
10	D'arcy Lindsay	Jt. Hony. Secretary, Calcutta Club	Calcutta	1910
11	Rai Hari Mohan Chandra Bahadur	Secy., Lowis Jubilee Sanitarium, Darjeeling, and Hony. Magte., Darjeeling.	Darjeeling and Jalpaiguri.	1912
12	Raja Rao Jogendra Narayan Ray Bahadur.	.....	Lalgola, Murshidabad ...	1913
13	Raja Ban Bihari Kapur Bahadur, C.S.I.	.....	Burdwan	1914
14	Rev. Mother Gonzaga	Provincial of the Order of Loreto Sisters, Calcutta.	Calcutta	1914
15	Dr. Charles Albert Bently, M.B., D.P.H.	Sanitary Commissioner, Bengal ...	Ditto	1915
16	Edward Clark Carter	Genl. Secy., Y. M. C. A. National Council, India and Ceylon.	9, Russell Street, Calcutta.	1915
17	Fredrick Reginald Vandyke ...	Manager, Litho Office, Survey Department.	Calcutta	1916
18	Mrs Kate Graham	Wife of the Rev. Dr. J. A. Graham, C.I.E., of St. Andrew's Colonial Homes.	Kalimpong, Bengal ...	1916
19	C. Tindall	Secy. to the Govt. of Bengal, Legislative Deptt.	.....	1917

PART III—LIST OF RECIPIENTS IN BENGAL OF KAISER-I-HIND MEDALS FOR PUBLIC SERVICE IN INDIA.

No.	NAME.	Official designation.	Residence.	Year in which the medal was awarded.
	Second Class (Silver Medal).			
1	Narapat Singh	.....	Ganpatganj, Bhagalpur; also 162, Lower Circular Road, Calcutta; also Azimganj, Murshidabad.	1900
2	The Hon'ble Mr. N. D. Beatson Bell, C.S.I., C.I.E., I.C.S.	Member, Executive Council, Bengal	4, Elysium Row, Calcutta.	1900
3	The Hon'ble Mr. John Lang, I.C.S. ...	Magte. and Collr. (On leave).	Calcutta	1901
4	John Ross Blackwood, I.C.S. ...	Director of Agriculture	(On leave)	1901
5	Miss Ellen Dawe	.....	Ratnapur, Nadia ...	1909
6	Professor Jamini Nath Banarji ...	Principal and Supdt., Deaf and Dumb School, Calcutta.	Calcutta	1910
7	Sister Jane Frances*	Sister Superior, Lady Canning Home, Calcutta.	Ditto	1910
8	Ananda Mohan Biswas	Founder-Manager of "The Refuge"	125, Bow Bazar Street ...	1910
9	Mrs. Shashi Mukhi Nag	Sub-Asst. Surgeon	Dacca	1911
10	Lal Behari Shah	Founder, Principal and Secretary, Industrial Home and School for Blind Children.	Entally, Calcutta ...	1911
11	Dr. Charles Banks, M.D., C.M., D.P.H.	Supdt. of Emigration and Protector of Emigrants. (On leave).	1, Victoria Terrace, Calcutta.	1911
12	Miss Rose Margaret Phailbus ...	Krishnagar Medical Mission ...	Krishnagar, Nadia ...	1911
13	Miss Eleanor Lousia Moore ...	Member of the Baptist Zenana Mission.	Dacca	1911
14	Parbati Shankar Rai Chaudhuri ...	Zemindar, Jaiganj, Dinajpur ...	Jaiganj	1912
15	Barada Sundar Pal	Manager, Nawab Saiyid Hossam Haidar Chandhuri's estates in Tippera.	Comilla	1912
16	Mrs. Lilian Dorothea Stewart ...	Formerly of Gadi Silk Factory, Murshidabad.	Gorakpur Tea Estate, Dehra Dun.	1912
17	Miss Alice Raikes	Missionary, Hooghly	Hooghly	1912
18	Miss Josephine Annie Evans ...	Zenana Mission	Baranagore (Calcutta)	1912
19	Rai Jadu Nath Mazumdar Bahadur	Government Pleader, Jessore ...	Jessore	1913

*Also recipient of a bar to the Kaiser-i Hind (silver) Medal.

PART III—LIST OF RECIPIENTS IN BENGAL OF KAISER-I-HIND MEDALS FOR PUBLIC SERVICE IN INDIA.

No.	NAME.	Official designation.	Residence.	Year in which the medal was awarded.
		Second Class (Silver Medal).		
20	Saiyid Abul Fattah, M.R.A.S. ...	Hony. Magistrate, Sadar Bench, Rangpur.	Rangpur	1913
21	Lt.-Col. Charles Thomas Peters ...	Indian Medical Service (retired) ...	Dinajpur	1913
22	Donald Horne Wares	Offg. Magte. and Collr., Bakarganj	Bakarganj	1914
23	Dr. Charles Henry Standish Hope ...	Medical Missionary	Kalimpong, Darjeeling	1914
24	Shashi Bhushan Mallik	Superintendent, Dacca Rescue Home	Dacca	1914
25	Jogendra Nath Mukharji	Inspr. of Police, Diamond Harbour	24-Parganas	1914
26	Miss Lilian Winifred Brock, B.A. ..	Inspectress of Schools, Presidency and Burdwan Divisions.	Calcutta	1914
27	Rev. Cecil Silas Mead, B.A., M.B., CH.B.	Medical Missionary, Orakandi, Gopalganj, p.-s., Faridpur.	Faridpur	1914
28	Sub-Asstt. Surgeon Amrita Lal Chanda.	Sub. Asst. Surgeon, Police Hospital	Bankura	1914
29	Akhay Kumar Maitra	Director of Varendra Research Society, Rajshahi, Bengal.	Rajshahi	1915
30	Mrs. Catherine Stuart Richardson ...	Wife of the Hon'ble Mr. Justice T. W. Richardson, High Court, Calcutta.	21, Belvedere Road, Calcutta.	1915
31	Dilshad Begum	Wife of Jafar Kadr Saiyid Muhammad Fateh Ali Mirza.	Murshidabad (at present at Bombay).	1915
32	Mrs. Adela Cottle	Superintendent, Calcutta Nursing Division, St. John's Ambulance Brigade.	Calcutta	1915
33	Purna Chandra Chaudhuri	Pleader, Judge's Court, Pabna, Bengal.	Pabna	1915
34	Miss Emily Constance Swiss ...	Lady Superintendent of Nursing, Medical College Hospital	Calcutta	1916
35	Henry Francis Hill	Senior Jailor, Presidency Jail ...	Ditto	1916
36	Muhammad Ibrahim	Muktear, Bogra	Bogra	1916
37	Dudley Lewis Vaughan-Stevens, I.C.S.	On Military duty	.....	1916
38	Ram Kinkar Rai	Zemindar of Harischandrapur ...	Malda	1916
39	Mrs. Constance Bray	Wife of the Hon'ble Mr. E. H. Bray, Partner of Messrs. Gillanders, Arbuthnot & Co.	Calcutta	1917
40	Mrs. Ada Wyness	Wife of Mr. J. Wyness, Editor, "Indian and Eastern Engineering."	Ditto	1917
41	Mrs. Ethel Aldersey Duval	Wife of the Hon'ble Mr. H. P. Duval	.....	1917

PART IV.—NAMES OF RECIPIENTS IN BENGAL OF THE ROYAL VICTORIAN MEDAL.

No.	NAME.	Official designation.	Residence.	Year in which the medal was awarded.
	Royal Victorian Medal.			
1	H. G. Haultain	.....	30, McLeod Street, Calcutta.	1906
2	Rai Srikrishna Mahapatra Bahadur	Deputy Superintendent of Police, Bihar and Orissa.	10-I, St. James's Square, Calcutta.	1912

PART IV.—NAMES OF RECIPIENTS IN BENGAL OF THE PRINCE OF WALES'S MEDAL AND OF THE ROYAL VICTORIAN MEDAL.

	Royal Victorian Medal.			
3	Samuel Charles James Aldridge ...	Superintendent of Police, Calcutta (on leave).	Calcutta	1912
4	Alexander Robert Farrow ...	Inspector of Police, Calcutta ...	Ditto	1912
5	Robert Edwards (Subadar-Major) ...	Ditto ditto ...	Ditto	1912
6	John Creffield	Ditto ditto ...	Ditto	1912
7	William Harold Sharpe ...	Sergeant, Calcutta Police ...	Transferred to Delhi Police.	1912
8	Augustus Ignatius DeSouza ...	Assistant, Commissioner of Police's Office, Calcutta.	Calcutta	1912
9	Ashwini Kumar Guha (*a*) ...	Late Inspector of Police, Bengal, C. I. D.	Munshiganj, Dacca ...	1912

PART V.— CIVIL DIVISION OF THE INDIAN ORDER OF MERIT.

	(Third Class).			
1	The Hon'ble Sir Bijay Chand Mahtab, K.C.S.I., K.C.I.E., I.O.M., Maharajadhiraja Bahadur of Burdwan.	.....	Burdwan; also Alipore, Calcutta, and "Rose Bank," Darjeeling.	1909

(*a*) Recipient of King's Police Medal.

PART VI.— NAMES OF RECIPIENTS IN BENGAL OF "KING'S POLICE MEDAL."

No.	NAME.	Official designation.	Residence.	Year in which the medal was awarded.
1	Rai Sahib Raj Mohan Das ...	Deputy Superintendent of Police ...	Alipore, 24-Parganas ...	1909
2	G. C. Denham, C.I.E.	Superintendent, Bengal Police ...	On deputation under the Govt of India.	1910
3	Sardar Bahadur Bhimdal Diwan Lazarus Rai.	Late a Deputy Superintendent, Bengal Police.	Darjeeling	1910
4	Ambika Charan Sen Gupta ...	Sub-Inspector, Bengal Police ...	Shyamnagar, Khulna ...	1910
5	Mr. F. C. Daly, C.I.E.	D. I.-G. of Police, Bengal ...	Calcutta	1911
6	Mr. Charles Augustus Tegart, C.I.E., M.V.O.	Dy. Commr. of Police, Calcutta ...	Ditto	1911
7	Rai Bahadur Purna Chandra Lahiri	Asstt. Commr. of Police, Calcutta	On special duty ...	1911
8	Rai Man Mohan Chakrabarti Bdr.	Late Deputy Superintendent of Police.	Dacca or Bharanga dist. Pabna.	1911
9	Sardar Bahadur Belbong Ram ...	Retired Inspector of Armed Police, Jalpaiguri.	Jalpaiguri	1911
10	Bhawani Nath Nandi	Deputy Superintendent of Police, Bengal.	Patuakhali, Bakarganj	1911
11	Rai Sahib Kumud Mohan Das Gupta	Deputy Superintendent of Police, Intelligence Branch.	Calcutta	1911
12	Sushil Chandra Ghosh	Inspector of Police, Bengal ...	Deputed to C. I. D., Simla.	1911
13	Aswini Kumar Guha (*a*) ...	Late Inspector of Police, Bengal (C. I. D.)	Village Shamshiddye, Munshiganj, Dacca.	1911
14	Chena Ram	Dacca Military Police Battalion ...	.....	1911
15	Shew Shukul Upadhya	Ditto ditto ...	.....	1911
16	Khan Bahadur Maulvi Nadir Hossein	Late Dy. Supdt. of Police, B. and O.	Kasba Mazail, p. o. Shaurail *viâ* Pangsa, E. B. Railway.	1912
17	Robert Henry Sneyd Hutchinson ...	D. I.-G. of Police	Burdwan Range ...	1913
18	Sonam Wangfel Laden La	Deputy Superintendent of Police, Darjeeling.	Darjeeling	1913
19	Surajballi Goala	Head Constable, Calcutta Police ...	Calcutta	1913
20	Saiyid Hussain	Head Constable, Bengal Police ...	Krishnagar, district Nadia.	1913

(*a*) Also recipient of Royal Victorian Medal.

PART VI.—NAMES OF RECIPIENTS IN BENGAL OF "KING'S POLICE MEDAL."

No.	NAME.	Official designation.	Residence.	Year in which the medal was awarded.
21	Adolf Friederich	Assistant Engineer, Calcutta Fire Brigade.	Calcutta	1913
22	James Little	Fireman, Calcutta Fire Brigade ...	Ditto	1913
23	Ralph Buller Hughes-Buller, C.I.E.	Magte. and Collector (on leave) ...	.....	1914
24	Goanbir Rai	Constable, Bengal Police	Darjeeling	1914
25	Captain Edmund Denman Dallas-Smith, I.A.	Assistant Commandant, Dacca Military Police Battalion.	Dacca	1914
26	Mohin Chandra	Lance-Naik, Dacca Military Police Battalion.	Do.	1914
27	Dhanjoy Ram	Sepoy, Dacca Military Police Battalion.	Do.	1914
28	Dhaga Ram	Havaldar, Dacca Military Police Battalion.	Do.	1914
29	Cecil Ward Chichele Plowden, C.I.E.	Inspector-General of Police, Bengal	.....	1915
30	Elahi Bux	Late Inspector of Police, Constables' Training School, Rajshahi.	Rajshahi	1915
31	Thomas Boyles	Inspector of Police, second grade ...	Calcutta (Taltolla Thana).	1915
32	Rai Sahib Jogesh Chandra Bhaumik	Deputy Superintendent of Police ...	Midnapore	1915
33	William Thomas Moore	Deputy Inspector-General of Police	Bengal	1916
34	Trevor Claude Simpson	Superintendent of Police, Bengal ...	Do.	1916
35	Lionel Hewitt Colson	Ditto ditto ...	11, Camac Street ...	1916
36	Keramat Husain	Head Constable, Bengal	Dinajpur	1916
37	Satis Chandra Banerji	Inspector of Police, Bengal ...	.....	1917
38	Satis Chandra Mazumdar	Ditto ditto ...	.....	1917
39	Bhupendra Nath Chatarji	Offg. Ditto ditto ...	.....	1917
40	Kinsey Beaumont Welford Thomas	Deputy Inspector-General of Police, Bengal.	Dacca Range, Dacca ...	1917
41	Reginald Clarke	Commissioner of Police	Calcutta	1917
42	Bernard Anson Westbrook	Chief Officer, Calcutta Fire Brigade	Ditto	1917
43	Muhammad Khurshed	Deputy Superintendent of Police ...	Khulna	1917
44	Jadu Ram	Police Constable	.....	1917
45	Rajendra Kishor Sen	Sub-Inspector of Police, Bengal ...	.....	1917
46	Hafizuddin Shaikh	Police Constable	.....	1917

PART VII.—NAMES OF PERSONS IN BENGAL ENJOYING COURTESY TITLES AS SONS OF HEREDITARY TITLE-HOLDERS OR UNDER SPECIAL ORDERS.

No.	Full name with father's name.	Official mode of address.	Residence.	REMARKS.
		Maharaj Kumars.		
1	Uday Chand Mahtab (son of the Hon'ble Sir Bejay Chand Mahtab, K.C.S.I., K.C.I.E., I.O.M., Maharajadhiraja Bahadur of Burdwan).	Maharaj Kumar Uday Chand Mahtab.	Burdwan.	
2	Probirendra Mohan Tagore (son of Maharaja Sir Prodyot Kumar Tagore Bahadur, KT.).	Maharaj Kumar Probirendra Mohan Tagore.	Tagore Castle, Calcutta.	
3	Jagadish Nath Ray (son of Maharaja Sir Girija Nath Ray Bahadur, K.C.I.E.).	Maharaj Kumar Jagadish Nath Ray.	Dinajpur.	
4	Jogindra Nath Ray (son of Maharaja Jagadindra Nath Ray).	Maharaj Kumar Jogindra Nath Ray	Nator, Rajshahi.	
5	Shris Chandra Nandi (son of the Hon'ble Maharaja Sir Manindra Chandra Nandi, K.C.I.E.).	Maharaj Kumar Shris Chandra Nandi.	Kashimbazar, Murshidabad.	
6	Bhupendra Narayan Sinha (son of Maharaja Ranajit Sinha).	Maharaj Kumar Bhupendra Narayan Sinha.	Nashipur, Murshidabad.	
		Kumars.		
1	Abhay Chand Mahtab (2nd son of the Hon'ble Sir Bijay Chand Mahtab, K.C.S.I., K.C.I.E., I.O.M., Maharajadhiraja Bahadur of Burdwan).	Kumar Abhay Chand Mahtab ...	Burdwan	
2	Nirode Chandra Singh (son of the late Maharaja Raj Krishna Singh).	Kumar Nirode Chandra Singh ..	Susang, Mymensingh.	
3	Nagendra Chandra Singh (son of the late Maharaja Raj Krishna Singh).	Kumar Nagendra Chandra Singh ...	Ditto.	
4	Dwijendra Chandra Singh (son of the late Maharaja Raj Krishna Singh).	Kumar Dwijendra Chandra Singh	Ditto.	
5	Nripendra Narayan Sinha (son of Maharaja Ranajit Sinha).	Kumar Nripendra Narayan Sinh ...	Nashipur, also 10, Hungerford Street, Calcutta.	
6	Rajendra Narayan Sinha (son of Maharaja Ranajit Sinha).	Kumar Rajendra Narayan Sinha ...	Ditto.	
7	Birendra Narayan Sinha (son of Maharaja Ranajit Sinha).	Kumar Birendra Narayan Sinha ...	Ditto.	
8	Girindra Narayan Deb (son of the late Raja Rajendra Narayan Deb Bahadur).	Kumar Girindra Narayan Deb ...	Sovabazar, Calcutta.	
9	Satya Nidhi Ghosal (son of the late Raja Satyananda Ghosal Bahadur).	Kumar Satya Nidhi Ghosal ...	Bhookailash. 24-Parganas.	
10	Satya Sebak Ghosal (son of the late Raja Satyananda Ghosal Bahadur).	Kumar Satya Sebak Ghosal ...	Ditto.	
11	Satya Mohan Ghosal (son of the late Raja Satyananda Ghosal Bahadur).	Kumar Satya Mohan Ghosal ..	Ditto.	

PART VII.—NAMES OF PERSONS IN BENGAL ENJOYING COURTESY TITLES AS SONS OF HEREDITARY TITLE-HOLDERS OR UNDER SPECIAL ORDERS.

No.	Full name with father's name.	Official mode of address.	Residence.	REMARKS.
		Kumars.		
12	Ghanada Nath Ray Chaudhuri (son of the late Raja Hara Nath Ray Chaudhuri Bahadur).	Kumar Ghanada Nath Ray Chaudhuri.	Dubalhati, Rajshahi.	
13	Pramatha Nath Malia (son of the late Raja Bisweswar Malia Bahadur).	Kumar Pramatha Nath Malia ...	Searsole, Burdwan.	
14	Saradinda Narayan Ray (son of the late Raja Krishnendra Nath Ray Bahadur)	Kumar Saradindu Narayan Ray ...	Bolihar, Rajshahi.	
15	The Hon'ble Shib Shekhareswar Ray (son of Raja Shashi Shekhareswar Ray Bahadur).	The Hon'ble Kumar Shib Shekhareswar Ray.	Tahirpur, Rajshahi.	
16	Praphulla Krishna Deb (son of the late Raja Binaya Krishna Deb Bahadur).	Kumar Praphulla Krishna Deb ...	Sovabazar, Calcutta.	
17	Pannaga Bhusan Deb Ray (son of Raja Pramatha Bhusan Deb Ray Bahadur).	Kumar Pannaga Bhusan Deb Ray	Naldanga, Jessore.	
18	Ramani Mohan Ray (son of the late Raja Harish Chandra Ray).	Kumar Ramani Mohan Ray ...	Chittagong Hill Tracts.	
19	Upendra Chandra Chaudhuri (son of the late Raja Harish Chandra Chaudhuri).	Kumar Upendra Chandra Chaudhuri.	Golakpur, Mymensingh.	
20	Shyama Kumar Tagore (son of the late Raja Sir Sourindra Mohan Tagore, KT., C.I.E.).	Kumar Shyama Kumar Tagore ...	65, Pathuriaghata Street, Calcutta.	
21	Ramendra Lala Mitter (son of the late Raja Rajendra Lala Mitter, C.I.E).	Kumar Ramendra Lala Mitter ...	118, Raja Rajendra Lala Mitra's Street, Beliaghata, Calcutta.	
22	Wang Chuk Polden (son of the late Raja Tenduk Palgar).	Kumar Wang Chuk Polden ...	Darjeeling.	
23	Jamini Ballav Sen (son of the late Raja Janaki Ballav Sen).	Kumar Jamini Ballav Sen ...	Dimla, Rangpur.	
24	Pramatha Nath Ray (son of Raja Srinath Ray).	Kumar Pramatha Nath Ray ...	Bhagyakul, Dacca.	
25	Prativa Nath Ray (son of Raja Pramada Nath Ray).	Kumar Prativa Nath Ray ...	Dighapatia, Rajshahi.	
26	Rajendra Narayan Ray (son of the late Raja Dinendra Narayan Ray).	Kumar Rajendra Narayan Ray ...	79, Upper Chitpur Road.	

PART VII.—NAMES OF PERSONS IN BENGAL ENJOYING COURTESY TITLE AS SONS OF HEREDITARY TITLE-HOLDERS OR UNDER SPECIAL ORDERS.

No.	Full name with father's name.	Official mode of address.	Residence.	REMARKS.
		Murshidzada.		
1	Asif Jah Saiyid Wares Ali Mirza (son of the Hon'ble the Nawab Bahadur of Murshidabad).	Murshidzada Asif Jah Saiyid Wares Ali Mirza.	Murshidabad.	
		Sahibzadas.		
1	Asman Qadr Asad Ali Mirza (son of the last Nawab Nazim of Bengal).	Sahibzada Asman Qadr Asad Ali Mirza.	Murshidabad.	
2	Fulk Qadr Nasir Ali Mirza (son of the last Nawab Nazim of Bengal).	Sahibzada Fulk Qadr Nasir Ali Mirza.	Ditto.	
3	Nusrut Ali Mirza (son of the last Nawab Nazim of Bengal).	Sahibzada Nusrut Ali Mirza ...	Murshidabad. Now in England.	
4	Ali Mirza (son of the last Nawab Nazim of Bengal).	Sahibzada Ali Mirza	Ditto.	
5	Munsoor Qadr Soib Ali Mirza (son the last Nawab Nazim of Bengal).	Sahibzada Munsoor Qadr Soib Ali Mirza.	Ditto.	
6	Haroon Qadr Musa Ali Mirza (son of the last Nawab Nazim of Bengal).	Sahibzada Haroon Qadr Musa Ali Mirza.	Ditto.	
7	Ahmed Qadr Hamed Ali Mirza (son of the last Nawab Nazim of Bengal).	Sahibzada Ahmed Qadr Hamed Ali Mirza.	Ditto.	
8	Iskandar Qadr Nasir Ali Mirza (son of the late Nawab Bahadur of Murshidabad).	Sahibzada Iskandar Qadr Nasir Ali Mirza	Murshidabad.	
9	Asif Ali Mirza (son of the late Nawab Bahadur of Murshidabad).	Sahibzada Asif Ali Mirza	Ditto.	
10	Muhammad Jamshed Shah (son of the late Shahzada Muneem-uddin of the Mysore family).	Sahibzada Muhammad Jamshed Shah.	Russapagla, Calcutta.	
11	Muhammad Faradun Shah (son of the late Shahzada Bahram Shah of the Mysore family).	Sahibzada Muhammad Faradun Shah.	Tollygunge, Calcutta.	
12	Wali Muhammad Shah (son of the late Shahzada Bahram Shah of the Mysore family).	Sahibzada Wali Muhammad Shah	Bankipur ...	Dy. Magte (B. & O Govt.)
13	Fateh Muhammad Shah (son of the late Shahzada Bahram Shah of the Mysore family).	Sahibzada Fateh Muhammad Shah	Tollygunge, Calcutta.	
14	Muhammad Kazem Shah (son of the late Shahzada Bahram Shah of the Mysore family).	Sahibzada Muhammad Kazem Shah	Russapagla, Calcutta.	

PART VII.—NAMES OF PERSONS IN BENGAL ENJOYING COURTESY TITLES AS SONS OF HEREDITARY TITLE-HOLDERS OR UNDER SPECIAL ORDERS.

No.	Full name with father's name.	Official mode of address.	Residence.	REMARKS.
		Sahibzadas.		
15	Muhammad Ameeruddin, Khan Bahadur (son of the late Shahzada Bashiruddin of the Mysore family).	Sahibzada Muhammad Ameeruddin, Khan Bahadur.	Hooghly.	
16	Ahmad Shah (son of the late Shahzada Feroze Shah of the Mysore family).	Sahibzada Ahmad Shah	Russapagla, Tollygunge, Calcutta.	
17	Ghulam Muhammad (son of the late Shahzada Farrokh Shah of the Mysore family).	Sahibzada Ghulam Muhammad ...	Ditto.	
18	Ahmad Halim-uz-Zaman (son of the late Shahzada Farrokh Shah of the Mysore family).	Sahibzada Ahmad Halim-uz-Zaman	Tollygunge, Calcutta.	
19	Soleman Shekoh (son of the late Shahzada Farrokh Shah of the Mysore family)	Sahibzada Soleman Shekoh ...	Ditto.	
20	Muhammad Sultan Alum (great grandson of Karim Shah, brother of Tippoo Sultan).	Sahibzada Muhammad Sultan Alum.	Ditto.	
21	Ahmad Hussain Khan (son-in-law of the late Shahzada Unwar Shah of the Mysore family).	Sahibzada Ahmad Hussain Khan	33, Russa Road South, Calcutta.	
		Nawabzadas.		
1	Khwaja Atikullah (son of the late Nawab Sir Khwaja Ahsanullah Bahadur, K.C.I.E., of Dacca).	Nawabzada Khwaja Atikullah ...	Dacca.	
2	Khwaja Alimullah (son of the late Nawab Sir Khwaja Salimullah Bahadur, G.C.I.E., K.C.S.I., of Dacca).	Nawabzada Khwaja Alimullah ...	Do.	
3	Khwaja Hafizullah (son of the late Nawab Sir Khwaja Salimullah Bahadur, G.C.I.E., K.C.S.I., of Dacca).	Nawabzada Khwaja Hafizullah ...	Do.	
4	Khwaja Nasarullah (son of the late Nawab Sir Khwaja Salimullah Bahadur, G.C.I.E., K.C.S.I., of Dacca).	Nawabzada Khwaja Nasarullah ...	Do.	
5	Khwaja Ahsanullah (son of Nawab Sir Khwaja Salimullah Bahadur, G.C.I.E., K.C.S.I., of Dacca).	Nawabzada Khwaja Ahsanullah ...	Do.	

PART VII.—NAMES OF PERSONS IN BENGAL ENJOYING COURTESY TITLES AS SONS OF HEREDITARY TITLE-HOLDERS OR UNDER SPECIAL ORDERS.

No.	Full name with father's name.	Official mode of address.	Residence.	Remarks.
		Nawabzadas.		
6	Saiyid Husain Ali Nadir Jung (son of the late Nawab Ashgar Ali Bahadur, C.S.I.)	Nawabzada Saiyid Husain Ali Nadir Jung.	Calcutta.	
7	Saiyid Ikbal Husain (son of the late Nawab Saiyid Amir Husain Bahadur, C.I.E.)	Nawabzada Saiyid Ikbal Husain ...	Ditto.	
8	Abu Sharf Muhammad Latif-ur-Rahman, B.A. (Cantab), Barrister-at-Law (son of Nawab A. F. M. Abdur Rahman).	Nawabzada Abu Sharf Muhammad Latif-ur-Rahman, B.A. (Cantab), Barrister-at-Law.	16, Taltola Lane, Calcutta.	
9	Saiyid Ali Ashraf (son of the late Nawab Saiyid Muhammad Khan Bahadur, I.S.O.)	Nawabzada Saiyid Ali Ashraf ...	19, European Asylum Lane, Calcutta.	
10	Saiyid Ibrahim Mirza (son of Nawab Wala Qadr Saiyid Hussain Ali Mirza).	Nawabzada Saiyid Ibrahim Mirza	Murshidabad.	
11	Khwaja Muhammad Afzal (son of Nawab Khwaja Muhammad Yusuf, Khan Bahadur).	Nawabzada Khwaja Muhammad Afzal.	No. 1, Armenian Street, Dacca.	

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