

Government of Bengal

BOOK NO.
738

Report of the Honorary Committee for the Management of the Zoological Garden, Calcutta

1931-32

ZOOLOGICAL GARDENS
CALCUTTA

Calcutta
Bengal Government Press
1932

Report of the Honorary Committee for the Management of the Zoological Garden, Calcutta, for the year 1931-32.

The Committee have the honour to submit their report for the year ending 31st March 1932, supplemented, as in former years, among other items, by—

(1) the Superintendent's report upon the zoological collection;
(2) abstract of accounts of ordinary receipts and expenditure; and
(3) monthly returns of visitors and gate receipts and a list of donors and their donations.

The Committee consisted of—

President.

The Hon'ble Mr. Justice P. L. Buckland, Kt., F.Z.S.

Vice-President.

W. K. Dods, Esq.

Honorary Secretary and Treasurer.

E. H. Marshall, Esq. (from 1st April 1931 to 14th May 1931 and from 18th December 1931 to 31st March 1932).

K. J. Nicolson, Esq. (from 15th May 1931 to 17th December 1931).

Nominated members.

Nawab Sir Asif Qadr Saiyid Wasif Ali Mirza, Khan Bahadur, Mahabat Jang, Nawab Bahadur of Murshidabad, K.C.S.I., K.C.V.O.

Sir David Ezra, Kt., F.Z.S., M.B.O.U.

Surendra Nath Laha, Esq.

Lt.-Col. E. H. Brown, I.M.S. (retired), M.D., D.P.H., F.R.C.S.E., F.Z.S., F.L.S.

Dr. Satya Charan Laha, PH.D., F.Z.S.

Lt.-Col. Sir F. P. Connor, D.S.O., F.R.C.S., I.M.S.

Rai Ajit Nath Das Bahadur, F.Z.S., M.R.A.S.

Sir Hari Ram Goenka, Rai Bahadur, C.I.E.

K. C. De, Esq., C.I.E., I.C.S.

G. Morgan, Esq., C.I.E., F.R.H.S., F.Z.S., M.L.A.

Maharaj-Kumar Uday Chand Mahtab, B.A., of Burdwan.

The Hon'ble Mr. Justice T. Ameer Ali.

Dr. Rai U. N. Brahmachari Bahadur, M.A., M.D., PH.D.
Herbert Fooks, Esq.
Rai Bijay Krishna Basu Bahadur.
Major-General W. V. Coppinger, C.I.E., D.S.O., M.D., F.R.C.S., I.M.S.
S. C. Lyttelton, Esq.
Nawabzada A. S. M. Latifur Rahman, M.A. (Cantab.), BAR.-AT-LAW.
Lt.-Col. H. W. Acton, M.D., C.I.E., I.M.S.

Ex-officio members.

The Commissioners of Divisions in Bengal.
The Executive Engineer, Second Calcutta Division, Public Works Department.
The Director of Public Health 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 Director, Civil Veterinary Department, Bengal.
The Professor of Comparative Anatomy and Zoology, Medical College, Calcutta.
The Superintendent of the Royal Botanic Garden, Sibpur.
The Mayor of Calcutta.
The Principal of the Bengal Veterinary College, Calcutta.
The Conservator of Forests, Southern Circle, Calcutta.

Appointment.—The following new member was appointed during the year:—

Lt.-Col. H. W. Acton, M.D., C.I.E., I.M.S.

Lt.-Col. E. H. Brown, M.D., I.M.S. (retired), having left India with no intention of returning, his name was removed from the list of members.

Staff.—Mr. Somadev Ganguli, C.M.Z.S., who was appointed as Superintendent of the Garden on 1st April 1930, was confirmed in his appointment and Mr. N. Banerji, F.Z.S., was confirmed in the post of the First Assistant Superintendent of the Garden.

The following is a list of the superior staff of the Garden at the end of 1931-32.

Superintendent.—Mr. Somadev Ganguli, C.M.Z.S.

First Assistant Superintendent.—Mr. Nagendra Nath Banerji, G.B.V.C., F.Z.S.

Second Assistant Superintendent.—Khan Sahib S. M. Yaqub Khan.

Overseer.—Mr. Niranjan Mukherji, G.B.V.C., F.Z.S., F.L.S., F.R.H.S.

Storekeeper.—Babu Jugal Kishore Roy.

Clerk.—Babu Tarak Chandra Chatterji.

Gate Clerk.—Babu Bepin Behari Chatterji.

The menial staff of the Garden at the end of 1931-32 comprised, in addition to temporary men who were engaged as required—

1 Jamadar.	1 Carpenter.
8 Durwans.	2 Bhistis.
20 Keepers.	1 Cook.
14 Gardeners.	1 Head Gardener.
3 Sweepers.	2 Cartmen.
1 Night-watchman.	1 Syce.
2 Chaprasis.	1 Scytheman.

The Committee of Management have the honour to report that throughout the year the standard has been fully maintained both as regards the number of exhibits in the collection and their condition. The garden again sustained a heavy loss in the death from verminous colic and enteritis of the female Indian rhinoceros, of which the mate, as reported in the last annual report, died from the effects of arsenical poisoning.

The specimen lived in captivity for 29 years and the Garden would have had no specimen of this important animal had it not been for the kindness of Her Excellency the Countess of Willingdon, who presented a very fine young male to the Garden, for which most welcome gift the cordial thanks of the Committee of Management and of the public are due to Her Excellency.

The following structural improvements were undertaken during the year:—

(1) *Quarters for the First Assistant Superintendent.*—This matter had been under consideration for some time, but for want of funds execution of the project had to be deferred. During the year under report the Overseer's quarters at the Kidderpore gate, which were lying vacant, were, after thorough repairs, additions and alterations, converted into suitable quarters for the Assistant Superintendent.

(2) *Raising the boundary wall.*—The boundary wall of the Garden along the Orphangunge Road and also between the Garden and the Observatory was found to be too low on account of the raising of the Orphangunge Road and the paddock, and experience proved that access over the wall was too easily accomplished. Portions of the wall between the Kidderpore gate and the Superintendent's quarters and between the Garden and the Observatory have been raised as necessary.

(3) *Improvement in the rhinoceros enclosure.*—Extensive improvements were made in the rhinoceros enclosure. The grounds were considerably raised and a cement wall 7 feet high and a trench 314 feet long and 20 feet wide were constructed to prevent visitors from feeding these animals.

(4) The introduction of trench and wall in the paddocks in place of steel fencing having proved successful, it was extended by 294 feet. Advantage was taken to raise the adjoining low lands and to provide for proper drainage.

(5) The land lying in the western and eastern sides of the store godown, which was formerly insufficiently protected by fencing, has been enclosed by a brick wall 7 feet high.

(6) *Extension of the pheasant enclosure.*—To provide additional accommodation for the increasing number of pheasants, the existing pheasant enclosure was extended to the west by 36 feet.

(7) The terraced paths over the two bridges of the Garden required constant attention to keep them in order, and it was decided to dismantle them and substitute artificial stone flooring which should prove more permanent. This has been done.

Greater attention was paid to the general annual repairs to the buildings in the Garden, and repairs to iron and wood work were carried out as usual and painting to most of the houses was effected.

The grounds and gardens were maintained throughout the year in as good a condition as was possible. The grass lawns in front of the refreshment pavilion and the band stand were dug up, raked and rolled and *doob* grass planted.

The display of flowering annuals, specially the dahlias, was very successful and the Garden was awarded several prizes and certificates for exhibits at the flower shows held by the Agri-Horticultural Society of India.

The financial condition of the Garden, notwithstanding the fall in the entrance receipts owing to present economic depression, may be considered as satisfactory on the whole.

The following is a comparative statement of visitors and receipts for the last four year:—

Visitors.			Receipts.	
			Rs.	a.
1928-29—1,136,910	..	..	78,333	0
1929-30—1,109,901	..	..	75,609	3
1930-31—979,604	..	..	66,082	13
1931-32—928,501	..	..	62,141	6

A large number of children under four years of age and school children, attended by their teachers, were admitted free.

In addition, 48,542 persons visited the Garden on free days. A detailed statement of the number of visitors and receipts appears in Appendix B.

In consequence of the gradually diminishing gate receipts during the Fancy Fair days when the admission fee was one rupee per head, arrangements were made to keep the Garden, excluding the Fancy Fair, open to visitors who did not wish to visit the Fancy Fair, at the ordinary charge of one anna. The experiment proved successful and the turnstiles recorded 15,984 one-anna visitors while 6,071 people visited the Fancy Fair on 31st December 1931 and 1st January 1932.

The thanks of the Committee are due to those ladies and gentlemen who have added to the zoological collection, a list of which is given in Appendix C. Thanks are also due to those who kindly offered to present animals to the Garden, but whose offers could not be accepted either because the particular species was already sufficiently well represented or owing to want of accommodation.

The Committee also desire to express their thanks to the following Railway and Steamer Companies for kindly conveying the animals belonging to the Garden free of charge:—

East Indian Railway, British India Steam Navigation Co., Ltd., Peninsular and Oriental Steam Navigation Co., through Messrs. Mackinnon, Mackenzie and Co., and River Steam Navigation Co., Ltd., through Messrs. Macneill and Co., and Messrs. Hoare, Miller and Co., and Lionel Edwards, Ltd.

The Corporation of Calcutta sanctioned a grant of Rs. 26,233-6 to the Garden for the year under report, and the amount of the rate bills in respect of the Garden was adjusted against the sanctioned grant as the rate bills fell due. The Committee desire to take this opportunity of expressing their renewed thanks to the Corporation of Calcutta for their generous contribution to the funds of the Garden.

Thanks are also due to the Officer Commanding and Officers of the 1st Battalion, 5th Mahratta Light Infantry, stationed at Alipore, for permitting their regimental band to play at the Garden on Tuesday afternoons, free of charge, and to Lt.-Col. G. C. B. Buckland, Officer Commanding, 1st Battalion, 8th Gurkha Rifles, for his kindly allowing his band to play at the Garden free one day in the week from 18th December 1931 to 22nd January 1932.

The Committee are much indebted to those members of the public who send old and broken-down horses to the Zoological Garden, where they are disposed of under the most humane conditions.

P. L. BUCKLAND,
President.

E. H. MARSHALL,
Honorary Secretary.



Superintendent's Report.

I have the honour to submit my report on the condition and progress of the zoological collection.

The following comparative table shows the numbers of the various collections during the last four years:—

Year.	Mammals.	Birds.	Reptiles.
1928-29 ..	342	1,196	173
1929-30 ..	302	1,299	130
1930-31 ..	381	1,719	186
1931-32 ..	372	1,837	126

The health of the animals was satisfactory and the high standard of the collection has been maintained by the addition of many interesting animals, and all available space is filled to its utmost capacity.

The male Indian rhinoceros calf kindly presented to the Garden by Her Excellency the Countess of Willingdon has filled a serious gap in the collection. It was but for this most welcome gift the Garden would have had no rhinoceros at all, as the only other specimen exhibited in the Garden unfortunately expired about six weeks before its arrival.

Among other important gifts the following deserve mention:—

1 Tiger—Presented by Babu Bagabat Prosad Singh.

1 Tiger cub—Presented by the Khairagarh State.

1 Elephant—Presented by the Raja Bahadur of Dhenkanal.

1 Rusty-spotted Cat—Presented by C. D. Smith, Esq.

8 Ring-necked Pheasants—Presented by His Excellency the Governor of the United Provinces.

The collection of common Indian animals and birds was maintained in a high state of efficiency and constant supplies were presented by Mr. W. K. Dods, to whom the management of the Garden is much indebted.

The most important purchases during the year were the following:—

1 Woolly monkey.

2 White-winged wood-ducks.

3 Tiger cubs.

2 Spotted-billed Toucanets (new to the collection).

3 Black Leopards.

1 Kiang.

1 Golden Cat.

2 Pallas' Cats.

The following animals were received on exchange account during the year:—

From the Zoological Society of London—
2 Pigmy Hippopotamii.

From the Parks Department, Toronto—
2 Snow Geese.
1 Blue-winged Goose.

From the Adelaide Zoo—
2 Blue-bonnet Parrakeets.
4 Red-rumped Parrakeets.
4 Elegant Parrakeets.
2 Yellow-naped Parrakeets.
2 Black-tailed Parrakeets.
4 Barnard's Parrakeets.
6 Adelaide Parrakeets.
2 Stubble Quails.
2 Plumed Ground Doves.

From G. B. Chapman, Ltd.—
1 Chimpanzee.
1 Capybara.

From Raja of Talcher—
2 Baby Indian Elephants.

From Maharaja of Gidhaur—
1 Tiger.

The following is a list of animals and birds that were born in the Garden:—

3 Leopards.
1 Rufous Kangaroo.
2 Lion Marmosets.
3 Common Marmosets.
2 Barking Deer.
3 Indian Gazelles.
2 Barbary Sheep.
2 Indian Antelopes.
2 Fallow Deer.
4 Macaque Monkeys.
2 Dusky Langurs.
1 Mandrill.
3 Hanumans.
1 Brow-antlered Deer.
2 Spotted Deer.
2 Peacock Pheasants.
5 Geckos.
7 Scorpions.
4 Sambar Deer.
3 Nilgais.
1 Gayal.
2 Four-horned Antelopes.
1 Llama.
7 Mute Swans.
1 Spotted-billed Duck.
2 Sonnerat's Jungle Fowl.
2 Red Jungle Fowl.
1 White Java Sparrow.
1 Fischer Lovebird.
2 Yellow Budgerigars.
2 White-breasted Water Hens.
2 Black-headed Ibises.
1 Cattle Egret.
1 Purple Coot.
1 Spoonbill.

The following have bred in a wild state in the Garden.—

Indian Peafowl.	Cormorants.
Spotted Owlets.	Indian Darters.
White-breasted Water Hens.	Indian Coëls.
Night Herons.	Flying Foxes.

Ring-necked Parrot.

Eggs were laid but not hatched by the following birds:—

White Rhea.	Cockateel.
Monal Pheasant.	Pelican.
Canadian Goose.	Saras Crane.
Chakar Partridge.	Blue Budgerigar.
Argus Pheasant.	Indian Magpie Robin.

Grey-breasted Parrakeet.

The following were captured in the Garden:—

21 Flying Foxes.	1 Hanuman.

2 Indian Tree-Pies.

The following is a list of more important deaths:—

1 Wapiti Deer.	1 Greater Bird of Paradise.
1 Polar Bear.	1 Orang-outang.
1 Elephant.	1 Pigmy Hog.
1 Giraffe.	1 Malayan Tapir.
1 White Rhea.	1 Indian Rhinoceros.

1 Ostrich.

The following were sent to:—

Adelaide Zoo—

2 Changeable Hawk-Eagles.	2 Black-shouldered Kites.
2 Crested Serpent Eagles.	2 Monal Pheasants.

Dublin Zoo—

9 Flying Foxes.	2 Brahminy Kites.
2 Crested Serpent Eagles.	2 Crow Pheasants.
2 Changeable Hawk-Eagles.	2 Black-headed Ibises.
2 Black-shouldered Kites.	2 Bengal Porcupines.

Parks Department, Toronto—

2 Monal Pheasants.	2 Tragopan Pheasants.

2 Chakar Partridges.

Clifton Zoo—

2 Tiger Cubs.	1 Leopard.

Melbourne Zoo—

36 Rhesus Monkeys.

Wellington Zoo—

2 Rhesus Monkeys. 2 Spotted Deer.

Sydney Zoo—

2 Nilgais. 24 Rhesus Monkeys.

Mr. Basapa, Singapore—

2 Indian Antelopes. 2 Common Brown Vultures.

Mr. Alfred Ezra, London—

8 Monal Pheasants.

Raja of Talcher—

2 Gayals. 1 Brow-antlered Deer.
2 Barasingha Deer. 2 Hog Deer.

Maharaja of Gidhaur—

2 Indian Antelopes. 1 Indian Gazelle.
2 Hog Deer. 2 Saras Cranes.
1 Spotted Deer. 2 Burmese Peafowl.

London Zoo—Several shipments of valuable animals, birds, and reptiles consisting of 187 specimens were sent to London Zoo during the year.

A veterinary dispensary was maintained throughout the year and 247 cases consisting of 138 mammals, 107 birds and 2 reptiles were treated during the year under report.

The following ailments are particularly noticed among the collection from time to time during the year besides cases of a general nature:—

In April—Avian septicæmia amongst pheasants and ducks.

In May—Diarrhœa and dysentery amongst new Hoolocks.

In June—The effect of moist heat wave was remarkable amongst imported birds and animals.

From July 1931 to February 1932—Nothing remarkable except a case of sore feet (thrush) in an Indian elephant in September and October 1931.

March 1932—A case of rabies in a tiger cub, aged about 6 months, was detected in the Garden.

Thanks are due to the Principal, Bengal Veterinary College, Belgachia, for his kind help in several cases.

A post-mortem examination was made nearly of every important animal that died during the year and all carcasses have been as usual

sent to the Calcutta School of Tropical Medicine through the Director, Zoological Survey of India, Indian Museum, for scientific purposes.

A list of the more important cases subject to clinical diagnosis is given below—

Anæmia—1 Cow Elephant, 1 Spotted Deer.

Avian septicæmia—1 Swinhoe Pheasant, 1 Amherst Pheasant, 1 Barheaded Goose, 1 Pintailed Duck, 1 Monal Pheasant.

Broncho-pneumonia—1 Indian Marten, 1 Hoolock.

Cirrhosis of the liver—1 Hoolock.

Colitis—1 Dusky Langur.

Diarrhœa—8 Hoolocks.

Dysentery—1 Indian Ratel, 1 Negro Monkey, 1 Woolly Monkey.

Drowning—4 Hoolocks, 1 Ostrich.

Enteritis—1 White Rhea, 1 Giraffe, 1 Orang-outang, 1 Silver Pheasant.

Fatty degeneration of the heart—1 Black Lemur.

Gastro-enteritis—1 Leopard, 1 Polar Bear (parasitic), 1 Indian Rhino, 1 Tiger cub.

Gastric ulcer—1 Siamang.

Gastritis—1 Mandrill.

Helminthiasis—1 Yellow-collared Parrakeet, 1 Sloth Bear.

Heat stroke—2 Red-winged Parrakeets, 1 White-crested Laughing Thrush, 1 Cheer Pheasant, 1 Swainson's Lorikeet, 1 Vieillot's Fireback, 1 Barnard's Parrakeet, 1 Black-throated Thrush, 1 Black-headed Sibia, 1 Silver Pheasant, 1 Blue-winged Goose, 1 Wapiti Deer, 1 Snow Goose.

Injury—2 Button Quails, 2 Red Spur Fowl, 1 Blue-crowned hanging Parrakeet, 1 Brow-antlered Deer, 1 Common Teal, 1 Spotted Deer, 1 Barbary Sheep, 1 Red-masked Conure, 2 Javan Mouse Deer, 1 Common Marmoset, 1 Wild Ass, 1 Green Cardinal, 1 Saras Crane, 1 Green-breasted Ground Thrush, 1 Leopard cub, 1 Barking Deer, 1 Indian Gazelle, 1 Barasingha Deer, 1 Greater Bird of Paradise, 1 Himalayan Bear.

Killed by vermin—1 Bar-headed Goose, 1 Spreo Starling, 1 Lesser Sulphur-crested Cockatoo, 1 Pigmy Hog, 1 Bengal Green Pigeon, 1 Cotton Teal.

Metritis—1 Barasingha Deer, 1 Spotted Deer.

Mycosis—1 Burmese Peafowl, 1 Gadwall, 1 Pintailed Duck, 1 Monal Pheasant, 1 Tragopan Pheasant, 1 Gold Pheasant.

Pneumonia—1 Rhesus Monkey, 1 Himalayan Bear, 1 Sloth Bear, 1 Barasingha Deer, 1 Hoolock, 1 Ratel, 1 Leopard cub, 1 Negro Monkey, 1 Hanuman.

Pleuro-pneumonia—1 Malayan Bear, 1 Hog Deer, 1 Indian Gazelle, 1 Red Deer.

Pulmonary abscess—1 Malayan Tapir.

APPENDIX A.

I.—Comparative Statement of Receipts for 1930-31 and 1931-32.

	1930-31.	1931-32.
	Rs. a. p.	Rs. a. p.
Opening balance	9,873 9 4	9,034 6 8
Interest	545 14 6	545 14 6
Donations and subscriptions	156 0 0	105 0 0
Entrance receipts	66,082 13 0	62,141 6 0
Rent	7,700 0 0	7,900 0 0
Carriage, rickshaw, etc.	858 14 0	598 10 0
Picnics	152 0 0	163 0 0
Rhino urine	3,858 0 0	2,776 8 0
Miscellaneous receipts	14,062 15 10	13,734 2 9
Government contribution	20,000 0 0	20,000 0 0
Total ..	1,23,290 2 8	1,16,998 15 11
Add—		
Receipts of 31st March 1930 (1929-30) paid in on 1st April 1930 (1930-31) ..	181 2 0	....
Receipts of 31st March 1931 (1930-31) paid in on 1st April 1931 (1931-32) ..	....	136 7 0
Total ..	1,23,471 4 8	1,17,135 6 11
Deduct—		
Receipts of 31st March 1931 (1930-31) not paid in on 31st March 1931 but paid in on 1st April 1931 (1931-32) ..	136 7 0	....
Receipts of 31st March 1932 (1931-32) not paid in on 31st March 1932 but paid in the following year (1932-33) ..	....	101 8 0
Total ..	1,23,334 13 8	1,17,033 14 11

II.—Comparative Statement of Expenditure for 1930-31 and 1931-32.

	1930-31.	1931-32.
	Rs. a. p.	Rs. a. p.
Establishment	19,100 9 0	18,709 12 0
Food of animals	44,346 7 6	34,286 3 0
Purchase of animals	12,400 8 0	7,809 14 0
Transport of animals	6,355 7 3	5,710 14 9
Miscellaneous contingencies	10,654 12 9	9,318 9 8
Repairs of roads	2,545 6 6	1,411 14 0
Repairs of buildings	6,595 1 0	9,159 4 9
Garden construction	9,047 15 0	10,490 13 3
Original construction	3,254 4 0	13,345 2 6
Total ..	1,14,300 7 0	1,10,242 7 11
Closing balance ..	9,034 6 8	6,791 7 0
Grand Total ..	1,23,334 13 8	1,17,033 14 11

APPENDIX B.

Summary of visitors and gate receipts during the year 1931-32.

Month and year.	Number of visitors.	Receipts. Rs. a.
1931.		
April	65,868	4,431 7
May	60,677	4,131 14
June	59,017	3,958 9
July	67,919	4,541 0
August	56,446	3,917 7
September	74,467	4,875 10
October	111,364	7,160 12
November	67,933	4,762 11
December	105,804	7,077 11
1932.		
January	99,703	6,691 14
February	90,882	6,068 12
March	68,421	4,553 11
Total ..	928,501	62,141 6

Free days.

	Number of visitors.
1931.	
20th April	2,732
11th May	3,208
9th June	2,696
13th July	4,125
10th August	3,098
14th September	4,553
5th October	3,798
2nd November	5,846
7th December	4,146
1932.	
18th January	5,269
15th February	5,291
14th March	3,780
Total ..	48,542

APPENDIX C.

Her Excellency the Countess of Willingdon	1 Indian Rhinoceros.
His Excellency the Governor of the United Provinces	8 Ring-necked Pheasants.
Alcock, Mr. W. J.	1 Hair-crested Drongo, 1 Large-tailed Drongo.
Agarwalla, Mr. Nandaram	1 Rhesus Monkey.
Ammoo Shaik	1 Arabian Baboon.
Banerji, Mr. R. N.	1 Macaque Monkey.
Bedi, Mr. Ladha Singh	1 Marsh Crocodile.
Breese, Mr. A. T.	1 Pelican.
Collector, Comilla	1 Hoolock.
Chowdhury, Mr. J. N.	1 Sloth Bear cub.
Cearns, Mr.	1 Spotted Deer.
Collins, Mr. W. G.	1 Indian Antelope.
Dutta, Mr. Birendra Narayan ..	1 Spotted Deer.
Dodsworth, Mrs. I. D. A.	1 Sloth Bear.
Deb, Mr. N. N.	1 Indian Pangolin.
De, Mr. K. C., C.I.E., I.C.S.	1 Indian Antelope.
Dods, Mr. W. K. ..	.. 62 Cotton Teals, 57 Cattle Egrets, 5 Sandpipers, 1 Crimson-breasted Barbet, 3 Indian Rollers, 2 Kestrels, 15 Black-winged Kites, 10 Crested Serpent Eagles, 1 White-bellied Sea-Eagle, 9 Brahminy Kites, 2 Gold Plovers, 10 Pied Harriers, 9 Spotted Owlets, 1 Owl, 14 Pheasant-tailed Jacanas, 6 Shikras, 3 Changeable Hawk-Eagles, 2 Harrier Eagles, 4 Blue-checked Green Barbets, 4 White-breasted Water Hens, 8 Bronze-winged Jacanas, 1 Bonelli's Eagle, 3 White-tailed Sea-Eagles, 6 Lesser Whistling Teals, 8 Pale Harriers, 1 Brown-winged Kingfisher, 1 Owlet, 3 Common Coots, 7 Black-naped Orioles, 3 Marsh Terns, 11 White-eyed Buzzards, 2 Stork-billed Kingfishers, 5 Green Barbets, 1 Bengal Fox, 1 Jungle Cat, 2 Purple Coots, 2 Montague Harriers, 1 Lapwing, 49 Corn Crakes, 1 Lugger Falcon, 1 Booted Eagle, 28 Gargeny Teals, 17 Indian Water Rails, 2 Peregrine Falcons, 2 Cinnamon Bitterns, 1 Little Bittern, 4 Ruddy Crakes, 1 White-eyed Pochard, 4 Bengal Porcupines.
Duncan, Mrs.	1 Macaque Monkey, 1 Bonnet Monkey.
Elias, Miss R. B.	1 Bonnet Monkey.
Fleming, Mrs. H. N.	1 Saras Crane.
George, Mr. M.	1 Leopard, 1 Common Otter.
Ghosh, Mr. Lalmohan	1 *Lycodon aulicus*, 1 Cobra.

Harrison, Mr. A. M.	2 Leopard Cats.
Islam, Md. Nural	1 Python.
Jubraj Sahib Purnendu Narayan Singh Deo	1 Leopard cub.
Keith Smith, Mr. R. C.	2 Sloth Bear cubs.
Khudabux, Mr. Hussain Bux ..	5 Pythons.
Lyttelton, Mr. S. C.	13 Red Jungle Fowl.
Law, Dr. S. C.	1 Saras Crane.
Martin, Mr. J.	1 Marsh Crocodile.
McGregor, Mrs. A. D.	1 Chakar Partridge, 1 Nilgai.
Monnier, Miss G.	1 Rhesus Monkey.
Macrell, Mr. G.	1 Python.
Majumdar, Mr. Dwijendra Kumar ..	1 Spotted Tiger Civet.
Moonar, Mrs. D.	1 Blossom-headed Parrakeet.
Marks, Mr. R. M.	1 Leopard cub.
Murray, Mrs. H. L.	2 Himalayan Bear cubs.
Pal, Mr. N.	1 White-winged Wood-Duck.
Pinniger, Mr. A. W.	1 Himalayan Bear cub.
Raja of Gouripur	2 Leopard cubs, 2 Hog deer.
Raja and Ruling Chief of Dhenkanal ..	1 Elephant, 1 Leopard.
Raja Sahib of Palkoti	1 Leopard.
Robertson, Mr. J.	1 Leopard cub.
Raymond, Mr. R.	1 Bengal Fox.
Sarkar, Mr. L. M.	1 Indian Ratel.
Singh, Mr. Harihar Prasad	1 Leopard cub.
Singha, Babu Bhagawat Prosad ..	1 Tiger.
Sword, Mr. J. R.	1 Red and Blue Macaw.
Solomon, Mr. S.	1 Leopard.
Simpson, Mr. R. A.	1 Himalayan Bear cub.
Superintendent, Khairagar State ..	1 Tiger.
Smith, Mr. C. D.	1 Rusty-spotted Cat.
Sen, Kaviraj Satya Brata	1 Leopard cub.
Webb, Mr. H. F.	1 Bonnet Monkey.

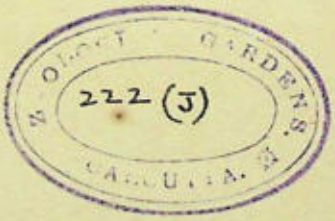
B. G. Press—1932-33—3628D—200.



Government of Bengal

Report of the Honorary Committee for the Management of the Zoological Garden, Calcutta

1932-33



Calcutta
Bengal Government Press
1933

Report of the Honorary Committee for the Management of the Zoological Garden, Calcutta, for the year 1932-33.

The Committee have the honour to submit their report for the year ending 31st March 1933, supplemented, as in former years, among other items, by—

(1) the Superintendent's report upon the Zoological collection;
(2) abstract of accounts of ordinary receipts and expenditure; and
(3) monthly returns of visitors and gate receipts and a list of donors and their donations.

The Committee consisted of—

President.

The Hon'ble Mr. Justice P. L. Buckland, KT., F.Z.S.

Vice-President.

W. K. Dods, Esq.

Honorary Secretary and Treasurer.

E. H. Marshall, Esq.

Nominated Members.

Nawab Sir Asif Qadr Saiyid Wasif Ali Mirza, Khan Bahadur, Mahabat Jang, Nawab Bahadur of Murshidabad, K.C.S.I., K.C.V.O.
Sir David Ezra, KT., F.Z.S., M.B.O.U.
Surendra Nath Laha, Esq.
Dr. Satya Charan Laha, PH.D., F.Z.S.
Lieut.-Col. Sir F. P. Connor, D.S.O., F.R.C.S., I.M.S.
Rai Ajit Nath Das Bahadur, F.Z.S., M.R.A.S.
Sir Hari Ram Goenka, Rai Bahadur, C.I.E.
K. C. De, Esq., C.I.E., I.C.S.
G. Morgan, Esq., C.I.E., F.R.H.S., F.Z.S., M.L.A.
Maharaj-Kumar Uday Chand Mahtab, B.A., of Burdwan.
The Hon'ble Mr. Justice T. Ameer Ali, BAR.-AT-LAW.
Dr. Rai U. N. Brahmachari Bahadur, M.A., M.D., PH.D.
Herbert Fooks, Esq.
Rai Bijay Krishna Basu Bahadur.
Major-General W. V. Coppinger, C.I.E., D.S.O., M.D., F.R.C.S., I.M.S.

S. C. Lyttelton, Esq.

Nawabzada A. S. M. Latifur Rahman, M.A. (CANTAB.), BAR.-AT-LAW.

Lieut.-Col. H. W. Acton, M.D., C.I.E., I.M.S.

Saileswar Singh Roy, Esq., M.L.C.

Ex-officio Members.

The Commissioners of Divisions in Bengal.

The Executive Engineer, Second Calcutta Division, Public Works Department.

The Director of Public Health 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 Director, Civil Veterinary Department, Bengal.

The Professor of Comparative Anatomy and Zoology, Medical College, Calcutta.

The Superintendent of the Royal Botanic Garden, Sibpur.

The Mayor of Calcutta.

The Principal of the Bengal Veterinary College, Calcutta.

The Conservator of Forests, Southern Circle, Calcutta.

Appointment.—The following new member was appointed during the year:—

Saileswar Singh Roy, Esq., M.L.C.

Staff.—Rai Sahib Somadev Ganguli, C.M.Z.S., continued in charge of the Garden as Superintendent throughout the year.

The following is a list of the superior staff of the Garden at the end of 1932-33:—

Superintendent.—Rai Sahib Somadev Ganguli, C.M.Z.S.

First Assistant Superintendent.—Mr. Nagendra Nath Banerjee, G.B.V.C., F.Z.S.

Second Assistant Superintendent.—Khan Sahib S. M. Yaqub Khan.

Overseer.—Mr. N. Mukherjee, G.B.V.C., F.Z.S., F.L.S., F.R.H.S.

Store-keepr.—Babu Jugal Kishore Roy.

Clerk.—Babu Tarak Chandra Chatterji.

Gate clerk.—Babu Bepin Behari Chatterji.

The menial staff of the Garden at the end of 1932-33 comprised, in addition to temporary men who were engaged as required—

1 Jamadar.	1 Carpenter.
8 Durwans.	2 Bhistis.
20 Keepers.	1 Cook.
14 Gardeners.	1 Head Gardener.
3 Sweepers.	2 Cartmen.
1 Night watchman.	1 Syce.
2 Chaprasis.	1 Scytheman.

A female Indian Rhinoceros which His Excellency Lord Willingdon very kindly presented to the Garden as a mate for the male Rhinoceros which Her Excellency the Countess of Willingdon had previously presented was the principal exhibit acquired during the year, and the cordial thanks of the Committee are due to their Excellencies for their valuable and welcome gifts. A pair of Himalayan Bear cubs, also presented to the Gardens by Her Excellency the Countess of Willingdon, are growing rapidly and in a short time should develop into large and handsome animals. The Committee of Management have also to record their sincere thanks for the gift of a fine Himalayan Bear cub by His Excellency Sir John Anderson, Governor of Bengal.

The collection of animals has been well maintained throughout the year and the number of exhibits has greatly increased.

The following new works were undertaken duirng the year:—

(*a*) *Remodelling of the Small Carnivora House.*—The grilled cages in front of the Small Carnivora House and the adjoining verandah which have never been satisfactory, chiefly owing to difficulties of sanitation, were removed and it was decided to rebuild the entire series. The work was taken in hand at the end of the year and has been two-thirds completed and when finished the house will be greatly improved in every way.

(*b*) *Extension of the Pheasant Enclosure.*—The collection of pheasants having gradually increased, it was decided to construct another range of aviaries in continuation of the existing enclosure on its east side. The work was nearing completion at the end of the year.

(*c*) The roof of the Sarnomoyi House developed numerous leaks and required attention. The whole roof was treated with Hydrotite waterproofing fabric.

(*d*) The old wire-netting of the Schwendler House was found to require renewal. It was thoroughly overhauled and in place of ordinary wire-netting linked wire-netting was used. The iron work was repaired where necessary and the house repainted.

(*e*) *Raising the boundary wall.*—The boundary wall of the Garden on the south-western side between the Indian Station Hospital and the Garden was found to be too low and has been raised by two feet.

(*f*) The iron gratings under the bridge near the Sarnomoyi House having been found rotten have been renewed.

The Annual Repairs of the Garden were carried on as usual with the exception of the boundary wall. All large houses were cleaned, repaired and repainted, of which the following is a list:—

(1) *Dumraon House.*—The house was thoroughly repaired and sand-plastering done. The inside walls were lime-washed and outside walls colour-washed. The iron bars of some of the inner cages were renewed, and the beams and rafters were painted.

(2) *Gubbay House.*—The inner walls were lime-washed and outer walls were repaired and colour-washed.

(3) *Kangaroo Enclosure.*—The rooms were white-washed and the wire-netting of the outer fencing and the partitions were repaired.

(4) *Paddocks.*—Extensive repairs were done to the paddocks. The sheds were repaired as far as possible and lime-washed and wood and iron work painted and the iron fencing was coal-tarred.

(5) *Sarnomoyi House.*—Thorough repairs were done to this house. The sand-plastering and the wood work of the inner house had been considerably damaged by parrots and Roseate Cockatoos and were repaired. The iron work of the outer enclosure was thoroughly scraped and painted.

(6) *Reptile House.*—The inside walls were scraped carefully and white-washed. The ornamental railings round the basins and the pillars were painted and the glass cases varnished. The venetian red colour of the exterior of the building was considered unsuitable to the surrounding grounds. The walls were therefore covered with sand-plaster and the surface was painted white.

(7) *Burdwan House.*—The roof was overhauled and made watertight. The sand-plaster was scraped off where necessary and new sand-plaster substituted. The outer and inner dens were repaired and lime-washed and out-side walls colour-washed. The iron bars of the cages were painted.

(8) *Servants' Quarters.*—These needed repairs and were overhauled. The rooms were put in good repairs, cleaned and painted. The outside walls colour-washed.

The following buildings were repaired and repainted:—

Entrance Lodge and office, Refreshment Pavilion, Sonebursa Enclosure, Murshidabad House, Indian Refreshment Rooms.

The following houses were repaired and colourwashed:—

Ezra House.	Jheend House.
Rodent House.	Tapir Enclosure.
Bear House.	Store godown.

The usual work in the care and maintenance of lawns, trees and shrubs, walks and roads was carried on throughout the year. In addition to ordinary routine work new flowering shrubs were planted and old trees were replaced by others. There has been a marked improvement in the general cleanliness of the Garden. Many exhibits were displayed at the Agri-Horticultural Show and the Garden was awarded several prizes.

The finances of the Garden are satisfactory to the extent that expenditure is balanced by income. An increase in the receipts from visitors, which amounted to Rs. 62,231-6 as against Rs. 62,141-6 in the previous year, is satisfactory though negligible in amount. The balance in hand, viz., Rs. 4,095-3-1, is by no means an excessive margin against a diminution of receipts or extraordinary expenditure due to casualties in the collection or other unforeseen causes. The 20 per cent. cut in the annual Government grant which was made in the year under review has resulted in a curtailment of expenditure which in no circumstances exceeds the actual needs of the Garden and it is hoped that the grant will be restored in full in future.

The following is a comparative statement of visitors and receipts for the last four years:—

	Visitors.	Receipts. Rs.	as.
1929-30 ..	1,109,901	75,609	3
1930-31 ..	979,604	66,082	13
1931-32 ..	928,501	62,141	6
1932-33 ..	930,004	62,231	6

A large number of children under four years of age and school children, attended by their teachers, were admitted free.

In addition 48,001 persons visited the Garden on free days. A detailed statement of the number of visitors and receipts appears in Appendix B.

The Annual Fancy Fair was held as usual on the 31st December 1932 and 2nd January 1933 and the arrangement for admitting one-anna visitors into the grounds not reserved for the Fancy Fair proved a great success as the turnstiles recorded 19,559 one-anna visitors as against 15,984 visitors in the previous year.

The thanks of the Committee are due to those ladies and gentlemen who have added to the Zoological collection a list of whom is given in Appendix C. Thanks are also due to those who kindly offered to present animals to the Garden, but whose offers could not be accepted either because the particular species was already sufficiently well represented or owing to want of accommodation.

The Committee also desire to express their thanks to the following Railway and Steamer Companies for kindly conveying the animals belonging to the Garden free of charge:—

East Indian Railway, British India Steam Navigation Co., Ltd., Peninsular and Oriental Steam Navigation Co., through Messrs. Mackinnon Mackenzie & Co., and River Steam Navigation Co., Ltd., through Messrs. Macneill and Co., and Messrs. Hoare, Miller and Co.

The Corporation of Calcutta sanctioned a grant of Rs. 26,233-6 to the Garden for the year under report, and the amount of the rate bills in respect of the Garden was adjusted against the grant as the rate bills fell due. The Committee desire to take this opportunity of expressing their renewed thanks to the Corporation of Calcutta for their generous contribution to the funds of the Garden.

Thanks are also due to the Officer Commanding and Officers of the 1st Battalion, 5th Mahratta Light Infantry, stationed at Alipur, for permitting their regimental band to play at the Garden on Tuesday afternoons, free of charge.

The Committee are much indebted to those members of the public who send old and broken-down horses to the Zoological Garden, where they are disposed of under the most humane conditions.

P. L. BUCKLAND,
President.

E. H. MARSHALL,
Honorary Secretary.

SUPERINTENDENT'S REPORT.

I have the honour to submit my report on the condition and progress of the Zoological collection.

The following comparative table shows the numbers of the various collections during the last four years:—

	Mammals.	Birds.	Reptiles.
1929-30 ...	302	1,299	130
1930-31 ...	381	1,719	186
1931-32 ...	372	1,837	126
1932-33 ...	415	2,373	190

The general condition of the animals specially of the older inhabitants of the Gardens has been good. With the exception of a few cases of Foot and Mouth Disease amongst the ruminants and Mycosis amongst the newly acquired pheasants there has been no epidemic of any kind.

The most important acquisition during the year was a female Indian Rhinoceros presented by His Excellency Lord Willingdon to mate with the male Rhinoceros which Her Excellency the Countess of Willingdon had kindly presented to the Garden last year. These are the most valuable animals in the collection and are greatly admired by the visitors.

Among other important gifts deserving special mention were:—

One male Indian Elephant calf presented by the Raja and Feudatory Chief of Dhenkanal.

One Clouded Leopard presented by D. G. Meston, Esq.

One Golden Cat presented by P. Edwards, Esq.

One Tiger cub presented by the Raja and Ruling Chief of Keonjhar.

Two Lion cubs presented by His Highness the Maharawal Sahib Bahadur of Dungarpur.

One White-collared Kingfisher presented by Dr. S. C. Law, M.A., PH.D., F.Z.S.

The management of the Garden was much indebted to Mr. W. K. Dods for his kind help in obtaining for the Garden a regular supply of aquatic birds and other animals during the year, amongst which the following were new to the collection:—

2 Indian Coursers. 2 Pigmy Wood-peckers.
1 Red-rumped Green Wood-pecker.

The most important purchases during the year were the following:—

2 Baby Elephants.
1 Red-backed Saki Monkey.
1 Humboldts Saki Monkey.
1 Two-toed Sloth.
2 Golden Squirrel Monkeys.
4 Tibetan Lynxes.
13 Tiger cubs.
1 Swainson's Jay.
2 Red-shouldered Marsh Birds.
1 Blue Jay.
1 Green Jay.

The following animals were received on exchange account during the year:—

From the Taronga Zoological Park Trust, Sydney:—

2 Great Kangaroos.
1 Rufous Kangaroo.
1 Wallaroo.

From Mr. J. Delacour, Marseilles—

1 pair Elliot's Pheasants.
2 Rosy-billed Ducks.
2 White-faced Wood Ducks.
2 Chillian Pintails.

From the Adelaide Zoo—

1 Bourke's Grass Parrakeet.

From Liverpool Zoological Park—

1 Gold Marmoset.

From G. B. Chapman, Ltd.—

1 Brazilian Tapir.
1 Black-footed Penguin.
1 King Vulture.
1 Capybara.

From the Raja and Feudatory Chief of Talcher—

1 Female Elephant calf.

From the Singapore Zoo—

2 Black Leopards.

From Alfred Ezra, Esq., O.B.E., London—

1 Black-necked Swan.

The following is a list of animals and birds that were born in the Garden:—

1 Barasingha Deer.
3 Fallow Deer.
6 Spotted Deer.
1 Brindled Gnu.
3 Indian Antelopes.
1 Barking Deer.
1 Brow-antlered Deer.
4 Sambar Deer.
1 Hog Deer.
1 Llama.
5 Four-horned antelopes.
1 Barbary Sheep.
1 Hare.
1 Gayal.
2 Macaque Monkeys.
1 Weeper Capuchin.
3 Lion Marmosets.
1 Bare-eyed Cockatoo.
1 Dusky Langur.
1 Arabian Baboon.
2 Hanuman.
1 Mandrill.
2 Rufous Kangaroos.
1 Common Otter.
2 Bronze-winged Pigeons.
3 Cattle Egrets.
4 Mute Swans.
9 Fischer's Lovebirds.
2 Indian Magpie Robins.
2 White-breasted Waterhens.
2 Cockatiels.
1 Large White Egret.
6 Lesser Whistling Teals.
4 Sonnerat's Jungle Fowl.
2 Black-headed Ibises.

The following have bred in the Garden in a wild state:—

White-breasted Kingfishers.	Cormorants.
Spotted Owlets.	Night Herons.
Black-headed Mynas.	Indian Darters.
White-breasted Waterhens.	Flying Foxes.
Lesser Whistling Teals.	House Kites.

Eggs were laid but not hatched by the following birds:—

Emu.	Argus Pheasant.
Mute Swan.	Silver Pheasant.
White Rhea.	Gold Pheasant.
Canadian Geese.	Cheer Pheasant.
Swinhoe Pheasant.	Amherst Pheasant.

Ring-necked Pheasant.

The more important deaths during the year and notations of causes condensed from the *post-mortem* reports were as follows:—

1 Female Orang-outang (Malignant Jaundice).

1 Kiang (Heat Stroke).

1 Secretary Bird (Gastritis).

1 Baby Elephant (Enteritis and Hæmorrhage).

1 Red-backed Saki Monkey (Verminous Enteritis).

1 Black-footed Penguin (Gastric Catarrh).

1 Black-necked Swan (Mycosis).

A pair of Stanley Cranes which had been on exhibition for over 30 years died of old age and general debility. Other extremely old specimen that died during the year was a Banteng bull. It was the last survivor of the herd of Bantengs which flourished once upon a time at the Garden. We also lost a fine pair of young Brazilian Tapirs. These animals were exhibited in the big lake into which a pair of newly-imported Pigmy Hippopotamii were put. The Hippos and the Tapirs lived together on friendly terms for several months but one morning one of the Tapirs was found dead and the *post-mortem* examination revealed death due to *Asthenia*. No clue could be found out as to the circumstances under which the animal died till one day after three weeks the female hippo made a sudden and unprovoked attack on the surviving tapir and though immediate help was given and the poor animal was separated it died within a few hours. The death of the first tapir might be due to the fact that the hippos chased it at night till the animal collapsed in a state of exhaustion from which it never recovered.

A male tiger named "Chandi", presented to the Gardens when it was only a young cub, grew up to a fine big specimen. One day while swallowing a big lump of horse flesh it got choked and died immediately before any help could be given.

There were other losses by death of smaller animals, birds and reptiles but most of them were due to causes for which the management of the Garden could not be held responsible.

The following were destroyed as being old and unfit for exhibition :—

2 Lionesses.

The following were sent to—

Taronga Zoological Park Trust, Sydney—

3 Pythons. 2 Himalayan Bears.

4 Rhesus Monkeys.

Adelaide Zoo—

4 Red Jungle Fowl. 2 Brahminy Ducks.

2 Monal Pheasants. 2 Indian Magpie Robins.

6 Chakar Partridges. 2 Indian Rollers.

2 Red-cheeked Bulbuls.

Liverpool Zoological Park—

9 Monal Pheasants. 1 Red Jungle Fowl.

G. B. Chapman, Ltd.—

2 Tiger cubs.

Alfred Ezra, Esq., O.B.E., London—

24 Cotton Teals. 2 Blyth's Tragopan Pheasants.

Wellington Zoo—

2 Indian Magpie Robins. 2 Hill Mynas.

2 Black-headed Mynas. 2 Black-headed Orioles.

2 White Java Sparrows.

Clifton Zoo—

2 Leopards. 2 Tibetan Lynxes.

Mr. Patzert, Rangoon—

2 Common Peafowl.

Singapore Zoo —

2 Nilgais. 1 Striped Hyæna.

1 Mute Swan. 2 Indian Antelopes.

Raja Saheb of Talcher—

2 Great Kangaroos. 2 Rufous Kangaroos.

2 Weeper Capuchin Monkeys.

Mr. J. Delacour, Marseilles—

4 Blyth's Tragopan Pheasants. 4 Crimson Tragopan Pheasants.

2 Koklas Pheasants.

Zoological Society of London—

9 Black Partridges. 5 Blyth's Tragopan Pheasants.

1 Golden Cat. 8 Crimson Tragopan Pheasants.

1 Indian Ratel. 4 Monal Pheasants.

96 Cattle Egrets. 2 Kalij Pheasants.

3 Sambar Deer. 4 Cheer Pheasants.

2 Hog Deer. 3 Cat Bears.

20 Non-poisonous snakes. 40 Cotton Teals.

Of the animals sold during the year the following deserve special mention :—

3 Baby Elephants. 7 Tiger cubs.

1 Tigress. 1 Pair Black Leopards.

A Veterinary Dispensary was maintained throughout the year and 286 cases were treated during the year under report.

Thanks are due to the Principal, Bengal Veterinary College, Belgachia, for his kind help in several cases.

A *post-mortem* examination was made nearly of every important animal that died during the year and all carcasses have been as usual sent to the Calcutta School of Tropical Medicine through the Director of Zoological Survey of India, Indian Museum, for scientific purposes.

A list of the more important cases subject to clinical diagnosis is given below :—

Anæmia—1 Gayal.

Avian Septicæmia—1 Tragopan Pheasant, 1 Red Jungle Fowl, 1 Mute Swan.

Cirrhosis of the liver—1 Ring-tailed Lemur, 1 Malayan Bear.

Choking—1 Tiger.

Cage Paralysis—1 Leopard.

Cat Distemper—2 Tibetan Lynxes, 1 Leopard cub.

Dysentery—5 Hoolocks.

Drowning—1 Common Marmoset, 1 Four-horned Antelope, 1 Black-striped Wallaby.

Enteritis—1 Saki Monkey, 1 Sloth Bear, 1 Baby Elephant.

Foot and Mouth Disease—1 Goral.

Gastric Catarrh—1 Black-footed Penguin.

Gastro-enteritis—1 Gharial, 1 Leopard Cat, 1 Gold Leaf Monkey, 1 Secretary Bird.

Helminthiasis—2 Himalayan Bears, 1 Sloth Bear.

Heat Stroke—1 Blue Jay, 1 Kiang.

Injury—1 White-winged Wood Duck, 1 Common Marmoset, 1 Javan Mouse Deer, 1 Barasingha Deer, 1 Four-horned Antelope, 1 Llama, 1 Hog Deer, 1 Vieillot's Fire-back, 1 Green Monkey, 2 Spotted Deer, 1 Cat Bear, 1 Indian Marten, 1 Great Bird of Paradise, 1 Scarlet Tanagar.

Jaundice (Malignant)—1 Orang-outang.

Killed by vermin—1 Black Swan, 1 Chakar Partridge, 1 Burmese Peafowl, 1 Common Weaver Bird, 3 Himalayan Siskins, 3 Rose Linnets, 2 Red-billed Hill Tits, 1 Black-crested Yellow Bulbul, 1 Rufous-throated Hill Partridge.

Mycosis—1 Gold Pheasant, 1 Black Swan, 1 Red-headed Pochard, 1 Swinhoe's Pheasant, 2 Mute Swans, 1 Black-necked Swan, 1 Two-wattled Cassowary.

Nephritis—1 Leopard.

Nocardiosis—1 Bennett's Wallaby.

Pulmonary congestion—1 Mandrill.

Pulmonary abscess—1 Rufous Kangaroo.

Tetanus—1 Monal Pheasant.

S. GANGULI,

Superintendent, Zoological Garden.

APPENDIX A.

I.—Comparative Statement of Receipts for 1931-32 and 1932-33.

	1931-32.	1932-33.
	Rs. a. p.	Rs. a. p.
Opening balance	9,034 6 8	6,791 7 0
Interest	545 14 6	545 14 6
Donations and subscriptions	105 0 0	588 0 0
Entrance receipts	62,141 6 0	62,231 6 0
Rent	7,900 0 0	7,980 0 0
Carriage, rickshaw, etc.	598 10 0	666 6 0
Picnics	163 0 0	167 0 0
Rhino urine	2,776 8 0	2,643 0 0
Miscellaneous receipts	13,734 2 9	21,473 4 1
Government contribution	20,000 0 0	16,000 0 0
Total ..	1,16,998 15 11	1,19,086 5 7
Add—		
Receipts of 31st March 1931 (1930-31) paid in on 1st April 1931 (1931-32) ..	136 7 0	....
Receipts of 31st March 1932 (1931-32) paid in on 1st April 1932 (1932-33) ..	....	101 8 0
Total ..	1,17,135 6 11	1,19,187 13 7
Deduct—		
Receipts of 31st March 1932 (1931-32) not paid in on 31st March 1932 but paid in on 1st April 1932 (1932-33) ..	101 8 0	....
Receipts of 31st March 1933 (1932-33) not paid in on 31st March 1933 but paid in the following year (1933-34) ..	....	112 0 0
Total ..	1,17,033 14 11	1,19,075 13 7

II.—Comparative Statement of Expenditure for 1931-32 and 1932-33.

	1931-32.	1932-33.
	Rs. a. p.	Rs. a. p.
Establishment	18,709 12 0	18,154 3 0
Food of animals	34,286 3 0	37,230 8 9
Purchase of animals	7,809 14 0	13,895 13 3
Transport of animals	5,710 14 9	8,975 10 9
Miscellaneous contingencies	9,318 9 8	9,462 3 6
Repairs of roads	1,411 14 0	770 15 3
Repairs of buildings	9,159 4 9	6,593 14 0
Garden construction	10,490 13 3	10,111 15 9
Original construction	13,345 2 6	9,785 6 3
Total ..	1,10,242 7 11	1,14,980 10 6
Closing balance	6,791 7 0	4,095 3 1
Grand total ..	1,17,033 14 11	1,19,075 13 7

APPENDIX B.

Summary of visitors and gate receipts during the year 1932-33.

Month and year.	Number of visitors.	Receipts. Rs. a. p.
1932.		
April	60,114	4,075 12 0
May	52,130	3,591 3 0
June	64,203	4,265 6 0
July	60,806	4,198 9 0
August	66,366	4,534 5 0
September	78,568	5,188 5 0
October	1,17,905	7,745 11 0
November	64,663	4,373 15 0
December	1,20,610	7,900 3 0
1933.		
January	1,19,854	7,995 7 0
February	68,544	4,563 5 0
March	56,241	3,799 5 0
Total ..	9,30,004	62,231 6 0

Free days.

	Number of visitors.
1932.	
25th April	3,296
23rd May	348
27th June	3,075
25th July	3,370
2nd August	4,113
26th September	5,390
17th October	4,466
21st November	4,695
19th December	5,649
1933.	
16th January	5,312
20th February	4,264
20th March	4,023
Total	48,001

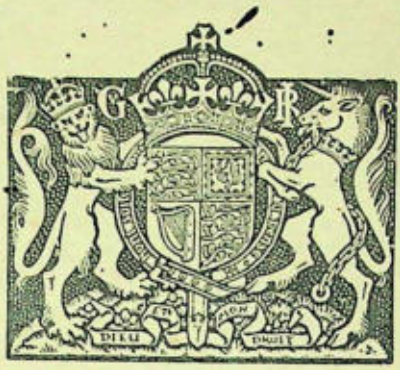
APENDIX C.

List of Donors during the year 1932-33.

His Excellency Lord Willingdon ..	1 Indian Rhinoceros.
Her Excellency the Countess of Willingdon	2 Himalayan Bear cubs.
His Excellency Sir John Anderson ..	1 Himalayan Bear cub.
Acharjya, Mr. R. L.	1 Malayan Bear.
Agarwalla, Mr. B. D.	1 Common Peafowl.
Banerjee, Mr. P.	2 Common Peafowl.
Banerjee, Dr. A. N.	2 Common Peafowl.
Brodie, Mr. W. T.	1 Leopard (cub).
Bedi, Mr. Bawa Ladha Singh	1 Spotted deer.
Cotton, Mr. S. C. N.	1 Common Budgerigar, 2 Yellow Budgerigars, 1 Chinese Thrush, 1 Pekin Robin, 2 Yellow Buntings, 3 Common Weaver Birds, 1 Spectacled Bird, 2 White-cheeked Bulbuls, 2 Red-cheeked Bulbuls, 1 Opossum.
Chattopadhyay, Mr. S. K.	1 Rosy-crested Cockatoo.
Darby, Mr. A. W.	1 Russell Viper.
Dhenkanal, Raja of	1 Elephant.
Das Gupta, Dr. S. C.	1 Arabian Baboon.
Das, Babu Gobardhan	1 Rhesus Monkey.
Director, Calcutta School of Tropical Medicine	1 Hanuman, 1 Macaque Monkey, 3 Bonnet Monkeys, 6 Rhesus Monkeys.
Dungarpur, H. H. the Maharawal Sahib Bahadur.	2 Lion cubs.
Dobson, Mr. F.	1 Sloth Bear.
Dewis, Mr. W. H.	3 Blue Budgerigars, 1 White Budgerigar, 1 Yellow Budgerigar, 2 Common Weaver Birds.
Dods, Mr. W. K.	104 Cattle Egrets, 5 Indian Rollers, 1 Sparrow Hawk, 3 Marsh Harriers, 9 Pheasant-tailed Jacanas, 2 Bronze-winged Jacanas, 1 Jungle Cat, 163 Cotton Teals, 2 Golden Plovers, 5 Spotted Owlets, 9 Lapwings, 6 Sand Pipers, 1 Common Coot, 10 White-breasted Waterhens, 10 Green Barbets (lineated), 1 Crow Pheasant, 13 Lesser Whistling Teals, 4 Crimson-breasted Barbets, 7 Black-winged Kites, 1 Shikra, 1 Black-tailed Godwit, 5 Brahminy Kites, 3 Shamas, 9 Black-naped Orioles, 3 Montague Harriers, 2 Indian Tree Pies, 3 Indian Magpies, 1 Wigeon, 6 Grey-headed Mynas, 2 White-breasted Kingfishers, 1 Brown-backed Shrike, 1 Indian Hare, 9 Painted Snipes, 29 Indian Water Rails, 1 Button Quail, 44 Gargeny Teals, 4 Dama oreocincla, 1 Spur-winged Lapwing, 3 Blue cheeked Green Barbets, 1 Varanus flavescens, 10 Ruddy Crakes, 20 Common Crakes, 2 Java Sparrows, 8 Purple Coots, 3 Orange-headed Ground Thrushes, 6 White-eyed Pochards, 1 Marsh Cock, 1 Crested Serpent Eagle, 1 Crested Pochard, 4 Common Teals, 1 Spotted Tiger Civet, 2 Little Bitterns, 1 Marsh Tern, 3 Common Weaver Birds, 1 Bengal Fox, 2 Cinnamon Bitterns, 1 Pintailed Duck, 2 Horned Owls, 1 Fish Owl.

Edwards, Mr. Passmore ..	.. 1 Golden Cat.
Ghosh, Mr. S. K., I.C.S. ..	.. 1 Malâyan Bear, 2 Kalij Pheasants.
Gasper, Mrs. B. C. ..	.. 1 Peacock Pheasant.
Ganguli, Mr. M. N. ..	.. 1 Leopard.
Gossip, Mr. F. I. ..	.. 1 Himalayan Bear.
Hicks, Mr. ..	.. 1 Himalayan Bear, 1 Comb Duck, 1 Hybrid Duck (Muscovy × Mallard).
Hughes, Mrs. ..	.. 1 Common Peafowl.
Hewison, Mr. A. ..	.. 1 Alexandrine Parrot.
Hellen, Mrs. C. D. C. ..	.. 2 Blue Budgerigars.
Hash Goswami, Mr. S. ..	.. 1 Himalayan Bear cub.
Hosain, Mr. Syed, S. S., M.A., LL.D. ..	1 Leopard cub.
Kelly, Mr. L. St. John ..	.. 1 Four-horned Antelope.
Keônjhar, The Raja and Ruling Chief ..	1 Tiger cub.
Keith-Smith, Mr. R. C. ..	.. 1 Leopard cub.
Lane, Miss M. ..	.. 1 Porcupine.
Law, Dr. S. C., F.Z.S., Ph.D. ..	.. 1 White-collared Kingfisher.
Lancaster, Mr. S. P. ..	.. 2 Black-headed Mannikins.
Lloyd, Mrs. A. H. ..	.. 1 Indian Gazelle, 1 Hog Deer.
Morgan, Mrs. Carey ..	.. 1 Blossom-headed Parrakeet.
Mymensingh, Maharaj-Kumar ..	.. 1 Hoolock.
Mukerji, Mr. J. P. ..	.. 1 Indian Antelope.
Mukherji, Mr. D. G. ..	.. 1 Indian Antelope.
Mackgell, Mr. G. ..	.. 2 Lesser Pied Hornbills.
Missra, Mr. R. L. ..	.. 1 Bonnet Monkey.
Martin, Mr. O. K. ..	.. 1 Fishing Cat.
Meston, Mr. D. G. ..	.. 1 Clouded Leopard.
Mullick, Mr. T. N. ..	.. 2 Sloth Bear (cubs).
Menoka Tea Estate, Manager ..	.. 1 Sloth Bear.
Messrs. G. M. Khan & Sons ..	.. 1 Hog Badger.
Nicholson, Mr. J. W., F.Z.S. ..	.. 2 Leopard cubs.
O'Echme, Mr. R. E. O. ..	.. 1 Leopard cub.
Prashad, Dr. B., D.Sc. ..	.. 1 Roofed Terrapin.
Roy, Kumar S. S. ..	.. 1 Hoolock.
Roy, Mr. S. N. ..	.. 1 Indian Gazelle.
Robertson, Mr. A. K. ..	.. 1 Indian Antelope.
Raha, S. K., Rai Bahadur ..	.. 1 Indian Antelope.
Singh Roy, Mr. S. ..	.. 1 Pintailed Duck, 3 Gargeny Teals, 1 Common Teal.
Sircar, Mr. K. C. ..	.. 1 Marsh Crocodile.
Sircar, Mr. A. K. ..	.. 1 Rhesus Monkey.
Speirs, Mr. J. S. ..	.. 1 Indian Antelope.
Smythe, Mrs. ..	.. 2 Common Peafowl.
Smythe, Mr. W. G. ..	.. 1 Alexandrine Parrot.
Sonepore, Maharaja of ..	.. 1 Python.
Saunders, Mrs. R. ..	.. 2 Hog Deer.
Sircar, Babu Akshoy Kumar ..	.. 1 Rhesus Monkey.
Taylor, Mrs. ..	.. 2 Yellow Budgerigars.
Tristram, Mr. H. W. ..	.. 1 Python.

B. G. Press—1933-34—3498D—200.



Government of Bengal

Report of the Honorary Committee for the Management of the Zoological Garden, Calcutta

1933-34

Superintendent, Government Printing
Bengal Government Press, Alipore, Bengal
1934

Report of the Honorary Committee for the Management of the Zoological Garden, Calcutta, for the year 1933-34.

The Committee have the honour to submit their report for the year ending 31st March 1934 supplemented, as in former years, among other items by—

(1) the Superintendent's report upon the Zoological collection;
(2) abstract of accounts of ordinary receipts and expenditure; and
(3) monthly returns of visitors and gate receipts and a list of donors and their donations.

The Committee consisted of—

President.

The Hon'ble Sir Philip Lindsay Buckland, KT., F.Z.S.

Vice-President.

W. K. Dods, Esq.

Honorary Secretary and Treasurer.

E. H. Marshall, Esq., from 1st March 1933 to 14th March 1934.
H. A. Fooks, Esq., from 15th March 1934 to 31st March 1934.

Nominated Members.

Nawab Sir Asif Qadr Saiyid Wasif Ali Mirza, Khan Bahadur, Mahabat Jang, Nawab Bahadur of Murshidabad, K.C.S.I., K.C.V.O.
Sir David Ezra, KT., F.Z.S., M.B.O.U.
Surendra Nath Laha, Esq.
Dr. Satya Charan Laha, PH.D., F.Z.S.
Lieut.-Col. Sir F. P. Connor, D.S.O., F.R.C.S., I.M.S.
Rai Ajit Nath Das Bahadur, F.Z.S., M.R.A.S.
K. C. De, Esq., C.I.E., I.C.S.
G. Morgan, Esq., C.I.E., F.R.H.S., F.Z.S., M.L.A.
Maharaj-Kumar Uday Chand Mahtab, B.A., of Burdwan.
The Hon'ble Mr. Justice T. Ameer Ali, BAR.-AT-LAW.
Dr. Rai U. N. Brahmachari Bahadur, M.A., M.D., PH.D.
Herbert Fooks, Esq.

Rai Bijay Krishna Basu Bahadur.

Major-General W. V. Coppinger, C.I.E., D.S.O., M.D., F.R.C.S., I.M.S.

S. C. Lyttelton, Esq.

Nawabzada A. S. M. Latifur Rahman, M.A. (CANTAB.), BAR.-AT-LAW.

Lieut.-Col. H. W. Acton, M.D., C.I.E., I.M.S.

Saileswar Singh Roy, Esq., M.L.C.

Dhirendra Nath Ghosh, Esq.

Phanindra Nath Brahma, Esq.

Ex-officio Members.

The Commissioners of Divisions in Bengal.

The Executive Engineer, Suburban Division, Public Works Department.

The Director of Public Health 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 Director, Civil Veterinary Department, Bengal.

The Professor of Comparative Anatomy and Zoology, Medical College, Calcutta.

The Superintendent of the Royal Botanic Garden, Sibpur.

The Mayor of Calcutta.

The Principal of the Bengal Veterinary College, Calcutta.

The Conservator of Forests, Bengal.

Appointment.—Messrs. Dhirendra Nath Ghosh and Phanindra Nath Brahma, Councillors, Corporation of Calcutta, were appointed as members of the Committee to represent the Corporation for the year 1933-34.

Resignation.—The following member resigned his membership during the year—Sir Hariram Goenka, Rai Bahadur, C.I.E.

Staff.—Rai Sahib Somadev Ganguli, C.M.Z.S., continued in charge of the Garden as Superintendent throughout the year.

The following is a list of the superior staff of the Garden at the end of 1933-34:—

Superintendent.—Rai Sahib Somadev Ganguli, C.M.Z.S.

First Assistant Superintendent.—Mr. Nagendra Nath Banerjee, G.B.V.C., F.Z.S., F.R.H.S.

Second Assistant Superintendent.—Khan Sahib S. M. Yaqub Khan.

Overseer.—Mr. N. Mukherjee, G.B.V.C., F.Z.S., F.L.S., F.R.H.S.

Store-keeper.—Babu Jugal Kishore Roy.

Clerk.—Babu Tarak Chandra Chatterji.

Gate-clerk.—Babu Bepin Behari Chatterji.

The menial staff of the Garden at the end of 1933-34 comprised, in addition to temporary men who were engaged as required:—

1 Jamadar.	1 Cook.
8 Darwans.	1 Head Gardener.
20 Keepers.	2 Cartmen.
14 Gardeners.	1 Night Watchman.
3 Sweepers.	2 Chaprasis.
1 Carpenter.	1 Syce.
2 Bhistis.	1 Scytheman.

The general condition of the animals was satisfactory and the death-rate normal. There were no epidemics of any kind though there were some cases of "Cat Distemper" amongst newly imported specimens. The larger carnivora thrived well and there were no serious casualties amongst them. The ruminants maintained excellent health and bred freely as appears from the Superintendent's report. Casualties amongst the birds have been normal and the collection of animals has never been larger or more varied than during the year under review.

The only important work undertaken in 1932-33 and completed in 1933-34 was the remodelling of the Small Carnivora House. At the eastern side large exhibition cages were constructed in place of smaller grilled cages. The exhibition cages connect directly with the existing dens and the floor is covered with sand. Each run is provided with a large cement basin containing water. The enclosure has proved to be one of the best houses in the Gardens and conduces considerably to the health of the occupants.

The question of improving the existing arrangement for exhibiting small cats engaged the attention of the Committee of Management and instead of the insanitary wooden cages with bars a set of new cages with iron frame and fitted on all sides with strong interlink wire-netting was constructed on a raised platform, each cage being separated from the other by a wide channel containing water which has the merit of isolating the occupants and preventing the spreading of any possible infection.

The entire roof of the Sarnomoyi House was half-terraced and made water-tight and a new sky-light 27 ft. long and 8 ft. broad has provided more light and air to the house. The plaster of the ceiling was repaired and the wood work was painted.

The old wire-netting of the Jhind House and the Mullick House required renewal, the entire enclosures were dismantled and new linked wire-netting was substituted. The iron work was repaired and painted.

The roofs of the Dumraon House and the Hospital Building which had been in a bad state of repair for some years were thoroughly overhauled, half-terraced and made water-tight. The ceilings were attended to and the beams and rafters painted.

The Hermitage.—The condition of this building, the residence of the Honorary Secretary, was found to have deteriorated since the last repairs executed in 1928-29. The house was examined by the Public Works Department Engineer who after inspecting it made certain suggestions for improving it which were carried out.

The annual repairs to the buildings were carried on departmentally as usual. Details are as follows:—

The Boundary wall, Burdwan House, the Servants' Quarters, the Store-godown, Superintendent's Quarters, Reptile House, Sonebursa Enclosure, Drill and Mandrill House, the Refreshment Pavilions, were repaired, sand-plastered, colour-washed and painted as necessary.

The following buildings were lime-washed and colour-washed:—

New Monkey House, Kangaroo Enclosure, Boloram House, Entrance Lodge and Office, Murshidabad House, Gubbay House, Ezra House.

In addition to the above works, a number of repairs of minor importance necessary to the upkeep and maintenance of the Garden was also carried out.

The condition of the Garden was well maintained throughout the year and the usual work in the care of lawns, walks and roads was carried on as usual. The paths near the Dumraon House and round the Jhind House, on which an experimental application of "Bitumals" treatment was made three years ago and proved unsuitable, were resurfaced with tar-macadam.

The Gardens were carefully attended to and there was a particularly good show of flowering annuals especially of Dahlias. For a number of exhibits sent to the Agri-Horticultural Society's Exhibition, the Garden was awarded the President's cup, and several first and special prizes.

As stated in the last Annual Report the finances of the Garden are satisfactory to the extent that expenditure is balanced by income. With the closing balance gradually decreasing and with a 20 per cent. cut in the annual Government grant the Gardens may suffer notwithstanding the greatest care and economy, and it is again hoped that the Government will see its way to restore the grant to the original amount.

There was a falling off in the attendance of paying visitors during the year, the turnstile records indicating a total of 911,621 visitors, a decrease of 18,383 visitors as compared with the figures for the previous year. Corresponding with the decrease in the number of visitors the gate receipts decreased by Rs. 2,419-2.

The following is a comparative statement of visitors and receipts for the last four years:—

	Visitors.	Receipts. Rs.	a.
1930-31	979,604	66,082	13
1931-32	928,501	62,141	6
1932-33	930,004	62,231	6
1933-34	911,621	59,812	4

A large number of children under four years of age and school children, attended by their teachers, were admitted free.

In addition 49,901 persons, visited the Garden on free days. A detailed statement of the number of visitors and receipts appears in Appendix B.

The Annual Fancy Fair was held as usual on the 30th December 1933 and 1st January 1934. The turnstiles recorded 21,480 one-anna visitors as against 19,559 visitors in the previous year. It is very satisfactory to note that the Zoological Garden receipts at one-anna have increased, thus entirely justifying the policy of admitting one-anna visitors into the grounds not reserved for the Fancy Fair.

The thanks of the Committee are due to those ladies and gentlemen who have added to the Zoological collection a list of whom is given in Appendix C. Thanks are also due to those who kindly offered to present animals to the Garden, but whose offers could not be accepted either because the particular species was already sufficiently well represented or owing to want of accommodation.

The Committee also desire to express their thanks to the following Railway and Steamer Companies for kindly conveying the animals belonging to the Garden free of charge:—

East Indian Railway, British India Steam Navigation Co., Ltd., Peninsular and Oriental Steam Navigation Co. through Messrs. Mackinnon Mackenzie & Co., and River Steam Navigation Co., Ltd., through Messrs. Macneill and Co.

In accordance with the arrangement mutually agreed to by the Calcutta Corporation and the Zoological Gardens and approved by the Government regarding the representation of the Corporation on the Committee, the Corporation generously sanctioned a grant of Rs. 21,904-14 in the shape of remission of Municipal rates in respect of the Zoological Gardens and outhouses for which the Committee express their thanks to the Corporation of Calcutta.

Thanks are also due to the Officer Commanding and Officers of the 2nd Battalion, 7th Rajput Regiment, stationed at Alipur, for permitting their regimental band to play at the Garden on Tuesday afternoons, free of charge.

The Committee are much indebted to those members of the public who send old and broken-down horses to the Zoological Gardens, where they are disposed of under the most humane conditions.

P. L. BUCKLAND,
President.

H. A. FOOKS,
Honorary Secretary.

SUPERINTENDENT'S REPORT.

I have the honour to submit my report on the condition and progress of the Zoological collection.

The following comparative table shows the number of the various collection during the last four years:—

	Mammals.	Birds.	Reptiles.
1930-31	381	1,719	186
1931-32	372	1,837	126
1932-33	415	2,373	190
1933-34	449	3,024	173

The health and condition of the animals have been good and the death-rate has not exceeded the average percentage.

Among the more important animals presented to the Gardens during the year the following deserve special mention:—

1 Tigress presented by the Raja of Nowagarh.

2 Hoolocks presented by I. Hooper, Esq.

2 Painted Storks presented by Sir David Ezra, KT., F.Z.S., M.B.O.U.

2 Snake-eating Cobras presented by F. Buck, Esq.

The management of the Garden was much indebted to Mr. W. K. Dods, the Vice-President of the Garden, for his kind help in obtaining for the Garden a constant supply of aquatic and other birds, the collection of which was maintained in a high state of efficiency.

The most important purchases during the year were the following:—

2 Grant's Zebras.
2 Orang-outangs.
6 Tigers.
1 Markhor.
2 Snow Leopards.
1 Puma.
1 Thompson's Gazelle.
2 Giraffes.
2 Indian Elephants.

The following animals were received on exchange account during the year:—

From Taronga Zoological Park Trust, Sydney—

36 Diamond Finches.
50 Zebra Finches.
36 Chestnut-breasted Finches.
16 Plum-headed Finches.
12 Red-headed Finches.
2 Magpies.
2 Wonga Wonga Pigeons.
2 King Parrots.
2 Leadbeater's Cockatoos.
1 Male Wallaroo.
1 Female Red Kangaroo.

From Ceylon Zoological Gardens Co., Ltd.—

1 Snake-eating Cobra.

From Monsieur J. Delacour, Marseilles.

1 pair Mikado Pheasants.
2 Mantchurian Crossoptilons.
2 Ashy-headed Geese.
2 Magellan Geese.
2 Paradise Ducks.
2 Ruddy & Raja Sheldrakes.
2 Meller's Ducks.
2 Chinese Spotted-billed Ducks.
2 Blue-winged Teals.
2 African Mallards.

From Mr. L. Hagenbeck, Hamburg.

2 Ashy-headed Geese.
2 Magellan Geese.
2 Patagonian Cavies.
1 Sooty Mangabey.
1 Vervet Monkey.
1 Orinoco Goose.

From Karachi Zoological Gardens—

2 Black-headed Lemurs.

From Rotterdam Zoological Gardens—

1 pair Jaguars.
1 pair Crowned Cranes.
1 Spotted Hyaena.

From the Raja and Feudatory Chief of Talcher—

2 Baby Elephants.

From G. B. Chapman Ltd., London—

2 Spider Monkeys.

The following is a list of animals and birds that were born in the Garden:—

1 Hippopotamus.
2 Lions.
3 Leopards.
2 Gayals.
3 Striped Hyaenas.
1 Mandrill.
3 Arabian Baboons.
1 Bengal Porcupine.
1 Dusky Langur.
1 Gold Marmoset.
1 Bengal Fox.
1 Barasingha Deer.
1 Barking Deer.
4 Fallow Deer.
6 Sambar Deer.
1 Red Deer.
3 Four-horned Antelopes.
3 Spotted Deer.
4 Nilgais.
4 Indian Antelopes.
3 Four-horned Antelopes.
2 Barbary Sheep.
6 Sonnerat's Jungle Fowl.
1 Argus Pheasant.
2 Amherst Pheasants.
4 Peacock Pheasants.
4 Ring-necked Pheasants.
3 Red Jungle Fowl.
2 Saras Cranes.
3 Spotted-billed Ducks.
2 Bronze-winged Pigeons.
2 Bare-eyed Cockatoos.

The following have bred in the Garden in a wild state:—

White-breasted King-fishers.	Cormorants.
Spotted Owlets.	Night Herons.
Dials.	Indian Darters.
Black-headed Mynas.	Flying Foxes.
White-breasted Waterhens.	Common Kites.
Indian Koels.	Cattle Egrets.
Indian Tree Pies.	

Eggs were laid but not hatched by the following birds:—

Mute Swan.	Silver Pheasant.
White Rhea.	Gold Pheasant.
Canadian Goose.	Ring-necked Pheasant.
Swinhoe Pheasant.	Purple Kalij.
Reeves Pheasant.	Chakar Partridge.
Argus Pheasant.	White-throated Laughing Thrush.
Kestrel.	

A most serious loss by death was that of the male Chimpanzee "Mulloo." He had been in the Garden since 1930 and was a most clever and attractive creature—always gay and mischievous. He was ill for about 2 months and is believed to have died from splenic abscess.

The young female Chimpanzee purchased in 1931 has been put in the island occupied by "Mulloo." She seems to have taken kindly to her life and is happy in her new surroundings.

The death of the male Orang-outang "Munka" is also to be regretted. The specimen was purchased in 1925 and lived in the Gardens for about 8 years.

During the year two baby Orang-outangs, male and female, were purchased. The female arrived in a bad condition and died of disease of the liver shortly after arrival. The surviving Orang-outang is doing well and has become perceptibly larger and stronger judging by his healthy crop of red hair.

An acute and rapidly fatal form of cat distemper occurred during January and February. The disease first appeared in a consignment of two Tibetan Lynxes that arrived from Tibet and were lodged in the isolation cage in the Hospital. The infection spread to other recently acquired Felidæ which were also segregated in the hospital building and in addition to the original two Lynxes, three Leopard cubs, two Snow Leopards, 1 Tiger Cat, a Fishing Cat and a Golden Cat, a total of 10, rapidly succumbed to the disease.

The following is a list of more important deaths during the year and of notations of causes condensed from the post-mortem reports:—

1 Brindled Gnu (Injury).
1 Two-toed Sloth (Gastric catarrh).
1 Orang-outang (Diseases of the liver).
1 Puma (Old age and general debility).
1 Chimpanzee (Splenic abscess).
1 Polar Bear (Pyæmia).
1 Anoa (Colic).

The following were sent to:—

Zoological and Acclimatisation Society's Gardens, Adelaide—

1 pair Tragopan Pheasants.
1 pair Nepal Kalij.
1 pair Hill Partridges.
1 pair Red Spurfowl.

Ceylon Zoological Gardens Co., Ltd.—

1 Sloth Bear.
3 Red Jungle-fowl.

Taronga Zoological Park Trust, Sydney—

2 Pairs Monal Pheasants.

Rotterdam Zoological Gardens—

1 Sloth Bear. 1 Tiger cub.
1 Nilgai.

The Raja and Feudatory Chief of Talcher—

1 pair Gayals.

Zoological Society of Scotland, Edinburgh—

1 Lynx.

Monsieur J. Delacour, Marseilles—

6 pairs Blyth's Tragopan Pheasants.
4 pairs Satyr Tragopan Pheasants.
3 pairs Monal Pheasants.
1 pair White-crested Kalij Pheasants.
2 pairs Koklas Pheasants.
1 pair Malayan Crested Firebacks.
1 pair Crestless Firebacks.
30 Cotton Teals.
6 Pheasant-tailed Jacanas.
2 Bronze-winged Jacanas.

Mr. L. Hagenbeck, Hamburg—

2 Barking Deer.	12 Tragopan Pheasants.
1 Hoolock.	10 Kalij Pheasants.
1 Hog Badger.	2 Crestless Firebacks.
	2 Malayan Crested Firebacks.

Zoological Society of London:—Several shipments of valuable animals and birds consisting of Catbears, Lynxes, various kinds of Pheasants, Firebacks, Snow-pigeons, Green Magpies, etc., were sent during the year.

Of the animals sold during the year the following deserve special mention:—

2 Black Swans.	4 Tiger cubs.
2 Mute Swans.	1 Pair Black Leopards.
1 Tigress.	1 Pair Clouded Leopards.

A Veterinary Dispensary was maintained throughout the year and many cases were treated during the year under report.

A post-mortem examination was made of nearly every important animal that died during the year and all carcasses have been as usual sent to the Calcutta School of Tropical Medicine through the Director of Zoological Survey of India, Indian Museum, for scientific purposes.

A list of the more important cases subject to clinical diagnosis is given below:—

Anaemia—1 Tiger cub, 1 Capybara.

Avian Septicaemia—4 Crestless Fireback Pheasants, 1 Green Imperial Pigeon.

Coccidiosis—3 Red Spurfowl.

Cage paralysis—1 Dusky Langur.

Cat Distemper—2 Tibetan Lynxes, 3 Leopard cubs, 1 Tiger cub, 1 Golden Cat, 1 Fishing Cat, 2 Snow Leopards.

Canker—2 Snake-eating Cobras, 3 Cobras, 3 Pythons, 4 Russell's Vipers.

Dysentery—8 Hoolocks, 1 Dusky Langur, 1 Indian Gazelle, 1 Hog-Badger, 1 Lion Marmoset.

Drowning—3 Hoolocks, 1 Black-headed Oriole.

Diseases of the liver—1 Orang-outang, 1 Red-sided Eclectus, 1 Pied Imperial Pigeon, 1 Common Marmoset, 1 Common Otter, 1 Pigtailed Monkey, 1 Three-coloured Squirrel, 1 Crestless Fireback Pheasant, 1 Slow Loris.

Gapes—2 Monal Pheasants, 3 Tragopan Pheasants (Satyr), 8 Blyth's Tragopan Pheasants.

Gastritis—1 Otter, 1 Hocheur Monkey.

Gastro-enteritis—1 Lion Marmoset, 1 Sloth Bear, 1 Black Leopard, 1 Spotted Tiger Civet, 1 Rufous Kangaroo, 1 Red-bellied Flying Squirrel.

Helminthiasis—1 Sloth Bear.

Heat Stroke—1 Ashy-headed Goose.

Injury—1 Brow-antlered deer, 1 Mandrill, 4 Javan Mouse Deer, 1 Indian Antelope, 1 Hoolock, 1 Hog Deer, 1 Thigh-striped Wallaby, 1 Bear-Cat, 1 Gnu, 1 Slow Loris, 1 Black-necked Stork, 1 Adelaide Parrakeet, 7 Flamingoes, 3 Emus, 1 Koklas Pheasant, 1 Bourke's Grass Parrakeet, 1 Elegant Grass Parrakeet, 1 Canadian Goose, 1 Stubble Quail, 1 Citron-crested Cockatoo.

Mycosis—1 Blue-winged Goose, 1 Cotton Teal, 1 Canadian Goose, 1 Japanese Pheasant, 2 Amherst Pheasants, 1 Red-headed Pochard, 1 Grey-Lag Goose, 1 Common Crowned Pigeon, 1 Silver Pheasant, 1 Argus Pheasant, 1 Monal Pheasant, 1 Koklas Pheasant, 2 Hill Partridges, 4 Chakars, 1 Sand Grouse, 1 Gold Pheasant, 1 Common Peafowl.

Old Age—2 Zebra-Ass Hybrid, 2 Black Celebes Monkeys, 1 Puma, 1 Anubis Baboon.

Pneumonia—1 Malayan Bear, 1 Golden Cat, 1 Kinkajou, 1 Golden Marmoset, 1 Squirrel Monkey, 1 Opossum, 1 Hoolock, 1 Black-striped Wallaby, 2 Sloth Bears.

Pleuro-pneumonia—1 Himalayan Burrhel.

Splenic Abscess—1 Chimpanzee.

Tuberculosis (avian)—1 Red-crested Wood-Quail, 1 Hanuman.

S. GANGULI,

Superintendent, Zoological Garden.

APPENDIX A.

I.—Comparative statement of receipts for 1932-33 and 1933-34.

	1932-33.	1933-34.
	Rs. a. p.	Rs. a. p.
Opening balance	6,791 7 0	4,095 3 1
Interest	545 14 6	545 14 6
Donations and subscriptions	588 0 0	148 0 0
Entrance receipts	62,231 6 0	59,812 4 0
Rent	7,980 0 0	10,970 0 0
Carriage, rickshaw, etc.	666 6 0	907 10 0
Picnics	167 0 0	167 0 0
Rhino urine	2,643 0 0	2,499 0 0
Miscellaneous receipts	21,473 4 1	25,564 4 7
Government contribution	16,000 0 0	16,000 0 0
Total ..	1,19,086 5 7	1,20,709 4 2
Add—		
Receipts of 31st March 1932 (1931-32) paid in on 1st April 1932 (1932-33)	101 8 0	....
Receipts of 31st March 1933 (1932-33) paid in on 1st April 1933 (1933-34)	....	112 0 0
Total ..	1,19,187 13 7	1,20,821 4 2
Deduct—		
Receipts of 31st March 1933 (1932-33) not paid in on 31st March 1933 but paid in on 1st April 1933 (1933-34)	112 0 0	....
Receipts from 29th to 31st March 1934 (1933-34) not paid in on 31st March 1934 but paid in the following year (1934-35)	....	492 14 0
Total ..	1,19,075 13 7	1,20,328 6 2

II.—Comparative statement of expenditure for 1932-33 and 1933-34.

	1932-33.	1933-34.
	Rs. a. p.	Rs. a. p.
Establishment	18,154 3 0	18,625 8 0
Food of animals	37,230 8 9	35,774 11 9
Purchase of animals	13,895 13 3	17,557 7 6
Transport of animals	8,975 10 9	8,563 14 0
Miscellaneous contingencies	9,462 3 6	8,332 6 6
Repairs of roads	770 15 3	1,482 1 0
Repairs of buildings	6,593 14 0	10,125 12 9
Garden construction	10,111 15 9	9,761 15 0
Original construction	9,785 6 3	7,024 13 9
Total ..	1,14,980 10 6	1,17,248 10 3
Closing balance	4,095 3 1	3,079 11 11
Grand Total ..	1,19,075 13 7	1,20,328 6 2

APPENDIX B.

Summary of visitors and gate receipts during the year 1933-34.

Month and year.	Number of visitors.	Receipts. Rs. a. p.
1933.		
April	62,717	4,203 0 0
May	59,247	3,877 9 0
June	58,434	3,862 14 0
July	53,832	3,553 3 0
August	68,427	4,541 7 0
September	109,914	7,121 0 0
October	75,904	5,066 6 0
November	69,091	4,606 2 0
December	109,572	7,090 3 0
1934.		
January	117,935	7,543 0 0
February	58,083	3,840 12 0
March	68,545	4,506 12 0
Total ..	911,621	59,812 4 0

Free days.

	Number of visitors.
1933.	
10th April	3,588
8th May	2,358
12th June	3,122
10th July	2,802
14th August	4,532
11th September	4,732
9th October	5,766
13th November	4,691
11th December	6,114
1934.	
29th January	4,605
19th February	3,520
19th March	4,071
Total ..	49,901

APPENDIX C.

List of Donors during the year 1933-34.

A

Alkin, Mrs. J. ..	.. 1 Common Peafowl.
Alkin, Miss ..	.. 2 Common Otters.
Aul Raj Estate, Manager ..	.. 2 Sloth Bears, 1 Indian Wild Dog.

B

Bean, Mr. B. D. H. ..	.. 2 Four-horned Antelopes.
Bannerjee, Babu R. N. ..	.. 1 Wild Dog (pup).
Bannerjee, Mr. J. N. ..	.. 1 Sloth Bear cub.
Bannerjee, Mr. P. C. ..	.. 1 Marsh Crocodile.
Bannerjee, Mr. S. N. ..	.. 1 Green Turtle.
Begbie, Capt. ..	.. 1 Spotted Deer.
Bamjee, Mr. J. Dinshaw ..	.. 1 Indian Antelope.
Bariwala, Sheoprashad ..	.. 1 Macaque Monkey.
Buck, Mr. F. ..	.. 2 Snake-eating Cobras.
Bodogodo, H. H. Raja of ..	.. 2 Sloth Bear cubs.
Briant, Mr. L. H. ..	.. 3 Striped Hyaena cubs.

C.

Choudhury, Sir Chhajuram, C.I.E. ..	1 Indian Antelope.
Chowdhury, Mr. S. N. S. ..	.. 1 Hoolock.
Cahill, Mr. S. ..	.. 1 Leopard cub.

D.

Davis, Mrs. C. ..	.. 1 Bonnet Monkey.
Das, Mr. C. C. ..	.. 1 Cobra.
Debi, Srimati Radharani ..	.. 1 Spotted Deer.
D'cruz, Mr. L. ..	.. 1 Hoolock.
Dobson, Mrs. M. ..	.. 1 Emerald Dove.
Dods, Mr. W. K. ..	.. 202 Cotton Teals, 5 Bronze-winged Jacanas, 8 Pheasant-tailed Jacanas, 4 Sand Pipers, 192 Cattle Egrets, 5 Grey-headed Mynas, 2 Scop's Owls, 5 Lineated Barbets, 1 Grey-headed Lapwing, 5 White-eyed Buzzards, 2 Blue-cheeked Green Barbets, 1 Bengal Porcupine, 8 Marsh Terns, 1 Crimson-breasted Barbet, 2 White-breasted Waterhens, 1 Kestrel, 6 Gargeny Teals, 11 Lapwings, 1 Horned Owl, 1 Lesser Whisting Teal, 5 Brahminy Kites, 3 Lesser Egrets, 29 Purple Coots, 3 Crow Pheasants, 1 Dauma oriocincla, 3 Common Teals, 1 Marsh Cock, 2 Montague Harriers, 1 Tufted Pochard, 3 Pied Harriers, 3 Indian Fish Owls, 1 Black-headed Oriole, 3 Orange-headed Ground Thrushes, 6 White-breasted Kingfishers, 9 Corn Crakes, 3 Little Bitterns, 13 Indian Water Rails, 1 Indian Courser, 3 Indian Hares, 6 Black-winged Kites, 2 Spotted Owlets, 5 Crested Serpent Eagles, 4 Horned Owlets, 2 White-tailed Sea-Eagles, 2 Changeable Hawk-Eagles, 2 Bustard Quails.

E.

Ellis, Mrs.	1 Common Otter.
Ellis, Mrs. E. E.	2 Lesser Pied Hornbills.
Ezra, Mr. Alfred, O.B.E.	4 Californian Quails.
Ezra, Sir David, Kt., F.Z.S., M.B.O.U.	2 Painted Storks.
Edge, Mr. J. H.	1 Himalayan Bear cub.
Evans, Mr. E. J.	1 Sloth Bear cub.

F

Fitzpatrick, Mr. R. C.	1 Python.

G

Ghosh, Mr. S. K., I.C.S.	1 Slow Loris, 2 Pythons.
Galstaun, Mr. J. C.	1 Leopard cub.
George, Mr. L. A.	1 Sloth Bear cub.
Gouripur, Raja Bahadur of ..	1 Gharial.
Groser, Mr.	2 Black Birds.

H.

Hasan Chowdhury, Mr. Md. N., M.L.C.	1 Black Stork.
Higher, Mr. E. S.	1 Leopard cub, 1 Sloth Bear cub.
Halder, Mr. S. K., I.C.S.	1 Spotted Deer.
Headwards, Mrs. N.	1 Leopard cub.
Hooper, Mr. I. M.	2 Hoolocks.
Horton, Mr. K.	1 Sloth Bear cub.

J.

Jan, Mr. M.	1 Rhesus Monkey.

K.

Kearns, Mrs.	1 Hog Deer.
Khan, Kumar D. L.	1 Leopard cub.
Khan, Messrs. A. H. & Co. ..	1 Sambar Deer.

L.

Locke, Mr. J. E.	1 Bonnet Monkey, 1 Macaque Monkey.

M.

Marsh, Mr. A. G.	1 Leopard Cat.
Mitchell, Mrs.	1 Nilgai.
Mukerjee, Sir R. N., Kt., K.C.I.E., K.C.V.O.	1 Indian Antelope.
Mazumdar, Mr. H. K.	1 Python.
McAlpine, Mr. K. E.	1 Fishing Cat.
Manoka Tea Estate, Manager ..	2 Indian Wild Pigs.
Marshall, Mr. E. H.	9 Gold-fronted Chloropsis, 3 Black-headed Orioles, 2 Black Partridges.

N.

Nowroji, Mr. Rustomji ..	.. 1 Jungle Cat.
Nawagarh, Raja Bahadur of	.. 1 Tigress.
Naskar, Mr. H. C. ..	.. 1 Python.

O.

Officer Commanding, 1st Bn. 5th Mahratta Light Infantry.	1 Barking Deer.

P.

Pearce, Mr. P. C. ..	.. 1 Himalayan Bear.

R.

Rollo, Mr. D. J. ..	.. 1 Fishing Cat.
Roy, Mr. S. ..	.. 1 Leopard cub.
Russell, Mr. H. ..	.. 1 Sloth Bear.
Rahman, Mrs. A. ..	.. 1 Leopard cub.

S.

Staton, Mrs. R. ..	.. 1 Rhesus Monkey.
Singh Roy, Mr. S., M.L.C.	.. 1 Common Coot, 1 Greylag Goose, 2 Pintailed Ducks, 1 Crested Pochard.
Sen Gupta, Mr. J. C. ..	.. 1 Marsh Crocodile.
Sinha, Kumar Krishnanand	.. 2 Leopard cubs.

W.

Webster, Mr. T. W. ..	.. 1 Bonnet Monkey.
Wyse, Mr. J. ..	.. 1 Rhesus Monkey.

Y.

Yaqub, Mr. ..	.. 1 Jungle Cat.

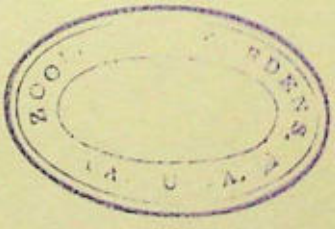
B. G. Press—1934-35—4048D—200.



Government of Bengal

Report of the Honorary Committee for the Management of the Zoological Garden, Calcutta

1934-35



Superintendent, Government Printing
Bengal Government Press, Alipore, Bengal
1935

Report of the Honorary Committee for the Management of the Zoological Garden, Calcutta, for the year 1934-35.

The Committee have the honour to submit their report for the year ending 31st March 1935, supplemented as in former years, among other items by—

(1) the Superintendent's report upon the Zoological collection;
(2) abstract of accounts of ordinary receipts and expenditure; and
(3) monthly returns of visitors and gate receipts and a list of donors and their donations.

The Committee consisted of—

President.

The Hon'ble Sir Philip Lindsay Buckland, KT., F.Z.S., up to 12th July 1934.

The Hon'ble Mr. R. N. Reid, C.S.I., C.I.E., I.C.S., from 13th July 1934 to 31st March 1935.

Vice-President.

W. K. Dods, Esq.

Honorary Secretary and Treasurer.

H. A. Fooks, Esq., from 1st April to 29th October 1934.

E. H. Marshall, Esq., from 30th October 1934 to 31st March 1935.

Nominated Members.

Nawab Sir Asif Qadr Saiyid Wasif Ali Mirza, Khan Bahadur, Mahabat Jang, Nawab Bahadur of Murshidabad, K.C.S.I., K.C.V.O.

Sir David Ezra, KT., F.Z.S., M.B.O.U.

Surendra Nath Laha, Esq.

Dr. Satya Charan Laha, PH.D., F.Z.S.

Lieut.-Col. Sir F. P. Connor, D.S.O., F.R.C.S., I.M.S.

Rai Ajit Nath Das Bahadur, F.Z.S., M.R.A.S.

K. C. De, Esq., C.I.E., I.C.S.

G. Morgan, Esq., C.I.E., F.R.H.S., F.Z.S., M.L.A.

Maharaj-Kumar Uday Chand Mahtab, B.A., of Burdwan.

The Hon'ble Mr. Justice T. Ameer Ali, BAR.-AT-LAW.

Dr. Sir U. N. Brahmachari, Rai Bahadur, M.A., M.D., PH.D.
Herbert Fooks, Esq.
Rai Bijay Krishna Basu Bahadur.
Major-General W. V. Coppinger, C.I.E., D.S.O., M.D., F.R.C.S., I.M.S.
S. C. Lyttelton, Esq.
Nawabzada A. S. M. Latifur Rahman, M.A. (Cantab.), BAR.-AT-LAW.
Lieut.-Col. H. W. Acton, M.D., C.I.E., I.M.S.
Saileswar Singh Roy, Esq., M.L.C.
Dhirendra Nath Ghose, Esq., up to 1st March 1935.
Sudhansu Kumar Mitter, Esq., from 2nd March 1935.
Phanindra Nath Brahma, Esq.
J. K. Clough, Esq., from 2nd August 1934.
A. F. M. Abdul Ali, Esq., M.A., F.R.S.L., from 2nd August 1934.

Ex-officio Members.

The Commissioners of Divisions in Bengal.
The Executive Engineer, Suburban Division, Public Works Department.
The Director of Public Health 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 Director, Civil Veterinary Department, Bengal.
The Professor of Biology and Zoology, Medical College, Calcutta.
The Superintendent of the Royal Botanic Garden, Sibpur.
The Mayor of Calcutta.
The Principal of the Bengal Veterinary College, Calcutta.
The Conservator of Forests, Bengal.

Appointments.—The Hon'ble Mr. R. N. Reid, C.S.I., C.I.E., I.C.S., Member-in-charge of Political and Appointment Departments of the Executive Council of the Government of Bengal, was appointed as President of the Honorary Committee of Management of the Gardens, *vice* Sir P. L. Buckland, K.T., resigned on leaving India for good.

The Committee have to record with great regret the retirement of Sir Philip Buckland who has been President of the Honorary Committee of Management from 29th March 1921 to 12th July 1934. Like his father the Hon'ble Mr. C. E. Buckland, C.I.E., and his grandfather before him, the late C. T. Buckland, I.C.S., both of whom were closely concerned with the Zoological Gardens since its start in 1873. Sir Philip Buckland has, in spite of his manifold duties in other branches of public service, taken a very keen interest in the development and maintenance of the Gardens, which during his term as President, have been expanded and improved very considerably.

The Committee of Management take this opportunity to express their very sincere gratitude for the invaluable service he has rendered to the welfare of the Gardens.

Messrs. J. K. Clough and A. F. M. Abdul Ali were appointed as members of the Committee on 2nd August 1934 and Mr. Sudhansu Kumar Mitter was appointed as a member from 2nd March 1935, *vice* Mr. Dhirendra Nath Ghose, to represent the Calcutta Corporation for the year 1934-35.

Staff.—Several changes took place in the Garden's staff during the year under review. Rai Sahib Somadev Ganguli who had held the post of Superintendent since 1930, retired on pension on the 15th February 1935 and Mr. N. N. Banerjee, the First Assistant Superintendent, was appointed in his place on a year's probation. Khan Sahib S. M. Yaqub, the Second Assistant Superintendent, was promoted to the post of the First Assistant Superintendent and Mr. N. Mukerjee, the Overseer, to the post of Second Assistant Superintendent.

The Committee would also like to place on record their regret at the retirement of Rai Sahib S. Ganguli, who served faithfully and was in various capacities since 9th May 1905.

The following is a list of the superior staff of the Garden at the end of 1934-35 :—

Superintendent—Mr. Nagendra Nath Banerjee, G.B.V.C., F.Z.S., F.R.H.S.

First Assistant Superintendent—Khan Sahib S. M. Yaqub.

Second Assistant Superintendent—Mr. N. Mukerjee, G.B.V.C., F.Z.S., F.L.S., F.R.H.S.

Store-keeper—Babu Jugal Kishore Roy.

Clerk—Babu Tarak Chandra Chatterjee.

Gate-clerk—Babu Bepin Behari Chatterjee.

The menial staff of the Garden at the end of 1934-35 comprised, in addition to temporary men who were engaged as required—

1	Jamader.	1	Cook.
8	Durwans.	1	Head Gardener.
20	Keepers.	2	Cartmen.
14	Gardeners.	1	Nightwatchman.
3	Sweepers.	2	Chaprasis.
1	Carpenter.	1	Syce.
2	Bhistis.	1	Scytheman.

On the whole, the health of the animals, specially of the older inhabitants of the Gardens, continued good. Cases of illness and death are unavoidable in a collection of animals in a tropical climate, but fortunately there were no serious losses. There was no outbreak of epidemics of any kind during the period under review. There were many births amongst the ruminants and also the birth of two lion cubs might be regarded as a fair indication of the satisfactory state of the health of the larger carnivora generally. The death-rate among the birds has sensibly diminished and birth-rate increased. In fact,

throughout the year the standard has been fully maintained both as regards the numbers in the collection and the condition of the animals.

The following new works were undertaken during the year:—

Murshidabad House.—A rather severe storm on the evening of 15th June 1934, caused considerable damage to the northern portion of the outer enclosure of the Murshidabad House as well as to a portion of the Boat House where the big Gharial is now exhibited. This necessitated the reconstruction of the damaged portions of both the houses. In the later part of the year the wire-netting all round the Murshidabad House was renewed and in addition to this several partitions with dwarf walls were provided to facilitate the exhibition of new exhibits.

Sarnomoyi House.—As there was no suitable accommodation for exhibiting new small birds, such as finches, etc., the large aviaries of this house were partitioned and new birds and small finches are now exhibited in the separate aviaries provided therein.

New Island Enclosure.—The dwarf wall round the trench being too low at its maximum water level it was raised by 2 feet to prevent animals escaping out of the enclosure.

Peafowl Pavilion.—This pavilion was thoroughly overhauled; the wire-netting being replaced by interlinked wire-netting, several other improvements were also effected and the wall round the enclosure was raised by 3 feet. The floor was made rat-proof.

Giraffe Enclosure.—The fencing of the Giraffe Enclosure was not sufficiently high and was replaced with a new high fencing.

Superintendent's quarters.—In the later part of the year an estimate was sanctioned for repairing the Superintendent's quarters and the necessary repairs have been carried out.

Barasingha and Barking Deer Enclosures.—A new partition wall and fencing have been constructed.

General annual repairs to the buildings in the Gardens were carried out as usual and alterations to iron work and wood work and the painting of most of the houses were effected.

The flower gardens were well maintained as usual, the gardens being awarded prizes at the Agri-Horticultural Society's Flower Show (Dahlia Exhibition) held on 14th January 1935.

The roads and paths were kept in good order and the main drive was remetalled in parts.

The financial conditions of the Garden are satisfactory inasmuch as the expenditure is balanced by income. The receipts from visitors entering the Gardens showed an increase over the previous year being Rs. 65,055 against Rs. 59,812-4. This, however, is largely due to the Ardhyodaya Yoga festival which fell in February this year after an interval of 27 years. The turnstiles registered a record attendance of 67,271 visitors during the four days of the festival. To relieve the congestion of the people wanting admission at the 5 ordinary turnstiles of the entrance gates, an emergency gate with 6 extra turnstiles was kept open during the four principal days of the festival. Special and efficient sanitary arrangements were made for the comfort and convenience of the visitors.

The following is a comparative statement of visitors and receipts for the last four years:—

	Visitors.	Receipts. Rs.	a.
1931-32	928,501	62,141	6
1932-33	930,004	62,231	6
1933-34	911,621	59,812	4
1934-35	1,011,616	65,055	0

A large number of children under four years of age and school children attended by their teachers, were admitted free. In addition 56,721 persons visited the Garden on free days. A detailed statement of the number of visitors and receipts appears in Appendix B.

The Annual Fancy Fair was held as usual on the 31st December 1934 and 1st January 1935. The turnstiles recorded 20,182 one-anna visitors as against 21,480 visitors on both days in the previous year.

The thanks of the Committee are due to those ladies and gentlemen who have added to the Zoological collection, a list of whom is given in Appendix C. Thanks are also due to those who kindly offered to present animals to the Garden, but whose offers could not be accepted either because the particular species was already sufficiently well represented or owing to want of accommodation.

The Committee also desire to express their thanks to the following railway and steamer companies for kindly conveying the animals belonging to the Garden free of charge:—

East Indian Railway, British India Steam Navigation Company, Limited, Peninsular and Oriental Steam Navigation Company, and River Steam Navigation Company, Limited, through Messrs. Macneill & Co.

As in previous years the Corporation sanctioned a grant in the shape of remission of municipal rates in respect of the Zoological Gardens and out-houses for which the Committee express their thanks but it is a matter of great regret and indeed it caused the Management of the Gardens no small inconvenience and anxieties that owing to financial stringency the Corporation found themselves compelled to reduce the grant from the figure of Rs. 26,233-6 to Rs. 21,904-14 which it had been in the habit of giving over a long series of years.

Thanks are also due to the Officer Commanding and Officers of the 2nd Battalion, 7th Rajput Regiment, stationed at Alipore, for permitting their regimental band to play at the Garden on Tuesday afternoons, free of charge, from 1st March to 31st December 1934.

Owing to the decrease of one rupee visitors on Sunday afternoons the Committee reduced the entrance fee to one anna from 10th March 1935. This has necessitated for financial reasons giving up the Band which played on Tuesday and Sunday afternoons.

The Committee are much indebted to those members of the public who send old and broken down horses to the Zoological Gardens, where they are disposed of under the most humane conditions.

R. N. REID,
President.

E. H. MARSHALL,
Honorary Secretary.

Superintendent's Report.

I have the honour to submit the following report on the existing condition and the progress of the menagerie of the Garden.

The following comparative table shows the number of animals in the Gardens as compared with the last four years :—

Year.	Mammals.	Birds.	Reptiles.
1931-32	372	1,837	126
1932-33	415	2,373	190
1933-34	449	3,024	173
1934-35	508	3,403	164

The standard of collection and of the Gardens has been maintained by the addition of many interesting foreign animals and also by the addition of animals from time to time by gifts and purchases as funds permitted. The health of the animals was satisfactory throughout the year.

The most important acquisition during the year was a pair of Tiger cubs presented by Her Excellency the Countess of Willingdon. They are the very valuable and healthy specimens and are greatly admired by the visitors.

Among other important gifts deserving of special mention were :—

1 Uryal presented by C. H. Pitt, Esq.

2 Tigers presented by Maharani Prafulla Kumari Debi of Bastar State.

1 Tiger cub presented by Mr. S. Chowdhury.

1 Blue and Yellow Macaw presented by Major Jack Meneaude.

1 Marmoset presented by Mrs. McGregor.

1 White-winged Wood Duck presented by Mr. R. I. McAlpin.

1 Fishing Cat presented by Raja of Gouripur.

3 Nilgais presented by Raja of Hetampur.

2 Himalayan Bear cubs presented by Raja Jagat Kishore Acharjya Chowdhury.

1 Hoary Bamboo Rat presented by M. Patzert, Esq.

1 Leopard presented by Raja Manilal Singh Roy Bahadur, C.I.E.

1 Python presented by His Highness the Maharaja of Tripura.

The collection of common Indian animals and birds was maintained in a high state of efficiency and constant supplies were presented by Mr. W. K. Dods, Vice-President of the Garden, to whom the Management of the Calcutta Zoo is much indebted.

The most important purchases during the year were the following :—

7 Tiger cubs.

2 Chakma Baboons.

1 Cat Bears.

1 Grey Lemur.

4 Crested Curassows.

3 Ring-tailed Lemurs.

2 Brow-antlered Deer.

The following animals were received on exchange account during the year :—

From Wellington Zoo, New Zealand.

2 Canadian Geese.
6 Keas.
2 Egyptian Geese.
2 Paradise Ducks.

From Mr. M. Patzert, Rangoon.

3 White-handed Gibbons.
1 Dusky Langur.
1 Thamin Deer.

From Sydney Zoo.

1 Red Kangaroo.
3 Gouldian Finches.
4 Diamond Doves.
3 Peaceful Doves.
2 Bar-shouldered Doves.
4 King Parrots.

From Adelaide Zoo.

2 Common Wombats.
1 Spiny Ant-eater.
2 Many-coloured Parrakeets.

From Dr. S. C. Law.

4 Red-billed Blue Magpies.
5 Himalayan Black-throated Jays.
7 Hardwick's Chloropsis.
5 Gold-fronted Cloropsis.
2 Himalayan Brown-eared Bulbuls.
5 Blue-winged Sivas.
5 Velvet-fronted Nuthatch.
2 Yellow-breasted Babbler.
2 Silver-eared Mesias.
4 Bhutia Bulbuls (Yuhinas).

From a local dealer.

2 Chimpanzees.

From Monsieur J. Delacour.

3 Paradise Ducks.
2 Ashy-headed Geese.
2 Australian Mallards.
2 Meller's Ducks.
1 Red-headed Duck.
2 Black-billed Tree Ducks.
2 Manchurian-eared Pheasants.
2 Amherst Pheasants.
1 Boat bill.
4 Guans.
2 Scarlet Ibises.
1 Red-billed Tree Duck.

The following is a list of animals and birds that were born in the Garden :—

3	Lions.	1	Red Deer.
3	Striped Hyaenas.	4	Four-horned Antelopes.
1	Weeper Capuchin.	3	Sambar Deer.
2	Arabian Baboons.	1	Javan Mouse Deer.
1	Rhesus Monkey.	1	Barbary Sheep.
1	Dusky Langur.	7	Spotted-bill Ducks.
1	Gayal.	7	Sonnerat's Jungle Fowl.
2	Rufous Kangaroos.	1	Argus Pheasant.
1	Bennett's Wallaby.	7	Red Jungle Fowl.
2	Indian Antelopes.	2	Peacock Pheasants.
4	Spotted Deer.	4	Kalij Pheasants.
2	Hog Deer.	1	White-breasted Waterhen.
1	Barasingha Deer.	4	Cockateels.
4	Fallow Deer.	4	White Java Sparrows.

2 Java Sparrows.

The following have bred in the Garden in a wild state :—

Common Mynas.	Ring-necked Parrots.
White-breasted King-fishers.	Cormorants.
Spotted Owlets.	Night Herons.
Black-headed Mynas.	Indian Darters.
White-breasted Waterhens.	Flying foxes.
Indian Koels.	Common Kites.
Pied Mynas.	Cattle Egrets.
Common Babblers.	Indian Tree Pies.

Ring-necked Doves.

Eggs were laid but not hatched by the following birds :—

White Rhea.	Ring-necked Pheasant.
Canadian Goose.	Purple Kalij.
Cheer Pheasants.	Chakar Partridge.
Blyth's Tragopan Pheasant.	White-throated Laughing Thrush.
Australian Mallards.	Kestrel.

Two Indian foxes presented by a gentleman from up-country on 23rd May 1934 developed symptoms of rabies in July and one of them died within 3 days. The carcass was sent to the Raymond Research Laboratory attached to the Veterinary College, Calcutta, for an autopsy and it was confirmed to be a case of positive-rabies. All the other foxes which were in the same cage and were suspected to be infected were destroyed.

A consignment of Sonnerat's Jungle which arrived in the Garden from Madras, carried the infection of " coccidiosis " with them. It was detected and the disease was immediately brought under control by careful attention and proper treatment.

A female Chimpanzee purchased from Messrs. Chapman, Ltd., London, in 1931, was kept in the new Island Enclosure. She took to kindly her new

surroundings and was happy in her life with "Munka," the male orang-outang, but unfortunately she developed, after the death of "Munka" in the previous year "Milliary Tuberculosis" and died on the 7th July 1934 which is much regretted.

Four cases of Cat Distemper occurred during the year under reveiw and before any serious loss was happened the disease was brought under control.

One baby Elephant which was presented by the Maharaja of Dhenkanal, Orissa, had general debility for a considerable time, and developed *Jahar-Bad* (dropsy and oedima), and in spite of all care and attention she died on 23rd July 1934.

The only old surviving specimen of Ostriches which were brought from Hyderabad died during the year.

The following is a list of more important losses during the year :—

1	Brow-antlered Deer.	1	Spiny Ant-eater.
1	Elephant.	1	Greater Bird of Paradise.
2	Chimpanzees.	2	Keas.
1	Mona Monkey.	1	Ostrich.
1	Mandrill.	2	Manchurian-cared pheasants.

The following were sent to :—

Royal Zoological Society's Garden, Dublin.

4	Brahminy Ducks.	12	Cattle Egrets.
2	Lesser Whistling Teals.	4	Purple Coots.
2	Mandarin Ducks.	4	Night Herons.
2	Demoiselle Cranes.	1	Leopard cub.
2	White-necked Storks.	1	Himalayan Bear cub.

12 Rhesus Monkeys.

Taronga Zoological Park Trust, Sydney.

3	Indian Antelopes.	12	Common Mynas.
6	Rhesus Monkeys.	6	Black-crested Yellow Bulbuls.
6	Alexandrine Parrots.	10	Yellow-vented Bulbuls.
6	Ring-necked Parrots.	6	Pekin Robins.
6	Blossom-headed Parrakeets.	6	Shamas.
4	Hill Mynas.	16	Black-headed mannikins.
6	White-crested Laughing Thrushes.	7	Spiced finches.
12	Black-crested Mynas.	6	Indian White eyes.

Zoological Society's Garden, Regent's Park, London.

108	Cattle Egrets.	4	Russell Vipers.
2	Fish Owls.	24	Rat Snakes.
2	Brahminy Kites.	30	Green Snakes.
1	Monal Pheasant.	8	Grass Snakes.
2	Blyth's Tragopan Pheasant.	2	Tree Snakes.
18	Cobras.	22	Geckos.

22 Sand Snakes.

Zoological Society of Scotland, Edinburgh.

2 Indian Elephants.
2 Hoolocks.
6 Chakar Partridges.

Mr. M. Patzert, Rangoon.

1 Monal Pheasant.
1 Koklas Pheasant.
2 Kalij Pheasants.
2 Chakar Partridges.
2 Black Partridges.
2 Amherst Pheasants.
22 Munnias.

Messrs. G. B. Chapman, Ltd., London.

1 Tiger cub.
2 Leopard cubs.
2 Hyaena cubs.
10 Cattle Egrets.
2 Peregrine Falcons.

Wellington Zoological Garden, Wellington.

24 Rhesus Monkeys.

Melbourne Zoological Garden (for Borrough of Shepperton).

12 Rhesus Monkeys.

Mr. Basapa, Singapore.

2 Nilgais.

Monsieur J. Delacour, Marseilles.

3 Cat Bears.
4 Black Partridges.
4 Black-throated Hill Partridges.
6 Sand Grouse.
8 Cheer Pheasants.
6 Blyth's Tragopan Pheasants.
2 Koklas Pheasants.
2 Sonnerat's Jungle Fowl.
3 Tragopan Pheasants.
2 Monal Pheasants.
2 Lesser-pied Hornbills.
46 Cattle Egrets.

Mrs. Boscowan.

5 Black Partridges.

A veterinary dispensary was maintained throughout the year for the treatment of sick and injured animals.

Thanks are due to the Principal, Bengal Veterinary College, Belgachia, Calcutta, and to the Veterinary Adviser to the Government of Bengal for their kind help in several cases.

A post-mortem examination was made on nearly all the important mammals, birds and reptiles that died during the year. Carcasses have also been sent

to the Director of Zoological Survey of India, Indian Museum, and also to the Principal, University College of Science, Ballygunge, for scientific purposes.

A list of the more important cases subjected to pathological diagnosis is given below :—

Anaemia (Jamarbad)—1 Baby Elephant.

Avian Septicaemia—3 White Swans.

Coccidiosis—12 Sonnerat's Jungle Fowl.

Colic—1 Indian Antelope, 2 Red Deer, 1 Barking Deer, 2 Barbary Sheep.

Colic (Billiary)—1 Gayal.

Cat Distemper—2 Leopard Cubs, 1 Golden Cat, 1 Jungle Cat.

Canker—2 Snake-eating Cobras, 5 Cobras, 8 Pythons, 2 Russell Vipers.

Dysentery—4 Hoolocks, 1 White-handed Gibbon, 1 Weeper Capuchin.

Diseases of the liver—1 Red-masked Conure, 1 Hog Badger, 1 Malayan Palm Civet, 1 White-tailed Sea-eagle, 1 King Parrot, 1 Striated Laughing Thrush, 1 Great Bird of Paradise, 1 Orinoco Goose, 1 Green Pigeon, 2 Keas.

Gapes—1 Sonnerat's Jungle Fowl.

Gastritis—1 Indian Gazelle.

Gastro-entritis—1 Leopard cub, 2 Tiger cubs, 1 Weeper Capuchin.

Helminthiasis—1 Sloth Bear.

Heat-stroke—1 Paradise Duck, 1 Egyptian Goose.

Injury—1 Brow-antlered Deer, 4 Flamingoes, 1 Sambar Deer, 1 Four-horned Antelope, 1 Crosoptilon Pheasant, 1 Blyth's Tragopan, 1 Nilgai, 1 Slow Loris, 2 Touracou, 1 Capybara, 1 Mona Monkey, 1 Lapwing, 1 Llama, 1 Tricolour Squirrel, 1 Bronze-winged Pigeon, 1 Crossbill, 1 Zebra Finch, 1 Hunting Cissa, 1 Burmese Peafowl.

Mycosis—2 Mandarin Ducks, 1 Black Partridge, 1 Swainson's Lory, 1 Triangular-spotted Pigeon, 1 Swinhoe Pheasant, 1 Red-headed Pochard, 1 Monal Pheasant, 1 Sandgrouse, 1 White Pintailed Duck, 1 Crosoptilon Pheasant, 1 Ostrich, 1 Capybara, 1 White Peafowl.

Nocardiosis—1 Bennett's Wallaby.

Obstruction of the bowels—1 Himalayan Bear.

Old age—2 Rufous Kangaroos, 2 Wolves (Indian), 1 Capuchin Monkey, 1 Four-horned Antelope, 1 Reed Buck, 1 Red Deer, 1 Bonnet Monkey, 1 Hoolock, 1 Sheldrake, 1 Boat Bill.

Pneumonia—1 Brown Bear, 1 Cat Bear, 1 Gayal Calf, 1 Crested Langur, 2 White-handed Gibbons, 1 Vervet Monkey, 1 Chimpanzee, 1 Hanuman, 1 Wandaroo Monkey, 1 Mandrill, 2 Dusky Langurs.

Rupture of the spleen—1 Lioness.

Rabies—1 Indian Fox.

Tuberculosis—1 Chimpanzee.

N. N. BANERJEE,

Superintendent, Zoological Garden.

APPENDIX A.

I.—Comparative statement of receipts for 1933-34 and 1934-35.

	1933-34.	1934-35.
	Rs. a. p.	Rs. a. p.
Opening balance	4,095 3 1	3,079 11 11
Interest	545 14 6	545 14 6
Donations and subscriptions	148 0 0	1,080 0 0
Entrance receipts	59,812 4 0	65,055 0 0
Rent	10,970 0 0	5,300 0 0
Carriage, rickshaw, etc.	907 10 0	985 0 0
Picnics	167 0 0	147 0 0
Rhino urine	2,499 0 0	2,431 8 0
Miscellaneous receipts	25,564 4 7	22,558 9 8
Government contribution	16,000 0 0	18,000 0 0
Total ..	1,20,709 4 2	1,19,182 11 8
Add—		
Receipts of 31st March (1932-33) paid in on 1st April 1933 (1933-34)	112 0 0	....
Receipts from 29th to 31st March 1934 (1933-34) paid in on 3rd April 1934 (1934-35) ..	....	492 14 0
Total ..	1,20,821 4 2	1,19,675 9 8
Deduct—		
Receipts from 29th to 31st March 1934 (1933-34) not paid in on 31st March 1934 but paid in on 3rd April 1934 (1934-35)	492 14 0	....
Receipts of 30th and 31st March 1935 (1934-35) not paid in on 31st March 1935 but paid in the following year (1935-36)	....	300 4 0
Total ..	1,20,328 6 2	1,19,375 5 8

II.—Comparative statement of expenditure for 1933-34 and 1934-35.

	1933-34.	1934-35.
	Rs. a. p.	Rs. a. p.
Establishment	18,625 8 0	18,606 15 0
Food of animals	35,774 11 9	37,963 10 6
Purchase of animals	17,557 7 6	13,484 8 6
Transport of animals	8,563 14 0	9,641 15 0
Miscellaneous contingencies	8,332 6 6	7,853 14 9
Repairs of roads	1,482 1 0	1,326 14 9
Repairs of buildings	10,125 12 9	7,305 2 0
Garden construction	9,761 15 0	9,728 13 0
Original construction	7,024 13 9	5,312 9 9
Municipal rates and taxes	....	4,328 8 0*
Total ..	1,17,248 10 3	1,15,552 15 3
Closing balance ..	3,079 11 11	3,822 6 5
Grand Total ..	1,20,328 6 2	1,19,375 5 8

* Unadjusted balance for the year 1933-34.

APPENDIX B.

Summary of visitors and gate receipts during the year 1934-35.

Month and year.	Number of visitors.	Receipts. Rs.	a.	p.
1934.				
April	51,235	3,402	6	0
May	52,161	3,372	13	0
June	67,486	4,319	8	0
July	62,039	4,076	15	0
August	60,392	3,914	7	0
September	64,365	4,158	2	0
October	117,577	7,465	12	0
November	66,597	4,372	8	0
December	109,601	7,080	7	0
1935.				
January	134,330	8,577	6	0
February	157,395	9,979	2	0
March	68,438	4,335	10	0
Total ..	1,011,616	65,055	0	0

Free days.

	Number of visitors.
1934.	
16th April	3,477
21st May	3,388
18th June	2,292
16th July	4,135
20th August	3,155
17th September	6,255
1st October	9,746
5th November	4,918
3rd December	5,697
1935.	
28th January	5,194
25th February	5,013
25th March	3,481
Total ..	56,721

APPENDIX C.

List of donors during the year 1934-35.

A

Acooli, Mr. A. C.	1	Sambar Deer.
Allen, Mr. C. H.	1	White-breasted King-fisher.
Acharyya Chowdhury, Raja Jagat Kishore	2	Himalayan Bear cubs.
Ali, Mr. Yakub	1	Russell Viper.

B

Begum, Miss Jahanara	1	Leopard cub.
Boyd, Miss C.	1	Common Budgerigar.
Bhattacharya, Mr. D. P.	1	Leopard cub.
Bond, Mr. G. H. W.	1	Himalayan Bear cub.
Boiled, Mr. H. V.	1	Himalayan Bear cub.
Bannerjee, Mr. S. M.	1	Indian Ant-eater.
Bannerjee, Mr. J. D.	3	Comb Ducks.
Barrett, Mr. H. C.	1	Rhesus Monkey.
Biswas, Babu Promotha Nath ..	1	Marsh Crocodile.
Brown, Mr. C.	2	Canaries.
Bose, Mr. Makhan Lall	1	Python.
Burges, Mr. H.	1	Sloth Bear cub.

C

Chowdhury, Mr. S.	1	Tiger cub.
Company, Kali Film	1	Common Peafowl.
Chowdhury, Mr. C. M., I.F.S. ..	1	Sloth Bear.
Chandmull, Mr.	4	Rhesus Monkeys.
Cherry, Mr. W. G.	1	Indian Ant-eater.
Chatterjee, Babu Jogesh Ch. ..	1	Cobra.
Club, Secretary Ramkrishna Gymnastic	1	Russell Viper.
Chatterjee, Mr. G. B.	1	Young Python.
Chopra, Babu Ralla Ram	1	Leopard, 1 Python, 1 Sloth Bear cub.
Chatterjee, Mr. M. C.	1	Blossom-headed Parrakeet.

D

Das, Mr. P. K. .. .. .. 1 Leopard cub.

Dasi, Sm. Binodini .. .. 2 Bengal Porcupines.

Devi, Maharani Prafulla Kumari of Bastar 2 Tigers.

Duncan, Mrs. A. .. .. .. 1 Large Indian Squirrel.

Dey, Mrs. Gouri .. .. .. 1 Sloth Bear cub.

Director, School of Tropical Medicine .. 16 Rhesus Monkeys.

Dods, Mr. W. K. .. .. 2 Red-winged Crested Cuckoos, 2 Pied Crested Cuckoos, 22 Pheasant-tailed Jacanas, 9 Indian Magpie Robins, 2 Horned Owlets, 110 Cattle Egrets, 8 Crimson-breasted Barbets, 3 Brown-backed Shrike, 1 Red-wattled Lapwing, 107 Cotton Teals, 17 Lineated Barbets, 4 Gold Plovers, 4 Sand Pipers, 6 Blue-cheeked Green Barbets, 5 Black-winged Kites, 4 Blacknaped Orioles, 7 Lesser Whistling Teals, 4 Grey-headed Mynas, 15 Bustard Quails, 1 White-breasted King-fisher, 1 Bengal Green Pigeon, 1 Golden-backed Woodpecker, 3 Bar-tailed Godwits, 2 Stork-billed King-fishers, 1 Ruby Throat, 2 Scops Owls, 1 Spotted Owlet, 1 Red-cheeked Bulbul, 2 Lesser Egrets, 2 Peregrine Falcons, 1 Changeable Hawk Eagle, 1 Ruff, 6 Brahminy Kites, 1 Pale Harrier, 18 Purple Coots, 3 Indian Hares, 12 Garganey Teals, 1 Indian Magpie Robin, 21 Lapwings, 1 Common Tit, 1 Ashy-headed Swallow Shrike, 2 Bronze-winged Jacanas, 2 Pied Harriers, 6 White-eyed Buzzards, 2 Indian Treepies, 6 Marsh Terns, 1 Brown-headed Stork-billed King-fisher, 1 Jungle Cat, 5 Corn Crakes, 2 Crested Serpent Eagles, 1 Common Coot, 1 Crow Pheasant, 4 Orange-headed Ground Thrushes, 2 Hawk Cuckoos, 1 Gold-backed Woodpecker, 1 Indian Roller, 1 Civet Cat, 1 Indian Fish Owl, 1 White-breasted Waterhen, 1 Indian Courser, 3 Painted Snipes, 2 Bengal Foxes, 1 Cinnamon Bittern, 1 Black Cockatoo.

E

Evans, Mrs. M. E. .. .. 2 Blue Budgeregars.

F

Forest Officer, Khulna .. .. 3 Two-banded Monitors, 3 Bengal Monitors, 3 Varanus Flavescens.

Farquar, Mr. J. .. .. 2 Sloth Bear cubs.

G

Gauripur, Raja of .. .. 1 Python, 1 Fishing Cat.

Ganguli, Mr. O. N. .. .. 2 Common Peafowl.

Ghosh, Mr. P. N. .. .. 1 Marsh Crocodile.

H

Halden, Mrs. E.	.. 1 Sloth Bear cub.
Hayden, Mr. B.	.. 1 Striped Hyaena.
Hetampur, Raja of ..	.. 2 Nilgais.
Harvey James, Mr. A. R. K.	.. 1 Leopard cub.
Kindersely, Mr. J. D., I.C.S.	.. 2 Lesser Whistling Teals, 1 Garganey Teal, 1 Common Coot, 1 Wigeon.

L

Law, Mr. G.	.. 1 Spotted Deer.
Levin, Mrs.	.. 1 White-breasted King-fisher.
Law, Dr. S. C., F.Z.S., Ph.D.	.. 2 Young Common Otters.

M

Macgregar, Mrs.	.. 1 Common Marmoset.
Meredith, Mr. R. Roche ..	.. 1 Greater Sulphur-crested Cockatoo.
Mullick, Raja Rajendra Bahadur	.. 1 Saras Crane.
Martin, Mrs. M. Campbell ..	.. 1 Spotted Deer.
Mitchell, Mrs.	.. 1 Spotted Deer.
Moyna, Mr. Madan N. ..	.. 2 Pythons.
Missra, Babu Markandya ..	.. 1 Bonnet Monkey.
Magistrate, District Hooghly	.. 1 Leopard.
Mitter, Mrs. R. N. ..	.. 1 Barking Deer.
Meneaude, Major Jack ..	.. 1 Blue and Yellow Macaw.
Mukherjee, Kumar Sanat Kumar	.. 1 Hanuman.
Marshall, Mr. H. ..	.. 1 Leopard cub.
Mohan Lal, Mr. K. B., Msc., I.F.S.	.. 1 Python.
Macalpin, Mr. R. I. ..	.. 1 White-winged Wood Duck.
Mitter, Mr. S. K. ..	.. 2 Pintailed Ducks.

N

Nicholson, Mr. J. N., I.F.S. ..	.. 1 Sambar Deer.
Nasroji, Mr. K. A. D. ..	.. 1 Python.
Nevill, Mrs. S. W. ..	.. 1 Leopard cub.

P

Patzert, Mr. M. ..	.. 1 Bamboo Rat.
Pant, Mr. J. N. ..	.. 1 Sharpnosed Crocodile.
Pitt, Mr. C. B.	.. 1 Uryal.
Pal, Mr. N., I.F.S. ..	.. 2 Tragopan Pheasants.
Powell, Captain, A. F. B. ..	.. 1 Sloth Bear cub.

R

Robertson, Mr. A. K. ..	.. 1 Leopard cub.
Randolph, Mr. F. ..	.. 2 Bengal Foxes.
Robinson, Mr. E. I. ..	.. 1 Cobra.
Ram, Babu Baijnath ..	.. 1 Macaque Monkey.
Rickford, Mr. D. R. ..	.. 1 Large Indian Civet Cat.

S

Sen, Mrs. A. N.	.. .. ..	1 Barking Deer.
Singh Roy, Raja Bahadur Monilall, C.I.E.		1 Leopard.
Singh Roy, Babu Rajani Lall	..	4 Black-headed Mannikins, 6 Red Munias, 1 Spice Bird.
Sinha Chowdhury, Mr. S. N.	..	2 Leopard cubs, 2 Himalayan Bear cubs, 1 Hog Deer.
Singh Roy, Mr. Saileswar ..	.. ..	5 Gargany Teals.

T

Tripura, His Highness the Maharaja of	..	1 Python.
Tolson, Mr. K. ..	.. ..	1 Himalayan Bear cub.

W

Willingdon, Her Excellency the Countess of		2 Tigers.
Woodward, Mr. J. C.	.. ..	1 Indian Wolf.
Wallace, Mrs. E. B.	.. ..	8 Common Budgeregars, 1 Canary.

B. G. Press—1935-36—7152D—250.



Government of Bengal

Report of the Honorary Committee for the Management of the Zoological Garden, Calcutta 1935-36

Superintendent, Government Printing
Bengal Government Press, Alipore, Bengal
1936

President

The Right Hon. Joseph

G. D. McNair,

from 1st March, 1937

Report of the Honorary Committee for the Management of the Zoological Garden, Calcutta, for the year 1935-36.

The Committee have the honour to submit their report for the year ending 31st March 1936 supplemented, as in former years, by—

(1) the Superintendent's report upon the Zoological collection;
(2) abstract of accounts of ordinary receipts and expenditure; and
(3) monthly returns of visitors and gate receipts and a list of donors and their donations.

The Committee consisted of—

President.

The Hon'ble Sir R. N. Reid, K.C.I.E., C.S.I., I.C.S.

Vice-Presidents.

W. K. Dods, Esq.

Dr. Satya Charan Law, M.A., Ph.D., F.Z.S. (appointed Second Vice-President from 6th February 1936).

Honorary Secretary and Treasurer.

E. H. Marshall, Esq.

Nominated Members.

Nawab Sir Asif Qadr Saiyid Wasif Ali Mirza, Khan Bahadur, Mahabat Jang, Nawab Bahadur of Murshidabad, K.C.S.I., K.C.V.O.

Sir David Ezra, Kt., F.Z.S., M.B.O.U.

Surendra Nath Laha, Esq.

Dr. Satya Charan Law, Ph.D., F.Z.S., up to 5th February 1936.

Lieut.-Col. Sir F. P. Connor, D.S.O., F.R.C.S., I.M.S.

Rai Ajit Nath Das Bahadur, F.Z.S., M.R.A.S.

K. C. De, Esq., C.I.E., I.C.S.

G. Morgan, Esq., C.I.E., F.R.H.S., F.Z.S., M.L.A.

Maharaj-Kumar Uday Chand Mahtab, B.A., of Burdwan.

The Hon'ble Mr. Justice T. Ameer Ali, Bar.-at-Law.
Dr. Sir U. N. Brahmachari, Rai Bahadur, M.A., M.D., Ph.D.
Herbert Fooks, Esq.
Rai Bijay Krishna Basu Bahadur.
Major-General W. V. Coppinger, C.I.E., D.S.O., M.D., F.R.C.S., I.M.S.
S. C. Lyttelton, Esq.
Nawabzada A. S. M. Latifur Rahman, M.A. (Cantab.), Bar.-at-Law.
Lieut.-Col. H. W. Acton, M.D., C.I.E., I.M.S.
Saileswar Singh Roy, Esq., M.L.C.
Sudhansu Kumar Mitter, Esq.
Phanindra Nath Brahma, Esq.
J. A. Clough, Esq.
A. F. M. Abdul Ali, Esq., M.A., F.R.S.L.

Ex-officio Members.

The Commissioners of Divisions in Bengal.
The Executive Engineer, Suburban Division, Public Works Department.
The Director of Public Health 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 Director, Civil Veterinary Department, Bengal.
The Professor of Biology and Zoology, Medical College, Calcutta.
The Superintendent of the Royal Botanic Garden, Sibpur.
The Mayor of Calcutta.
The Principal of the Bengal Veterinary College, Calcutta.
The Conservator of Forests, Bengal.

Appointments.—Dr. Satya Charan Law, M.A., B.L., Ph.D., F.Z.S., M.B.O.U., a senior member of the Honorary Committee of Management of this Garden, was appointed Second Vice-President of the Committee with effect from 6th February 1936.

Obituary.—The Committee lost two of its members during the year under review. The late Lieut.-Col. H. W. Acton, C.I.E., I.M.S., who was appointed a member of the Zoological Garden Committee on the 5th February 1932, died in England in August and the late Mr. Surendra Nath Laha, who was appointed a member of the Committee on the 20th February 1919, died at his Calcutta residence in March. The Committee passed resolutions at their meetings expressing deep regrets.

Staff.—The following is a list of the superior staff of the Garden at the end of 1935-36:—

Superintendent.—Mr. Nagendra Nath Banerjee, C.B.V.C., F.Z.S.

First Assistant Superintendent.—Khan Sahib S. M. Yaqub.

Second Assistant Superintendent.—Mr. N. Mukerjee, C.B.V.C., F.Z.S., F.L.S., F.R.H.S.

Store-keeper.—Babu Jugal Kishore Roy.

Clerk.—Babu Tarak Chandra Chatterjee.

Gate-clerk.—Babu Bepin Behari Chatterjee.

Mr. N. N. Banerjee, who was appointed as Superintendent on the 16th February 1935, was confirmed in his appointment. Khan Sahib S. M. Yaqub was confirmed to the post of First Assistant Superintendent of the Garden and Mr. N. Mukerjee to the post of Second Assistant Superintendent. Babu Jugal Kishore Roy, Store-keeper, was granted four months' privilege leave with effect from 7th December 1935; on return from leave he rejoined his appointment on 1st April 1936.

Babu Tarak Chandra Chatterjee, Clerk, acted as Store-keeper in place of Babu Jugal Kishore Roy from 7th December 1935 to 31st March 1936.

The menial staff of the Garden at the end of 1935-36 comprised:—

1 Jamadar.	2 Bhistis.
8 Durwans.	1 Cook.
20 Keepers.	2 Cartmen.
1 Head Gardener.	1 Night Watchman.
14 Gardeners.	2 Chaprasis.
3 Sweepers.	1 Syce.
1 Carpenter.	1 Scytheman.

In addition temporary men were engaged as required.

Principal events.—To celebrate Their Imperial Majesties' Silver Jubilee the Garden was open free to the public on 6th May. Large numbers of holiday makers had come to Calcutta to witness the celebrations and over 12,000 found time to visit the Garden.

On receipt of the sad news of the death of His Late Most Gracious Majesty King George V, Emperor of India, the Garden, as a mark of respect, was closed on the 21st January 1936. It also remained closed on Tuesday, the 28th January 1936, which was the date of His Late Majesty's funeral.

A resolution expressing sorrow at the death of His Late Majesty and respectful condolence with the Royal Family was passed at the Committee meeting held on the 8th February 1936, all those present standing.

Their Excellencies the Viceroy and the Countess of Willingdon visited the Garden on 7th December 1936. Their Excellencies showed great interest in a number of the exhibits, especially the pair of Himalayan bear cubs ("Bubble" and "Squeak"), a group of tiger cubs and the pair of one-horned Indian rhinoceros which had been received

as presents by Their Excellencies and handed on by them to the Garden.

The general health of the animals during the year was very good, and there was no epidemic. The larger carnivores thrived extremely well and there were no important casualties amongst them. The ruminants maintained excellent health as is shown by their birth rate. For the first time in this Garden a Hoolock Gibbon was born in the Island Enclosure. The birds were in splendid condition and the Himalayan birds stood the heat remarkably well. No important casualties occurred amongst the rare varieties of birds, with the exception of the pink-headed duck which was killed by vermin; a serious loss as it was the only specimen which the Garden possessed.

(*i*) The following new construction was undertaken during the year:—

(1) A new underground drain with 6 inches stoneware pipe was made from the Rhinoceros Enclosure right up to the ornamental lake to discharge the foul water and excess of rain water.

(2) A new six-seat service latrine was built in the Begunbari land for the use of the Garden servants.

(3) New fencing was erected along the Tolly's Nullah on the northern and eastern sides of the Begunbari land.

(4) The old camel shed was dismantled and replaced by a new shed with a steel frame.

(5) The existing elephant shed which had accommodation only for one elephant was extended so as to accommodate the second female baby elephant acquired from Jalpaiguri.

(6) The old shed in the Red Deer Enclosure was removed and a new shed was constructed.

(7) The old shed of the Barking Deer Enclosure was removed and a new shed with three partitions was constructed.

(*ii*) The following improvements were made:—

(1) *Burdwan House.*—This house was completely overhauled and one of the grated partitions was replaced by a reinforced concrete wall. The existing surface drain was remodelled. The old wooden stairs were removed and an iron ladder with railings provided.

(2) All the three sheds in the new extension were provided with ventilators and remodelled.

(3) *Kidderpore (Back) Gate.*—The height of the gate was raised, and it was repaired and painted thoroughly.

(4) *Entrance Lodge and Office.*—Almost all the old wooden pillars in the verandah were renewed. Other woodwork was also renewed and the ceiling, etc., was thoroughly scraped and painted.

(5) *Drill and Mandrill House* was thoroughly repaired; beams, rafters, etc., were painted white.

(6) *Kangaroo House.*—A dwarf wall along the bottom of the fencing was constructed. All the woodwork, iron posts and doors, etc., were painted buff and green.

(7) *Ezra House* was thoroughly repaired and remodelled with partition walls and interlinked wire-netting so as to accommodate 4 different sets of animals.

(*iii*) The following repairs and renewals have been carried out:—

(1) *Dumraon House.*—This house was thoroughly overhauled—the iron bars and gratings in the inner and outer cages were renewed and the whole house inside and outside was colour-washed and painted.

(2) *Gibbay House.*—The whole house was thoroughly repaired, the floor renewed with a concrete bed and the rat holes closed. All the doors and windows, fan-lights, etc., were repaired and painted.

(3) *Murshidabad House.*—The outside wall was cement pointed and the wood and ironwork repaired. Beams, sashes, rafters and the main door, etc., were painted and repaired.

(4) *Sarnomoyi House.*—Thorough repairs were done. The woodwork of the cages and inner netted doors, etc., were painted white.

(5) Petty repairs were also done to the following:—

Pig Enclosure, Rhinoceros Enclosure, Elephant Stand, Mullick House, Committee Room, Reptile House, Tapir Enclosure, Rodent House, Jhind House, Schwendler House, Refreshment Pavilion and Kitchen, Gayal Enclosure, etc.

The financial position of the Gardens may be considered satisfactory. Entrance receipts show a drop as compared with last year of Rs. 7,577-5 but this is partly accounted for by the fact that last year a very large number of villagers visited the Gardens during the Ardhyodaya Yoga festival which was held in February after an interval of 27 years. Also, this year the charges of one rupee and four annas for Sunday visitors were discontinued.

The following is a comparative statement of visitors and receipts for the last four years:—

	Visitors.	Receipts.	
		Rs.	a.
1932-33	930,004	62,231	6
1933-34	911,621	59,812	4
1934-35	1,011,616	65,055	0
1935-36	919,172	57,477	11

The Corporation of Calcutta sanctioned a grant of Rs. 26,233-6 to the Garden for the year under report and the amount of the rate bills in respect of the Garden was adjusted against this grant as the rate bills fell due. The Committee desire to express their thanks to the Corporation of Calcutta for their generous contribution. As regards the amount of Rs. 4,328-8, being the unadjusted balance on account of rates and taxes for the year 1934-35, when the Corporation reduced their grant by 16½ per cent., the Committee have made a representation to the Corporation to restore their grant in full for the above year and in view of the fall in the entrance receipts, etc., it is earnestly hoped that the Corporation will accede to this request.

A large number of children under four years of age and school children attended by their teachers, were admitted free. In addition

60,377 persons visited the Garden on free days. A detailed statement of the number of visitors and receipts appears in Appendix B.

The Annual Fancy Fair was held as usual on the 31st December 1935 and 1st January 1936. The turnstiles recorded 19,740 one-anna visitors as against 20,182 visitors on both days in the previous year.

The thanks of the Committee are due to those ladies and gentlemen who have made gifts to the Zoological collection. A list is given in Appendix C. Thanks are also due to those who kindly offered to present animals to the Garden, but whose offers could not be accepted either because the particular species was already sufficiently well represented or owing to want of accommodation.

The Committee also desire to express their thanks to the following Railways and Steamer Companies for kindly conveying the animals belonging to the Garden free of charge:—

East Indian Railway, British India Steam Navigation Company, Limited, and Rivers Steam Navigation Company, Limited.

The Flower Garden was well maintained, and there was a particularly good show of annuals. The Garden was awarded several prizes for a number of exhibits sent to the Agri-Horticultural Society's annual exhibition.

Thanks are due to the Commanding Officer and Officers of the 2nd Battalion, 7th Rajput Regiment, stationed at Alipore, for permitting their regimental band to play at the Garden on Tuesday afternoons, free of charge, from 12th January 1936 to 19th February 1936.

The Committee is also much indebted to those members of the public who sent old or broken down horses to the Zoological Gardens, where they were destroyed under the most humane conditions.

R. N. REID,
President.

G. R. DODS,
Honorary Secretary.

SUPERINTENDENT'S REPORT.

I have the honour to submit my report on the condition and progress of the Zoological collection.

The following comparative table shows the numbers of the various collections during the last four years :—

Year.		Mammals.	Birds.	Reptiles.
1932-33	..	415	2,373	190
1933-34	..	449	3,024	173
1934-35	..	508	3,403	164
1935-36	..	450	2,195	113

Important additions to the collection during the year were two American Bears sent by Mr. Frank Buck from America as presents. These animals prove a great attraction to visitors.

Among other gifts deserving special mention were :—

2 Indian Wolf Cubs, presented by T. N. Mullick, Esq.
2 Indian Wild Pigs, presented by E. P. W. Nichole, Esq.
3 Burmese Peafowls, presented by M. Patzert, Esq.
1 Tiger (male), presented by Babu Basant Narayan Singh.
2 Nilgais (female), presented by Raja Sahib of Sarangarh.
1 Tiger Cub (male), presented by C. F. Waterfall, Esq., C.I.E., I.C.S.
2 Pelicans, presented by W. Price, Esq.
1 Spotted Tiger Civet, presented by Messrs. Manton & Co.
1 Leopard Cat, presented by Mrs. G. A. R. Hill.
5 Painted Storks, presented by Dr. S. C. Law.
9 Painted Storks, presented by Sir David Ezra.
1 Hog Deer, presented by Maharaj-Kumari Ela Devi.

The Management of the Garden are also greatly indebted to Mr. W. K. Dods, the Vice-President of the Garden for his generous and constant supplies of aquatic and other birds and animals.

Important purchases during the year were the following :—

1 Tiger (cub).
2 Zebras (male and female).
2 Blue Gnus.
4 Lion-tailed Monkeys.
3 Camels.
4 Great Kangaroos.
2 Rufous Kangaroos.
2 Tibetan Lynxes.
1 Hunting Leopard.
1 Brow-antlered Deer.
2 Cat Bears.
1 Wart Hog.
1 Maroon Langur.
1 Mrs. Hume's Pheasant.

2 Yellow Baboons.
3 Samango Monkeys.
2 Chacma Baboons.
1 Rock Rabbit.

6 Paradise Cranes.
4 Spur-winged Geese.
6 Egyptian Geese.
4 Kirk's Francolin.

40 Flamingoes.

The following animals and birds were received on exchange account during the year :—

From Messrs. Chapman, Ltd.—

1 Llama.

From Dr. S. C. Law—

4 Black-throated Hill Partridges. | 1 Argus Pheasant.
4 Indian Crimson Tragopan Pheasants.

From Mr. T. D. Bannerjee—

2 Lechwe Water Bucks.

From Monsieur J. Delacour.

1 Rosy-billed Duck.
2 White-faced Wood Ducks.

2 Black-billed Tree Ducks.
2 Chestnut-breasted Teals.

1 Magellan Goose.

From Sydney Zoo—

2 Rufous Kangaroos. | 2 Black-backed Piping Crows.

From London Zoo—

1 Llama. | 1 Porter's Blackish Tortoise.

From Alfred Ezra, Esq.—

4 Mute Swans.

From Lucknow Zoo—

1 Indian Wolf.

From Edinburgh Zoo—

1 Chimpanzee.

From Zoological Society, Bristol—

4 Mute swans.

The following is a list of animals and birds that were born in the Gardens :—

4 Leopards.	2 Gayals.
7 Spotted Deer.	5 Fallow Deer.
1 Red Deer.	3 Hog Deer.
5 Barking Deer.	3 Sambhar Deer.
1 Barsingha Deer.	1 Brow-antlered Deer.
2 Four-horned Antelopes.	11 Indian Antelopes.
3 Barbary Sheep.	3 Javan Mouse Deer.
3 Duskey Langurs.	2 Arabian Baboons.
1 Hoolock.	4 Peacock Pheasants.
4 Silver Pheasants.	2 Crestless Fireback Pheasants.
1 Reeve's Pheasant.	2 Nepal Kalij Pheasants.
5 Sonnerat's Jungle-fowl.	1 White Peafowl.
2 Cockateels.	4 Fischer Love Birds.
6 Java Sparrows.	1 Bar-shouldered Dove.
2 White Doves.	4 Mute Swans.
1 Indian Magpie Robin.	1 White Java Sparrow.

The following have bred in the Garden in a wild state :—

White-breasted King-fisher.	Spotted Owlet.
Common Mynas.	Common Crows.
Common Kites.	Pied Mynas.
White-breasted Water-hen.	Lesser Whistling Teal.
Flying Foxes.	Cormorants.
Night-herons.	Spotted Doves.
Ring-necked Parrot.	Indian Tree-pie.
Indian Koel.	Common Pigeon.
Common Squirrel.	Indian Peafowl.
Moor-hen.	Purple Coot.

Indian House Sparrow.

Eggs were laid but not hatched by the following birds :—

Emu.	Mute Swan.
White Rea.	Canadian Geese.
Red-crested Wood Quail.	Pelican.
Ring-necked Pheasant.	Cheer Pheasant.
Blyth's Tragopan Pheasant.	Argus Pheasant.
Budgeregar.	Sulphur-crested Cockatoo.
Emerald Dove.	White Pheasant.
Purple Kalij.	Nicobar Pigeon.

The following were sent to :—

Zoological Society's Garden, Regent's Park, London.

3 Indian Wild pigs.
120 Cattle Egrets.
6 White-necked Storks.
12 Brahminy Ducks.
4 Saras Cranes.
27 Russell's Vipers.
4 Banded Kraits.
12 Green Snakes.
2 Adjutant Birds.
6 Painted Storks.
12 Purple Coots.
6 Demoiselle Cranes.
2 Black-necked Storks.
10 Cobras.
2 Tree Snakes.
17 Rat Snakes.

Zoological Society of Scotland, Edinburgh.

3 Indian Antelopes.

Taronga Zoological Park Trust, Sydney.

8 Rhesus Monkeys.
2 Adjutant Birds.
12 Cattle Egrets.
2 Demoiselle Cranes.
2 White-crested Kalij Pheasants.

The Hall Institute, Melbourne.

36 Rhesus Monkeys.

The Bengal Veterinary College, Belgachia, Calcutta.

1 Camel
1 Lion.

Rotterdam Zoo.

1 Tiger.

Hobart Zoo, Tasmania.

22 Rhesus Monkeys.

Lucknow Zoo.

1 Gold Pheasant.

Monsieur J. Delacour, Marseilles.

9 Blyth's Tragopan Pheasants.
4 Indian Crimson Tragopans.
1 Argus Pheasant.
25 Cotton Teals.
12 Lesser Whistling Teals.
36 Cattle Egrets.

Mr. Alfred Ezra, London.

75 Cotton Teals.

Mr. S. D. Gladstone, London.

3 Red Jungle-fowl.

Dr. H. Leighton-Jones, Australia.

8 Rhesus Monkeys.

Mr. C. Schulz, Arusha.

3 Indian Antelopes.
3 Spotted Deer.
4 Saras Cranes.
4 Demoiselle Cranes.
2 Adjutant Birds.
4 Gold Pheasants.
12 Mandarin Ducks.
4 Silver Pheasants.
2 Crestless Fireback Pheasants.
2 Argus Pheasants.
2 Peacock Pheasants.
2 Cheer Pheasants.
2 Malayan-crested Fireback Pheasants.

Raja of Talcher.

1 Red Deer.

Dr. S. C. Law.

8 Flamingoes.
2 Purple Kalij Pheasants.
2 Blyth's Tragopan Pheasants.
1 Sonnerat's Jungle-fowl.
1 Peacock Pheasant.
4 Purple Coots.

Mr. M. Patzert, Rangoon.

2 Cat Bears.
1 Chakar Partridge.

Mr. T. D. Banerjee.

2 Himalayan Bear cubs.
1 Nilgai.
1 Hog Deer.
1 Barking Deer.
2 Striped Hyaenas.
2 Indian Antelopes.
1 Gharial.
2 Four-horned Antelopes.
6 Demoiselle Cranes.

The following animals were captured in the Gardens during the year :—

1 Entellus Monkey.
1 Red-faced Monkey.
1 Rhesus Monkey.
7 Vultures.

The Garden sustained a loss from the depredation of vermin amongst the stock, particularly of aquatic birds, which were kept in different places and water enclosures. The most serious loss amongst the 53 birds was the last remaining Pink-headed Duck which was much regretted. A couple of wild Mungoose and Civet cats as well as a large number of water rats, House rats and Field rats were killed by means of systematic raids throughout the Gardens.

As the common crows and kites were a source of trouble to the inmates of the Garden, two cooly boys were engaged from time to time to drive them away when food was being given, particularly to the birds and animals in the Hoolock Island, New Extension, Rhino enclosure, Big Lake and Ornamental lake. Two new-born cygnets were taken away by a kite from the south bank of the Ornamental Lake opposite the Ezra House and a baby Hoolock was also killed by a kite. Two Crow-traps were set up at different places in the Garden with effective results; it has been found, however, that although approximately 3,000 crows and 24 kites were trapped and killed during the year, their number in the Garden never appeard to be any less.

The following is a list of the more important deaths :—

1 Pigmy Hog.
1 Black-headed Lemur.
1 Barking Deer (black).
1 Zebra.
1 Tiger (very old).
1 Great Wallaroo.
1 Mrs. Hume's Pheasant.
1 White Crane.
4 King Parrots.
1 Red-shouldered Marsh Bird.
1 Mandrill.
1 Llama.
2 Great Kangaroos.
1 Chimpanzee.
1 Black-faced Spider Monkey.
2 Tibetan Lynxes.
2 Mikado Pheasants.
1 Reeve's Pheasant.
1 Wonga Wonga Pigeon.
2 Magellan Geese.

The following is a list of birds killed by vermin :—

1 Pink-headed Duck.
4 Mandarin Ducks.
3 Pin-tailed Ducks.
8 White-eyed Pochards.
5 Tufted Pochards.
13 Garganey Teals.
2 Red-headed Pochards.
2 White-faced Wood Ducks.
2 Wigeon.
1 Gadwall.
2 Chestnut-breasted Teals.
1 Black-headed Ibis.
1 African Shell Duck.
1 Common Teal.
2 Shovellers.
1 Large White Egret.
3 Spotted-billed Ducks.
1 White-cheeked Bulbul.

The following animals and birds were sold from the Garden :—

1 Black Swan.	2 Barbary Sheep.
1 Mute Swan.	2 Red Kangaroos.
6 Australian Crested Doves.	1 Fallow Deer.
1 Elephant.	1 Great Kangaroo.
1 Camel.	2 Ring-tailed Lemur.

A veterinary dispensary was maintained throughout the year for the treatment of sick and injured animals. The post of Salutri was revived during the year, as conditions had changed, and a qualified Veterinary Assistant Surgeon was appointed to the post in January 1936.

Thanks are due to the Principal, Bengal Veterinary College, Belgachia, Calcutta, and to the Veterinary Advisor to the Government of Bengal for their kind help in several cases.

A post-mortem examination was made of nearly every important animal that died during the year and all carcasses were, as usual, sent to the Director, Zoological Survey of India, The Indian Museum or to the Principal, University College of Science, Calcutta, for scientific purposes.

A list of the more important cases which were subjected to pathological diagnosis is given below :—

Bad moulting—6 Cotton teals, 2 Himalayan Black-throated Jays.

Coccidiosis—1 Red jungle-fowl, 1 Ring-necked pheasant.

Cat Distemper— 1 Leopard cub, 2 Tibetan Lynxes.

Canker—1 Snake-eating cobra, 3 Cobras, 2 Pythons.

Diarrhœa and Dysentery—2 White-handed Gibbons, 8 Hanumans.

Diseases of the liver—1 Red-sided Eclectus, 3 Sand Grouses, 3 Red-billed Blue Magpies, 1 Zebra, 4 King parrots, 1 Black-headed Connure, 1 Red-headed Cardinal, 2 Sloth Bear cubs, 1 Red-bellied Flying Squirrel, 1 Rose-hill Parrakeet.

Gapes—1 Burmese peafowl.

Gastro-entritis—1 Himalayan Bear, 1 Fishing Cat.

Helminthiasis—4 Sloth Bears.

Heat stroke—1 Common Marmoset, 1 Magellan goose, 1 Red-billed Chough, 1 Egyptian goose, 6 Blyth's Tragopans, 1 Micado pheasant.

Injury—1 Hyæna, 1 Peacock pheasant, 1 Verbet monkey, 1 Negro monkey, 2 Wallabies, 1 Yellow-breasted mixornis, 1 Javan parrakeet, 1 Mute swan, 1 Plum-headed finch, 3 Grey-winged ouzels, 1 Reeve's pheasant, 1 Mandrill, 1 Common marmoset, 1 Demoiselle crane.

Metritis—1 Four-horned antelope.

Mycosis—2 Mandarin ducks, 1 Koklas pheasant, 1 Crestless Fireback pheasant, 1 Solid-billed Hornbill, 1 Micado pheasant, 1 Green Imperial pigeon, 1 Cheer pheasant, 1 Wonga Wonga pigeon, 1 Monal pheasant, 1 Reeve's pheasant, 1 Manchurian eared pheasant, 2 Kalij pheasants, 1 Burmese peafowl, 1 Mrs. Hume's pheasant, 1 Peacock pheasant, 1 Magellan goose, 1 White crane, 1 Mute swan.

Old age—1 Wolf (Indian), 1 Lioness, 1 Pigmy hog, 1 Red-shouldered Marsh bird, 1 White Rhesus monkey, 1 Tiger.

Pneumonia—1 Himalayan bear, 1 Black-headed Lemur, 3 Dusky Langurs, 1 Rufous Kangaroo, 1 Chimpanzee, 1 Weeper Capuchin, 1 Slender Loris, 1 Hanuman, 1 Great Kangaroo.

Paralysis—1 White eye-browed Guan.

Tuberculosis—1 Great Kangaroo, 1 Black-faced spider monkey.

Ulcer (Gastric and Intestinal)—1 Tiger.

Wounds—1 Llama.

N. N. BANERJEE,

Superintendent, Zoological Garden.

APPENDIX A.

I.—Comparative statement of receipts for 1934-35 and 1935-36.

Heads and Items.	1934-35.	1935-36.
	Rs. a. p.	Rs. a. p.
Opening balance	3,079 11 11	3,822 6 5
Interest	545 14 6	545 14 6
Donations and subscriptions	1,080 0 0	182 0 0
Entrance receipts	65,055 0 0	57,477 11 0
Rent	5,300 0 0	9,100 0 0
Carriage, rickshaw, etc.	985 0 0	1,218 0 0
Picnics	147 0 0	152 0 0
Rhino urine	2,431 8 0	2,761 8 0
Miscellaneous receipts	22,558 9 3	12,772 1 6
Government contribution	18,000 0 0	20,000 0 0
Total ..	1,19,182 11 8	1,08,031 9 5
Add—		
Receipts from 29th to 31st March 1934 (1933-34) paid in on 3rd April 1934 (1934-35) ..	492 14 0	..
Receipts of 30th and 31st March 1935 (1934-35) paid in on 2nd April 1935 (1935-36) ..	..	300 4 0
Total ..	1,19,675 9 8	1,08,331 13 5
Deduct—		
Receipts of 30th and 31st March 1935 (1934-35) not paid in on 31st March 1935 but paid in on 2nd April 1935 (1935-36)	300 4 0	..
Receipts of 31st March 1936 (1935-36) not paid in on 31st March 1936 but paid in the following year (1936-37)	..	132 13 0
Total ..	1,19,375 5 8	1,08,199 0 5

II.—Comparative statement of expenditure for 1934-35 and 1935-36.

	1934-35.	1935-36.
	Rs. a. p.	Rs. a. p.
Establishment	18,606 15 0	17,348 13 0
Food of animals	37,963 10 6	33,028 7 0
Purchase of animals	13,484 8 6	11,146 2 6
Transport of animals	9,641 15 0	5,818 10 6
Miscellaneous contingencies	7,853 14 9	4,066 12 11
Repairs of roads	1,326 14 9	144 1 6
Repairs of buildings	7,305 2 0	9,064 14 0
Garden construction	9,728 13 0	9,470 7 6
Original construction	5,312 9 9	3,913 9 6
Municipal rates and taxes	*4,328 8 0	..
Total ..	1,15,552 15 3	94,001 14 5
Closing balance	3,822 6 5	14,197 2 0
Grand Total ..	1,19,375 5 8	1,08,199 0 5

*Unadjusted balance for the year 1933-34.

APPENDIX B.

Summary of visitors and gate receipts during the year 1935-36.

Month and year.	Number of visitors.	Receipts. Rs.	a.
1935.			
April	56,986	3,562	12
May	44,744	2,796	12
June	57,464	3,593	3
July	61,994	3,876	4
August	62,356	3,898	4
September	70,498	4,407	12
October	1,19,308	7,460	4
November	72,799	4,551	4
December	1,31,705	8,243	15
1936.			
January	1,10,499	6,908	6
February	69,899	4,369	3
March	60,926	3,809	12
Total ..	9,19,172	57,477	11

Free days.

	Number of visitors.
1935.	
8th April	3,206
6th May	12,625
10th June	3,648
8th July	3,412
19th August	4,787
16th September	4,291
21st October	5,035
18th November	5,057
16th December	6,207
1936.	
20th January	4,741
17th February	4,436
16th March	3,332
Total ..	60,777

APPENDIX C.

List of donors during the year 1935-36.

A

Augustine, Miss	2 Common otters.

B

Banerjee, Mr. J. D.	1 large Indian Squirrel.
Banerjee, Mr. Krishna Das	1 Sloth Bear
Bose, Mr. Sarat Ch.	1 Himalayan Bear (cub).
Briant, Mr. L. H.	1 Sloth Bear (cub)
Brown, Mr. C.	1 Alexandrine Parrot.
Buck, Mr. Frank	2 American Bears.
Belchur, Mr. C. A.	1 Macaque Monkey.
Barton, Mrs. P.	1 Macaque Monkey.

C

Craven, Mr. L.	1 Gharial (Young).
Cutter, Mrs. F. R.	1 Sloth Bear (cub).
Chowdhury, Sir Chhayuram Kt., C.I.E. ..	1 Sambar Deer.
Cooch Behar, Maharaj Kumari Ela Devi ..	1 Hog Deer.

D

Dickens, Miss M	1 Four-horned Antelope.
Das, Mr. T. C.	1 Barking Deer.
D'Silva, Mr. L. G.	2 Sloth Bear (cubs).
Director, Calcutta School of Tropical Medicine	18 Rhesus Monkeys.
Dods, Mr. W. K.	5 Javan Mouse Deer, 5 Crimson-breasted Barbets, 7 Indian Tree Pies, 4 Ashy-headed Swallow Shrikes, 1 Spotted Owlet, 1 Hoopo, 32 Cattle Egrets, 2 Ruffs, 22 Pheasant tailed Jacanas, 3 Lineated Barbets, 11 Blue-cheeked green Barbets, 6 Orange-headed ground Thrushes, 2 Indian Mungoose, 3 White-breasted Waterhens, 9 Sand Pipers, 108 Cotton Teals, 13 Lesser whistling Teals, 20 Gargeny Teals, 8 Crested Serpent Eagles, 4 White-eyed Buzzards, 12 Red-wattled Lapwings, 1 Common Coot, 2 Golden-beacked Woodpeckers, 3 Bengal Porcupines, 1 Pochard, 1 White-tailed Sea Eagle, 2 Indian Koels, 1 White-bellied Sea Eagle, 1 Serpent Eagle, 8 Brahminy Kites, 15 Painted Snipes, 3 Marsh Terns, 23 Bustard Quails, 42 Purple Coots, 7 Ruddy Crakes, 8 Corn Crakes, 5 Black-naped Orioles, 1 Coral-billed Pigeon, 5 Gold Plovers, 2 Common Teals, 1 Jungle Cat, 3 Black-winged Kites, 1 Minivet, 7 Pied Harriers, 5 Indian Magpie Robbins, 19 Indian Rollers, 5 Indian Water rails, 1 Common Otter, 1 Brown-backed Shrike, 6 Yellow-wattled Lapwings, 1 Little Bittern, 2 Indian Coursers, 1 Blue Heron, 6 Ringnecked Plovers, 7 Snippets, 1 Rubby Throat.

E

Ezra, Sir David, Kt. .. .. 1 Macaque Monkey, 9 Painted Storks.
Ekbalpore Police Station, The officer-in-charge. 1 Bonnet Monkey.

G

Gow, Mrs. H. .. .. 1 Spotted Deer (young).
Gill, Mr. H. W. .. .. 1 Common Peafowl (young).

H

Hill, Mrs. G. A. R. .. .. 1 Leopard Cat.
Hamid, Mr. A. .. .. 1 Rhesus Monkey.

J

Jemur, Mr. C. H. .. .. 1 Rhesus Monkey.

K

Khan, Mr. B. N. .. .. 1 Marsh Crocodile.

L

Lal, Mr. Srikishan .. .. 1 Hanuman.
Law, Dr. S. C. .. .. 5 Painted Storks.

M

Mukherjee, Babu Banku Behari .. 1 Hanuman.
Mukherjee, Mr. B. D. .. .. 2 Leopards.
Mukherjee, Mr. S. C. .. .. 1 Sharp-nosed Crocodile.
Mandal, Babu Kumar Krishna .. 2 Cobras.
Mullick, Mr. T. N. .. .. 2 Indian Wolves (cubs).
Meston, Mr. D. G. .. .. 1 Leopard cub, 1 Sloth Bear cub.
Manton & Co., Messrs. .. .. 1 Spotted Tiger civet.

N

Nichole, Mr. E. P. W. .. .. 2 Indian Wild Pigs.

P

Price, Mr. W. .. .. 2 Pelicans (young).
Patzert, Mr. M. .. .. 3 Burmese Peafowl.

S

Singh Roy, Mr. S., M. L. C. .. .. 1 Bar-headed Goose, 3 Brahminy Ducks.
Sinha, Chowdhury, Mr. S. N. .. 2 Hog Deer.
Singh, Babu Basanta Narayan .. 1 Tiger.
Sole, Mr. .. .. 1 Indian Ratel.
Sarangarh, Raja of .. .. 2 Nilgais.

T

Tagore, The Hon'ble Maharaja Sir P. C., KT., K.C.I.E. .. .. 1 Spotted Deer.

V

Vadon, Miss M. .. .. 1 Gharial (young).

W

Wood, Mr. C. H. .. .. 1 Python (young), 1 Fishing Cat.
Waterfall, Mr. C. F., C.I.E., I.C.S. .. 1 Tiger (cub).

Z

Zorab, Mr. L. H. .. .. 1 Tree Snake.

B. G. Press—1936-37—6138D—300.



Government of Bengal

Report of the Honorary Committee for the Management of the Zoological Garden, Calcutta 1936-37

Superintendent, Government Printing
Bengal Government Press, Alipore, Bengal
1937

Report of the Honorary Committee for the Management of the Zoological Garden, Calcutta, for the year 1936-37.

The Committee have the honour to submit their report for the year ending 31st March 1937 supplemented, as in former years, by—

(1) the Superintendent's report upon the Zoological collection;

(2) abstract of accounts of ordinary receipts and expenditure; and

(3) monthly returns of visitors and gate receipts and a list of donors and their donations.

The Committee consisted of—

President.

The Hon'ble Sir R. N. Reid, K.C.S.I., K.C.I.E., I.C.S., up to 28th February 1937.

The Hon'ble Mr. Justice G. D. McNair, from 1st March to 31st March 1937.

Vice-Presidents.

W. K. Dods, Esq., C.M.Z.S., M.B.O.U.

Dr. Satya Charan Law, M.A., Ph.D., F.Z.S., Second Vice-President.

Honorary Secretary and Treasurer.

E. H. Marshall, Esq., up to 31st May 1936.

H. A. Fooks, Esq., from 1st June to 19th August 1936, and also from 10th November 1936 to 31st March 1937.

G. R. Dods, Esq., from 20th August to 9th November 1936.

Nominated Members.

Nawab Sir Asif Qadr Saiyid Wasif Ali Mirza, Khan Bahadur, Mahabat Jang, Nawab Bahadur of Murshidabad, K.C.S.I., K.C.V.O.

Sir David Ezra, Kt., F.Z.S., M.B.O.U.

Rai Ajit Nath Das Bahadur, F.Z. S., M.R.A.S.

K. C. De, Esq., C.I.E., I.C.S.

G. Morgan, Esq., C.I.E., F.R.H.S., F.Z.S., M.L.A.

Maharaj-Kumar Uday Chand Mahtab, B.A., of Burdwan.

The Hon'ble Mr. Justice T. Ameer Ali, Bar.-at-Law.

Dr. Sir U. N. Brahmachari, Rai Bahadur, M.A., M.D., Ph.D.

S. C. Lyttelton, Esq.

Rai Bijay Krishna Basu Bahadur.

Nawabzada A. S. M. Latifur Rahman, M.A. (Cantab.), Bar.-at-Law.
Saileswar Singh Roy, Esq., M.L.C.
Sudhansu Kumar Mitter, Esq.
Phanindra Nath Brahma, Esq.
J. A. Clough, Esq.
A. F. M. Abdul Ali, Esq., M.A., F.R.S.L.

Ex-officio Members.

The Commissioners of Divisions in Bengal.
The Executive Engineer, Suburban Division, Public Works Department.
The Director of Public Health 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 Director, Civil Veterinary Department, Bengal.
The Professor of Biology and Zoology, Medical College, Calcutta.
The Superintendent of the Royal Botanic Garden, Sibpur.
The Mayor of Calcutta.
The Principal of the Bengal Veterinary College, Calcutta.
The Conservator of Forests, Bengal.

Appointments.—Several changes took place in the course of the year under review. The Hon'ble Mr. Justice G. D. McNair, Judge, Calcutta High Court, was appointed as President of the Honorary Committee of Management of the Gardens, *vice* the Hon'ble Sir R. N. Reid, K.C.S.I., K.C.I.E., I.C.S., resigned.

Mr. H. A. Fooks was appointed as Honorary Secretary and Treasurer of the Honorary Committee of Management of the Garden, *vice* Mr. E. H. Marshall resigned on leaving India for good.

Mr. G. R. Dods was appointed as Honorary Secretary and Treasurer with effect from 20th August to 9th November 1936, during the absence of Mr. H. A. Fooks, on leave..

On return from leave Mr. H. A. Fooks resumed the duties of the Honorary Secretary and Treasurer with effect from the 10th November 1936, *vice* Mr. G. R. Dods.

The Committee have to record their deep regret at the departure of the Hon'ble Sir R. N. Reid, K.C.S.I., K.C.I.E.., I.C.S., who has been the President of the Honorary Committee of Management from 13th July 1934 to 28th February 1937. They, however, take this opportunity to place on record their high appreciation of his valuable services and keen interest in the welfare and improvement of the Gardens and heartily congratulate him on his appointment as Governor of Assam.

The Committee in accepting with regret the resignation tendered by Mr. E. H. Marshall of the office of the Honorary Secretary and Treasurer, placed on record at their meeting held on 18th April 1936

their regret at his loss and their appreciation of his valued services and they wished him good luck in his retirement.

Major-General W. V. Coppinger, C.I.E., M.D., D.S.O., I.M.S., and Lt.-Col. Sir F. P. Connor, D.S.O., F.R.C.S., I.M.S., having left India with no intention of returning, their names were removed from the list of Committee members.

Obituary.—The Committee passed resolutions at their meetings held on 18th April 1936 and 13th March 1937 expressing their regret at the death of (1) Kumar Surendra Nath Law, and (2) Rai B. K. Basu Bahadur, respectively. Kumar Surendra Nath Law was appointed a member of the Committee on 20th February 1919 and continued till April 1936. The Rai Bahadur was a member of the Committee from 9th April 1930 to 23rd February 1937.

Staff.—The following is a list of the superior staff of the Garden at the end of 1936-37—

Superintendent.—Mr. Nagendra Nath Banerjee, G.B.V.C., F.Z.S.

First Assistant Superintendent.—Khan Sahib S. M. Yaqub.

Second Assistant Superintendent.—Mr. N. Mukerjee, G.B.V.C., F.Z.S., F.L.S., F.R.H.S.

Store-keeper. Babu Jugal Kishore Roy.

Clerk.—Babu Tarak Chandra Chatterjee.

Gate-clerk.—Babu Bepin Behari Chatterjee.

Babu Tarak Chandra Chatterjee was granted one month's privilege leave with effect from 3rd January 1937. He rejoined his appointment on 2nd February 1937.

The menial staff of the Garden at the end of 1936-37 comprised:—

1 Salutri.
1 Jamadar.
8 Durwans.
20 Keepers.
1 Head Gardener.
14 Gardeners.
3 Sweepers.
1 Carpenter.
2 Bhistis.
1 Cook.
2 Cartmen.
1 Night Watchman.
2 Chaprasis.
1 Syce.
1 Scytheman.

In addition temporary men were engaged as required.

The healthy condition of the collection generally has been well maintained. There were no epidemics of any kind, but there were a few sporadic cases of foot and mouth disease. Among the numerous important births special mention may be made of the Gayals, Barbary sheep, Arabian baboons, Scarlet Ibis, Mute swans, etc. This year again a white-browed Gibbon was born in December, and is thriving on the island enclosure. Casualties amongst the birds have been normal and the collection of animals and birds is up to standard.

The following new works were undertaken during the year:—

(1) *No. 4, Alipore Road (Hermitage).*—There being no modern sanitary arrangements, these were installed in four out of five bath-rooms. The house has been leased out to an approved party under agreement upon Mr. Marshall vacating the premises.

(2) *Duck House.*—With a view to render the house proof against vermin the old structure was dismantled and a new cement brick wall, 6 feet high on the northern side and a dwarf cement wall round the whole house were constructed. A new island was constructed of brick in the centre, and was planted with reeds and Napier grass. The old octagonal wire-netting was replaced by interlinked netting specially imported from England. The steel structure was painted, and the link netting was treated with Bowranite anti-corrosive paint. The whole house has now been thoroughly remodified, and made vermin proof.

(3) *Boat House.*—Owing to the partial destruction of this enclosure due to a falling tree, it was decided to rebuild it entirely with reinforced concrete covered with link wire-netting. This is the first occasion on which ferro-concrete has been used as a substitute for iron frame work with a view to eliminate continual repair.

(4) *Hospital shed.*—The old and delapidated shed was dismantled and a new slant roof of reinforced concrete was constructed and a perforated water-pipe fixed throughout its length to facilitate cleaning.

(5) *Sarnomoyi House.*—Due to increase in the collection of smaller birds in the aviaries of this house, a new reinforced concrete shed was added to the southern side and this was partitioned into 6 compartments with ¾" mesh, 21 gauge galvanized wire-netting, imported from England.

(6) *Ostrich and Emu Enclosure.*—Three partitions have been made in this enclosure and the old netting has been removed and replaced by link wire fencing.

(7) *Rhea Enclosure.*—The old wire-netting of this house has been replaced.

(8) *Pheasant House.*—Cage No. 27 was thoroughly paved with cement and bricks and is now rat proof.

(9) *Bird of Prey House.*—Repair of this house was taken in hand and the work completed. The divisions at either end were removed. One portion was reserved for the cockatoos from the Sarnamoyi House and another for a mixed collection of raptorial birds.

(10) *New Monkey House.*—The angle iron of the structure and doors which was old and worn out was replaced and treated with green paint.

(11) Several of the other aviaries and enclosures were also treated with black "Bowranite" paint.

(12) The old wire-netting in various houses and enclosures was replaced by specially imported link-wire netting. The discarded wire-netting was utilized in fencing the north and east boundary of Begunbari land along Tolly's Nullah.

(13) Necessary patch repairs were done to several other buildings in the Garden.

(14) The waste land on the eastern side of the Begunbari was thoroughly cleaned and filled up and added to the vegetable garden.

(15) A sum of Rs. 4,000-14 has been invested in 5-year Post Office Cash Certificates to the face value of Rs. 4,540 to meet a part of the cost of repairs to roads and buildings of this Garden.

Financial position.—In spite of the 20 per cent. cut in the Government grant and the fact that no Fancy Fair was held in the Zoo, the financial condition of the Garden during the year under review continued to be satisfactory. This is due to the fact that rigid economy was observed in all departments throughout the year particularly in the purchase of new animals.

A comprehensive programme of improvements and repairs will have to be undertaken soon and it is hoped that Government will see their way to restore the grant in full.

Visitors.—The following is a comparative statement of visitors and receipts for the last four years:—

	Visitors.	Receipts.
		Rs. a.
1933-34 ..	911,621	59,812 4
1934-35 ..	1,011,616	65,055 0
1935-36 ..	919,172	57,477 11
1936-37 ..	889,099	55,622 12

Calcutta Corporation.—The Corporation of Calcutta sanctioned a grant of Rs. 26,233-6 to the Garden for the year under report and the amount of the rate bills in respect of the Garden was adjusted against this grant as the rate bills fell due. The Committee desire to express their thanks to the Corporation of Calcutta for their generous contribution. As regards the amount of Rs. 4,328-8 referred to in last year's Report being the unadjusted balance on account of rates and taxes for the year 1934-35 when the Corporation reduced their grant by 16½ per cent., the Committee made a representation to the Corporation to restore their grant in full for the above year and in view of the fall in the entrance receipts, etc., it is earnestly hoped that the Corporation will accede to this request.

A number of children under four years of age and school children attended by their teachers were admitted free. In addition 57,450 persons visited the Garden on free days. A detailed statement of the number of visitors and receipts appears in Appendix B.

The thanks of the Committee are due to those ladies and gentlemen who have made gifts to the Zooligical collection. A list is given in Appendix C. Thanks are also due to those who kindly offered to present animals to the Garden, but whose offers could not be accepted either because the particular species was already sufficiently well represented or owing to want of accommodation.

The Committee also desire to express their thanks to the following Railways and Steamer Companies for kindly conveying animals belonging to the Garden free of charge—

(1) British India Steam Navigation Company.

(2) East Indian Railway.

(3) Rivers Steam Navigation Company, Limited.

The Flower Garden was well maintained, and there was a particulrly good show of annuals. An outstanding feature was the exhibit of dahlias, for which, as for many other gifts and services the Committee wish to record their indebtedness to Mr. W. K. Dods. The Garden was awarded several prizes for exhibits sent to the Agri-Horticultural Society's annual exhibition.

Thanks are due to the Commanding Officers of the 2nd Battalion, 7th Rajput Regiment, stationed at Alipore, for permitting their regimental band to play at the Garden on Tuesday afternoon, free of charge, from 1st January 1937 to 31st March 1937.

The Committee is also greatly indebted to those members of the public who sent old or broken down horses to the Zoological Gardens, where they were destroyed under the most humane conditions.

G. D. McNAIR,

President.

H. A. FOOKS,

Honorary Secretary.

SUPERINTENDENT'S REPORT.

I have the honour to submit my report on the condition and progress of the Zoological collection.

The following comparative table shows the numbers in the various groups during the last four years:—

	Mammals.	Birds.	Reptiles.
1933-34 ..	449	3,024	173
1934-35 ..	508	3,403	164
1935-36 ..	450	2,193	113
1936-37 ..	448	2,121	69

Important additions to the collection during the year were two lion cubs presented by His Highness the Maharaja of Benares. These are growing fast and prove a great attraction to visitors particularly during feeding time.

Among other gifts deserving special mention were:—

1 Tiger cub, presented by Major-General Shumshere Jung Bahadur Rana.

1 Tiger cub, presented by D. Mukherji, Esq.

1 Drill, presented by Sir David Ezra, KT.

4 Hyaena cubs, presented by L. H. Briant, Esq.

2 Pied Imperial pigeons, presented by the Officer of s.s. "Maharaja".

2 Four-horned antelope, presented by A. C. Thom, Esq.

1 Indian Pangolin, presented by S. Vardon, Esq.

The collection of common Indian birds was as usual very representative owing to the weekly presentations generously made by Mr. W. K. Dods. Some of these were introduced on the islands of the lakes, (particularly the purple coots), where they have since bred.

The important purchases during the year either for exhibition in our Gardens or for other Zoological Gardens were the following:—

3 Elephants.

2 Ring-tailed coatis.

4 Cat bears.

2 Squirrel monkeys.

1 Wart Hog.

2 Brow-antlered deer.

1 Two wattled cassowary.

1 Ostrich.

16 Blyth's Tragopan pheasants.

22 Monal pheasants.

4 Koklas pheasants.

27 Satyr pheasants.

1 Elliot's pheasant.

22 Mandarin ducks.

The following animals and birds were received on exchange account during the year :—

From the Rotterdam Zoo.

1 Spotted Hyaena
3 Crowned Cranes.

From the Adelaide Zoo.

4 Black Swans.

From the Sydney Zoo.

8 Black Swans.

From the Town clerk, Hobart.

6 Common Wombats.
1 Bennett's Wallaby.
4 Tasmanian Devils.

From the Pretoria Zoo.

2 Stanley Cranes.

From London Zoo.

1 Alligator.

From J. R. Sherer, Esq.

1 Eland.
2 Blesoboks.
1 Kudu.

From Mons. J. Delacour.

3 Reeve's Pheasants.
2 Chillian Teals.
1 Rosy-billed Duck.
1 Manchurian-eared Pheasant.
1 Mikado Pheasant.

From D. G. Meston, Esq.

1 Sloth Bear.
1 Himalayan Bear.

From Sir Philip Sassoon.

4 Mute Swans.

From Mrs. Schulz.

3 Young Ostriches.

From F. B. Blackie, Esq.

1 Nyasa Love Bird.

The following is a list of animals and birds that were born in the Garden.

1 Hippopotamus.
2 Gayals.
1 Red Deer.
7 Sambhar Deer.
2 Barking Deer.
5 Hog Deer.
1 Barasingha Deer.
6 Fallow Deer.
2 Javan Mouse Deer.
1 Four-horned Antelope.
5 Indian Antelopes.
3 Barbary Sheep.
1 Nilgai.
1 White browed Gibbon.
3 Arabian Baboons.
3 Macaque Monkeys.
3 Rhesus Monkeys.
1 Large Indian Squirrel.
1 Bengal Porcupine.
2 Rufous Kangaroos.
3 Indian Wild Pigs.
5 Indian Hares.
10 Egyptian Geese.
2 Bronze-winged Pigeons.
1 Coral-billed Pigeon.
3 White-crested Kalij Pheasants.
1 Australian crested Dove.
3 Argus Pheasants.
1 Swinhoe's Pheasant.
1 Crestless Fireback Pheasant.
5 Silver Pheasants.
1 Red Jungle Fowl.
3 Fischer's Love Birds.
1 Masked Love Bird.
2 Bar-shouldered Doves.
19 Cockateels.
5 Mute Swans.
8 Java Sparrows.
3 White Java Sparrows.
4 Silver Bills.
1 Scarlet Ibis.
6 Common Coots.

The following have bred in the Garden in a wild state :—

Stork-billed King-fisher.
White-breasted King-fisher.
Common Myna.
Common Kite.
White-breasted Water-hen.
Flying Fox.
Night Heron.
Ring-necked Parrot.
Indian Coel.
Common Squirrel.
Moor-hen.
Spotted Owlet.
Common Crow.
Pied Myna.
Lesser Whistling Teal.
Spotted-billed Duck.
Cormorant.
Spotted Dove.
Indian Tree-pie.
Blue Rock Pigeon.
Purple Coot.
Indian House Sparrow.
Indian Darter.

Eggs were laid but not hatched by the following birds :—

Emu.
White Rhea.
Red-crested Wood Quail.
Black-throated Hill Partridge.
Cheer Pheasant.
White-winged Wood Duck.
Budgeregar.
Sulphur-crested Cockatoo.

Ring-necked Pheasant.
Blyth's Tragopan Pheasant.
Satyr-Tragopan Pheasant.
Pond Heron.
Kestrel.
Nicobar Pigeon.
Malayan-crested Fireback Pheasant.

The following were sent to—

The Zoological Society's Garden, Regent's Park, London.

4 Indian Wild Pigs.
96 Cattle Egrets.
4 Cat Bears.
52 Russell's Vipers.
4 Branded Kraits.
4 Cobras.
2 Great Himalayan Barbets.
4 Mountain Finches.
6 Common Hill Partridges.
2 Yellow-billed Magpies.
4 Black-throated Jays.
2 White-crested Laughing Thrushes.
2 White-throated Laughing Thrushes.
2 Brown-eared Bulbuls.
2 White-cheeked Bulbuls.
2 White-eared Bulbuls.
4 Yellow-headed Ixulus.
2 Stripe-throated Sivas.
2 Blue-winged Sivas.
4 Black-chinned Yuhinas.
4 Stripe-throated Yuhinas.
4 Black-headed Sibias.

Taronga Zoological Park Trust, Sydney.

6 Flamingoes.
1 Hanuman.
14 Rhesus Monkeys.
2 Monal Pheasants.
2 Cheer Pheasants.
4 Alexandrine Parrots.
8 Ring-necked Parrots.
4 Blossom-headed parrakeets

Pretoria Zoo.

2 Hanumans.
2 Bonnet Monkeys.
1 Nilgai.
3 Hog Deer.
4 Saras Cranes.
10 Bar-headed Geese.
10 Spotted-billed Ducks.

Rotterdam Zoo.

1 Himalayan Bear.
1 Nilgai.

Bristol Zoo.

7 Black-headed Mynas.
8 Grey-headed Mynas.
4 Bank Mynas.
5 Common Mynas
50 Rhesus Monkeys.

Adelaide Zoo.

2 Leopards.
2 Cheer Pheasants.
1 Monal Pheasant.
2 White-crested Kalij Pheasants.

Monsieur J. Delacour, France.

2 Blyth's Tragopan Pheasants.
4 Indian Crimson Tragopans.
1 Argus Pheasant.
2 Sonnerat's Jungle Fowl.
2 Purple Kalij Pheasants.
2 Koklass Pheasants.
20 Cotton Teals.
20 Cattle Egrets.
1 Four-horned antelope.

Town clerk, Borough of Shepparton.

20 Rhesus Monkeys.

Lord Inchcape.

10 Monal Pheasants.
12 Purple Coots.
12 Bar-headed Geese.

Dr. H. Leighton-Jones, Australia.

8 Rhesus Monkeys.

Lord Sligo.

4 Demoiselle Cranes.
4 Bar-headed Geese.
4 Brahminy Ducks.

Mrs. E. Schulz, Arusha.

2 Tigers.

Mr. Meems.

2 Sloth Bear Cubs.
12 Purple Coots.
4 Brahminy Kites.
8 Black-headed Ibises.

Mr. Frank Buck.

24 Cotton-Teals.
12 Cattle Egrets.
4 Russell's Vipers.

Dr. S. C. Law.

1 Blyth's Tragopan Pheasant.
2 Black Swans.

Mr. E. F. G. Doublet.

1 Monal Pheasant.
4 Red-billed Blue Magpies.

Mr. M. Patzert, Rangoon.

1 Monal Pheasant.

Mr. A. C. Acooli.

8 Red-billed Choughs.

Mr. G. D. Meston.

2 Common Peafowls.

Mr. J. R. Sherer.

2 Gayals.
1 Fallow Deer.
1 Barasingha Deer.
4 White Storks.
2 Painted Storks.
4 White-necked Storks.

Mr. F. B. Blackie.

1 Roseate Cockatoo.

The following animals and birds were sold from the Garden :—

1 Tiger.
2 Black Leopards.
7 Leopards.
4 Sambar Deer.
5 Passerine Ground Doves.
2 Tambourine Pigeons.

The more important deaths during the year were :—

1 Wart Hog.
1 Gayal.
1 Gaur.
1 Blue Gnu.
1 Parry Kangaroo.
1 Ostrich.
1 Carolina Duck.
1 Magellan Goose.
1 Baikal Teal.
2 Elliot's Pheasants.

The following specimens were destroyed as being old and unfit for exhibition :—

1 Four-horned Antelope.
1 Red Deer.
1 Barking Deer.
1 Nilgai.
1 Spotted Deer.
2 Sambar Deer.
1 Macque Monkey.
1 Swinhoe Pheasant.
1 White-crested Kalij.
1 Silver Pheasant.

There were other losses by death among the smaller mammals, birds and reptiles, from accident injury or other causes which could not be foreseen.

A veterinary dispensary was maintained throughout the year for the treatment of sick and injured under a qualified Veterinary Assistant during the period under review.

Thanks are due to the Principal, Bengal Veterinary College, Belgachia, Calcutta, and to the Veterinary Adviser to the Government of Bengal for their kind help in several cases.

A post-mortem examination was made of nearly every important animal that died during the year and all carcasses were, as usual, sent to the Director, Zoological Survey of India, Indian Museum or to the Principal, University College of Science, Calcutta, for scientific purposes.

A list of the more important cases which were subjected to pathological diagnosis is given below :—

Bad moulting—1 St. Helena Waxbill, 1 Zebra Finch, 7 Teals, 1 Carolina Duck, 1 Chillian Pintail, 1 Demoiselle Crane, 1 Flamingo, 1 Blyth's Tragopan Pheasant.

Cat Distemper—3 Jungle Cats.

Canker—1 Cobra, 2 Banded Kraits.

Cystitis—1 Uryal.

Diarrhoea and Dysentery—1 Arabian Baboon.

Diseases of the liver—1 Hog Badger, 1 Blue Gnu, 1 Brow-antelered Deer, 1 White-fronted Capuchin Monkey, 1 Masked Love-bird.

Epileptic fits—1 White Peafowl, 1 Common Peafowl.

Heminthiasis—3 Sloth Bear Cubs.

Heat stroke—1 Black-throated Hill Patridge.

Injury—1 Flamingo, 1 Bonnet Monkey, 1 Cassowary, 1 Painted Snipe, 1 Mona Monkey, 1 Ostrich, 1 Blyth's Tragopan Pheasant.

Mycosis—1 Currassow, 1 Baikal Teal, 3 Monal Pheasants, 1 Argus Pheasant, 3 Blyth's Tragopan Pheasants, 1 Elliot's Pheasant, 1 Pelican, 1 Canadian Goose, 1 Magellan Goose, 1 Ashy-headed Goose, 1 Crowned Pigeon.

Old age—1 Gayal, 1 American Bison, 1 Tiger, 1 Arabian Baboon.

Pneumonia—1 Parry Kangaroo, 1 Rhesus Monkey, 1 Rufous Kangaroo, 1 Wart Hog.

Septicaemia—1 Great Kangaroo, 1 Gaur.

Tuberculosis—1 Hoolock, 1 Crestless Fire-back Pheasant (Avian).

N. N. BANERJI,

Superintendent, Zoological Garden, Calcutta.

APPENDIX A.

I.—Comparative statement of receipts for 1935-36 and 1936-37.

Heads and items.	1935-36.			1936-37.		
	Rs.	a.	p.	Rs.	a.	p.
Opening balance	3,822	6	5	14,197	2	0
Interest	545	14	6	545	12	0
Donations and subscriptions	182	0	0	332	0	0
Entrance receipts	57,477	11	0	55,622	12	0
Rent	9,100	0	0	8,655	0	0
Carriage, rickshaw, etc.	1,218	0	0	964	0	0
Picnics	152	0	0	155	0	0
Rhino urine	2,761	8	0	2,902	8	0
Miscellaneous receipts	12,772	1	6	7,428	11	3
Government contributions	20,000	0	0	16,000	0	0
Total ..	1,08,031	9	5	1,06,802	13	3
Add—						
Receipts of 30th and 31st March 1935 (1934-35) paid in on 2nd April 1935 (1935-36) ..	300	4	0	....		
Receipts of 31st March 1936 (1935-36) paid in on 1st April 1936 (1936-37)	....			132	13	0
Total ..	1,08,331	13	5	1,06,935	10	3
Deduct—						
Receipts of 31st March 1936 (1935-36) not paid in on 31st March 1936 but paid in on 1st April 1936 (1936-37)	132	13	0	....		
Receipts of 31st March 1937 (1936-37) not paid in on 31st March 1937 but paid in the following year (1937-38)	....			110	12	0
Total ..	1,08,199	0	5	1,06,824	14	3

II.—Comparative statement of expenditure for 1935-36 and 1936-37.

Heads and items.	1935-36.			1936-37.		
	Rs.	a.	p.	Rs.	a.	p.
Establishment	17,348	13	0	17,408	14	0
Food of animals	33,028	7	0	30,030	13	9
Purchase of animals	11,146	2	6	9,067	7	6
Transport of animals	5,818	10	6	5,386	6	0
Miscellaneous contingencies	4,066	12	11	10,115	5	1
Repairs of roads	144	1	6	....		
Repairs of buildings	9,064	14	0	11,435	3	9
Garden construction	9,470	7	6	9,568	3	3
Original construction	3,913	9	6	9,723	12	3
Total ..	94,001	14	5	1,02,736	1	7
Closing balance ..	14,197	2	0	4,088	12	8
Grand Total ..	1,08,199	0	5	1,06,824	14	3

APPENDIX B.

Summary of visitors and gate receipts during the year 1936-37.

Month and year.	Number of visitors.	Receipts. Rs. a. p.
1936.		
April	49,954	3,122 5 0
May	53,127	3,320 8 0
June	59,864	3,742 13 0
July	52,229	3,264 12 0
August	59,714	3,734 6 0
September	62,462	3,906 3 0
October	112,867	7,079 9 0
November	68,235	4,269 4 0
December	128,850	8,061 3 0
1937.		
January	100,163	6,260 2 0
February	69,640	4,356 9 0
March	71,995	4,505 2 0
Total	889,099	55,622 12 0

Free days.

	Number of visitors.
1936.	
20th April	3,106
18th May	3,677
15th June	3,935
20th July	4,047
24th August	4,909
21st September	5,042
12th October	4,914
9th November	5,481
14th December	5,275
1937.	
11th January	5,838
8th February	5,206
8th March	6,020
Total ..	57,450

APPENDIX C.

List of donors during the year 1936-37.

A

Ali Bahadur, Mr. M. A. .. .. 1 Rat Snake.

B

Briant, Mr. L. H. .. .. .. 4 Striped Hyaenas, 1 Bengal Fox.
Buchan, Mr. W. .. .. .. 1 Four-horned Antelope.
Bomanjee, Mr. J. Dinshaw .. .. 1 Python.
Banerjee, Master S. .. .. 2 Red Sand Snakes, 3 Scorpions.
Bedi, Mr. Bawa Ladha Singh .. .. 2 Spotted Deer.
Benares, His Highness The Maharaja of .. 2 Lion Cubs.

C

Commandant, Buxa Detention Camp, Duars. 1 Himalayan Bear.
Cohen, Mr. I. J. .. .. .. 1 Spotted Deer.

D

Duckworth, Mr. P. H. .. .. 1 Chameleon.
Deb, Mr. N. N. .. .. .. 4 Entellus Monkeys.
Dalmiya, Mr. M. .. .. .. 2 Indian Antelopes, 1 Marsh Crocodile.
Director, School of Tropical Medicine .. 13 Rhesus Monkeys, 1 Macaque Monkey, 1 Bonnet Monkey.
Dods, Mr. W. K. .. .. .. 131 Cattle Egrets, 3 Crested Serpent Eagles, 3 Stork-billed Kingfishers, 36 Purple Coots, 21 Cotton Teals, 12 Lineated Barbets, 1 Hoopoe, 6 Sand Pipers, 15 Garganey Teals, 8 Orange-headed Ground Thrushes, 6 Indian Hares 3 Common Coots, 31 Pheasant-tailed Jacanas, 10 Painted Snipes, 4 Changeable Hawk Eagles, 4 Blue-cheeked green Barbets, 6 Ashy-headed Swallow Shrikes, 2 Marsh Cocks, 7 Gold Plover, 2 Pale Harriers, 9 Indian Rollers, 2 Black-nape Orioles, 29 Yellow-wattled Lapwings, 4 Marsh Terns, 6 Red-wattled Lapwings, 18 Black-winged Kites, 10 Shikras, 1 Small-billed Mountain Thrush, 1 Indian Treepie, 2 Marsh Harriers, 16 Indian Water Rails, 1 Lesser Egret, 2 Banded Rails, 6 Ruddy Crakes, 18 Corn Crakes, 8 Spotted Crakes, 1 Shoveller, 3 Jungle Cats, 2 Little Bitterns, 7 Bronze-winged Jacanas, 1 White-eyed Pochard, 1 Cinnamon Bittern, 1 White-breasted Water-hen, 3 Blue Herons, 2 Lesser Shrikes, 5 Lesser Whistling Teals, 1 Spotted Owlet, 3 Scop's Owls, 2 Kestrels, 4 Bengal Foxes, 1 Indian Magpie Robin , 1 Spotted Tiger Civet, 3 Ring-necked Plovers, 1 Great Bittern.
Dutt, Mr. M. M. .. .. .. 1 Common Peafowl.
Dutt, Mr. R. K. .. .. .. 1 Nilgai.
Das, Mr. P. .. .. .. 2 Rhesus Monkeys.
Das, Rai Bahadur A. N., F. Z. S., M. R. A. S. 1 Shikra.
Duff, Mrs. .. .. .. 1 Bonnet Monkey.

E

Ezra, Sir David, Kt. .. .. 1 Drill.
Evans, Mrs. E. W. .. .. 2 White Doves.

F

Fooks, Mr. H. A. .. .. .. 2 Diamond Doves, 8 Bronze-winged Pigeons, 3 Australian Crested Doves, 3 Plumed Ground Doves, 1 Large Indian Squirrel.
Fooks, Mrs. H. A. .. .. .. 1 White Crow.
Foster, Mrs. J. G. .. .. .. 1 Tiger Cub.
Firpo, Mr. M. A. .. .. .. 1 Sloth Bear Cub.

G

Geary, Lt.-Col. H. N. G., R. E. .. 1 Himalayan Bear Cub.
Goswami, Babu B. .. .. 1 Indian Hare.
Ghosal, Mr. G. S. .. .. .. 1 Python.
Geuthneum, Mr. A. .. .. 1 Macaque Monkey.

H

Hall, Mr. J. .. .. .. 1 Spotted Deer.
Hardwick, Mr. D. R. .. .. 2 Blue Budgeregars, 2 Yellow Budgeregars, 1 Green Budgeregar, 1 White Budgeregar.
Haque, The Hon'ble Khan Bahadur M. A. .. .. 1 Barking Deer.
Hayes, Mr. A. M. .. .. .. 1 Ring-necked Parrakeet.
Hicks, Mr. V. F. .. .. .. 1 Barking Deer.
Harrer, Mr. A. R. .. .. .. 1 Common Magpie, 1 Black-headed Myna.
Hunt, Mr. J. .. .. .. 1 Rhesus Monkey.
Hughes, Mr. G. V. .. .. 1 Civet Cat.

K

Keith Smith, Mr. R. C. .. .. 2 Sloth Bears.
Kasem, Mr. G. .. .. .. 1 Entellus Monkey.

L

Lee, Mr. G. N., I. P. .. .. 3 Blue Budgeregars, 2 Yellow Budgeregars, 2 Green Budgeregars.
Lloyd, Rev. J. G. .. .. .. 1 Rhesus Monkey.
Leicester, Mr. L. W. .. .. 1 Macaque Monkey.
Lincoln, Mr. E. H. .. .. .. 1 Striped Hyaena.
Laden La, Mr. S. W. .. .. 1 Barking Deer.
Lancaster, Mr. P. .. .. .. 1 Common Peafowl.
Lady, by a .. .. .. 1 Common Partridge.
Law, Dr. S. C. .. .. .. 4 Great Himalayan Barbets, 4 Mountain Finches.

M

Mukherjee, Mr. D.	.. 1 Tiger Cub.
Mitter, Mr. N., B.Sc., F.L.S. ..	.. 1 Russell Viper.
Myers, Mrs. C. N.	.. 1 Entellus Monkey.
Meston, Mr. D. G.	.. 4 Pythons.
Mockertich, Mr. L. A. ..	.. 1 Indian Palm Civet.

N

Nichol, Mr. E. P. W. ..	.. 1 Indian Wild Pig.
Naskar, Mr. H. C.	.. 2 Spotted Deer.

O

Officer of s.s. "Maharaja" ..	.. 2 Pied Imperial Pigeons.

P

Pal-Chowdhury, Mr. K. C. ..	.. 1 Macaque Monkey.
Pasman, Mr. Tilok ..	.. 1 Chameleon.

R

Roy, Mr. N. K.	.. 1 Rhesus Monkey.
Roy, Mr. Biren	.. 1 Leopard.
Roseboom, Mr. A.	.. 1 Macaque Monkey.
Rana, Major-General Rama Sham Shere Jung Bahadur.	1 Tiger Cub.
Rana, Hiranya Sham Shere Jung Bahadur	1 Leopard Cat.

S

Singh Roy, Mr. S., M.L.C. ..	.. 1 Leopard, 8 Pintail Ducks, 2 Common Teals.
Singh Roy, Mr. Rajani Lall ..	.. 1 Leopard.
Singh, Mr. S.	.. 1 Python.
Singh, Babu Sripat ..	.. 1 Blue Budgeregar.
Sherwood, Mrs. ..	.. 1 Ring-necked Parrakeet.
Strachan, Mr. R.	.. 1 Sloth Bear.
Siddons, Mrs. G. B. ..	.. 1 Cobra.
Sarkar, Mr. S. K.	.. 2 Common Peafowl.
Sahay, Babu Haribullav ..	.. 1 Rhesus Monkey.

T

Thom, Mr. A. C.	.. 2 Four-horned Antelopes.

V

Vardon, Mr. S.	.. 1 Indian Pangolin.
Vaz, Mr. A. E.	.. 1 Jungle Cat.

W

Wakefield, Mr. J. G. ..	.. 1 Sloth Bear.

Z

Zorab, Mr. L. K.	.. 1 Ornamental Snake.

B. G. Press—1937-38—9270D—300.



Government of Bengal

Report of the Honorary Committee for the Management of the Zoological Garden, Calcutta

1937-38

Superintendent, Government Printing
Bengal Government Press, Alipore, Bengal
1939

Report of the Honorary Committee for the Management of the Zoological Garden, Calcutta, for the year 1937-38.

The Committee have the honour to submit their report for the year ending 31st March 1938 supplemented, as in former years, by—

(1) The Superintendent's report upon the Zoological collection.

(2) Abstract of accounts of ordinary receipts and expenditure.

(3) Monthly returns of visitors and gate receipts and a list of donors and their donations.

The Committee consisted of:—

President.

The Hon'ble Mr. Justice G. D. McNair, M.B.E.

Vice-Presidents.

W. K. Dods, Esq., C.M.Z.S., M.B.O.U.

Dr. Satya Charan Law, M.A., Ph.D., F.Z.S., Second Vice-President.

Honorary Secretary and Treasurer.

H. A. Fooks, Esq.

Nominated Members.

Nawab Sir Asif Qadr Saiyid Wasif Ali Mirza, Khan Bahadur, Mahabat Jang, Nawab Bahadur of Murshidabad, K.C.S.I., K.C.V.O.

Sir David Ezra, KT., F.Z.S., M.B.O.U.

Rai Ajit Nath Das Bahadur, F.Z.S., M.R.A.S.

K. C. De, Esq., C.I.E., I.C.S.

G. Morgan, Esq., C.I.E., F.R.H.S., F.Z.S., M.L.A.

Maharaj-Kumar Uday Chand Mahtab, B.A., of Burdwan.

The Hon'ble Mr. Justice T. Ameer Ali, Bar.-at-Law.

Dr. Sir U. N. Brahmachari, Rai Bahadur, M.A., M.D., PH.D.

S. C. Lyttelton, Esq.

Nawabzada A. S. M. Latifur Rahman, M.A. (Cantab.), Bar.-at-Law.

Saiteswar Singh Roy, Esq., M.L.C.

Phanindra Nath Brahma, Esq.

J. A. Clough, Esq.

A. F. M. Abdul Ali, Esq., M.A., F.R.S.L.

G. R. Dods.

B. N. Ray Chowdhury, M.A., Bar.-at-Law.

Ex-officio Members.

The Commissioners of Divisions in Bengal.

The Executive Engineer, Suburban Division, Public Works Department.

The Director of Public Health 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 Director, Civil Veterinary Department, Bengal.

The Professor of Biology and Zoology, Medical College, Calcutta.

The Superintendent of the Royal Botanic Garden, Sibpur.

The Mayor of Calcutta.

The Principal of the Bengal Veterinary College, Calcutta.

The Forest Utilization Officer, Bengal.

Appointments.—Mr. S. N. Dutt, a Councillor, Corporation of Calcutta, was appointed as a member of the Committee to represent the Corporation for the year 1937 and Mr. Phanindra Nath Brahma, a Councillor of Corporation of Calcutta, was reappointed as a member of the Committee to represent the Corporation for the year 1937-38.

Staff.—The following is a list of the superior staff of the Garden at the end of 1937-38:—

Superintendent.—Mr. Nagendra Nath Banerjee, G.B.V.C., F.Z.S.

First Assistant Superintendent.—Khan Sahib S. M. Yaqub.

Second Assistant Superintendent.—Mr. N. Mukerjee, G.B.V.C., F.Z.S., F.L.S., F.R.H.S.

Store-keeper.—Babu Jugal Kishore Roy.

Clerk.—Babu Tarak Chandra Chatterjee.

Gate-clerk.—Babu Bepin Behari Chatterjee.

The menial staff of the Garden at the end of 1937-38 comprised:—

1 Salutri.
1 Jamadar.
8 Durwans.
20 Keepers.
1 Head Gardener.
14 Gardeners.
3 Sweepers.
1 Carpenter.
2 Bhistis.
1 Cook.
2 Cartmen.
1 Night Watchman.
2 Chaprasis.
1 Syce.
1 Scytheman.

In addition temporary men were engaged as required.

His Excellency the most Hon'ble the Marquess of Linlithgow, Viceroy and Governor-General of India kindly visited the Gardens on the 28th December 1937 and evinced great interest in a number of the exhibits.

Various births amongst mammals and birds have been recorded during the year: the most important being one male Grant's zebra and two hippopotami. Three chimpanzees, one from London and two from the Edinburgh Zoo were acquired. Mr. R. N. De, I.F.S., Dhubri, kindly presented a pair of tiger cubs and the President, Zoological Society of San Diego, California, sent two Elephantine Tortoises.

The general condition of the animals was satisfactory including the large carnivora. Casualties throughout the year have been normal while the collection has been added to and improved from time to time by gifts, exchange and purchase. Many interesting births have been recorded in the Garden during the year and a large proportion of the young were reared and are thriving well.

Gardens.—The ornamental parts of the Garden such as lawns and flower beds have been improved and maintained at their usual high standard. The Garden was awarded several prizes at the Annual Flower Show of the Agri-Horticultural Society of India. Particular mention being made of their exhibit of flowering annuals.

An innovation, which was appreciated by the public, was the marking of every tree, creeper and shrub in the Gardens with its botanical and popular names.

No important constructional works were undertaken during the year under report. Repairs and alterations to existing buildings and enclosures were effected as follows:—

1. *Repairs* were made to the main circular road from the main gate to the Reptile house along the east and west boundary lines by spreading and consolidating "Jhama" metal with steam-rollers.

2. *Boundary wall.*—A portion of the compound wall opposite the Zeerut bridge had collapsed during the rains and was immediately reconstructed. Sundry petty repairs were effected and the eastern boundary wall of the Garden was colour-washed.

3. *Sarnompyi House.*—Repairs to this building had become urgent and a 5" sand and cement wall was constructed round the west, south and eastern sides.

4. *Chimpanzee Enclosure.*—It was found necessary to protect the animals in this enclosure from the indiscriminating attentions of the public and a fence of interlinked wire-netting more than ten feet high and of 14 gauge English wire, has been erected round the island. Necessary petty repairs were taken in hand to strengthen the retaining wall of the island.

5. *"Hermitage".*—General repairs were effected in the main building including exterior and interior decorations. The outhouses were repaired and the whole building was rewired.

6. *Sonebursa Enclosure.*—The existing inner enclosure was subdivided and thoroughly repaired so as to provide double the number of lock up cages

7. *Pheasant House.*—With a view to render cage No. 21 in this house, proof against rats, a concrete floor was laid. The result, however, has not proved satisfactory.

8. *Pigmy Hippos.*—On the shores of the big lake and on the site of the Old Rhino Enclosure, a new enclosure was constructed of cement and brick walls topped by inter-link wire-netting. A partition was made down the centre to allow the pair to be separated.

9. *Schwendler House.*—A dwarf cement wall was constructed round the base.

10. *Gubbay House.*—The south-east corner cage in which the male Mandrill is exhibited was thoroughly repaired with cement concrete and sand-cement plaster.

11. *Hospital.*—A large thatched shed was erected to accommodate various newly-purchased pheasants during the hot weather.

12. Four new concrete dust bins were constructed to help the garden staff in the speedy clearance of all litter.

13. A wall surmounted with inter-link wire-netting was constructed to fill in the arch of the bridge spanning the large and ornamental lakes. It is hoped that as a result it will be possible to control the water levels of each lake and to prevent birds in the larger lake from straying elsewhere.

Financial position.—The financial condition of the Garden is satisfactory largely owing to the rigid economy which has been observed during the past few years. There was a welcome increase in the receipts from visitors, which amounted to Rs. 58,664-9 in the year under review as against Rs. 55,622-12 in the previous year. From the detailed statement of receipts and expenditure which will be found in Appendix A, it will be seen that the increase in entrance receipts amounting to Rs. 3,041-13 accounts for nearly 50 per cent. of the total increase in revenue of Rs. 6,653-4-8 over the previous year.

Visitors.—The following is comparative statement of visitors and receipts for the last four years:—

Years.	Visitors.	Receipts. Rs. a.
1934-35 ..	1,011,616	65,055 0
1935-36 ..	919,172	57,477 11
1936-37 ..	889,099	55,622 12
1937-38 ..	936,744	58,664 9

The Corporation of Calcutta.—Sanctioned a grant of Rs. 26,233-6 to the Garden for the year under report a sum equal to the amount of the rates payable to the Corporation for the same period.

The Committee desire to express their thanks to the Corporation of Calcutta for their generous contribution. In the report for the previous year reference was made to a sum of Rs. 4,328-8 as being the unadjusted balance on account of rates and taxes for the year 1934-35, the Committee are glad to state that this sum has since been restored by the Corporation and they take this opportunity of expressing their thanks to those responsible for this result.

A number of children under four years of age and many school children attended by their teachers were admitted to the Garden free. In addition 55,591 persons visited the garden on free days.

A detailed statement of the number of visitors and receipts appears in Appendix B.

The Committee wish to convey their appreciation and thanks to those members of the public as well as to members of the Garden who have contributed towards the satisfactory results achieved during the year under review.

A list of those ladies and gentlemen who have made gifts to the collection generally will be found in Appendix C. There are many offers of present of animals to the Garden, but these offers could not always be accepted either because the particular species was already sufficiently well represented, or owing to lack of accommodation.

The Committee also desire to express their thanks to the following Railway and Steamer Companies for kindly conveying animals belonging to the Garden free of charge:—

(1) British India Steam Navigation Company.

(2) East Indian Railway.

(3) Rivers Steam Navigation Company, Limited.

Once more Mr. W. K. Dods, the Vice-President of the Garden has been instrumental in procuring and presenting to the Garden a variety of birds and beasts. He has also been a generous donor of flower seeds and bulbs, and he has been responsible for providing large quantities of fresh ant's eggs which contribute materially to the well-being of the birds. The Committee record with thanks his gifts and services.

Thanks are due to the Commanding Officer of the 1/15th Punjab Regiment, stationed at Alipore, for permitting their regimental band to play at the Garden on Tuesday and Sunday afternoons and the Committee again record their indebtedness to those members of the public who sent old or broken horses to the Zoological Gardens, where they were destroyed under the most humane conditions.

G. D. McNAIR,

President.

H. A. FOOKS,

Honorary Secretary.

SUPERINTENDENT'S REPORT.

I have the honour to submit my report on the condition and progress of the Zoological collection.

The following comparative table shows the numbers on the 31st March in the various collection during the last four years:—

Years.	Mammals.	Birds.	Reptiles.
1934-35	.. 508	3,403	164
1935-36	.. 450	2,196	113
1936-37	.. 448	2,121	69
1937-38	.. 441	2,456	90

The health and condition of the animals have been good and the death rate has not exceeded the average normal percentage.

Among the important additions to the collection during the year the following deserve special mention:—

1 Orang Outang, presented by the Right Hon'ble the Earl of Inchcape.

2 Tiger cubs, presented by R. N. De, Esq., I.F.S.

2 Tiger cubs, presented by the Maharaja of Surguja.

The management of the Garden was much indebted to Mr. W. K. Dods, the Vice-President, for his kind help in obtaining for the Gardens the collection of common Indian birds which was maintained in a high state of efficiency during the year under review.

The more important purchases during the year were as follows:—

1 White-throated Capuchin.

63 Blyth's Tragopan Pheasants.

5 Satyr Tragopan Pheasants.

1 Green Monkey.

1 Mona Monkey.

2 Hume's Barred-backed Pheasants.

The following were received by exchange:—

From the London Zoo—

1 Chimpanzee.

From Soerabai Plantenen Dierentuin, Java—

4 Javan Jungle Fowl.

From Edinburgh Zoo—

2 Chimpanzees.

From Zoological Society, Sandigo, California—

2 Elephantine Tortoises.

From Wellington Zoo—

2 Black Swans.
4 Canadian Geese.
4 Dwarf Flying Opossums.
4 Californian Quails.

From A. C. Acooli—

1 Nilgai.
40 Rhesus Monkeys.

From A. Meeus, Esq.—

1 Mandrill.

From Mr. Patzert, Rangoon—

5 Burmese Peafowl.

From Frank Buck, Esq.—

1 Hairy-rumped Agouti.
2 Raccoons.
4 Summer Ducks.
2 Brazilian Three-banded Armadillos.

From H. A. Fooks, Esq.

2 Diamond Doves.

The following is a list of animals and birds that were born in the Garden:—

2 Hippopotamus.
1 Gayal.
1 Zebra.
1 Rufous Kangaroo.
1 Striped Hyaena.
1 Indian Hare.
3 Spotted Deer.
7 Indian Antelopes.
9 Javan Mouse Deer.
1 Nilgai.
2 Hog Deer.
8 Fallow Deer.
4 Common Budgeregars.
7 Blue Budgeregars.
1 Yellow Budgeregar.
4 Black Swans.
5 Mute Swans.
8 Egyptian Geese.
1 Ruddy Crake.
7 Zebra Finches.
16 Bronze-winged Pigeons.
4 Coral-billed Pigeons.
1 White Dove.
12 Australian crested Doves.
5 Barking Deer.
6 Four-horned Antelopes.
5 Sambar Deer.
2 Brow-antlered Deer.

2 Barbary Sheep.
1 Arabian Baboon.
2 Rhesus Monkeys.
3 Macaque Monkeys.
13 Cockatiels.
1 Bare-eyed Cockatoo.
2 Java Sparrows.
3 Peafowl.
2 Bar-shouldered Doves.
6 Diamond Doves.
4 Common Coots.
2 White-cheeked Bul Buls.
3 Indian Magpie Robins.
4 Gold Pheasants.
14 Silver Pheasants.
1 Amherst Pheasant.
2 Swinhoe Pheasants.
4 White-crested Kalij Pheasants
2 Peacock Pheasants.
1 Red Jungle Fowl.
4 Sonnerat's Jungle Fowl.

The following were captured in the Garden:—

8 Rhesus Monkeys.
1 Bonnet Monkey.
1 Blossom-headed Parrakeet.
1 Blue-cheeked Barbet.
1 Branded Krait.

Eggs were laid but not hatched by the followings birds:—

Emu.
White Peacock.
Burmese Peacock.
Canadian Goose.
Cheer Pheasant.
Blyth's Tragopan Pheasant.
Satyr Tragopan Pheasant.
Swinhoe Pheasant.
Koklas Pheasant.
Pond Heron.

The following wild birds have bred in the Garden:—

Stork-billed Kingfisher.
White-breasted Kingfisher.
Common Kite.
White-breasted Waterhen.
Flying Fox.
Night Heron.
Ring-necked Parrot.
Indian Koel.
Spotted Owlet.
Common Myna.
Pied Myna.
Brahminy Myna.
Cormorant.
Spotted Dove.
Indian Tree-pie.
Blue Rock Pigeon.
Purple Coot.
Indian Darter.

The following were sent to the—

London Zoo.

41 Russell's Vipers.
12 Banded Kraits.
37 Cobras.
24 Cattle Egrets.
4 Brahminy Kites.
2 White Eyed Buzzards.
2 Bengal Foxes.
4 Indian Hares.
50 Rhesus Monkeys.

Ornamental Pheasant Society, London.

3 Satyr Tragopans. | 6 Blyth's Tragopans.

Edinburgh Zoo.

1 Fishing Cat. | 2 Bengal Foxes.
4 Demoiselle Cranes. | 4 Pythons.
2 Saras Cranes. | 2 Adjutant Storks.
2 Black-necked Storks. | 4 Painted Storks.

Auckland Zoo.

4 Monal Pheasants. | 2 Black Partridges.
4 Brahminy Kites. | 10 Cattle Egrets.

Wellington Zoo.

2 Leopards. | 4 Demoiselle Cranes.

Melbourne Zoo.

2 Striped Hyaenas. | 1 Leopard.

Sydney Zoo.

2 Nilgais. | 6 Macaque Monkeys.
1 Hanuman. | 32 Rhesus Monkeys.
1 Himalayan Bear.

Hall Institute, Melbourne.

36 Rhesus Monkeys.

Adelaide Zoo.

124 Rhesus Monkeys.

Ballarat Zoo.

20 Rhesus Monkeys.

Pretoria Zoo.

1 Bonnet Monkey.

Mr. Sherer, South Africa.

2 Indian Wild Pigs.

Frank Buck, Esq.

2 Indian Crimson Tragopan Pheasants.

Mr. Patzeri, Rangoon.

1 Indian Antelope. | 1 Chakar Partridge.

A. C. Acoolia

2 Leopards.

Director, School of Tropical Medicine, Calcutta.

2 Rhesus Monkeys.

Lord Inchcape.

8 Monal Pheasants.

H. A. Fooks, Esq.

2 Paradise Whydahs. | 1 Madagascar Weaver.

The following animals and birds were sold:—

3 Elephants (Calves).	1 Adjutant Stork.
2 Striped Hyaenas (cubs).	2 Painted Storks.
1 Himalayan Bear.	2 Hanumans (Entellus Monkeys)

The more important deaths during the year were:—

2 Dwarf Flying Opossums.	1 Chakma Baboon.
1 Hunting Leopard.	1 Hippopotamus.
1 Blue Gnu.	1 American Bear.
1 Brow Antlered Deer.	1 Straw-necked Ibis.
1 Manchurian Eared Pheasant.	3 Common Flamingoes.
1 Asiatic White Crane.	1 Malayan Tapir.

The following specimens were destroyed as unfit for exhibition:—

1 American Bear.	1 Himalayan Bear.
2 Indian Antelopes.	1 Ring-necked Pheasant.

There were other losses by death among the smaller mammals, birds and reptiles, from accident, injury or other causes which could not be foreseen. In addition rather less than the usual number of acquatic birds escaped from the Garden or were killed by vermin.

One Orang Outang and one Hoolock Gibbon were rescued and saved from drowning.

A veterinary dispensary was maintained under a qualified Assistant Veterinary Surgeon during the year under review.

Thanks are due to the Principal, Bengal Veterinary College, Belgachia, Calcutta, and to the Veterinary Adviser to the Government of Bengal for their kind help in several cases.

A post-mortem examination was made of nearly every important animal that died during the year, and all carcasses were, as usual, sent to the Director, Zoological Survey of India, Indian Museum or to the Professor of Zoology, University College of Science, Calcutta, for scientific purposes.

A list of more important cases which were subjected to post-mortem diagnosis is given below:—

Bad moulting—2 Cotton Teal, 2 Blyth's Tragopans, 1 Pochard, 2 Mandarine Ducks, 3 Bronze-winged Jacanas, 1 Red-crested Cardinal, 3 Common Flamingoes.

Canker—1 Cobra.

Cystitis—1 Indian Wild Pig.

Diarrhœa and Dysentry—2 Hanumans.

Diseases of the liver—1 Barasingha Deer, 1 Four-horned Antelope, 1 Sloth Bear, 1 Ceram Lory, 1 Great Bittern, 1 White-collared King Fisher.

Distemper—1 Fox, 1 Hyaena cub, 2 Tiger cubs, 1 Leopard cub, 1 Jungle Cat.

Drowning—1 Hoolock, 1 Lineated Barbet.

Gapes—1 Peacock Pheasant, 1 Elliot's Pheasant.

Gastritis—2 Sloth Bear cubs, 1 American Bear, 2 Dwarf Flying Opossums, 1 Squirrel Monkey.

Gastric Ulcer—1 Hunting Leopard.

Heat Stroke—1 Chakma Baboon, 1 Arracan Hill Partridge, 1 Blyth's Tragopan, 4 Satyr Tragopans.

Heminthiasis—4 Sloth Bear cubs.

Injury—1 Asiatic White Crane, 1 Monal Pheasant, 1 Four-horned Antelope, 1 Straw-necked Ibis, 1 Hippopotamus.

Mycosis—1 Manchurian Eared Pheasant, 1 Ashy-headed Goose, 2 Red Jungle Fowl, 1 Monal Pheasant, 1 Gold Pheasant, 1 Black Swan, 6 Blyth's Tragopans, 2 Satyr Tragopans, 1 Cheer Pheasant, 1 Soemmerring's Pheasant, 1 Red-crested Pochard.

Nicrosis of the lower jaw—1 Large Indian Squirrel.

Obstruction of the bowels—1 Bennett's Wallaby, 2 Barbary Sheep, 1 Malayan Tapir.

Ostioporosis of the jaw—1 Thomson's Gazelle.

Paralysis—1 Himalayan Bear.

Pneumonia—1 Fallow Deer, 1 Vervet Monkey, 1 Bonnet Monkey, 2 Arabian Baboons, 1 Ring-tailed Coati.

Septicaemia—1 Samango Monkey, 1 Victoria Crowned Pigeon, 4 Arracan Hill Partridges, 3 Black-throated Hill Partridges.

Tuberculosis—1 Rufous Kangaroo, 1 Cassowary, 1 Chakma Baboon, 1 Blue Gnu.

N. N. BANERJI,
Superintendent, Zoological Garden, Calcutta.

APPENDIX A.

I.—Comparative statement of receipts for 1936-37 and 1937-38.

Heads and items.	1936-37. Rs. a. p.	1937-38. Rs. a. p.
Opening balance	14,197 2 0	1,08[illegible] 12 8
Interest	545 12 0	545 12 0
Donations and subscriptions	332 0 0	116 0 0
Entrance receipts	55,622 12 0	58,664 9 0
Rent	8,655 0 0	9,145 0 0
Carriage, rickshaw, etc.	964 0 0	1,118 8 0
Picnics	155 0 0	142 0 0
Rhino urine	2,902 8 0	2,728 8 0
Miscellaneous receipts	7,428 11 3	16,489 12 9
Government contribution	16,000 0 0	16,000 0 0
Total	1,06,802 13 3	1,09,038 14 5
Add—		
Receipts of 31st March 1936 (1935-36) paid in on 1st April 1936 (1936-37)	132 13 0	....
Receipts of 31st March 1937 (1936-37) not paid in on 31st March 1937 but paid in on 1st April 1937 (1937-38)	....	110 12 0
Total	1,06,935 10 3	1,09,149 10 5
Deduct—		
Receipts of 31st March 1937 (1936-37) not paid in on 31st March 1937 but paid in on 1st April 1937 (1937-38)	110 12 0	....
Receipts of 31st March 1938, etc., not paid in on 31st March 1938, but paid in the following year (1938-39)	....	280 10 0
Total	1,06,824 14 3	1,08,869 0 5

II.—Comparative statement of expenditure for 1936-37 and 1937-38.

	1936-37. Rs. a. p.	1937-38. Rs. a. p.
Establishment	17,408 14 0	17,616 8 0
Food of animals	30,030 13 9	30,470 3 3
Purchase of animals	9,067 7 6	3,104 4 0
Transport of animals	5,386 6 0	6,773 5 6
Miscellaneous contingencies	10,115 5 1	5,672 8 4
Repairs of roads	....	9,740 15 6
Repairs of buildings	11,435 3 9	11,512 14 3
Garden construction	9,568 3 3	9,721 0 3
Original construction	9,723 12 3	3,515 4 0
Total	1,02,736 1 7	98,126 15 1
Closing balance	4,088 12 8	10,742 1 4
Grand total	1,06,824 14 3	1,08,869 0 5

APPENDIX B.

Summary of visitors and gate receipts during the year 1937-38.

Month and year.	Number of visitors.	Receipts.
1937.		Rs. a.
April	59,090	3,694 5
May	55,201	3,455 14
June	55,843	3,491 7
July	58,944	3,685 7
August	62,069	3,880 12
September	64,413	4,026 10
October	1,33,039	8,355 0
November	69,333	4,335 15
December	1,36,944	8,593 11
1938.		
January	1,07,783	6,747 15
February	76,716	4,809 15
March	57,369	3,587 10
Total	9,36,744	58,664 9

Free days.

Month and year.	Number of visitors.
1937.	
19th April	3,817
14th May (free day for coronation)	3,828
17th May	3,315
21st June	3,895
20th July	2,279
23rd August	3,273
27th September	4,116
25th October	5,586
22nd November	4,461
13th December	4,804
1938.	
17th January	8,562
21st February	4,346
21st March	3,309
Total	55,591

APPENDIX C.

List of donors during the year 1937-38.

A

Agarwala, Messrs. Hiralal & Co. ..	1 Leopard.

B

Bhowanipur Police Station, The Officer-in-charge.	1 Rhesus Monkey.
Browne, Mrs. C. A.	.. 1 Sloth Bear (Cub).
Biswas, Mr. S. K.	.. 1 Rhesus Monkey.
Blackie, Mr. F. W., A.M., I.M.E., M.B.W.	1 Red-sided Eclectus.
Benia, Mr. B. L.	.. 1 Rhesus Monkey.
Bose, Mr. N. C.	.. 1 Python.
Barman, Dr. S. K.	.. 2 Comon Peafowl.
Briant, Mr. L. H.	.. 2 Sloth Bear (cubs).
Blackie, Mr. F. B.	.. 1 Blue-crowned Hanging Parrakeet, 1 Zebra Finch, 2 Long-tailed grass finches, 2 Black-headed Mannikins, 1 White-eye, 2 Pekin Robins, 1 Red-vented Bulbul, 1 Common Amaduvade.

C

Chaturvadi, Babu Rambharas ..	.. 1 Hanuman.
Circus, Raman, The Manager ..	.. 1 Bonnet Monkey.

D

Das, Rai Bahadur A. N., J.P., M.R.C.S., F. Z. S.	1 Fishing Cat, 1 Cobra, 1 Ornamental Snake.
Das, Mr. K. K., F.R.H.S. ..	.. 1 Indian Antelope.
Das Gupta, Mr. K. L. ..	.. 1 Sloth Bear.
Director, School of Tropical Medicine	..27 Rhesus Monkeys, 2 Bonnet Monkeys, 1 Macaque Monkey.
Dobson, Mrs. M.	.. 1 Sloth Bear (cub).
De, Mr. R. N., I.F.S.	.. 2 Tiger (cubs).
Dutt, Mr. P.	.. 2 White-eyed Pochard, 1 White-breasted Water hen.
Debi, Srimati I. N.	.. 1 Rhesus Monkey.
Douglas, Rev.	.. 1 Hoolock.
Dods, Mr. G. R.	..10 Common Teals.

Goods, W K., Esq.	.. 2 Indian Hare, 1 Jungle Cat, 1 Crimson breasted Barbet, 5 Linetted Babbets 3 Blue-cheeked Barbets, 1 Wryneck, 2 Hawk Cuckoos, 2 Ashy-headed Swallow Shrikes, 3 Indian White Eyes, 1 Common Tit, 2 Red starts, 2 Munias, 1 Common Weaver, 13 Indian Magpie Robins, 11 Orange-headed Ground Thrushes, 8 Indian Rollers, 7 Brown backed Shrikes, 2 Hoopoes, 1 Coral billed Pigeon, 5 Painted Snipe, 26 Sand Pipers, 13 Indian Water Rails, 2 Banded Rails, 22 Corn Crakes, 3 Spotted Crakes, 10 Ruddy Crakes, 10 Bronze winged Jacanas, 24 Pheasant-tailed Jacanas, 12 Gold Plovers, 15 Red wattled Lapwings, 9 Yellow-wattled Lapwings, 1 Indian Courser, 11 Stint, 7 Ring necked Plovers, 10 Yellow Wagtails, 61 Purple Coots, 1 Marsh Cock, 8 Stork billed Kingfishers, 1 Lesser Grebe, 80 Cotton Teal, 32 Garganey Teal, 14 Lesser Whistling Teal, 5 Marsh Terns, 89 Cattle Egrets, 3 Indian Lesser Egrets, 1 Little Bittern, 9 Cinnamon Bitterns, 1 Blue Heron, 2 Crested Serpent Eagles, 2 Booted Eagles, 2 White-eyed Buzzards, 3 Shikras, 1 Black-winged Kite, 1 Peregrine Falcon, 6 Brahminy Kites, 1 Pied Harrier, 4 Marsh Harrier, 4 Horned Owlets, 2 Indian Fish Owls.

ZOOLOGICAL GARDENS CALCUTTA 222(J)

E

Ezra, Sir David, Kt.	.. 1 Rhesus Monkey, 1 Scops Owl.
Ezra, Mr. A., O.B.E.	.. 6 Greater Whistling Teal, 2 Chinese Water Deer.
Ellis, Mr. E. E.	.. 1 Rhesus Monkey (Golden variety).
Ellis, Mr. E.	.. 2 Indian Wild Pigs.

F

Freeman, Mr. T.	.. 1 Macaque Monkey.
Fooks, Mr. H. A.	.. 2 Australian Crested Doves, 1 Python (young), 1 Indian Magpie Robin, 8 Bustard Quails, 12 Zebra Finches, 3 Yellow-wattled Lapwings, 1 Gold Plover 1 Ruddy Crake, 1 Varanus Flavescens.

G

Girard, Mr. F. E.	.. 1 Cobra.
Gerard, Mrs. E. E.	.. 1 Lesser Sulphur-crested Cockatoo.
Ghosh, Mr. P. N.	.. 1 Fishing Cat.

H

Hazaribagh, Ranchi Motor Service, Ltd. ..	1 Sloth Bear (cub).

I

Inchcape, The Right Hon'ble The Earl of	..	2 Orang Outang.

J

Jodhpur, Zoological Gardens, The Superintendent.		3 Indian Gazelles.
Jorasanko Police Station, The Officer-in-charge.		1 Rhesus Monkey.

K

Kindersley, Major J. B.	.. ..	1 White Squirrel.
Kirk, Mrs. E. S.	.. ..	1 Alexandrine Parrot.
Kristo Babu	.. ..	1 Rhesus Monkey.

L

Lepatourel, Mrs.	.. ..	3 Indian Magpie Robins.

M

Murray, Miss E.	.. ..	1 Sloth Bear (cub).
Meston, Mr. D. G.	.. ..	3 Pythons.
Mukherjee, Mr. M. M.	.. ..	1 Indian Antelope.
Mukherjee, Mr. B. D.	.. ..	1 Macaque Monkey.
Mukherjee, Mr. P. L.	.. ..	2 Assam Mynas.
Majumdar, Mrs.	.. ..	1 Pintail Duck.

O

Officer, The Chief Medical, B. N. Rly.	..	1 Pelican (young).

P

Pradhani, Mr. K. C. Rai	.. ..	1 Python.

R

Rahman, Mr. A.	.. ..	1 Sharp-nosed Crocodile.
Roy, Mr. B. C.	.. ..	1 Gecko.
Roy, Mr. S. N., I.C.S.	.. ..	1 Leopard (cub).
Robinson, Mrs. F. B.	.. ..	1 Indian Wolf (cub).
Raman, Mr. S. K. V., I.C.S.	.. ..	1 Indian Ratel.

S

Surguja, The Maharaja of ..	.. 2 Tiger (cubs), 1 Leopard (cub).
Singh, Raja Bahadur, Bisseswar	.. 1 Leopard.
Sing, Mr. R. N. ..	.. 1 Hanuman.
Singh, Raja Laltu Bux, M.L.A.	.. 2 Sloth Bears.
Set, Mr. G. B. ..	.. 4 Bengal Green Pigeons.
Sen, Mr. J. B. ..	.. 1 Hog Deer.
Sah, Babu Srinath ..	.. 1 Gharial (young).
Shea, Miss P. ..	.. 2 Black-headed Orioles.
Shea, Miss P. H. ..	.. 1 Blue-cheeked Barbet.
Stork, Mrs. D. M. ..	.. 1 Adjutant.
Sassoon, Mr. R. ..	.. 4 Black-bellied Sand-grouse, 2 Pintail Sand-grouse.

T

Talchar, The Raja of ..	.. 1 Python.

U

Upson, Mr. H. ..	.. 1 Gecko.

W

Waite, Mr. ..	.. 1 Sloth Bear (cub).
Waddle, Mr. C. ..	.. 1 Rhesus Monkey.

Z

Zorab, Mr. L. K. ..	.. 1 Lycodon Aulicus.

B. G. Press—1938-39—10776D—250.

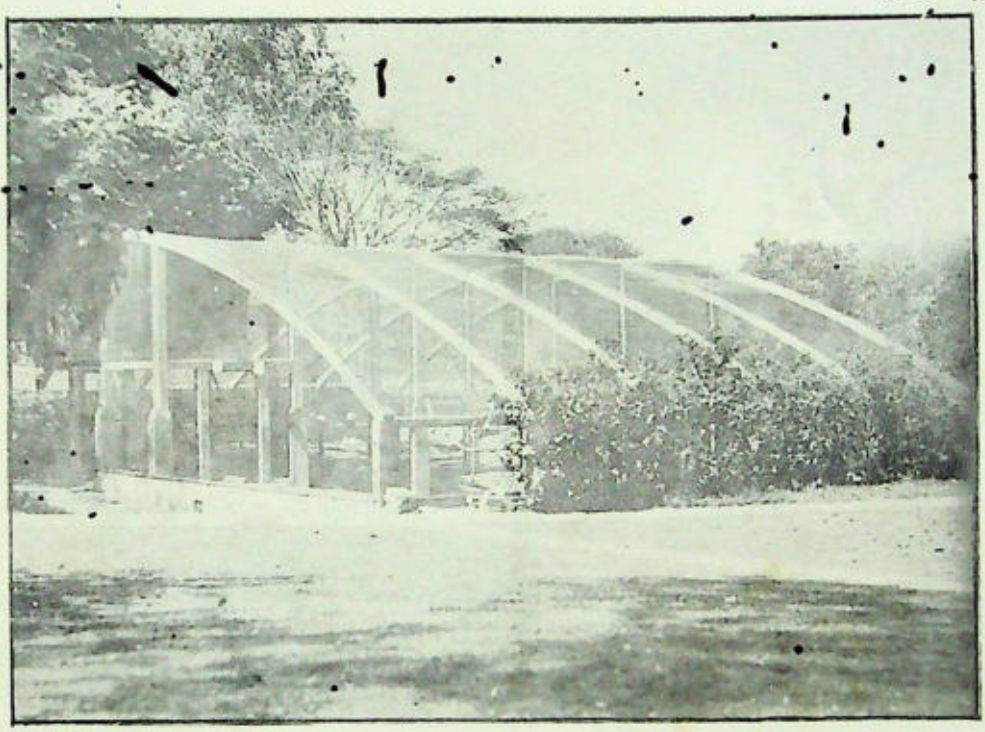


Government of Bengal

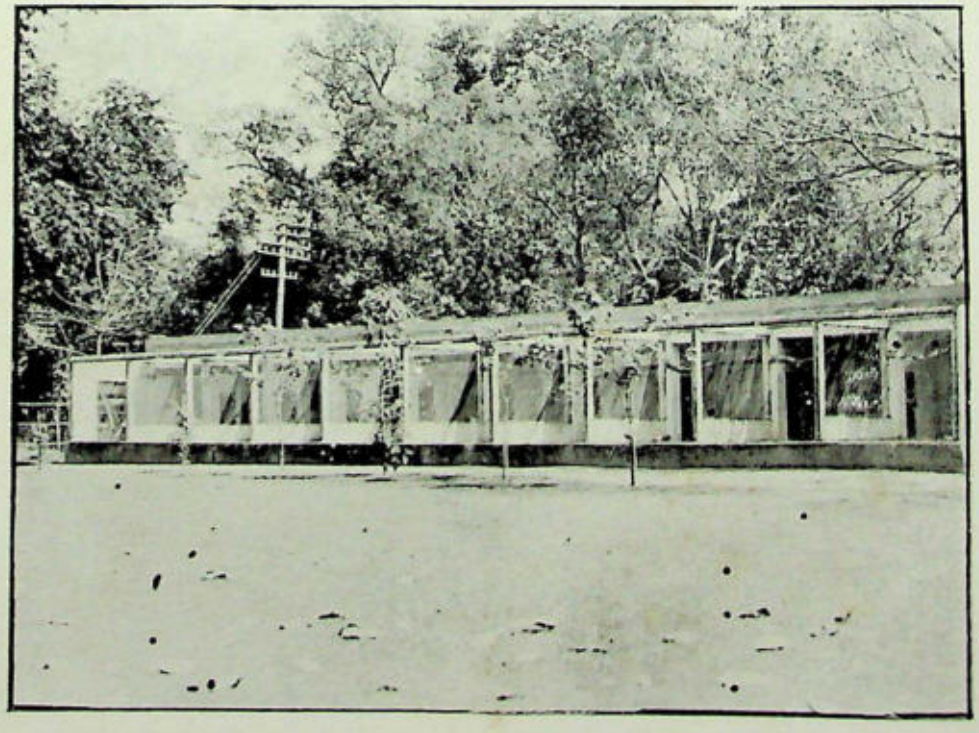
Report of the Honorary Committee for the Management of the Zoological Garden, Calcutta

1938-39

Superintendent, Government Printing
Bengal Government Press, Alipore, Bengal
1940



Boat House.



Bolaram House.

Report of the Honorary Committee for the Management of the Zoological Garden, Calcutta, for the year 1938-39.

The Committee have the honour to submit their report for the year ending 31st March 1939 supplemented, as in former years, by—

(1) The Superintendent's report upon the Zoological collection.
(2) Abstract of accounts of ordinary receipts and expenditure.
(3) Monthly returns of visitors and gate receipts and a list of donors and their donations.

The Committee consisted of:—

President.

The Hon'ble Mr. Justice G. D. McNair, M.B.E.

Vice-Presidents.

W. K. Dods, Esq., C.M.Z.S., M.B.O.U.

Dr. Satya Charan Law, M.A., Ph.D., F.Z.S., Second Vice-President.

Honorary Secretary and Treasurer.

H. A. Fooks, Esq., from 1st April 1938 to 26th February 1939.

E. A. Paterson, Esq., from 27th February 1939 to 31st March 1939.

Nominated Members.

Nawab Sir Asif Qadr Saiyid Wasif Ali Mirza, Khan Bahadur, Mahabat Jang, Nawab Bahadur of Murshidabad, K.C.S.I., K.C.V.O.

Sir David Ezra, KT., F.Z.S., M.B.O.U.

Rai Ajit Nath Das Bahadur, F.Z.S., M.R.A.S.

K. C. De, Esq., C.I.E., I.C.S.

G. Morgan, Esq., C.I.E., F.R.H.S., F.Z.S., M.L.A.

Maharaj Kumar Uday Chand Mahtab, B.A., of Burdwan.

The Hon'ble Mr. Justice T. Ameer Ali, Bar.-at-Law.

Dr. Sir. U. N. Brahmachari, Rai Bahadur, M.A., M.D., PH.D.

Nawabzada A. S. M. Latifur Rahman, M.A. (Cantab.), Bar.-at-Law.

Saileswar Singh Roy, Esq., M.L.C.

Phanindra Nath Brahma, Esq.

J. A. Clough, Esq.

A. F. M. Abdul Ali, Esq., M.A., F.R.S.L.

G. R. Dods.

B. N. Roy Chowdhury, M.A., Bart.-at-Law.

Ex-officio Members.

The Commissioners of Divisions in Bengal.

The Executive Engineer, Suburban Division, Public Works Department.

The Director of Public Health 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 Director, Civil Veterinary Department, Bengal.

The Professor of Biology and Zoology, Medical College, Calcutta.

The Superintendent of the Royal Botanic Garden, Sibpur.

The Mayor of Calcutta.

The Principal of the Bengal Veterinary College, Calcutta.

The Forest Utilisation Officer, Bengal.

Appointments.—Mr. B. N. Ray Chowdhury, a Councillor, Corporation of Calcutta, was appointed as a member of the Committee to represent the Corporation for the year 1938-39 and Mr. Phanindra Nath Brahma, a Councillor of Corporation of Calcutta, was re-appointed as a member of the Committee to represent the Corporation for the year 1938-39.

Resignation.—Mr. S. C. Lyttelton, on retirement from India in March 1939, resigned his membership of the Committee. His resignation was accepted with regret and an expression of thanks was conveyed to him for the many useful services rendered by him to the Garden.

Staff.—The following is a list of the Superior staff of the Garden at the end of 1938-39:—

Superintendent.—Mr. Nagendra Nath Banerjee, G.B.V.C., F.Z.S.

First Assistant Superintendent.—Khan Sahib S. M. Yaqub.

Second Assistant Superintendent.—Mr. N. Mukherjee, G.B.V.C., F.Z.S., F.L.S., F.R.H.S.

Store-keeper.—Babu Jugal Kishore Roy.

Clerk.—Babu Tarak Chandra Chatterjee.

Accountant. Babu Gobardhan Ch. Auddy from 1st August 1938.

Gate clerk.—Babu Bepin Behari Chatterjee.

The menial staff of the Garden at the end of 1938-39 comprised:—

1 Salutri.	1 Carpenter.
1 Jamadar.	2 Bistis.
8 Durwans.	1 Cook.
20 Keepers.	2 Cartmen.
1 Head Gardener.	1 Night Watchman.
14 Gardeners.	1 Chaprasi.
3 Sweepers.	1 Syce.

1 Scytheman.

In addition temporary men were engaged as required.

Her Excellency the most Hon'ble the Marchioness of Linlithgow kindly visited the Gardens on the 20th December 1938 and evinced great interest in a number of the exhibits.

As usual various births took place amongst mammals, the most important being one female Giraffe in May 1938 but which died in February 1939. This was the first record in the Gardens of this event.

Among notable acquisitions to the collection are to be mentioned a pair of Elands from South Africa, a pair of Orang-outangs from Sarawak and a pair of Anoas from the Celebes. Birds include Lesser and Red Birds of Paradise from New Guinea and a pair of Satin Bower Birds from Australia, the rarest and most noteworthy addition being a Cock of the Rock from Brazil which was purchased from Mr. Meems.

The breeding of pheasants and other birds was not as satisfactory as during the previous year though on the whole we have no cause for complaint.

It is interesting to record the increase of wild birds in the Gardens amongst which may be mentioned some four hundred Lesser Whistling Teals. These stayed with us throughout the cold weather.

Gardens.—Certain improvements in landscape gardening have been carried out by the planting of shrubberies and trees. Annuals did well and were maintained at their usual standard.

The Garden was awarded a first prize of a silver cup for a group of annuals of thirty pots and several other prizes at the last Agri-Horticulture Society's Flower Show held in February 1939.

Improvement.—The following New works were undertaken during the year under report:—

(1) *Otter Pit.*—A new Otter-pit was constructed to the north of the Reptile House. This provides a large pool bounded on one side of a sandy beach and the entire structure is surrounded by a concave wall.

(2) *Crane Enclosure.*—The old wooden sheds which were in a state of collapse were dismantled and a new shed of concrete, with openings into the various enclosures erected instead. In addition a dwarf wall of cement plaster has been added to the base of the existing wire-netting enclosure.

(3) *Hoolock Island.*—As the retaining wall round the Hoolock Island was falling in owing to it being too perpendicular, a sloping brick bank was erected and covered with cement plaster. Steps were made at intervals to allow passage to the surrounding moat.

(4) *Bolaram House.*—As no repairs had been carried out since it was built and it was consequently overrun by vermin it was decided to demolish the old building and construct a new House on the same site consisting of ten rooms after the design of the existing Pheasant House. The roof floor and pillars, however, were made of re-inforced concrete and against the invasion of rats and the runs covered with ½ inch mesh Galvanised link wire netting.

(5) *Lean-to-shed.*—This building also was very old and unsuitable in every way. The whole structure was demolished and a new building of re-inforced concrete replaces it. There are two large flight cages with shelters and also four other large compartments all covered with ½ inch mesh link wire netting.

(6) *Hyæna House.*—This building, which for years was an eyesore was demolished and a modern re-inforced concrete building put up. The House now has two rooms on each side with an open enclosure in the centre.

(7) *Refreshment Pavilion.*—A new Ladies' Cloak Room was built in the north side of the Refreshment Pavilion.

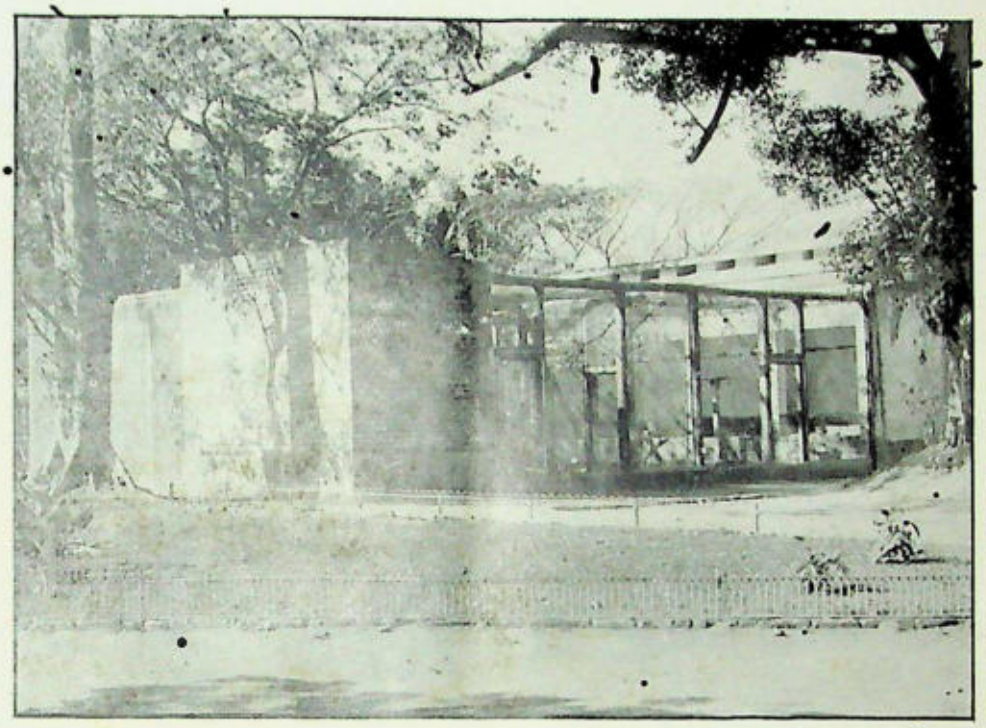
(8) A number of corrugated zinc sheds have been erected in the Antelope and Deer Paddocks, enabling the animals to take shelter in inclement weather.

(9) A survey of the roads was made and scheme drawn up to repair all paths and complete the circular road with a bitumen surface.

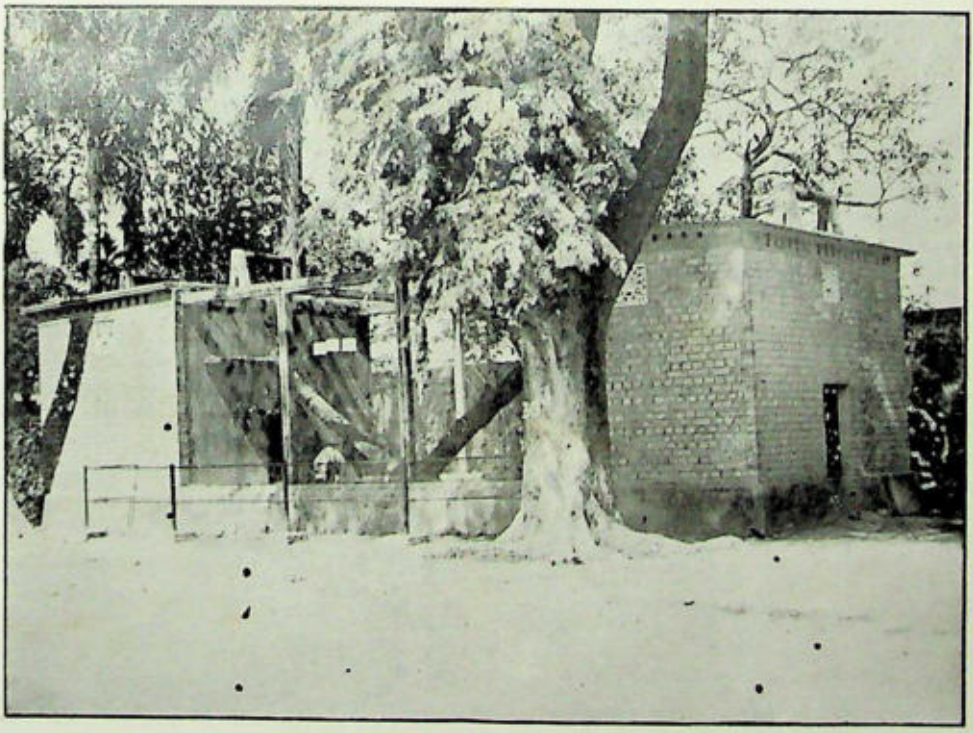
It was suggested that all the roads should be narrowed to a maximum of 10 feet as being sufficient to carry lorries, cars and carriages, etc. and 6 feet in case of paths round the cages for the use of pedestrians only.

The main portion of this scheme was completed and roads were put in thorough repair by picking up surface of the existing roadways, relaying with *khoa* (new and old) edging with brick and finishing with a top surface dressed with soorkey and lime. The general result is a neater appearance and a surface free from slipperiness during the rains.

A small portion, north-west of Sarnomoyi House and southern approach of the Schwendler House, was treated with brick-on-edge pavement and ruled cement pointing.



Lean-to-Shed.



Hyaena House.

Two others near the Hoollock Island and south-east of Dumraon House up to the Peacock enclosure were covered with "Colas" on a layer of 3 inches thick stone metal grouting and finished with seal-coated stone chips.

Financial position.—The financial position of the Garden is satisfactory as expenditure is balanced by income. The receipt from visitors was Rs. 65,009-8 against Rs. 58,664-9, which shows a satisfactory increase over the previous year. This can be put down to the Churamoni Yoga festival which was celebrated in November after an interval of 25 years. The turnstiles registered a record attendance of 77,703 visitors during the nine days of the festival.

Visitors.—The following is a comparative statement of visitors and receipts for the last four years:—

Years.		Visitors.	Receipts.	
			Rs.	a.
1935-36	..	919,172	57,477	11
1936-37	..	889,099	55,622	12
1937-38	..	936,744	58,664	9
1938-39	..	1,038,678	65,009	8

The Corporation of Calcutta.—As usual a grant of Rs. 26,896-8, a sum equal to the amount of the rates payable to the Corporation, was sanctioned for the year under report.

The Committee desire to express their thanks for this generous contribution.

A number of children under four years of age and many school children attended by their teachers were admitted free to the Garden. In addition 58,738 persons visited the Garden on free days.

A detailed statement of the number of visitors and receipts appears in Appendix B.

The Committee wish to convey their appreciation and thanks to those members of the public as well as to members of the Garden who have contributed towards the satisfactory results achieved during the year under review.

A list of those ladies and gentlemen who have made gifts to the collection will be found in Appendix C. There were in addition many offers to present animals to the Garden, but these offers could not always be accepted either because the particular species was already sufficiently well represented, or owing to lack of accommodation.

The Committee also desire to express their thanks to the following Railway and Steamer Companies for kindly conveying animals belonging to the Garden free of charge:—

(1) British India Steam Navigation Company.
(2) East Indian Railway.
(3) Rivers Steam Navigation Company, Limited.

As usual Mr. W. K. Dods, the Vice-President of the Garden has been instrumental in procuring and presenting to the Garden a variety of birds and beasts. He has also been a generous donor of flower seeds and he has been responsible for providing large quantities of fresh ant's eggs which contribute materially to the well-being of the birds. The Committee record with thanks his gifts and services.

Thanks are due to the Commanding Officer of the 1/15th Punjab Regiment, stationed at Alipore, for permitting their regimental band to play at the Garden on Tuesday and Sunday afternoons and the Committee again record their indebtedness to those members of the public who sent old or broken horses to the Zoological Gardens, where they were destroyed under the most humane conditions.

G. D. McNAIR,
President.

H. A. FOOKS,
Honorary Secretary.

SUPERINTENDENT'S REPORT.

I have the honour to submit my report on the condition and progress of the Zoological collection.

The following comparative table shows the number on the 31st March in the various collection during the last four years:—

Years.	Mammals.	Birds.	Reptiles.
1935-36	450	2,196	113
1936-37	448	2,121	69
1937-38	441	2,456	90
1938-39	426	2,219	112

The health and condition of the animals have been good and the death rate has not exceeded the average normal percentage and the standard of the collection generally has been maintained by the addition of many interesting animals and birds and all available space is filled to capacity.

Among the important additions to the collection during the year the following deserve special mention:—

A pair of Orang-utans youngs.
1 Young male Elephant.
1 Female Elephant.
1 Black leopard.
21 Hume's Barred-backed Pheasants.
1 Cock of the Rock (new to the Gardens).
2 Common Crowned Pigeons.
1 Green ground Cuckoo.
2 Malayan Peacock Pheasants.
3 Gayals.

Among the notable presentations to the Garden during the year the following deserve special mention:—

This year again the Right Hon'ble the Earl of Inchcape sent a young male Orang-utan.

1 Lioness by Raja Bahadur Vischweshwar Singh Sahib of Darbhanga.
2 Lion cubs by Bhupal Shamsher Jung Bahadur.
1 Black leopard by Mr. M. Mukherjee.
2 Leopard cats by the Rani Saheba of Nandgaon.
1 Leopard cat by Mr. P. N. Ray.
2 Malayan Bears by Mr. E. P. Gee.

The more important purchases during the year were as follows:—

1 Black leopard.
1 Brow-antlered deer.
40 Greater Flamingos.
2 Hoolock Gibbons.

The following were received by exchange:—

From Wellington Zoo.

2 Black Swans.

From Pretoria Zoo.

1 Male Eland.
1 Pair Vervet Monkeys.

From Sydney Zoo.

4 Black-winged Pelicans.
1 Male Great Wallaroo.
1 Male Bennett's Wallaby.
1 Male Great Kangaroo.
1 Male Rufous Kangaroo.
1 Male Black-tailed Wallaby.
2 Satin Bower Birds.

From Dr. J. A. Coenraad, Sumatra.

A pair of Lesser Birds of Paradise.
Two cock Red Birds of Paradise.
1 Pair Golden Cats.
1 Tree Kangaroo.

From Mr. Sherer.

1 Female Eland.

From Mr. A. Meems.

1 Male Orang-utan.
1 pair Anoas.
2 Crowned Cranes.

From Dewan of Tehri-Garwal State.

2 Gorals.

From Raja Sahib of Talchar.

1 Female Nilgai.

The following is a list of animals and birds that were bred in the Garden:—

1 Giraffe.
1 Rufous Kangaroo.
2 Bennett's Wallaby.
3 Arabian Baboons.
1 Hanuman.
1 Macaque Monkey.
1 Barbary Sheep.
1 Indian Gazelle.
11 Indian Antelopes.
7 Four Horned Antelopes.
5 Javan Mouse Deer.
2 Barking Deer.
8 Fallow Deer.
2 Hog Deer.
4 Sambar Deer.
8 Spotted Deer.
1 Nilgai.
4 Indian Hare.
4 Racoons.
1 Crested Curassow.
1 Cockateel.
3 Argus Pheasants.
2 Gold Pheasants.
1 White crested Kalij Pheasant.
3 Malayan Crested and Siamese Crested Fireback Pheasants.
8 Egyptian Geese.
8 Mute Swans.
1 Ruddy Crake.
5 Bronze-winged Pigeons.
6 Tambourine Pigeons.
7 Australian Crested Doves.
6 Diamond Doves.
4 Sonnerat's Jungle Fowl.
4 Moorhen.

The following were sent to :—

Zoological Society of London.

68 Cattle Egrets.
4 Brahminy Kites.
4 Common Kites.
12 Banded Kraits.
18 Cobras.
6 Russell's Vipers.
6 Pythons.
15 Water snakes.
11 Grass snakes.
8 Rat snakes.
12 Geckos.

Dublin Zoo.

2 Common Kites.
4 Brahminy Kites.
24 Cattle Egrets.
12 Purple Coots.
1 Leopard (Cub).
1 Indian Fish Owl.
2 Crested Serpent Eagles.
2 White-eyed Buzzards.

Taronga Zoological Park Trust, Sydney.

1 Himalayan Bear.

Wellington Zoo.

1 Striped Hyæna. | 1 Indian Wolf.
1 Leopard.

Melbourne Zoo.

75 Rhesus Monkeys.

Adelaide Zoo.

80 Rhesus Monkeys. | 6 Entellus.

Pretoria Zoo.

3 Entellus.

Zoological Society of San Diego, California.

24 Assorted Turtles.

Mysore Zoo.

3 Barbary Sheeps. | 6 Bronze Winged Pigeons.

Rangoon Zoo.

2 Barking Deer.

Sir Phillip Sassoon, London.

4 Demoiselle Cranes.

A. Ezra, Esq., O. B. E., London.

6 Red Wattled Lapwings.

Dr. H. Leighton Jones, Australia.

8 Rhesus monkeys.

Frank Buck, Esq.

4 Blyth's Tragopan Pheasants.

Mr. J. Sherer.

2 Four horned Antelopes.

Mr. A. Meems.

2 Sambar Deer.
1 Young male elephant.
1 Gaylal.
3 Indian Antelopes.
24 Cotton Teals.

Raja of Talcher.

1 Indian Antelope.
1 Fallow Deer.
2 Barking Deer.

The following animal was sold :—

1 Young female elephant.

The more important deaths during the year were:—

2 Male Orang-utans (Young).
1 Male Malayan Tapir (old).
1 Bull Brindled Gnu
1 Bull Markhor.
1 Bull Pigmy Hioppopotamus.
1 Buck Goral.
1 Llama.
1 Tiger.
1 Tigress.
1 Gayal Cow.
1 Kudu Cow.
1 Chakma Baboon.

There were other losses by death among the smaller mammals, birds and reptiles, from accident, injury or other causes which could not be foreseen.

A veterinary dispensary was maintained under a qualified Assistant Veterinary Surgeon during the year under review.

Thanks are due to the Principal, Bengal Veterinary College, Belgachia, Calcutta, and to the Veterinary Adviser to the Government of Bengal for their kind help in several cases.

A post-mortem examination was made of nearly every important animal that died during the year, and all carcasses were, as usual, sent to the Director, Zoological Survey of India, Indian Museum or to the Professor of Zoology, University College of Science, Calcutta, for scientific purposes.

A list of more important cases which were subjected to post-mortem diagnosis is given below:—

Pluro Pneumonia.—1 Hoolock, 1 Orang.

Hepatitis and diseases of the liver.—1 Ring-tailed Coati, 1 Lion marmoset, 1 Markhor.

Injury.—1 Chinese water Deer, 1 Kudu, 1 White Crane.

Gastro-Enteritis.—1 White-handed Gibbon, 1 Pecquet's Parrot, 1 Malayan Bear, 1 Giraffe (young), 1 Goral.

Pulmonary Abscess.—1 Malayan Tapir.
Cardine diseases.—1 Great Wallaroo.
Debility.—1 Brindled Gnu.
Dyslokia.—1 Lion marmoset.
Septicæmia.—1 Pigmy Hippo.
Tuberculosis.—1 Llama, 2 Tigers.
Paralysis.—1 Chacma Baboon.
Abscess.—1 Gayal.

S. M. YAQUB,
First Assistant Superintendent.

R. N. BOSE,
Acting Superintendent.

The 10th January 1940.

APPENDIX A.

I.—Comparative statement of receipts for 1937-38 and 1938-39.

Heads and items.	1937-38.			1938-39.		
	Rs.	a.	p.	Rs.	a.	p.
Opening balance	4,088	12	8	10,742	1	4
Interest	545	12	0	542	12	0
Donations and subscriptions ..	116	0	0	132	0	0
Entrance receipts	58,664	9	0	65,009	8	0
Rent	9,145	0	0	7,760	0	0
Carriage, rickshaw, etc.	1,118	8	0	957	8	0
Picnics	142	0	0	126	0	0
Rhino urine	2,728	8	0	2,791	8	0
Miscellaneous receipts	16,489	12	9	11,847	15	3
Government contribution	16,000	0	0	16,000	0	0
Total ..	1,09,038	14	5	1,15,912	4	7
Add—						
Receipts of 31st March 1937 (1936-37) paid in on 1st April 1937 (1937-38) ..	110	12	0	....		
Receipts of 31st March 1938, etc., but not paid in on 31st March 1938, but paid on the following year (1938-39)	....			280	10	0
Total ..	1,09,149	10	5	1,16,192	14	7
Deduct—						
Receipts of 31st March 1938, etc., not paid in on 31st March 1938, but paid in the year 1938-39 ..	280	10	0	....		
Receipts of 31st March 1939 and sale proceeds of animals, etc., not paid in on 31st March 1939 but paid in the following year (1939-40) ..	....			237	5	6
Total ..	1,08,869	0	5	1,15,955	9	1

II.—Comparative Statement of expenditure for 1937-38 and 1938-39.

	1937-38.			1938-39.		
	Rs.	a.	p.	Rs.	a.	p.
Establishment	17,616	8	0	16,780	14	0
Food of animals	30,470	3	3	33,749	10	6
Purchase of animals	3,104	4	0	5,437	5	0
Transport of animals	6,773	5	6	3,878	1	6
Miscellaneous contingencies	5,672	8	4	5,583	1	0
Repairs of roads	9,740	15	6	10,060	0	0
Repairs of buildings	11,512	14	3	6,098	14	3
Garden construction	9,721	0	3	10,163	5	9
Original construction	3,515	4	0	10,852	8	6
Total	98,126	15	1	1,02,603	11	6
Closing balance	10,742	1	4	13,351	13	7
Grand total	1,08,869	0	5	1,15,955	9	1

APPENDIX B.

Summary of visitors and Gate receipts during the year 1938-39.

Month and year.	Number of visitors.	Receipts. Rs. a. p.
1938.		
April	52,561	3,287 7 0
May	53,607	3,351 10 0
June	64,336	4,025 10 0
July	56,383	3,524 9 0
August	63,135	3,948 12 0
September	73,264	4,581 3 0
October	125,198	7,844 6 0
November	149,155	9,364 8 0
December	126,555	7,918 11 0
1939.		
January	126,061	7,883 4 0
February	84,147	5,261 0 0
March	64,276	4,018 8 0
Total	1,038,678	65,009 8 0

Free days.

Month and year.	Number of visitors.
1938.	
25th April	3,947
23rd May	4,415
20th June	4,001
18th July	3,494
15th August	5,451
19th September	4,617
17th October	5,607
14th November	6,565
19th December	7,889
1939.	
23rd January	4,461
17th Febuuary	4,356
27th March	3,935
Total	58,738

APPENDIX C.

List of donors during the year 1938-39.

A

Akram Hossain Bahadur, The Hon'ble Prince — 2 Saras Cranes.

B

Biswas, Dr. K. .. .. .. — 1 Russell's viper, 1 Banded Krait.

C

Chatterjee, Mr. S. C. .. .. — 1 Sloth Bear(cub).

D

Dey, Babu Bholanath .. .. — 1 Spotted Deer.
Director, School of Tropical Medicine .. — 4 Rhesus Monkeys.
Director (Assistant), School of Tropical Medicine. — 4 Rhesus Monkeys.
Dods, Mr. W. K. .. .. .. — 22 Cotton Teals, 11 Lineated Barbets, 13 Sandpipers, 9 Ruffs, 15 Yellow wattled Lapwings, 3 Red-wattled Lapwings, 48 Cattle Egrets, 1 pigeon, 17 Brahminy Kites, 3 Purple Coots, 7 Hawk Cuckoos, 3 Garganey Teals, 5 Indian Smaller Egrets, 1 Lesser Egret, 9 Cinnamon Bitterns, 2 Little Bitterns, 1 Grass Owl, 8 Crested Serpent Eagles, 2 Gold Plovers, 3 Blue-cheaked Barbets, 14 Bronze-winged Jacanas, 22 Pheasant-tailed Jacanas, 6 White-eyed Buzzards, 7 Painted Snipes, 2 Orange-headed Ground Thrushes, 12 Corn Crakes, 2 Banded Rails, 14 Stints, 3 Ring-necked Plovers, 11 Horned Owlets, 5 Marsh Harriers, 1 Indian Water Rail, 1 Indian Courser, 1 Ruby-throat, 6 Spotted Owlets 1 Koel, 6 Changeable Hawk Eagles, 9 Indian Fish Owls, 3 Bustard Quails, 1 Sky Lark, 2 Long-legged Buzzards, 1 Booted Eagle, 3 Ashy-headed Swallow Shrikes, 1 Lesser Whistling Teal, 3 Stork-billed Kingfishers, 1 Indian Roller, 1 Python, 1 Russell's Viper, 3 Grey-Owls, 1 Lesser Kestrel, 1 Asprey, 3 Yellow Wagtails, 3 Shikras, 1 Coral-billed Pigeon, 1 Hoope, 2 Pied Harriers.
Dutta, Babu Amarendra Nath .. — 1 Macaque Monkey.

E

Edmondson, Mr. T. .. .. — 2 Rhesus Monkeys.

F

Fooks, Mrs. H. A. .. .. .. — 1 Wild Dog (pup), 3 Common Otters, 1 Grey Lemur.
Fooks, Mr. H. A. .. .. — 6 Bronze-winged Pigeons.

G

Ganguli, Mr. M. .. .. .. — 2 Cobras, 2 Russell's vipers.
Greaves, Mrs. P. .. .. .. — 1 Lesser Sulphur-crested Cockatoo.
Gresham, Mr. S. R. .. .. — 2 Common Otters.

H

Hamid, Mr. M.	1 Sloth Bear (cub).
Hannah, Mr. R. F.	1 Red-headed Merlin.

I

Inchcape, The Right Hon'ble The Earl of	1 Orang-utan (young).

J

Jones, Mrs. O. G.	1 Hoolock.

K

Kallu, Master	1 Python.
Karmakar, Mr. R.	1 Banded Krait.
Kumar, Mr. O.	1 Python (young).

M

Macalpine, Mrs.	1 Ring-necked Parrakeet.
Marcan, Mr. M.	1 Chameleon.
Mondal, Babu Radha Kanta	2 Rhesus Monkeys.
Mookerjee, Mr. B. N.	2 White Storks.
Mukherjee, Mr. M.	1 Black Leopard, 1 Python, 1 Chestnut Coloured Bamboo Rat.
Mullick, Mr. T. N.	1 Sloth Bear (cub).
Multani, Mr. S. M.	1 Marsh Crocodile.

N

Nandgaon, The Rani Saheba of	2 Leopard Cats.

P

Pirie, Mrs. G. W.	1 Large Indian Squirrel.
Pucey, Mr. F.	1 Yellow Budgeregar, 2 Blue Budgeregars.

R

Raha, Mr. A. K.	1 Black Partridge.
Rahman, Khan Bahadur, M. W.	1 Python.
Ramgarh, The Maharajmata Sahiba of	2 Sloth Bear (cubs), 1 Spotted Deer.
Rana, Bhupal Shamsher Jung Bahadur	2 Lion (cubs).
Ray, Mr. P. N.	1 Leopard Cat.
Rost, Mrs. C.	1 Bengal Fox.
Rown, Capt. F. H.	1 Himalayan Bear.
Sen, Mr. S. C.	1 Indian Antelope.
Shrinandan, Mr.	1 Leopard.
Shutie, Mr. S. D.	1 Rhesus Monkey.
Sing Sahib, Raja Bahadur Bischweshwar	1 Lioness.
Smith, Brigadier L. Lawrence	1 Indian Antelope.
Smith, Mr. S. A.	1 Common Otter.
Stevenson, Mr.	1 Himalayan Bear (cub).

W

Waddle, Mr. J. C.	1 Hoolock.
Walker, Mr. J. T.	1 Hoolock.

Z

Zorab, Mr. L. K.	1 Python.

B. G. Press—1240-41—876D—250.



Government of Bengal

Report of the Honorary Committee for the Management of the Zoological Garden, Calcutta 1939-40



Superintendent, Government Printing
Bengal Government Press, Alipore, Bengal
1941

Report of the Honorary Committee for the Management of the Zoological Garden, Calcutta, for the year 1939-40.

The Committee have the honour to submit their report for the year ending 31st March 1940, supplemented, as in former years, by—

(1) The Superintendent's report upon the Zoological collection.

(2) Abstract of accounts of ordinary receipts and expenditure.

(3) Monthly returns of visitors and gate receipts and a list of donors and their donations.

The Committee consisted of:—

President.

The Hon'ble Mr. Justice G. D. McNair, M.B.E.

Vice-Presidents.

W. K. Dods, Esq., C.M.Z.S., M.B.O.U.

Dr. Satya Charan Law, M.A., Ph.D., F.Z.S., Second Vice-President.

Honorary Secretary and Treasurer.

H. A. Fooks, Esq., from 7th April 1939 to 31st May 1939; from 25th December 1939 to 10th February 1940 and from 28th March to 31st March 1940.

E. A. Paterson, Esq., from 1st to 6th April 1939; from 1st June 1939 to 24th December 1939 and from 11th February 1940 to 27th March 1940.

Nominated Members.

Nawab Sir Asif Qadr Saiyid Wasif Ali Mirza, Khan Bahadur, Mahabat Jang, Nawab Bahadur of Murshidabad, K.C.S.I., K.C.V.O.

Sir David Ezra, KT., F.Z.S., M.B.O.U.

Rai Ajit Nath Das Bahadur, F.Z.S., M.R.A.S.

K. C. De, Esq., C.I.E., I.C.S.

G. Morgan, Esq., C.I.E., F.R.H.S., F.Z.S., M.L.A.

Maharaj Kumar Uday Chand Mahtab, B.A., of Burdwan.

The Hon'ble Mr. Justice T. Ameer Ali, Bar.-at-Law.

Dr. Sir U. N. Brahmachari, Rai Bahadur, M.A., M.D., Ph.D.

Nawabzada A. S. M. Latifur Rahman, M.A., (Cantab.), Bar.-at-Law.

Sailesswar Singh Roy, Esq., M.L.C.
Phanindra Nath Brahma, Esq.
J. A. Clough, Esq.
A. F. M. Abdul Ali, Esq., M.A., F.R.S.L.
G. R. Dods, Esq.
B. N. Roy Chowdhury, M.A., Bar.-at-Law.

Ex-officio Members.

The Commissioners of Divisions in Bengal.
The Executive Engineer, Suburban Division, Public Works Department.
The Director of Public Health 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 Director, Civil Veterinary Department, Bengal.
The Professor of Biology and Zoology, Medical College, Calcutta.
The Superintendent of the Royal Botanic Garden, Sibpur.
The Mayor of Calcutta.
The Principal of the Bengal Veterinary College, Calcutta.
The Forest Utilisation Officer, Bengal.

Appointments.—Mr. B. N. Roy Chowdhury, a Councillor, Corporation of Calcutta, was re-appointed as a member of the Committee to represent the Corporation for the year 1939-40. The Councillor of Ward No. 24 of Corporation of Calcutta, was appointed to be an ex-officio member of the Committee of Management of this Garden. The Ward Councillor of Ward No. 24 was appointed as a permanent ex-officio representative of the Calcutta Corporation on the Honorary Committee of Management of this Garden with a view to obviate the necessity of notifying a fresh appointment every year.

Dr. S. N. Roy Chowdhury, L.M.S., has been engaged on probation as a Medical Officer of this Garden on a monthly allowance of Rs. 25 per month with effect from 1st December 1939. He visits the Garden twice weekly and also attends serious cases or accidents among the employees.

Staff.—The following is a list of the superior staff of the Garden at the end of 1939-40:—

Superintendent.—Mr. Nagendra Nath Banerjee, G.B.V.C., F.Z.S., from 1st April 1939 to 3rd May 1939.

Acting Superintendent.—Mr. R. N. Bose, G.B.V.C., from 4th May 1939 to 31st March 1940.

First Assistant Superintendent.—Khan Sahib S. M. Yaqub.

Second Assistant Superintendent.—Mr. N. Mukherji, G.B.V.C., F.Z.S., F.L.S., F.R.H.S.

Store-keeper.—Babu Jugal Kishore Roy.
Clerk.—Babu Tarak Chandra Chatterjee.
Accountant.—Babu Gobardhan Ch. Auddy.
Gate Clerk.—Babu Bepin Behari Chatterjee.

The office and menial staffs of the Garden at the end of 1939-40 comprised:—

Office staff :—

1 Salutri.	1 Gate Clerk.
1 Record Keeper.	2 Assistant Gate Clerks.

1 Ticket Painter.

Menial staff :—

1 Jamadar.	1 Head Durwan.
23 Keepers.	14 Durwans.
2 Bhistees.	1 Head Mali.
1 Cook.	1 Mate Mali.
1 Food Distributor.	4 Malis.
1 Carpenter.	4 Cooly Sardars.
1 Mason.	10 Coolies.

1 Blacksmith.

In addition temporary men were engaged as required.

Notable Visitors.—The Garden was closed to the public on the 30th December 1939 from 7 to 9-30 a.m. on the occasion of the visit of their Highnesses the Maharaja and Maharani of Nepal. At the conclusion of their visit, His Highness very generously made a donation of Rs. 500 for distribution among the employees of the Garden.

Two Elephants—Begum and Joymala—were sent to Belvedere to carry a trumpeter and Father Christmas for the children's party given by Their Excellencies the Viceroy and the most Hon'ble the Marchioness of Linlithgow on the 28th December 1939. The Comptroller of their Excellencies household wrote to express thanks and appreciation of their Excellencies.

Her Excellency Lady Mary Herbert with her son visited the Garden on the 11th January 1940, and showed great interest in a number of the exhibits. She also rode the camel.

In December 1939, six cat-bears (Common Pandas) were acquired and two of them were sent to Belvedere for inspection by their Excellencies the Viceroy and the most Hon'ble the Marchioness of Linlithgow together with a written resume of their food and habits.

Important births.—There have been various important births amongst mammals and birds, the most important being one Hippopotamus (female) in September 1939, a female Camel in January 1940, and a male and two female Gayals. All are thriving and are a great attraction.

Since the outbreak of war it has been impossible to secure animals from outside India. Himalayan pheasants arrived in large numbers due to the difficulties attending their customary export, and the Garden was fortunate in being able to secure specimens of Blood, Hume's Barred-backed, Blyth's Tragopan, Koklas, Monal and Purple Kalij.

This year again the Garden succeeded in rearing a number of birds of which the most interesting were:—

Mute Swans;
Black Swans;
Tambourine Pigeons;
White Peafowl;
Common Peafowl;
Saras Crane; and
A number of Pheasants.

The following laid but either did not hatch or were unsuccessful in rearing chicks:—

Ostrich.	Argus Pheasant.
Emu.	Gold Pheasant.
Cheer Pheasant.	Silver Pheasant.

This cold weather again saw advent of a huge flock of Lesser Whistling Teal. It is hoped, in time that some will stay and breed. Actually one pair remained and bred but did not succeed in rearing their brood. Night Herons, Lesser Cormorants and Darters are represented in such quantities as to become a nuisance to pedestrians and a danger to the trees. A steady increase in the Cattle Egrets which visit the Gardens has to be reported. They are a most attractive sight as they sweep in to roost in the sun-set.

Losses.—This year as regards deaths the Garden has been most unfortunate as it lost several of very best exhibits. The greatest of these was the breeding pair of giraffes followed by a pair of young Anoas, two female Chimpanzees, a Tiger and a Mississippi Alligator. This Alligator had lived in the Garden Reptile House for at least 25 years.

Garden.—The good condition of the Garden was well maintained throughout the year and the lawns and walks presented a trim and neat appearance.

Flowers this year were particularly good and the Garden succeeded again in winning a silver cup, a medal and several first and special prizes for entries at the Agri-Horticultural Society's Exhibition.

Improvements.—The newly made re-inforced concrete building for hyaenas, a photo of which appeared in last year's report, was covered with interlinked wire-netting of one inch mesh.

Hippopotamus Pit.—Due to an unfortunate accident when a young Indian girl fell into the enclosure and was killed by the male Hippo on the 24th April 1939 immediate steps were taken to prevent a recurrence of the tragedy by lowering the ground level on the inside of the enclosure and by buttressing the walls. The path round the circumference of the pit was partly shut off and a fence of interlinked

ZOOLOGICAL GARDENS
CALCUTTA

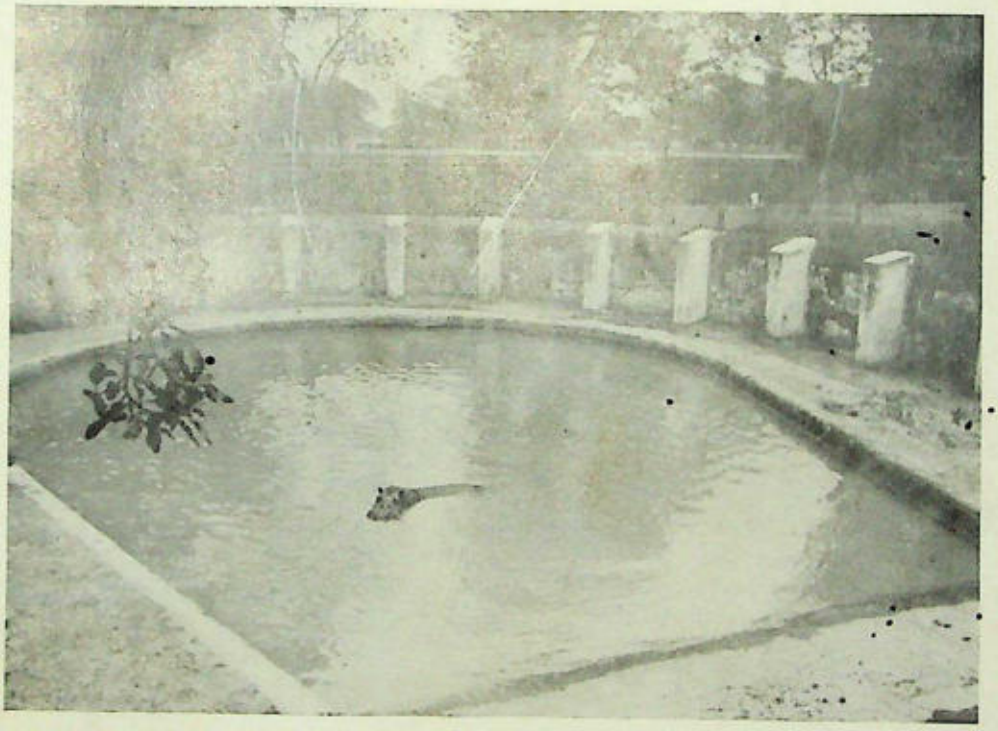


Photo S. Singh Roy.

Hippopotamus Pit.

BOTANIC GARDENS
CALCUTTA



Photo S. Singh Roy.

Two-storied Building for Menial Staff.

wire-netting—three feet high was erected on the surrounding walls. A further fencing of expanded metal of 1½" mesh was placed 6' above and 5' below the platform, round the southern portion of the two pits and fixed in concrete.

A New Two Storied Building for Menial Staff.—The Committee of Management discussed the question of providing additional quarters for the menial staff of this Garden numbering more than one hundred and sanctioned erection of a two-storied building containing ten rooms on each floor with verandah and kitchen arrangements in Begunbari. Estimates and plans were called for from Messrs. Martin & Co., Mackintosh Burn, Ltd., and several other building contractors.

This building has since been erected and is of the following dimensions:—

130'–0" × 16'–10" with a platform 4' wide 1'–3" high on the ground floor and a projected open balcony 4' wide on the first floor level.

Rooms measure 10' × 10' × 10', kitchens 5' × 5' × 10' and verandahs 5' × 5' × 10'. Suitable ventilators have been provided for both rooms and kitchens.

Repairs to Old Quarters of the Menial Staff.—Extensive repairs have been effected to both the two-storied and single-storied blocks. It is further under consideration to provide "pucca" kitchen blocks opposite these quarters.

Boundary Wall.—The exterior face of both the Garden and Begunbari boundary walls were colour-washed.

Pheasant House.—The outer enclosures of cages Nos. 22 to 27 were so infested with rats that it was essential to thoroughly reconstruct the floor and sides. This was done with concrete spread on wire-netting and the whole laid on a brick foundation. The result, so far, has been completely successful.

Drain from Indian Antelope Paddock to the N. E. Moat.—In order to drain off stagnant rain-water from the new extension, a small section of underground and a much larger section of surface drain was constructed. This runs from the Indian Antelope Paddock to the moat enclosing the new extension. These steps have been effective in securing the necessary drainage in the heaviest of downpours.

Refreshment Pavilion.—The entire building including the roof-top was colour-washed and the whole interior portion including wooden works were painted.

Lesser improvements were such items as the construction of concrete food troughs for animals, additional shelters for deer, repair or replacement of fences, repair in all cases to cages was carried out in concrete or such material which would prove more lasting than that formerly used.

Financial Position.—Below is given a tabular statement showing the number of visitors and gate receipts for the last four years. It will be seen that receipts have shown a marked increase since 1936-37. The peak year, 1938-39, was due to the Chooramoni Yoga Festival, an event taking place only four times in a century. Without the aid of this festival the receipts have this year come within Rs. 774 of the record and had it not been for a bad monsoon the same would have

eclipsed this figure. It might be mentioned at this point that one or two public shelters for the visitors during the rains are very necessary and it is hoped that this appeal will reach both the eye and heart of some of the numerous charitable-minded friends of this Garden.

Years.	Visitors.	Receipts. Rs.	a.
1936-37 . .	889,099	55,622	12
1937-38 . .	936,744	58,664	9
1938-39 . .	1,038,678	65,009	8
1939-40 . .	1,027,649	64,235	8

The Committee desire to convey their thanks to the Corporation of Calcutta for having again sanctioned our exemption from the payment of rates for the year 1939-40.

A large number of children under four years of age and many school children attended by their teachers were admitted free to the Garden. In addition 59,724 persons visited the Garden on free days. This would represent a sum of over Rs. 3,700.

A detailed statement of the number of visitors and receipts appears in Appendix B.

The Committee also wish to convey their appreciation and thanks to those members of the public as well as to members of the Garden who have contributed towards the satisfactory results achieved during the year under review.

A list of those ladies and gentlemen who have made gifts to the collection will be found in Appendix C. There were in addition many offers to present animals to the Garden, but these offers could not always be accepted either because the particular species was already sufficiently well-represented, or owing to want of accommodation.

The Committee also desire to express their thanks to the following Railway and Steamer Companies for kindly conveying animals belonging to the Garden free of charge:—

(1) British India Steam Navigation Company.

(2) East Indian Railway.

(3) Rivers Steam Navigation Company, Limited.

The band of the 1/15th Punjab Regiment could not be engaged for the whole cold weather season but the Howrah Police Band were an able substitution to the Regiment after they had left Calcutta. Thanks of the Committee are due to both the Commanding Officer and the Superintendent of Police for their assistance.

The Committee again record their indebtedness to those members of the public who sent old or broken down horses to the Zoological Gardens, where they are destroyed under the most humane conditions.

G. D. McNAIR,

President.

H. A. FOOKS,

Honorary Secretary.

SUPERINTENDENT'S REPORT.

I have the honour to submit the following comparative table showing the stock on the 31st March, in the collection during the last four years:—

Years.	Mammals.	Birds.	Reptiles.
1936-37 ..	448	2,121	69
1937-38 ..	441	2,456	90
1938-39 ..	426	2,219	112
1939-40 ..	418	2,125	50

The decrease in the mammals is due to a policy of not overcrowding the existing enclosures and steps were taken to thin out a number of deer.

The Reptile House owing to subsidence on one side which has cracked the plate glass fronts to the cages, has been only partially filled pending repair or remodelling.

Amongst the important additions during the year the following deserve special mention:—

By purchase—

1 Llama.	1 Red and yellow Macaw.
6 Cat-bears.	1 Blue and yellow Macaw.

11 Blood Pheasants.

By Birth—

1 Hippopotamus.	8 Mute Swans.
1 Camel.	4 Black Swans.
1 Grant's Zebra.	1 Green Imperial Pigeon.
1 Barbary Sheep.	2 Tambourine Pigeons.
3 Gayals.	1 Scarlet Ibis.
2 Common Marmosets.	1 White Peafowl.

1 Saras Crane.

By Presentation (see Appendix "C")—

3 Lion Cubs.	1 Tibetan Wolf.
1 Clouded Leopard.	3 Persian Gazelles.

1 White-browed Gibbon.

The following animals arrived at or left the Garden under the circumstances mentioned:—

From Pretoria Zoo (by exchange)—

1 Eland.	1 pair Stanley Cranes.

1 Vervet Monkey.

From Mr. Frank Buck (by exchange)—

1 Llama.

To The Zoological Society of London (by sale)—

13 Cobras.	8 Green Snakes.
6 Russell's Vipers.	26 Water Snakes.
6 Banded Kraits.	24 Bull Frogs.
6 Rat Snakes.	26 Lizards.

To Taronga Zoological Park Trust, Sydney (by sale)—

6 Rhesus Monkeys.

To Adelaide Zoo (by sale)—

50 Rhesus Monkeys.	7 Entellus Monkeys.

To Pretoria Zoo (by sale)—

1 Nilgai.	1 Sambar Deer.

To Dr. Leighton Jones, Australia (by sale)—

10 Rhesus Monkeys.

The most regrettable deaths during the year were:—

1 Llama.	2 Indian Lion cubs.
2 Giraffes.	1 Two-wattled Cassowary.
2 Anoas.	1 Clouded Leopard.
1 Eland.	2 Blessbok.
3 Chimpanzees.	1 Cock of the Rock.

Ordinary cases were dealt with in the dispensary maintained in the Gardens and in more severe cases, the Principal, Bengal Veterinary College, was asked for his assistance.

Amongst the commoner forms of disease the following may be mentioned:—

Infectious diseases.—Stray cases of Tuberculosis were found amongst the antelopes and deer. This diagnosis was confirmed by the Raymond Research Laboratory. This disease was found to be less common amongst the primates and still less in the carnivora. Pulmonary lesions were found to be very prevalent in antelopes and deer. A tiger was found to have died of intestinal lesions. Other common ailments were Streptothricosis, Mycosis and Avian Pasturella.

Post-mortem examinations were held on all important animals and doubtful cases were sent to the Principal, Bengal Veterinary College, for his examination, to whom thanks are due for his practical advice and suggestions whenever approached.

S. M. YAQUB,
First Asstt. Superintendent.

R. N. BOSE,
Actg. Superintendent.

N. MUKERJEE,
Second Assistant Superintendent.

APPENDIX A.

I.—Comparative statement of receipts for 1938-39 and 1939-40.

Heads and Items.	1938-39.			1939-40.		
	Rs.	a.	p.	Rs.	a.	p.
Opening balance	10,742	1	4	13,351	[illegible]	7
Interest	545	12	0	460	3	0
				52	4	0
Donations and subscriptions	132	0	0	200	0	0
Entrance receipts	65,009	8	0	64,235	8	0
Rent	7,760	0	0	4,710	0	0
Carriage, rickshaw, etc.	957	8	0	1,231	0	0
Picnics	126	0	0	54	0	0
Rhino-urine	2,791	8	0	2,556	0	0
Miscellaneous receipts	11,847	15	3	8,512	15	10
Government contribution	16,000	0	0	16,000	0	0
Total ..	1,15,912	4	7	1,11,363	12	5
Add—						
Receipts of 31st March 1938, etc., (1937-38) paid in on 1st and 22nd April 1938	280	10	6	....		
Receipts of 31st March 1939 and sale proceeds of animals, etc., not paid in on 31st March 1939 but paid in the following year ..	....			237	5	6
Total ..	1,16,192	14	7	1,11,601	1	11
Deduct—						
Receipts of 31st March 1939 and sale proceeds not paid in on 31st March 1939 but paid in the year 1939-40	237	5	6	....		
Receipts of 31st March 1940 and sale proceeds of animals, etc., not paid in on 31st March 1940 but paid in the following year (1940-41) ..	....			1,460	[illegible]	11
Total ..	1,15,955	9	1	1,10,140	5	0

II.—Comparative statement of expenditure for 1938-39 and 1939-40.

Heads of Items.	1938-39.			1939-40.		
	Rs.	a.	p.	Rs.	a.	p.
Establishment	16,780	14	0	19,045	15	0
Food of animals	33,749	10	6	36,861	1	0
Purchase of animals	5,437	5	0	3,641	15	6
Transport of animals	3,878	1	6	2,241	8	3
Miscellaneous contingencies	5,583	1	0	5,993	14	5
Repairs of roads	10,060	0	0	....		
Repairs of buildings	6,098	14	3	2,969	13	9
Garden const[illegible]n	10,163	4	9	10,836	13	6
Original construc[illegible]	10,852	8	6	9,193	0	9
Total ..	1,02,603	11	6	90,784	2	2
Closing balance ..	13,351	13	7	19,356	2	10
Grand Total ..	1,15,955	9	1	1,10,140	5	0

APPENDIX B.

Summary of visitors and gate receipts during the year 1939-40.

Month and year.	Number of visitors.	Receipts. Rs. a.
1939.		
April	60,399	3,775 12
May	63,109	3,944 5
June	62,418	3,901 3
July	60,301	3,769 8
August	57,261	3,578 14
September	63,297	3,956 7
October	112,011	7,001 11
November	93,859	5,867 13
December	137,431	8,590 13
1940.		
January	144,943	9,059 12
February	87,251	5,453 10
March	85,369	5,335 12
	1,027,649	64,235 8

Free Days.

Month and year.	Number of visitors.
1939.	
24th April	3,736
22nd May	4,014
12th June	4,241
24th July	5,840
28th August	5,195
25th September	5,073
2nd October	4,784
6th November	6,582
4th December	5,962
1940.	
29th January	5,876
12th February	3,870
11th March	4,551
	59,724

APPENDIX C.

List of donors during the year 1939-40.

A

Angier, Mrs.	1 Leopard cub.
Anden, Mr. J. B.	1 Tibetan Wolf.
Azad, Mr. M. M. A. K.	1 Python.

B

Bare, Rev. C. B.	1 Rhesus monkey.
Banerjee, Master Sekhar Nath	2 (Lesser) Sulphur-crested Cockatoo.
	1 Alexandrine Parrot.
Banerjee, Mr. J. N.	1 Alexandrine Parrot.
Bhowanipore Police-Station, Officer-in-charge	1 Macaque monkey.
Bajpai, Mr. T. N.	1 Langur.
Biswas, Mr. J. N.	1 Python young.

C

Collector, Noakhali	1 Water Tortoise.
Churcher, Mrs. N. S.	1 Tiger Cub.
	1 Indian Ratel.
Chew, Mr. H. P.	1 Himalayan Bear Cub.

D

Das, Mr. A. K.	1 Python.
Duncan, Mrs. A.	2 Saras Cranes.
Dutta, Mr. S. M.	1 Scorpion.
Das, Mr. N. C.	1 Cobra.

E

Ellis, Mr. E. E.	2 Lineated Barbets.

F

Franez, Mr. O. L.	1 Indian Wild Pig.
Fooks, Mrs. H. A.	1 White Browed Gibbon.
Fazul Karim, Khan Bahadur Md.	1 Clouded Leopard.
Firth, Mr. H. G.	1 Python.

G

Ghose, Mrs. Ava	1 Common Peafowl.
Ghosh, Mr. K. K.	1 Assam Myna.
	1 Cochin China Parrot.
Gupta, Mr. A. C.	2 Himalayan Bear cubs.
Ghosh, Dr. A. K.	1 Rhesus Monkey.

H

Hossein, Mr. M.	1 Rhesus Monkey.
Hart, Mr. F. J. A.	1 Indian Wild Pig.
Hanif, Shaik	3 Lycodon Aulicus.
Hosein, Mr. T.	1 Chameleon.
Hargreaves, Mr. J. R.	1 Four-horned Antilope.

J

Jabbar, Mr. S. A. ..	.. 1 Rhesus Monkey.

K

Khan, Babu Haripado ..	.. 2 Spotted Deer.
Kolle, Mr. E. H. ..	.. 1 Lesser Sulphur-crested Cockatoo.
Keatinge, Mr. G. ..	.. 1 Himalayan Bear.
Kader, Sk. Gholam ..	.. 1 Gecko.

L

Lord, Mr. R. W. ..	.. 1 Coral-billed Pigeon. 1 Zebra Finch. 1 Yellow Budgeregar.

M

Morrison, Mr. ..	.. 2 Leopard cubs.
Mullik, Mr. G. M. ..	.. 1 Langur.
Manager, Messrs. Spencer & Co., Ltd.	.. 1 Cobra.
Mukherjee, Mr. K. D. ..	.. 1 Striped Hyaena.
Maharaja of Benares ..	.. 3 Lion Cubs.
Mohitananda Swami ..	.. 1 Ornamental Snake.
Mackrell, Mr. G. ..	.. 2 Indian Pied King-fishers.
McNair, The Hon'ble Mr. Justice G. D.	.. 6 White Budgeregars. 4 Blue Budgeregars. 1 Red-cheeked Bul-Bul. 1 Spice bird. 4 Silver bills. 1 Black-headed Manikin.
Moses, Mr. G. C. ..	.. 2 Spotted Deer.
Mukherjee, Mrs. Niharika ..	.. 1 Four-horned Antelope.

N

Nawab Bahadur of Murshidabad	.. 1 Spotted Deer.

P

Panday, Babu Raghubans ..	.. 2 Leopard cubs.
Palmer, Mr. B. I. ..	.. 3 Persian Gazelles. 1 Indian Antelope.

R

Roy, Mr. D. M. ..	.. 1 Sambar Deer.

S

Samanta, Mr. T. B. ..	.. 2 Russell Vipers.
Sen, Mr. M. M. ..	.. 1 Indian Mouse Deer.
Singh Roy, Mr. S. ..	.. 2 Scorpions.

W

West, Mrs. A. ..	.. 1 Ring-necked Parrakeet. 1 Blossom-headed Parrakeet.

B. G. Press—1940-41—12365D—225.



Government of Bengal

Report of the Honorary Committee for the Management of the Zoological Garden, Calcutta

1940-41

Superintendent, Government Printing
Bengal Government Press, Alipore, Bengal
1942

Gratis

Report of the Honorary Committee for the Management of the Zoological Garden, Calcutta, for the year 1940-41.

The Committee have the honour to submit their report for the year ending 31st March 1941, supplemented, as in former years, by—

(1) The Superintendent's report upon the Zoological collection.

(2) Abstract of accounts of ordinary receipts and expenditure.

(3) Monthly returns of visitors and gate receipts and a list of donors and their donations.

New constitution.—The Honorary Committee for the Management of the Zoological Gardens, Alipore, constituted in the year 1875, and composed originally of five members, was augmented from year to year until the number of members rose to 37 including *ex-officio* members, at the end of 1939-40. The old constitution of the Garden Management came to an end under orders from the local Government under resolution No. 1943, dated the 4th July 1940.

The Honorary Committee of Management considered the nominations made by the Hon'ble the President for membership of the proposed General Committee under the New Constitution and at their meeting, held on the 13th April 1940, approved of the following names to serve on the General Committee:—

President.

1. The Hon'ble Mr. Justice G. D. McNair.

Vice-Presidents.

1. Mr. W. K. Dods.
2. Dr. S. C. Law.

Honorary Secretary and Treasurer.

1. Mr. H. A. Fooks.

Nominated members.

1. Ihtisham-ul-Mulk Rais-ud-Daula Amir-ul-Omrah, Nawab Sir Asif Saiyid Wasif Ali Mirza, Khan Bahadur, Mahabatjung, K.C.S.I., K.C.V.O., Nawab Bahadur of Murshidabad.
2. Sir David Ezra.
3. Rai Ajit Nath Das Bahadur.
4. Mr. K. C. De, C.I.E., I.C.S.
5. Mr. G. Morgan, C.I.E., M.L.A.
6. Maharaj-kumar Uday Chand Mahtab, M.L.A.
7. The Hon'ble Mr. Justice T. Ameer Ali.

8. Dr. Sir U. N. Brahmachari.
9. Nawabzada A. S. M. Latifar Rahman.
10. Mr. Saileswar Singh Roy.
11. J. A. Clough, Esq.
12. Mr. A. F. M. Abdul Ali.
13. Mr. M. A. H. Ispahani, M.L.A. (Corporation representative).
14. Mr. G. R. Dods.
15. Col. A. C. Chatterji.
16. Dr. K. Biswas (Royal Botanical Garden).
17. Mr. S. Choudhuri (Forest Utilisation Officer, Bengal).
18. Mr. E. A. Paterson.
19. Mr. K. K. Das.
20. Mr. Waliul Islam.
21. Khan Bahadur Asadulla.
22. Mr. Habib Khan.
23. Mr. Syed Afzal, C. A.

Ex-officio members.

1. The Commissioner of the Presidency Division.
2. The Mayor of Calcutta.
3. The Secretary, National History Section of the Asiatic Society of Bengal.
4. The Director, Civil Veterinary Department, Bengal.
5. The Professor of Biology and Zoology, Medical College, Calcutta.
6. The Principal, Bengal Veterinary College.
7. The Councillor of Ward No. 23 of the Calcutta Corporation.

Government accepted these persons as constituting the General Committee under the new constitution and their names were published in the "Calcutta Gazette" accordingly.

Staff.—The following is a list of the Superior Staff of the Garden at the end of 1940-41 :—

Acting Superintendent.—Mr. R. N. Bose, G.B.V.C.

First Assistant Superintendent.—Khan Sahib S. M. Yaqub.

Second Assistant Superintendent.—Mr. N. Mukherji, G.B.V.C., F.Z.S., F.L.S., F.R.H.S.

Store-keeper.—Babu Jugal Kishore Roy.

Clerk.—Babu Tarak Chandra Chatterjee.

Accountant.—Babu Gobardhan Ch. Auddy.

Gate Clerk.—Babu Bepin Behari Chatterji.

The office and menial staff of the Garden at the end of 1940-41 comprised:—

Office staff:—

1	Salutri.	1	Gate Clerk.
1	Record Keeper.	2	Assistant Gate Clerks.

1 Ticket Painter.

Menial staff:—

1	Jamadar.	1	Head Durwan.
23	Keepers.	14	Durwans.
2	Bhistees.	1	Head Mali.
1	Cook.	1	Mate Mali.
1	Food Distributor.	4	Malis.
1	Carpenter.	4	Cooly Sardars.
1	Mason.	10	Coolies.

1 Blacksmith.

In addition temporary men were engaged as required.

Acquisitions.—Owing to War conditions no animals or birds were acquired from European countries or from America.

Local purchases consisted of a few small animals, such as Cat-bears, Golden Entellus monkeys. Some Hawfinches and Humes Pheasants were also obtained.

Births.—Several mammals were bred. Among the most important were two female tiger cubs, a male Eland, a Rufous Kangaroo, several Raccoons and a Yellow Baboon.

Various foreign and local birds and Himalayan Pheasants bred and most of them were reared successfully, viz.:—

1	Crested Curassow.	2	Tamborine Pigeons.
1	Zebra Finch.	1	Pied Imperial Pigeon.
2	Argus Pheasants.	2	Amherst Pheasants.
1	Cheer Pheasant.	1	Gold Pheasant.

1 Silver Pheasant.

Presentation.—Numerous presentations both in mammals and birds were received during the year under review, the most valuable being a pair of Giraffes presented by Mr. Abdul Rashid and his brother Mr. Abdul Rahman Cocker in memory of their father, the late Mr. Abdul Wahid, O.B.E., of Nairobi. Unfortunately the male specimen broke its off hind leg during the voyage and had to be destroyed.

The Garden bore the cost of freight, crates, and insurance premium, etc., amounting to £160.

Sale.—Owing to the War few sales could be effected. Freights were heavy and shipping accommodation scarce. Dr. Wegeforth during a visit to Calcutta arranged to purchase a young pair of Hippopotami born in the Garden for the San Diego Zoo. They also purchased four pairs of Cat-bears.

Exchange.—The difficulty of obtaining shipping space owing to the demands for War purposes has restricted our activities to a large extent. The uncertainty of giving and obtaining delivery has hampered the free exchange of birds and animals with other Zoological Gardens, and has also resulted in fewer sales and purchases to and from dealers.

Deaths.—The death rate was normal during the year. The Garden, however, sustained a most regrettable loss in the death of one of its oldest and most valued exhibit, the female Elephant "Begum". She was purchased in Jalpaiguri in June 1905, and lived in the Garden for nearly 36 years. She was very popular with the visitors, especially with the children who will miss her very much.

Other important deaths during the year were those of a Puma, a Chimpanzee and a Llama.

Gardens.—We are happy to report that the condition of the Garden was well maintained and the Gardens again proved themselves a popular institution.

Flowers.—The display of flowers was good and the *malis* are to be congratulated.

Some of our double Petunias were made the object of a special visit to the Gardens by visitors from outside Calcutta.

Improvements.

Sarnomoyi House.—This house was extended towards the north, the extension forming a beautiful aviary. Messrs. Martin & Co. undertook the work at a cost of Rs. 3,133.

Two covered shelters for birds were constructed in the aviary at a cost of Rs. 215.

The whole frontage of the aviary was covered with interlinked wire-netting of ½" mesh supplied by Messrs. Playfair & Co. at a cost of Rs. 573 and the roof was covered with ½" mesh Hex wire-netting from the stock in the Garden.

The aviary is now inhabited partly by birds from the cages inside the house and partly by newly-acquired birds.

New Rhino Enclosure.—The American Consul-General requested the Zoo Committee to give temporary housing to a full grown one-horned Indian Rhinoceros pending its shipment to Washington Zoo. This animal sustained very severe injuries during the journey and it seemed doubtful when it arrived whether it would survive.

The Honorary Secretary called in aid Mr. A. D. MacGregor, the Principal of the Bengal Veterinary College, Belgachia and it was very largely due to his skill and attention that the animal eventually recovered.

To provide for its suitable accommodation until such time as it can be forwarded to America the enclosure on the south-western side of the Hippo enclosures was renovated and strengthened.

The following petty works were undertaken during the year under report:—

Committee Room.—The roof of this building was leaking and in urgent need of repair. It was treated with reinforced Malthoid roofing "C" grade with Floatine gravel finish (5 layers) by Messrs. Lyall Marshall & Co. who guaranteed the work for 8 years.

Gayal and Sambhur Enclosures.—The retaining wall round the inner side of these enclosures was dismantled and reconstructed with 3" soling 6" lime concrete brick-on-edge cement pointing.

Three new sluices were also constructed after dismantling the old ones.

Most of the Houses were lime and colour-washed.

Hermitage.—The outer walls of No. 4, Alipur Road (Hermitage), were colour-washed.

Benches.—All the benches in the Garden were re-painted with Green Bowranite which in our experience resists the evil effects of the rains very satisfactorily.

Roadside Stalls.—The Government of Bengal, Department of Communications and Works, pointed out that the existing four roadside stalls appeared unsightly and out of keeping with the surroundings and invited our opinion regarding their improvements.

The Honorary Committee of Management agreed with the Government view and expressed their willingness to improve the existing stalls or if necessary, to erect new shops on plans to be agreed in consultation with the Superintending Engineer to the Government of Bengal. Considerable correspondence passed, but unfortunately meetings which had been arranged were infructuous and at the end of the financial year no improvement had been effected. The present stalls are condemned alike by all who are connected with them, not least the stall-holders, and it is hoped that an improvement in their accommodation and appearance will shortly be effected.

Construction of underground latrine near Pig Enclosure.—In 1936, a request was made to the Meteorologist, Alipore Observatory, to allow the service latrine of the Zoological Garden situated near the Pig Enclosure to be connected with the underground latrine in the compound of the Observatory, which was acceded to by him.

In this connection an agreement was executed for the lease of a portion of Government land measuring 65 s. ft. at a rent of Rs. 3 per annum. This rent is paid by the Garden.

The Committee of Management approved and sanctioned estimates amounting to Rs. 246 and Rs. 1,017 to enable the work to be taken in hand and informed the Executive Engineer, Suburban Division, who would be responsible for its completion. Owing to departmental difficulties that officer could not take up work and the matter was referred by him to the Executive Engineer, Bengal, Central P.W.D. There had been numerous complaints with regard to this latrine and it is hoped that the work will shortly be completed.

Begumbari land.—In October 1940, an enquiry was made by the [illegible] of Telegraph Stores, Alipore, whether a portion of the land at [illegible]ri by the side of Tolly's Nullah opposite the Telegraph Stores [illegible]ld be let out to them for the contemplated extension of the Tele-[illegible]ores. The Committee were unable to agree to the suggestion.

They pointed out that similar requests had been made in the past when the necessity for the Garden to retain this land and the uses to which it was put had been stated and approved.

Primarily it was essential to retain it as an area where exhibits could be isolated in the event of an outbreak of infectious disease.

Air Raid Precautions.—The following precautions have so far been taken :—

(*i*) Formation of a well-organised band of A.R.P. personnel among the staff.

(*ii*) The preparation of a list of carnivora in order of importance with a view to reducing them to such a number as can be contained behind two sets of bars, when necessity arises.

(*iii*) Repairs to carnivora houses.

(*iv*) Extension of wall of Garden compound.

(*v*) Sinking of a tube-well in Begumbari.

(*vi*) Strengthening of Gubbay House.

Finance.—The financial position of the Garden so far as this year is concerned is satisfactory. This is due to the fact that most rigid economy was observed by cutting major expenditure in buildings and purchase of animals and birds.

A detailed statement of receipts and expenditure will be found in Appendix "A". An increase of Rs. 978-8 will be seen in the entrance receipts over the figures of the previous year.

Visitors.—The following is a comparative statement of visitors and receipts for the last four years:—

Years.	Visitors.	Receipts. Rs.	a.
1937-38	... 936,744	58,664	9.
1938-39	... 1,038,678	65,009	8.
1939-40	... 1,027,649	64,235	8.
1940-41	... 1,043,347	65,214	0.

The Committee desire to convey their thanks to the Corporation of Calcutta for having again sanctioned the exemption of the Garden from the payment of rates for the year 1940-41.

A large number of children under four years of age, and many school children attended by their teachers, were admitted free to the Garden. In addition there were free days when 58,153 persons were admitted to the Garden without payment. This represents a sum foregone in entrance fees of over Rs. 3,600.

A detailed statement of the number of visitors and receipts appears in Appendix B.

The Committee wish to convey their appreciation and thanks to members of the public as well as to members of the Garden who co[ntri]buted towards the satisfactory results achieved during the year under r[eview].

A list of ladies and gentlemen who made gifts to the collection will be found in Appendix C. There were in addition many offers to present animals to the Garden, but these offers could not always be accepted either because the particular species was already sufficiently well-represented, or owing to want of accommodation.

The Committee also desire to express their thanks to the British India Steam Navigation Company for kindly conveying animals belonging to the Garden free of charge.

No military band was available to play in the Gardens and the Committee were reluctantly compelled to discontinue what had been in the past a great attraction to the Public.

The Committee again record their indebtedness to those members of the public who sent old or broken down horses to the Zoological Gardens, where they are destroyed under the most humane conditions.

G. D. McNAIR,
President.

E. A. PATERSON,
Honorary Secretary.

Superintendent's Report.

I have the honour to submit the following comparative table showing the stock on the 31st March, in the collection during the last four years:—

Years.	Mammals.	Birds.	Reptiles.
1937-38 ...	441	2,456	90
1938-39 ...	426	2,219	112
1939-40 ...	418	2,125	50
1940-41 ...	408	2,009	35

The decrease in the mammals is due to a policy of not overcrowding the existing enclosures and steps were taken to thin out a number of deer and other mammals.

Reptile House.—As this year also no improvement could be effected, exhibits are being gradually diminished in this House.

Amongst the important additions during the year the following deserve special mention:—

By purchase:—

6 Cat-bears.
14 Golden Entellus Monkey.
1 Lesser Flamingo.
10 Greater Flamingoes.
20 Mandarin Ducks.
2 Burmese Pea Fowl.
5 Hume's barred backed Pheasant.
12 Haw Finches.
2 Red-crested Wood Quails.

By Birth:—

4 Indian Antelopes.
4 Sambar Deer.
2 Brow-antlered Deer.
2 Hog Deer.
8 Spotted Deer.
7 Fallow Deer.
8 Four-horned Antelopes.
2 Barking Deer.
7 Javan Mouse Deer.
3 Nilgai.
1 Indian Gazelle.
2 Persian Gazelles.
1 Arabian Baboon.
1 Yellow Baboon.
1 Vervet Monkey.
1 Eland.
1 Gayal.
1 Rufous Kangaroo.
2 Bennett's Wallaby.
8 Raccoons.
2 Tiger Cubs.
2 Barbary Sheep.
3 Bare-eyed Cockatoos.
2 Cockateels.
1 Scarlet Ibis.
1 Crested Curassow.
1 Ruddy Crake.
4 Black Swans.
3 Diamond Doves.
2 Tambourine Pigeons.
1 Pied Imperial Pigeon.
2 Argus Pheasants.
1 Gold Pheasant.
1 Silver Pheasant.
2 Ahmerst Pheasant.
1 Cheer Pheasant.
1 Zebra Finch.
2 Large White Egrets.

By Presentation (see Appendix "C"):—

1 Giraffe.	1 Indian Gazelle.
1 Himalayan Bear (cub).	4 Pythons.
1 Leopard (cub).	1 Brown Stump-tailed Monkey.

The following animals arrived at or left the Garden under the circumstances mentioned:—

From Taronga Zoological Park Trust, Sydney (by exchange):—

2 Patagonian Cavies.	3 Satin Bower Birds.

To Adelaide Zoo (by sale):—

70 Rhesus Monkeys.	6 Bonnet Monkeys.

To Taronga Zoological Park Trust, Sydney (by exchange):—

2 Sambar Deer.	3 Spotted Deer.

The most regrettable deaths during the year were:—

2 Llamas.	1 Rhea (White variety).
1 Gayal.	1 Barasingha Deer.
1 Elephant.	1 Burchell's Zebra.
1 Hyacinthine Macaw.	

Ordinary cases were dealt with in the dispensary maintained in the Gardens and in more severe cases, the Principal, Bengal Veterinary College, was asked for his assistance.

Amongst the commoner forms of disease the following may be mentioned:—

Infectious diseases.—Stray cases of Tuberculosis were found amongst the antelopes and deer. This diagnosis was confirmed by the Raymond Research Laboratory. This disease was found to be less common amongst the primates and still less in the carnivora.

Post-mortem examinations were held on all important animals and doubtful cases were sent to the Principal, Bengal Veterinary College, for his examination, to whom thanks are due for his practical advice and suggestions whenever approached.

S. M. YAQUB,
Superintendent.

N. MUKERJEE.
Assistant Superintendent.

APPENDIX A.

I.—Comparative statement of receipts for 1939-40 and 1940-41.

Heads and Items.	1939-40.			1940-41.		
	Rs.	a.	p.	Rs.	a.	p.
Opening balance	13,35[illegible]	13	7	19,356	2	10
Interest	5[illegible]2	7	0	448	14	0
Donations and subscriptions	200	0	0	64	0	0
Entrance receipts	64,235	8	0	65,214	0	0
Rent	4,710	0	0	8,410	0	0
Carriage, rickshaw etc.	1,231	0	0	1,153	0	0
Picnics	54	0	0	120	0	0
Rhino urine	2,556	0	0	3,144	0	0
Miscellaneous receipts	8,512	15	10	9,007	2	4
Government contribution	16,000	0	0	16,000	0	0
Total ..	1,11,363	12	5	1,22,917	3	2
Add—						
Receipts of 31st March 1939 and sale proceeds of animals, etc. (1938-39) paid in 1939-40	237	5	6	..		
Receipts of 30th and 31st March 1940 not paid in on 31st March 1940 but paid in the following year ..	..			1,460	12	11
Total ..	1,11,601	1	11	1,24,378	0	1
Deduct—						
Receipts of 30th and 31st March 1940 not paid in on 31st March 1940 but paid in the year 1940-41	1,460	12	11	..		
Receipts of 31st March 1941 not paid in on 31st March 1941 but paid in the following year (1941-42) ..	..			204	13	0
Total ..	1,10,140	5	0	1,24,173	3	1

II.—Comparative statement of expenditure for 1939-40 and 1940-41.

Heads and Items.	1939-40.			1940-41.		
	Rs.	a.	p.	Rs.	a.	p.
Establishment	19,045	15	0	22,575	7	0
Food of animals	36,861	1	0	42,150	5	0
Purchase of animals	3,641	15	6	3,135	5	0
Transport of animals	2,241	8	3	4,695	12	9
Miscellaneous contingencies	5,993	14	5	6,182	11	3
Repairs of roads	..			1,745	6	0
Repairs of buildings	2,969	13	9	9,256	0	3
Garden construction	10,836	13	6	8,971	1	0
Original construction	9,193	0	9	5,053	3	0
Total ..	90,784	2	2	1,03,765	3	3
Closing balance ..	19,356	2	10	20,407	15	10
Grand total ..	1,10,140	5	0	1,24,173	3	1

APPENDIX B.

Summary of visitors and gate receipts during the year 1940-41.

Month and year.	Number of visitors.	Receipts. Rs. a.
1940.		
April	65,047	4,065 13
May	60,589	3,787 4
June	73,106	4,569 8
July	65,070	4,066 15
August	62,221	3,889 2
September	76,557	4,784 14
October	121,478	7,594 10
November	100,468	6,279 13
December	134,985	8,436 15
1941.		
January	133,126	8,320 6
February	78,951	4,934 7
March	71,749	4,484 5
Total ..	1,043,347	65,214 0

Free Days.

Monday and year.	Number of visitors.
1940.	
29th April	4,686
13th May	3,546
10th June	4,471
8th July	3,517
12th August	4,826
9th September	8,373
21st October	1,144
11th November	4,911
9th December	6,861
1941.	
20th January	6,206
17th February	5,471
17th March	4,141
Total ..	58,153

APPENDIX C.

List of donors during the year 1940-41.

B

Begum, S. Nitta	.. 1 Rhesus monkey.
Bhattacherjee, Mr. U. C. ..	.. 1 Python.

C

Cooch Behar, H. H. The Maharaja of	.. 1 Common Otter.

D

Dass, Babu D. C.	.. 1 Python.
Dent, Mr. T. V.	.. 1 Himalayan Bear (cub).
Dey Sarkar, Mr. B. N. ..	.. 1 Sharp-nosed Crocodile.
Dorat, Mrs. J. G.	.. 3 Blue Budgerigars.
	2 Common Budgerigars.
	1 White Budgerigar.
Dods, Mr. W. K. ..	.. 3 Lesser Whistling Teal.
	2 Cotton Teal.
	2 Indian water Rails.
	2 Indian Fish Owls.
	5 Garganey Teal.
	2 Pintail Ducks.
	1 Ruby Throat.
	2 Corn Crakes.
Dunkley, Mr. W. G. ..	.. 1 Rhesus Monkey.

F

Fooks, Mr. H. A.	.. 1 Adjutant.
	1 Saras Crane.
	3 Indian Antelopes.
	3 Diamond Doves.
	5 Blyth's Tragopan Pheasants.
	2 Hume's barred backed Pheaasnts.
	1 Himalayan Wood Owl.
Fulton, Mr. T.	.. 2 Shamas.
	1 Orange-headed ground Thrush.
	1 Indian Magpie Robin.

H

Halloran, Mrs. G. B. ..	.. 1 Leopard (cub).

M

Mulcahy, Mr. P. .. .. .. 1 Brown Stump-tailed Monkey.

N

Nag Chaudhury, Mr. S. .. .. 1 Himalayan Whistling Thrush.

P

Pell, Mrs. C. .. .. .. 1 Rhesus Monkey.

R

Rana, H. Shum Shere Jung Bahadur .. 3 Monal Pheasants.
Rashid, Mr. Abdul and his brother .. 1 Giraffe.

S

Sarkar, Dr. L. M. .. .. .. 1 Russell's Viper.
Sha, Babu N. .. .. .. 1 Indian Gazelle.

V

Vepond, Mrs. .. .. .. 1 Cotton Teal.

Z

Zorab, Mr. L. K. .. .. .. 2 Pythons (young).

B. G. Press—1942-43—2151D—150.

A Conspectus of the Working of the Zoological Gardens, Alipore, for the year 1944.

The Executive Committee for the Management of the Zoological Gardens, Alipore, have the honour to submit a conspectus of the working of the Zoological Gardens, Alipore, for the calendar year 1944.

There was no change in the General Committee of the Gardens during the year except the addition of two members—Mr. Md. Rafique, Deputy Mayor of the Corporation of Calcutta, and Mr. W. A. S. Lewis, M.A., O.B.E., I.C.S.

There was no change in the Executive Committee during the year under report.

Seven new life members were enrolled during the year.

His Majesty the King of Nepal was pleased to visit the Garden.

Acquisition.—During the year, by permission of the Commissioner of Police, some specimens of the larger carnivora, which had been banned owing to risk of air raid, were once more exhibited. These included one lion, two leopards, six tigers, one wolf and one Himalayan bear. The Committee's grateful thanks are due to the donors. A list of donors is given in the Appendix "A".

Dr. S. L. Hora, Director of Fisheries, Bengal, advised the Executive Committee on the possibilities of pisciculture in the *jheel* and the tank of the Garden, and an experiment was made of stocking the *jheel* and Begumbari tank with "*chala* fish" or large fry of *rahu*, *katla*, etc., at a cost of Rs. 625. A portion of the existing stock of fish was sold by public auction. The sale proceeds amounted to Rs. 6,042-3.

Birth.—Various mammals and birds have bred in the Garden during the year. Four chicks of Spot-billed Duck were hatched after nearly sixty years in the Garden. They are thriving well.

Owing to adverse weather conditions nesting during the year has not been so successful as in the previous year. Most of the Pheasants and small birds raised chicks but owing to excessive heat not many of them survived.

Nicobar and Imperial Green Pigeons have started breeding quite successfully.

A Crowned Crane laid 2 eggs but they were not successfully hatched.

Two Leopard cubs were born to the newly acquired pair of leopards but they died within two days.

There were several births of Arabian Baboons.

Deaths.—The death rate among the present collection has not exceeded the percentage of previous years. The noticeable deaths were those of six brow-antlered Deer (thamin), one female Orang-utan, a Gnu calf, two Mandrills, some newly acquired Cat-bears (Pandas) and Himalayan Monal and Tragopan Pheasants.

The Aquarium.—The aquarium was started last year with Gold fish. Additions were made during the year under report by Mrs. Leech and Mr. Lewis who have made presents of some fancy fish. The Committee is indebted to them.

Elephants.—The two Zoo elephants Jaimala and Phoolmala are still at Chakdighi.

Damage done to the Zoological Gardens by the Military.—*Roads.*—All the roads and pathways throughout the Garden have been badly damaged by Military lorries, and the damage unfortunately continues. Heavy damage too has been caused to the buildings and iron fencings. A statement of the damage done so far has been forwarded to the First Land Acquisition Collector.

The entire pipe-laying for inlet and outlet of water inside the Zoo has deteriorated owing to the excessive pressure of heavy military lorries, with the result that river water cannot be brought in as well as before.

Improvement.—Owing to insufficient funds and high cost and scarcity of building materials no new work could be undertaken. Only essential "maintenance works" were carried out in the Pheasant House, Mullick House, the Committee Room and the Superintendent's Quarters.

As most of the planks of the old wooden bridge to the south of the Berridge Fountain were badly worn out, the entire bridge has been reconstructed of cement slabs.

Finances.—Gate receipts during the calendar year ending December 1944, show a welcome increase.

The Garden had been in receipt of compensation for military occupation of a portion thereof throughout the year. The monthly compensation received for the occupation proved to be of utmost help to the management.

A sum of Rs. 30,000 has been invested as follows:—

(1) 3½% G. P. Notes of the face value of Rs. 15,100.

(2) 3% Victory Loan of the face value of Rs. 13,000.

(3) Prize Bonds of Rs. 2,000.

The Executive Committee for the management of the Garden desires to express their thanks to the Corporation of Calcutta for their annual grant of Rs. 26,896 by way of exemption of the Garden from the payment of the rates and taxes for the year 1943-44.

A large number of children under four years of age and batches of school children were admitted free to the Garden.

There was one free-day in every month, during which the total number of persons admitted to the Gardens without payment was 14,803.

A detailed statement of the number of visitors and gate-receipts is furnished in Appendix "B".

S. SINGH ROY,
Honorary Secretary.

L. R. FAWCUS,
President.

S. M. YAQUB,
Superintendent.

APPENDIX "A".

Presentation.

B

Benthall, Mr. A. P. .. .. 1 Jungle Cat.
Bose, Mr. S. M. .. .. .. 1 Spotted Deer.
Broad, Mr. J. .. .. .. 1 Vervet Monkey.

D

De, Mr. Kalicharan .. .. .. 1 Hanuman.
Donnell, Mrs. E. O. .. .. .. 1 Rhesus Monkey.
Dumraon, The Maharaja of .. .. 2 Tigers, 2 Leopards.

F

Fink, Major E. A., and Carvey, Mr. P. G. .. 2 Tigers (cub).
Firth, Mr. .. .. 1 Brown Rat Snake.

H

Halder, Mr. Bhupati Ch. .. .. 1 Python.

I

Inspector of Police, Calcutta .. .. 1 Rhesus Monkey.

J

Jaunpur, The Raja Sahib of .. .. 2 Tigers, 1 Lion.

L

Lewis, Mr. W. A. S., M.A., O.B.E., I.C.S. .. 1 Pintail Duck.
Lucknow Zoo .. .. .. 1 Indian Wolf.

N

Nagros, Mr. A. T., O.B.E., I.C.S. .. 2 White Doves.

S

Singh Roy, Mr. Saileswar .. .. 20 Blossom-headed Parrakeets, 4 Snow Pigeons, 1 Spotted Deer.

R

Simpson, Mr. R. .. .. .. 1 Caroline Box Tortoise.
Smith, Capt. F.G., E.M.E. .. .. 1 Himalayan Bear.

APPENDIX "B".

Summary of Visitors and Gate Receipts.

	Visitors.	Receipts. Rs.	a.	p.
1944.				
January	25,461	1,591	5	0
February	24,867	1,554	3	0
March	25,496	1,593	8	0
	75,824	4,739	0	0
April	22,478	1,404	14	0
May	17,379	1,086	3	0
June	23,105	1,444	1	0
July	26,132	1,633	4	0
August	23,615	1,475	15	0
September	45,394	2,837	7	0
October	42,719	2,669	15	0
November	41,058	2,566	2	0
December	58,183	3,636	7	0
	300,063	18,754	4	0
Total ..	375,887	23,493	4	0

Free-day Visitors.

1944.	Visitors.
January	819
February	1,370
March	1,111
	3,300
April	852
May	775
June	1,057
July	1,269
August	1,288
September	1,110
October	1,754
November	1,584
December	1,814
	11,503
Total	14,803

Financial Statement from 1st January to 31st December 1944.

Receipt.

	Rs.	a.	p.
Opening balance on 1st January 1944	33,410	0	8
Interest on Government Securities, etc.	654	10	0
Donation and subscription	400	0	0
Rent	7,962	8	0
Compensation for military occupation	48,360	0	0
Government contribution	16,000	0	0
Government grant on A. R. P. works done in 1941-42	5,642	0	0
Entrance receipts	23,493	4	0
Miscellaneous receipts	10,404	9	0
	1,46,326	15	8

Expenditure.

	Rs.	a.	p.
Establishment (permanent)	18,187	3	0
Establishment (temporary)	7,086	7	0
Dearness allowance (both permanent and temporary)	12,908	12	0
Food of animals	51,587	7	3
Purchase and transport of animals	2,060	7	6
Miscellaneous contingencies	6,814	11	3
Petty repairs to buildings, etc.	2,825	6	6
Tools, plants and plumbing works, etc.	1,000	9	6
Original construction	728	3	0
Investments in Government securities	30,024	4	4
	1,33,223	7	4
Balance in favour of the Garden	13,103	8	4
	1,46,326	15	8

Reserve Fund.

	Rs.	a.	p.	Rs.	a.	p.
3½% G. P. Notes, 1865 (In custody of Reserve Bank)				6,800	0	0
3½% G. P. Notes, 1900-01 (In custody of Imperial Bank)				3,000	0	0
5% Loan, 1945-55 (In custody of Imperial Bank)				1,500	0	0
3½% G. P. Notes for 1842-43 (In custody of Imperial Bank)				15,000	0	0
3½% G. P. Notes for 1900-01 (In custody of Imperial Bank)				100	0	0
3% Victory Loan, 1957 (In custody of Imperial Bank)				13,000	0	0
Interest-free Prize Bonds (In custody of Imperial Bank)				2,000	0	0
Imperial Bank Savings Bank account				2,683	8	
Less Interest shown as receipt				59	6	
						2,624 2 0
Imperial Bank General Fund account				3,366	7	11
Less Part of opening balance	348	1	8			
Less Interest collected by Bank not taken into account in 1944	315	15	0			
Less Part of Puja receipt shown as receipt	1,707	10	0			
Less Contractors' Security Deposit refundable	600	0	0			
				2,971	10	8
						394 13 3
Total						44,418 15 3

BGP-44/5-10133D-60

Report of the Honorary Committee for the Management of the Zoological Gardens, Alipore, Calcutta, for the Calendar year 1945.

The Executive Committee for the management of the Zoological Gardens have the honour to submit their report for the calendar year ending 31st December 1945, supplemented by—

(1) An abstract of accounts of ordinary receipts and expenditure.

(2) Monthly returns of visitors and gate receipts, and a list of donors and their donations.

The management of the Gardens is vested in a General Committee and an Executive Committee.

The Committees consist of:—

President.

L. R. Faweus, Esq., C.S.I., C.I.E., I.C.S.

Vice-Presidents.

1. W. K. Dods, Esq., C.M.Z.S., M.B.O.U.
2. Dr. Satya Charan Law, M.A., Ph.D., F.Z.S., M.B.O.U. (2nd Vice-President).

Honorary Secretary and Treasurer.

Saileswar Singh Roy, Esq.

GENERAL COMMITTEE.

(a) Nominated members.

1. Sir David Ezra, Kt., F.Z.S., M.B.O.U.
2. Sir Uday Chand Mahtab, K.C.I.E., Maharajadhiraja Bahadur of Burdwan.
3. Khan Bahadur Wali-ul-Islam.
4. A. F. M. Abdul Ali, Esq., M.A., F.R.S.L.
5. S. Chaudhuri, Esq., I.F.S.
6. Ihtisham-ul-Mulk, Rais-ud-Daula, Amir-ul-Omrah Nawab Sir Asif Qadr Saiyid Wasif Ali Mirza, Khan Bahadur, Mahabatjung, K.C.S.I., K.C.V.O., Nawab Bahadur of Murshidabad.
7. Rai Ajit Nath Das Bahadur, J.P., F.Z.S., M.R.A.S.
8. G. Morgan, Esq., C.I.E., F.R.H.S., F.Z.S., M.L.A.
9. The Hon'ble Mr. Justice T. Ameer Ali, Kt.
10. Sir U. N. Brahmachari, Kt., M.A., M.D., Ph.D.
11. Nawabzada A. S. M. Latifar Rahman, M.A. (Cantab.), Bar-at-law.
12. The Hon'ble Mr. Justice J. A. Clough.
13. Dr. K. Biswas, M.A., D.Sc. (Edin.), F.R.S.E.
14. E. A. Paterson, Esq.
15. K. K. Das, Esq., B.A., F.R.S.A. (Lond.).
16. Khan Bahadur K. M. Asadullah.
17. Khan Bahadur A. M. Md. Fazlul Karim, M.A.

18. Syed Ahmed Afzal, Esq., F.S.A.A., R.A.
19. W. A. S. Lewis, Esq., M.A., C.B.E., I.C.S.
20. Dr. A. A. M. Wajih, M.B.E., L.R.C.P., M.R.C.S., D.T.M. & H. (Eng.).
21. Md. Rafique, Esq. (representing the Corporation of Calcutta).

(b) Ex-officio members.

1. The Commissioner of the Presidency Division.
2. The Mayor of Calcutta.
3. The Director, Civil Veterinary Department, Bengal.
4. The Secretary, Natural History Section of the Royal Asiatic Society of Bengal.
5. The Principal, Bengal Veterinary College, Belgachia.
6. The Councillor of Ward No. 24 of the Calcutta Corporation.
7. The Professor of Anatomy, Medical College, Calcutta.

EXECUTIVE COMMITTEE.

(a) Nominated members.

1. Sir David Ezra, Kt., F.Z.S., M.B.O.U.
2. Sir Uday Chand Mahtab, K.C.I.E., Maharajadhiraja Bahadur of Burdwan.
3. Khan Bahadur Wali-ul-Islam.
4. A. F. M. Abdul Ali, Esq., M.A., F.R.S.L.
5. S. Chaudhuri, Esq., I.F.S.

(b) Ex-officio members.

1. The Commissioner of the Presidency Division.
2. The Mayor of Calcutta.
3. The Director, Civil Veterinary Department, Bengal.

The President, the two Vice-Presidents and the Honorary Secretary are also the members of the Executive Committee.

Change in the Executive Committee.—Mr. Syed A. Afzal, F.S.A.A., R.A., a member of the Executive Committee, asked the Committee in October 1944, to consider him an absentee member for six months or to accept his resignation. On the expiry of six months the Committee accepted his resignation at their meeting held on June 16, 1945, and recommended to Government the name of Mr. A. F. M. Abdul Ali to fill the vacancy. Mr. Abdul Ali was appointed a member of the Executive Committee in July 1945.

Staff of the Gardens at the end of December 1945.

Superior Staff.

Superintendent.—Khan Bahadur S. M. Yaqub.

Acting First Assistant Superintendent.—Mr. N. Mukherji, G.D.V.C., who retired from service on 15th March 1945. Mr. R. K. Lahiri, B.Sc., G.V.Sc., was appointed as Second Assistant Superintendent on probation of two years.

Medical Officer.—Dr. S. N. Roy Chowdhuri, L.M.S.

Subordinate Staff.

Store-keeper.—Babu T. C. Chatterji.
Accountant.—Babu G. C. Auddy.
Gate clerk.—Babu Bepin Behary Chatterji.

Menial Staff.

1 Jamadar.
2 Mahouts.
21 Keepers.
2 Bhistees.
1 Food Distributor.
1 Cook.
15 Durwans, Chaprasis (1 as Duftry).
1 Head Mali.
1 Mate Mali.
4 Malis (1 as 2nd Mate Mali).
4 Cooly Sardars.
10 Coolies.
1 Carpenter.
1 Mason.
1 Mistry (who does the work of plumber and of the blacksmith).

Temporary men were engaged as and when required.

Acquisition.—During the year under review several new carnivora have been added. The Committee expresses its grateful thanks to the donors for the valuable exhibits presented by them.

Presentation.—His Excellency the Right Hon'ble R. G. Casey, C.H., D.S.O., M.C., Governor of Bengal, presented a leopard cat to the Gardens. One male tiger was given to the zoo by Babu I. K. Singha of Howrah. The Raja Bahadur of Payagpur sent to the zoo a number of acquatic birds from his *jheels*. Rai Bahadur Madhoram Sand presented several Himalayan pheasants, partridges and wedge-tailed pigeons, etc.

The names of donors of animals and birds are given in Appendix C.

Births.—One of the big pair of Jaunpur tigers gave birth to two cubs on 10th November 1945 (1 male and 1 female). The gestation period was about 106 days.

Dumraon Leopards.—The female one gave birth, for the second time, to two male cubs on June 7, 1945. Both the cubs are quite healthy.

Gharial Enclosure.—Twin sisters were born to a pair of Nilgai.

A list of important births and hatchings during the year is given below:—

1 Hog deer.
1 Sambar deer.
1 Barking deer.
2 Tiger cubs.
2 Leopard cubs.
2 Nilgai.
1 Bennett's Wallaby.
2 Nicobar pigeons.
2 Snow pigeons.
4 Saras cranes.
1 Scarlet ibis.
6 Egyptian geese.
16 Cockateels.
2 Australian crested doves.
40 Rosy-faced love birds.

Two chicks of Balearic Crane were hatched during the year. Unfortunately they did not survive.

Purchase.—On the military vacating the Reptile House poisonous and non-poisonous snakes of various species were acquired and have been kept in glass cages. A good specimen of King Cobra is amongst the exhibits.

Several animals including tiger cubs, hoolocks, stump-tailed and lion-tailed monkeys and various species of Himalayan birds were purchased and added to the collection.

Transport difficulties which still exist have proved a great impediment to our obtaining animals from other countries. It is hoped that before long transport facilities will improve and we shall start securing specimens of animals of zoological interest from various parts of the world.

Deaths.—The number of deaths during the year was comparatively few. The most regrettable loss was of the female Giraffe which lived in the Gardens for over four and half years. One male Eland, 4 Fallow deer, 4 four-horned antelopes, 1 brow-antlered deer, 1 female Grants zebra, 1 female camel, 6 Arabian baboons, 2 leopard cats were also amongst our losses.

There were other losses by death of smaller animals, birds and reptiles but most of them were due to natural causes.

Elephants.—The two female elephants "Jaimala" and "Phoolmala" have come back to the zoo. They are a great attraction and are very popular exhibits, and in great demand for joy rides by the juvenile visitors.

General condition of the animals.—The health of the animals and birds was satisfactory. A certain amount of casualties is unavoidable in a large collection of live-stock, particularly in a tropical climate. There was no outbreak of epidemic. The birth of two tiger cubs, two leopard cubs, nilgais and sambars, etc., is a fair indication of the successful maintenance of the health of the exhibits of the Gardens.

Structural alterations and improvements.—The tower and ceilings of the Murshidabad House have been covered with link wire-netting and made fit for large Psittacidae birds such as Macaws. All the Macaws have been put in this tower where they have settled down on being released from their previous ring perches.

Lean-to shed.—Room No. 3 has been remodelled in order to facilitate a better view of the birds.

Owing to scarcity and high prices of building materials and labour charges the usual maintenance works were not done in most of the animal houses and cages for the last four or five years. The Committee has, however, arranged to undertake departmentally petty repairs to the following houses and cages wherever necessary:—

(1) Dumraon House.
(2) Murshidabad House.
(3) Sarnomoyi House.
(4) Schwendler House.
(5) Rhino Enclosure.
(6) Hospital.
(7) Mullick House.
(8) Lean-to shed.

(9) Drill Enclosure.
(10) Ezra House.
(11) Barbary Sheep Enclosure.
(12) Small Carnivora House (all rooms).
(13) Jhind House (bases only).
(14) Abdul Gunny House (bases only).
(15) Polar Bear House.
(16) The Committee Room.

A schedule of post-war reconstruction has been drawn up. The Executive Committee has considered the idea of engaging a zoological expert to advise it on up-to-date planning and maintenance of the Gardens.

Requisitioning of the Zoological Gardens by the Military under the Defence of India Rules.

In January 1943, the Military authorities requisitioned certain portions of the Gardens and took possession thereof for their encampment. Roads, paths, buildings and other properties of the zoo sustained extensive damages during the period of their occupation. The following buildings, etc., were heavily damaged:—

(1) The Burdwan House.
(2) Mymensingh Enclosure.
(3) Gubbay House.
(4) Bear House.
(5) Reptile House.
(6) Abdul Gunny House.
(7) Refreshment Pavilion.
(8) Indian Refreshment Room.
(9) Barbary Sheep Enclosure.
(10) Roads and Pathways:

The plumbing works and the electric lines and fittings, etc., were also very badly damaged.

Estimates for repairing the buildings, roads and pathways were invited from some of the local firms. Messrs. Martin & Co.'s estimates with our claim for compensation were submitted to the Land Acquisition Collector and to the Government of Bengal, Agriculture, Forests and Fisheries Department. The claim has been passed on to the Lands and Hirings Service, Calcutta Area, with whom it is still pending. After the cessation of hostilities, the Gardens were de-requisitioned and possession thereby was restored to the Zoo Committee on October 25, 1945.

Much of the grounds damaged by the Military have been attended to. Some of the buildings which were urgently required for accommodating animals have been departmentally repaired. Repairs to other buildings intended for large carnivora are urgently necessary. The Executive Committee trusts that the Military authorities will soon accord their sanction to the payment of compensation to enable the Committee to undertake the repairs and restore the Gardens to its pristine condition.

Finance.—The Government of Bengal, Department of Agriculture, Forests and Fisheries, were pleased to sanction a sum of Rs. 23,340 as compensation to Gardens for the loss sustained on account of destruction and giving away of its valuable animals in pursuance of orders under Defence of India Rules, when Calcutta was threatened with enemy air attack.

Government have also been pleased to sanction the payment, as a special case, of an additional grant of Rs. 13,000 for meeting certain increased expenditure, arising out of the payment of dearness allowance and higher prices during the year under report.

The Executive Committee records its grateful thanks to the Provincial Government for the timely financial assistance rendered to the zoo. This has enabled the Committee to tide over the difficulties incurred during a strenuous period, when Calcutta became a danger zone and prices ran up high.

The following is a comparative statement of visitors and receipts for the last four years:—

Years.	Visitors.	Receipts.
		Rs. a.
1942	271,660	16,978 15
1943	259,977	16,249 11
1944	375,887	23,493 4
1945	987,454	61,719 9

It would appear from the above figures that there has been a gratifying rise in the number of visitors. A record crowd attended on the 25th December 1945 when 19,107 people visited the Gardens. It is now a recognised fact that the Zoological Gardens, Calcutta, is a popular resort for instructive and healthy relaxation.

From a statement of the financial position of the Gardens (Appendix A) it will be seen that the finances which caused considerable anxiety during the war period have shown signs of improvement and there is reason to hope that we will be able to embark on progressive schemes of development in consonance with modern zoological standards. Negotiations are being set on foot with foreign zoos to acquire various species of large and small animals such as Giraffes, Elands, White-tailed Gnu, Burchell's Zebra, Leechwe Deer, Spring Buck, Bush Buck, Chacma Baboons, Mandrils, African Lions, Ostriches. Birds of various species from the Himalayas and more elephants will be added to the collection. These animals are calculated to cost the zoo more than Rs. 50,000.

The Corporation of Calcutta.—The Committee desire to express their thanks to the Corporation for their continued generosity in remitting the consolidated municipal rates in respect of the Zoological Gardens and outhouses for the year 1943-44.

The Committee, however, regret that the Corporation have so far withheld the grant for the year 1944-45. The Committee trust that the Corporation will not fail to appreciate the cultural and recreational amenities which the Gardens provide to the public. It expects that the grant will be provided erelong.

Distinguished Visitors.—In September last, His Excellency Sir H. P. Twynam, K.C.S.I., C.I.E., I.C.S., Acting Governor of Bengal, paid a visit to the Gardens. His Excellency was shown round the Gardens and he evinced great interest.

In November last, Field-Marshall Lord Alanbrooke, G.C.S., D.S.O., First Chief of the General Staff, paid a visit to the Gardens along with his A.D.C. Lieut.-Colonel H. V. S. Charrington. The Superintendent showed them round. Lord Alanbrooke expressed his great pleasure at what he saw and congratulated the Superintendent on the fine condition of the exhibits. He also mentioned that some thirty years ago, he sent a present of a pair of Sloth Bears.

In spite of the dearth in the supply of good quality of flower and vegetable seeds, the Gardens maintained its previous standard in horticulture as well as in the display of annuals. The work of cultivation of fodder and essential vegetables for the animals and birds was successfully carried out. Cabbage, cauliflower, carrots, lettuce and lucerne grass, etc., were sown and the yield had been quite satisfactory.

A large number of school children attended by their teachers were admitted free to the Gardens. Thirty-four thousand and sixty-seven persons visited the Gardens on free days in addition to the number of visitors already reported.

S. SINGH ROY,
Honorary Secretary.

L. R. FAWCUS,
President.

S. M. YAQUB,
Superintendent.

APPENDIX A.

Abstract Financial Statement from 1st January to 31st December 1945.

Receipts.

		Rs.	a.	p.
1.	Opening balance	13,103	8	4
2.	Interest	1,459	1	0
3.	Rent	7,568	2	0
4.	Compensation for military occupation	43,550	0	0
5.	Government contribution	16,000	0	0
6.	Government contribution as compensation for destruction and giving away of valuable animals under Defence of India Rules	23,340	0	0
7.	Entrance receipts	61,719	9	0
8.	Miscellaneous receipts	7,782	13	3
	Total ..	1,74,523	1	7

Expenditure.

1.	Establishment (permanent)	18,580	4	0
2.	Establishment (temporary) and Garden construction (tools, plants, etc.)	11,731	12	0
3.	Dearness allowance (permanent and temporary)	18,256	6	0
4.	Food of animals	56,360	8	0
5.	Purchase and transport of animals	4,801	4	6
6.	Miscellaneous contingencies	6,995	6	3
7.	Petty repairs to buildings, etc.	5,999	12	0
8.	Investment	5,000	0	0
9.	Advance taken in December 1945 for ration, etc. (balance unspent within December 1945 to be adjusted later)	101	13	3
	Total ..	1,27,827	2	0
	Balance in favour of the Gardens ..	46,695	15	7
	Grand total ..	1,74,523	1	7

Reserve Fund.

				Face value. Rs. a. p.
1.	3½ per cent. Government Promissory Notes of 1865 (in custody of Reserve Bank)			6,800 0 0
2.	Amount kept at Bank General Fund for investment in 3½ per cent. Government Promissory Notes (Imperial Bank having been advised to buy)			1,500 0 0
3.	3½ per cent. Government Promissory Notes (1900-01) (In custody of Imperial Bank)			3,000 0 0
4.	3½ per cent. Government Promissory Notes (1842-43) (In custody of Imperial Bank)			15,000 0 0
5.	3½ per cent. Government Promissory Notes (1900-01) (In custody of Imperial Bank)			100 0 0
6.	3 per cent. Victory Loan, 1957 (In custody of Imperial Bank)			13,000 0 0
7.	3 per cent. Victory Loan, 1957 (In custody of Imperial Bank)			4,900 0 0
8.	Interest-free Prize Bonds (In custody of Imperial Bank)			2,000 0 0
9.	Imperial Bank Savings Bank account	Rs. a. p. 2,710 5 0		
	Less interest shown as receipts	86 3 0		2,624 2 0
10.	Imperial Bank General Fund account	3,809 10 5		
	Less amount of Item No. 2 Reserve Fund above	1,500 0 0		
		2,309 10 5		
		Rs. a. p.		
	Less Contractors' security deposits	700 0 0		
	Unadjusted balance of investment	61 12 0	761 12 0	
			1,547 14 5	
	Less interest, etc., shown as receipts up to December 1945	1,250 11 8		
	Deduct expenditure	97 10 6		
			1,153 1 2	394 13 3
11.	Permanent advance with Gate clerks at Gates		10 0 0	
	Permanent advance with Store-keeper		290 0 0	300 0 0
			Total	49,618 15 3

APPENDIX B.

Summary of Visitors and Gate Receipts.

1945.	Paying visitors.	Receipts. Rs.	a.	Free day.
1. January	58,376	3,648	8	2,041
2. February	52,109	3,256	13	2,323
3. March	49,806	3,112	14	1,768
4. April	45,437	2,839	13	1,775
5. May	52,531	3,283	3	2,126
6. June	76,418	4,776	2	2,234
7. July	75,028	4,689	4	2,984
8. August	80,163	5,010	3	2,681
9. September	86,686	5,418	5	5,485
10. October	1,32,485	8,281	15	3,787
11. November	1,15,129	7,195	9	3,794
12. December	1,63,286	10,207	0	3,069
Total ..	9,87,454	61,719	9	34,067

APPENDIX C.

A

Anderson, Capt. J. S. .. .. 1 Nilgai.

B

Blackburn, Mr. H. T. V. .. .. 1 Leopard cat.
Bill, Lt. E. O. N. .. .. 1 Leopard cub
Bisio, Copl. E. J. .. .. 1 Himalayan bear.
Biswas, Mr. B. .. .. 1 Indian pangolin.
Boris, Mrs. .. .. 1 Indian antelope.
Burder, Lady C. A. .. .. 2 Blossom-headed parrakeets..

C

Campbell, Mr. J. B. .. .. 1 Hoolock gibbon.
Casey, His Excellency the Right Hon'ble R. G., C. H., D. S. O., M. C., Governor of Bengal .. .. 1 Leopard cat.
Crawshow, Mrs. .. .. 9 Guinea-pigs.

D

Dutt, Mr. K. .. .. 2 Himalayan jays.
Dutt, Mr. Keshub .. .. 2 Pekin Robin, 2 Chloropsis (gold fronted).

E

Edgley, Mrs. N. G. A. .. .. 2 Budgerigars.
Ehrenreich, Mr. Theodore .. 1 Tiger cub.
England, Mr. C. W. .. .. 1 Rhesus monkey.

H

Hayling, Major A. .. .. 1 Sloth bear, 1 Spotted deer, and 1 Sambar deer.
Hoare, Mrs. S. F. .. .. 10 Budgerigars.
Huges, Capt. G. V. .. .. 1 Common otter.

K

Kendall, S/Ldr. F. M. .. .. 1 Leopard cub (male).

L

Lahiri Chowdhury, Mr. D. K. .. 2 Himalayan bear cubs.
Law, Dr. S. C., M.A., Ph.D., F.Z.S., M.B.O.U. .. .. 2 Painted spur fowl.

M

Mondol, Mr. B. C. .. .. 1 Python.
Mitra, Mr. B. K. .. .. 1 Marsh crocodile.

R

Robbins, Mr. J. W. .. .. 1 Indian ratel.
Ray, Mr. Debendra Nath .. 1 Marsh crocodile.
Raja Birendra Bikram Singh Sahib, C.I.E. .. 1 Bar-headed goose, 1 white-fronted goose, 4 wigeons, 1 pochard, 6 common teals, 5 red-crested pochards, 7 pin-tailed ducks, 1 ruff.

S

Sand, Rai Bahadur Pd. Madhoram .. 6 Cheer pheasants, 10 Indian crimson tragopan pheasants, 3 purple kalij pheasants, 22 chukor partridges, 3 common hill partridges, 1 koklas pheasant, 6 wedge-tailed green pigeons.
Shamsher Jung Bahadur, Major Genl. Ekraj, Rana of Nepal .. 13 Chukor partridges.
Singha, Mr. I. K. .. .. 1 Full-grown tiger.
Singh Roy, Mr. S. .. .. 2 Java sparrows, 2 waxbills, 1 cockateel 1 white-capped redstart, 6 striated laughing thrush.
Smith, Lt.-Col. C. C. H., Chief Minister, Rewa State .. .. 1 Leopard cub.
Singha, Kumar Jagadish Chandra .. 1 Saras crane.

V

Vidmar, Rev. L. .. .. 10 Gold fishes.

W

Withey, Mr. A. .. .. 1 Rhesus monkey.
Worton, Cppl. R. A. F. .. .. 1 Pig-tailed macaque.

BGP-45 6-10824D-150

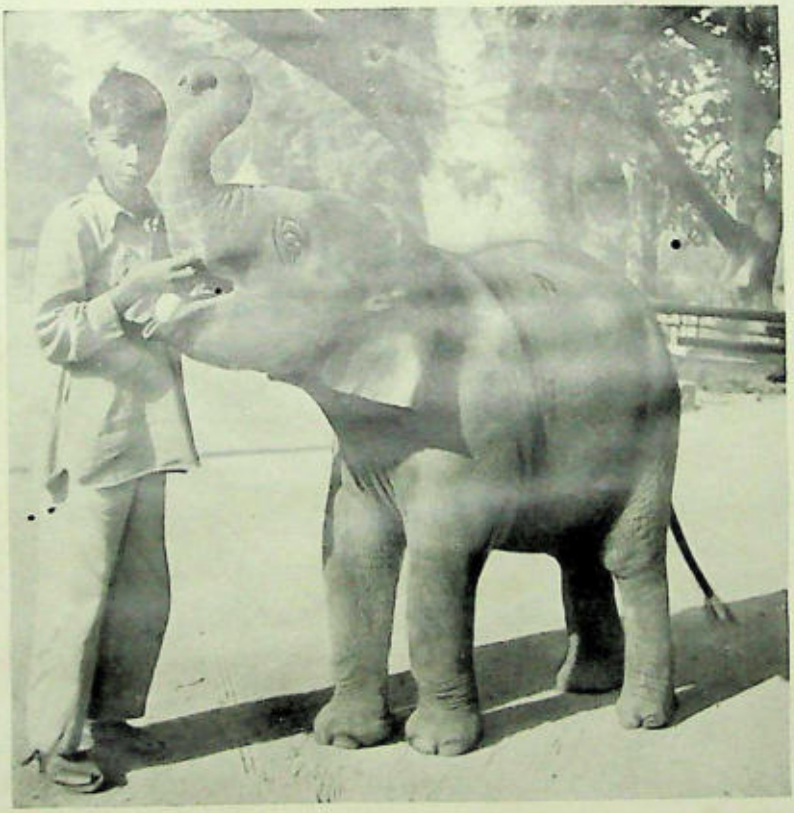


Government of Bengal

Report of the Honorary Committee for the Management of the Zoological Gardens, Calcutta 1946

Superintendent, Government Printing
Bengal Government Press, Alipore, Bengal
1947

Gratis



Baby "Bijili" is being fed

Report of the Honorary Committee for the Management of the Zoological Gardens, Alipore, Calcutta, for the Calendar year 1946

The Executive Committee for the management of the Zoological Gardens have the honour to submit their report for the calendar year ending 31st December 1946, supplemented by—

(1) An abstract of accounts of ordinary receipts and expenditure.

(2) Monthly returns of visitors and gate receipts and a list of donors and their donations.

The management of the Gardens is vested in a General Committee and an Executive Committee.

The term of office of the General Committee of Management of the Zoological Garden, Alipore, reconstituted under Resolution No. 1825, dated the 8th July 1943, having expired, the Governor was pleased to reconstitute the Committee on 6th July 1946 under Resolution No. 7676-Zoo on the following lines:—

(1) There shall be a General Committee and an Executive Committee.

(2) Both Committees shall be reconstituted by Government every three years.

(3) The reconstitution of the General Committee will be followed by the reconstitution of the Executive Committee.

(4) Members of both Committees will hold office from the date of appointment until the date of reconstitution thereof.

(5) The practice in regard to appointments to the late Honorary Committee will be continued in regard to appointments to the General Committee.

(6) Members of the General Committee shall be eligible for re-appointment.

(7) The General Committee consists of the following members:—

President.

(1) Mr. L. R. Fawcus, C.S.I., C.I.E., I.C.S.

Vice-Presidents.

(2) Dr. S. C. Law, M.A., Ph.D., F.N.I., F.Z.S., M.B.O.U.

(3) The Hon'ble Mr. Justice A. S. M. Latifur Rahman, M.A. (Cantab.), Bar-at-Law.

Honorary Secretary and Treasurer.

(4) Mr. Saileswar Singh Roy.

Nominated members.

(5) Ihtisham-ul-Mulk, Rais-ud-Daula Amir-ul-Omrah Nawab Sir Asif Qadr Saiyid Wasif Ali Mirza, Khan Bahadur, Mahabatjung, K.C.S.I., K.C.V.O., Nawab Bahadur of Murshidabad.

(6) Sir David Ezra, Kt., F.Z.S., M.B.O.U.

(7) Rai Ajit Nath Das Bahadur, J.P., F.Z.S., M.R.A.S.

(8) Mr. G. Morgan, C.I.E., F.R.H.S., M.L.A.

(9) Sir Uday Chand Mahtab, K.C.I.E., M.L.A., Maharajadhiraja Bahadur of Burdwan.

(10) Mr. Amin Ahmed, M.B.E., M.A., LL.B. (Cantab.), Bar.-at-Law.

(11) Raja B. N. Roy Chowdhury of Santosh.

(12) Mr. G. R. Dods.

(13) The Hon'ble Mr. Justice J. A. Clough.

(14) Mr. A. F. M. Abdul Ali (Khan Bahadur), M.A., F.S.L.

(15) Dr. K. Biswas, M.A., D.Sc. (Edin.), F.R.S.E.

(16) Mr. S. Chowdhury, I.F.S.

(17) Mr. E. A. Paterson.

(18) Mr. K. K. Das, B.A., F.R.S.A. (London).

(19) Khan Bahadur Wali-ul-Islam.

(20) Khan Bahadur K. M. Asadullah.

(21) Khan Bahadur A. M. Md. Fazlul Karim, M.A., Shipping Master.

(22) Mr. Md. Rafique (Corporation of Calcutta).

(23) Mr. W. A. S. Lewis, M.A., O.B.E., I.C.S.

(24) Dr. A. A. M. Wajih, M.B.E., L.R.C.P., M.R.C.S., D.T.M. & H. (England).

Ex-officio members.

(25) The Commissioner of the Presidency Division.

(26) The Mayor of Calcutta.

(27) The Secretary, Natural History Section of the Royal Asiatic Society of Bengal.

(28) The Director of Veterinary Services, Bengal.

(29) The Principal, Bengal Veterinary College, Belgachia.

(30) The Councillor of Ward No. 24 of the Calcutta Corporation.

(31) The Professor of Anatomy, Medical College, Calcutta.

In terms of clause (8) of Resolution No. 7676Zoo., dated the 6th July 1946, the Governor was pleased to reconstitute the Executive Committee of the Zoological Garden, Alipore, as follows:—

(1) The President, General Committee, Zoological Garden.

(2-3) The two Vice-Presidents, General Committee, Zoological Garden.

(4) The Honorary Secretary and Treasurer, Zoological Garden.

(5) The Commissioner of the Presidency Division.

(6) The Director of Veterinary Services, Bengal.

(7) The Mayor of Calcutta with power to nominate the local Ward Councillor of the Calcutta Corporation as his substitute.

Nominated members.

(8) Sir Uday Chand Mahtab, K.C.I.E., Maharajadhiraja Bahadur of Burdwan.

(9) Sir David Ezra, F.Z.S., M.B.O.U.

(10) Mr. S. Chaudhuri, I.F.S.

(11) Khan Bahadur Wali-ul-Islam.

(12) Mr. A. F. M. Abdul Ali, M.A., F.R.S.L.

Appointment.

Changes in the General Committee.—Owing to the prolonged absence from India of Mr. W. K. Dods, Vice-President of the Gardens, Dr. S. C. [illegible] was made first Vice-President in his place and the Hon'ble Mr. Justice A. S. M. Latifur Rahman was appointed as 2nd Vice-President. Messrs. Amin Ahmed, M.B.E., M.A., LL.B. (Cantab.), Bar.-at-Law, Raja B. N. Roy Chowdhury of Santosh and G. R. Dods were newly appointed members.

The severance of connection of Mr. W. K. Dods owing to his departure from India is very much regretted. The Zoo Gardens owe him a deep debt of gratitude for the keen interest he used to take in the institution and for his munificent gifts.

Staff of the Gardens at the end of December 1946.

Superior Staff.

Superintedent—Khan Bahadur S M. Yaqub.

Assistant Superintendent—Mr. R. K. Lahiri, B.SC., G.V.SC.

Medical Officer—Dr. S. N. Roy Chowdhury, L.M.S.

Subordinate staff.

Store-keeper—Babu T. C. Chatterji.

Accountant—Babu G. C. Auddy.

Gate Clerk—Babu Bepin Behary Chatterji.

Also one Record-keeper, one Gate Clerk, two Assistant Gate Clerks and one Ticket Painter.

Menial Staff.

2 Jamadars.
3 Mahouts.
21 Keepers.
2 Bhistees.
1 Food Distributor.
1 Cook.
24 Durwans, Chaprasis.
(1 Duftry).
1 Head Mali.
2 Mate Malis.
4 Malis.
4 Cooly Sardars.
10 Coolies.
1 Carpenter.
1 Mason.
1 Mistry (who does the work of plumber and of the blacksmith).

Temporary men were engaged as and when required.

Acquisition.

Notable acquisitions during the year under report by presentation, purchase and exchange were three Tigers, two Lions, five Leopards, two Himalayan Bears, 2 Tibetan Lynx, 1 Tibetan Hill Fox, 4 Cat Bears, 1 King Cobra, 5 Hoolock Gibbons, 1 Yellow-throated Marten, a pair of young Barbary Sheep, 1 Llama, 3 Weeper Capuchin Monkeys, 1 Young female Barasingha Deer, 1 female Elephant Calf, one Siberian White Crane and several species of Himalayan birds and water fowl.

Presentation.

The Committee offers its thanks to the donors for their gifts. The names of donors with a list of their respective gifts are given in Appendix C.

Births.

It was mainly due to the maintenance of good health and fine condition of mammals and aves that there has been quite a successful record of births and hatchings in the Gardens.

A list of important births and hatchings during the year is given below:—

4 Leopard cubs.
1 Sambar deer.
4 Spotted deer.
2 Barking deer.
2 Nilgais.
1 Yellow baboon.
3 Raccoons.
14 Black swans.
4 Cockateels.
43 Rosy-faced Love birds.
41 Budgerigars.
1 Australian Crested dove.
5 Scarlet ibises.
1 Crested currassow.
1 Greater Sulphur Crested cockatoo.
7 Egyptian geese.
2 White peafowls.
6 Javan Jungle fowls.
4 Sonnerat's Jungle fowls.
19 Burmese Red Jungle fowls.
2 Mute swans.
4 Bronze-winged pigeons.
1 Bengal Green pigeon.
4 Peacock pheasants.
1 Burmese Silver pheasant.
6 Purple Kalij pheasants.
1 Swinhoes pheasant.
4 Nepal Kalij X Purple Kalij pheasants (Hybrids).

Exchange.

It is noted with satisfaction that the Committee is once again in a position to supply in many cases, by way of exchange to foreign Zoos and foreigners specimens of the fauna of India acclimatised in this Garden. During the year under review some specimens were sent abroad. The names of institutions, individuals and specimens are given below:—

Zoological Gardens, Royal Park, Parkville Melbourne.

1 pair leopards.
1 pair Himalayan bear.
4 Adjutant storks.
3 pairs Saras cranes.
16 Entellus monkeys.

In exchange for various Australian fauna, such as grey and red kangaroos, Rufous-bellied wallabies, Eastern rosellas, Roseate cockatoos, Crimson rosellas, white cockatoos and Cape Barren geese, etc.

Wellington Zoo (New Zealand).

30 Rhesus monkeys.
2 Entellus monkeys.
4 Burmese Red Jungle fowls.

Mr. A. Foehl of U. S. A.

5 Large Indian squirrels.
5 Brown-Stump tailed monkeys.
2 Black swans.
2 Baby crocodiles.
1 Hoolock.
2 Lion-tailed monkeys, etc.

The following were received from Mr. Foehl in exchange:—

2 Barbary sheep.
3 Weeper Capuchin monkeys.
4 Red Crested cardinals.
2 Green cardinals.
4 Black Throated siskins.
1 Jacarini finch.
4 Saffron finch.
11 Other finches.

The Committee is grateful to the Director, Civil Veterinary Department, Bengal, and the Principal, Bengal Veterinary College, for the help rendered by them in various important cases.

Deaths.

The number of deaths in the Garden investigated by postmortem examination during 1946 was 236 (71 Mammalian, 152 Avian and 13 Reptilian).

In some doubtful cases pathological materials were sent to the Bengal Veterinary College for confirmation of our findings. Some valuable skins were cured and sent to the Director, Zoological Survey of India, Benares, for scientific study.

A list of more important cases which were subject to pathological diagnosis is given below:—

Abscess (Liver)—Fallow deer (f).

Abdominal Tumour—1 Red bird of Paradise.

Bad moulting—3 Cockateels, 1 Australian Crested Dove, 1 Purple Kalij Pheasont, 1 Pintail Duck.

Bad Ecdysis—Some snakes including a king cobra.

Cystitis (resulting in uræmia)—1 Llama.

Crop-Bound— 1 Burmese Red Jungle fowl, Bengal Green pigeon.

Diarrhœa and Dysentery—3 Barking deer, 2 Nilgai, 3 Bonnet monkeys, 5 Hoolocks, 2 Leopard cubs, 2 Langurs, etc.

Enteritis—1 Lesser Bird of Paradise, 1 Red Bird of Paradise, 2 Wild dogs, 1 Tibetan lynx.

Egg-Bound—1 Budgerigar.

Fracture—1 Himalayan bear cub.

Gastro-enteritis—1 tiger, 1 Indian antelope, 1 cat-bear 1 spotted deer, 1 great kangaroo.

Gall-stones—1 Himalayan bear.

Helminthiasis—6 White-necked storks, 1 Tibetan lynx, 1 Greater-sulphur Crested cockatoo, etc.

Infectious diseases—There was no outbreak of any contagious or infectious disease among the animals and birds that are prevalent in Lower Bengal.

A disease of obscure origin occurred among some Greater Flamingoes. Post-mortem examination on the body of several dead birds were performed in the Garden and also at Bengal Veterinary College. The nature of the disease which may be of virus origin could not, however, be ascertained.

Improvements.

The Committee was unable to take up any major work of improvement owing to insufficient funds. Essential repairs and maintenance works were carried out during the year. The high prices of material, dearth of labour and its abnormal cost slowed down the Committee's efforts in this direction.

Refreshment Room at Kidderpore Gate.

This building had been under the occupation of the Armed Forces during the period of the War. The wear and tear during their occupation was heavy. As the tenders obtained were exorbitant the Committee undertook the work departmentally, and thoroughly repaired the building.

Jungle Fowl Enclosure.

The top of the old crane enclosure was covered with Hex. wire-netting and made suitable for housing pheasants, etc.

Bird of Prey House.

Several partitions have been provided in the Birds of Prey House to accommodate crowned pigeons and Currasows, etc.

Hoolock Island.

The old thatched shed fell down in a heavy storm and a new one has been erected. This has also been covered with Hex. wire-netting.

Murshidabad and Rodent Houses.

The outside bottom wire-netting and iron work in these houses suffered heavily from corrosion. This has necessitated construction of a dwarf cement concrete wall round the whole houses with round iron rods to prevent further corrosion.

Cat cages.

Owing to a heavy storm, a huge tree fell upon the Cat cages badly damaging five of these cages. These had been re-erected. A few small animals are on exhibition in these cages.

Main gate and boundary wall.

All the turnstile and main gates had been thoroughly repaired and painted. A portion of boundary wall facing the Belvedere Road was colour washed.

Refreshment pavilion.

The pavilion was under the occupation of several military units and was damaged during their stay. This was also thoroughly repaired and white and colour washed and the entire wooden work painted.

Distinguished visitors.

Lady Burrows paid two visits to the Gardens during the year. She was received and shown round the Garden by Mr. L. R. Fawcus, C.S.I., C.I.E., I.C.S., President, Mr. Saileswar Singh Roy, Honorary Secretary, Khan Bahadur S. M. Yaqub, Superintendent, and Babu R. N. Lahiri, 2nd Assistant Superintendent. She appeared much pleased with what she saw, and evinced great interest in the exhibits and appreciated improvements in the Gardens after evacuation of the military.

The Hon'ble Mr. Ahmed Hussain, Minister-in-charge of the Agriculture, Forests and Fisheries Department, Government of Bengal, paid a visit to this Garden in company with Mr. N. M. Khan, I.C.S., Director of Agriculture, Bengal, and Mr. S. M. Ali, M.R.C.V.S., Director of Civil Veterinary Department, Bengal. They were received and shown round the Garden by the Superintendent and Assistant Superintendent.

General improvement of the grounds.

At a considerable expenditure the grounds of the Gardens had been levelled and improved.

Finance.

Due to the recent riots in Calcutta both our gate and miscellaneous receipts, which comprise the principal sources of revenue went down to Rs. 2,906 during the quarter ending 15th November 1946, as compared with Rs. 21,481 for the same period in the previous year. We are faced with considerable deficit during the current year.

In these circumstances the Committee found it impracticable to carry on the work of the Gardens in an efficient manner without further financial assistance from Government and they have applied to Government for a special grant of Rs. 20,000 during the current financial year. The Committee trust that in the circumstances stated above the Government of Bengal will be kind enough to accord sanction to the grant applied for.

A sum of Rs. 40,000 has been received from the Army authorities as compensation for the damages done to its buildings. The Committee has decided to place this sum in a separate account in the Imperial Bank of India to be spent exclusively on "Reconstruction and Repairs."

Horticulture, etc.

Flowering plants were planted in areas rendered unsightly by the use of the military personnel. The horticultural side of the Gardens is being maintained in the midst of difficulties in procuring better seeds and plants. It is expected that the display of annuals will improve next year.

The Begumbari land was fully utilised for fodder cultivation for the use of animals and birds and the output of the various crops was satisfactory.

The Corporation of Calcutta has made a demand of Rs. 11,996-10 as the occupier's share of the rates and taxes of the premises No. 2, Alipore Road, in which the Gardens are located for the year 1944-45. A representation was made by this office to the Corporation in July last to have the demand of Rs. 11,996-10 waived. The Gardens have been enjoying this privilege previously and the Committee trusts that the Corporation will continue to extend their support to a popular public institution which provides for the recreational and cultural amenities for the people of Calcutta and visitors from outside. It is hoped that the matter will receive their favourable consideration.

A large number of children under four years of age and many school children attended by their teachers were admitted free to the Garden. Besides those 33,055 persons visited the Garden on free days.

A detailed statement of the number of visitors and receipts appears in Appendix B.

The Committee wish to convey their appreciation and thanks to those members of the public as well as to members of the Gardens who have contributed towards the satisfactory results achieved during the year under review.

S. M. YAQUB,
Superintendent.

L. R. FAWCUS,
President.

S. SINGH ROY,
Honorary Secretary.

APPENDIX A.

Abstract financial statement from 1st January to 31st December.

Receipts.

		Rs.	a.	p.
(1)	Opening balance	46,695	15	7
(2)	Interest	742	8	0
(3)	Rent	9,218	0	0
(4)	Compensation from Military	6,020	11	0
(5)	Additional Government grant to meet certain expenditure in 1945-46 ..	13,000	0	0
(6)	Government contribution	16,000	0	0
(7)	Entrance receipts	67,705	2	0
(8)	Miscellaneous receipts	13,211	0	0
(9)	Transfer from the account "Reconstruction and Repairs" Fund ..	3,683	4	6
(10)	Assets up to 31st December 1946 as per details below :—			

	Rs.	a.	p.			
(*a*) Rent of the Hermitage for December 1946 ..	425	0	0			
(*b*) Government contribution for December 1946	1,333	5	4			
(*c*) Occupiers' share of taxes from Roadside stall-holders	275	7	0			
(*d*) Amount to be transferred from the Imperial Bank of India after the sale of Securities as per Com. Resol. No. IV, dated 16th November 1946	15,000	0	0	17,033	12	4
Total ..	..			1,93,310	5	5
Deficit ..	..			31,118	7	4
				2,24,428	12	9

Expenditure.

(1)	Establishment (permanent and temporary)	31,570	0	0
(2)	Dearness allowance (permanent and temporary)	34,934	9	0
(3)	Food of animal	48,560	1	3
(4)	Purchase and Transport of animals	12,767	2	3
(5)	Miscellaneous contingencies	7,681	14	3
(6)	Petty repairs to Buildings, etc.	7,953	11	3
(7)	Investment	38,238	2	9
(8)	Garden construction (tools, plants, etc.)	3,281	4	0
(9)	Advance taken in December 1946 (to be adjusted later)	1,500	0	0
(10)	Liabilities up to 31st December 1946 as per details below :—			

	Rs.	a.	p.			
(*a*) Pay and dearness allowance bills for December 1946	5,642	0	0			
(*b*) Food bills (approximate)	12,000	0	0			
(*c*) Sundry (approximate)	6,500	0	0			
(*d*) Pensionary contribution	195	0	0			
(*e*) To repay the Imperial Bank for overdraft taken against investments (when fund available) ..	13,000	0	0			
(*f*) To repay the Imperial Bank against interest for overdraft, etc.	205	0	0			
(*g*) Amount refundable to the contractors as security deposit, etc.	1,000	0	0	37,942	0	0
Total ..	..			2,24,428	12	9

	Rs.	a.	p.
Reconstruction and Repairs fund with the Imperial Bank of India ..	40,000	0	0
Less drawn ..	3,683	4	6
Balance in the bank ..	36,316	11	6

Reserve Fund.

	Rs.	a.	p.
3 per cent Con. Loan, 1986 (in custody of Imperial Bank of India) ..	5[illegible],000	0	0
3 per cent. Con. Loan, 1986 (in custody of Reserve Bank)	6,800	0	0
3 per cent. Victory Loan, 1957 (in custody of Imperial Bank of India) ..	13,000	0	0
3 per cent. Victory Loan, 1957 (in custody of Imperial Bank of India) ..	4,900	0	0
Interest-free Prize Bonds (in custody of Imperial Bank of India)	2,000	0	0
Total ..	83,500	0	0

Deduct—

	Rs.	a.	p.			
(1) Overdraft taken from the Bank against investments (repayable when fund available including interest) ..	13,500	0	0			
(2) Advised for the sale of 3 per cent. Con. Loan, 1986 (to be transferred to the Garden Fund)	15,000	0	0	28,500	0	0
Total				55,000	0	0

Other Funds.

Imperial Bank Savings Bank Account	2,737	7	0
Permanent advance with store-keeper and gate clerks	300	0	0
Total	3,037	7	0

Appendix B.

Summary of visitors and Gate Receipts.

1946.	Paying visitors.	Receipts. Rs.	a.	Free day visitors.
(1) January	172,267	10,769	0	4,592
(2) February	104,408	6,526	2	3,579
(3) March	114,224	7,139	2	3,273
(4) April	121,447	7,590	8	3,710
(5) May	103,915	6,494	11	2,339
(6) June	133,286	8,330	8	5,680
(7) July	121,[illegible]7	7,609	4	4,489
(8) August	66,182	4,136	7	267
(9) September	12,850	803	2	537
(10) October	16,029	1,001	13	707
(11) November	18,745	1,171	9	813
(12) December	98,119	6,133	0	1,910
Total ..	1,083,219	67,705	2	31,896

APPENDIX C.

A

Allam, Esq., A. F. M. ..	.. 1 Leopard.
A. D. M. S., Eastern Command ..	.. 1 Leopard.
Ali, Esq., S. M., B. Sc., M. R. C. V. S.	.. 4 Rabbits.

B

Blundell, Esq., W. L.	.. 1 Tiger.
Biswas, Esq., Haripado	.. 1 Marsh crocodile (baby).
Bose, Mrs. Binapani	.. 1 Large Indian squirrel.
Bose, Mr. N. C.	.. 1 Nilgai.
Bell, Esq., E. H.	.. 1 Common palm civet.

C

Chatter, Esq., A. W.	.. 2 Adjutant starks.
Chatter, Mrs.	.. 1 Demoiselle crane.
Chase, Mrs. P. W.	.. 1 Hog deer.
Chaudhury, Esq., Hira Singh ..	.. 1 Rose Ringed parrakket.
Chatterji, Esq., S. C.	.. 2 Saras cranes, 2 Common peafowls.
Cheragh Din	.. 1 Rhesus' monkey.

D

Divisional Forest Officer, Palamou Division ..	1 Sloth bear.
Divisional Forest Officer, Khulna	1 Spotted deer.
Dass, Esq., R. K.	.. 1 Barasingha.
Das, Esq., Kalipada	.. 1 Rhesus monkey.
Das, Rai Bahadur A. N., J. P., F. Z. S., M. R. A. S.	1 Indian palm civet.
Dutt, Esq., K.	.. 1 Blue throated barbet.

E

Edgley, Lady N. G. A.	.. 2 Common geese.

F

Faweus, Esq., L. R., C. S. I., C. I. E., I. C. S. ..	1 Lesser whistling teal, 1 Pintail duck.
Fazlul Karim, Khan Bahadur A. M. Md., M. A.	4 Spotted deer.
Forest Department, Bengal	5 Spotted deer, 1 Leopard cub.
Foehl, Esq., A.	.. 1 Llama.
Fuller, Major P. J.	.. 2 Hoary-bellied squirrels.

G

Garga, Kumar D. P.	.. 1 Tiger.
Government of Bengal	.. 2 Lions, 1 leopard cub.

H

Hopkins, Major J. S.	.. 2 Wild pigs.
Hill. Capt. G.	.. 1 Common mongoose.

K

Kerr, Esq., W. S.	.. 2 Mandarin ducks, 1 Australian crested dove.

L

Law, Dr. S. C., M. A., B. L., Ph. D., F.N.I., M. B. O. U., F. Z. S., etc.	8 Red spur fowls, 2 Common grey hornbills, 1 Fishing owl.
Lewis, Esq. W. A. S., M. A., O. B. E., I. C. S. ..	1 Bengal green pigeon, 1 White-breasted king fisher, 2 Paradise flycatchers, 2 Bengal red-vented bul-buls, 1 Pintail-duck.

M

MacPherson, Mrs. M.	1 Spotted deer, 5 rabbits.
MacIvor, Esq., Major, M. B. E., and Major Vero, G. H.	1 Sloth bear.
Maclean, Esq., G. C.	2 Saras cranes, 1 large Indian squirrel.
Maharaja Bahadur of Datia, H. H. The ..	1 Tiger, 1 brown bear, 2 Himalayan bears.
Meade, Esq., W. G.	1 Indian chevrotain.
Montgomery, Esq., G. H.	1 Indian antelope.
Morris, Mrs. B.	1 Rabbit, 1 hare.
Mullick, Esq., B. K.	1 Marsh crocodile.

N.

Neville, Mrs. Wright	2 Wild dogs.

P.

Pramanic, Mr. B.	1 Russell's viper.

R.

Rai Choudhury, Miss Jaya	1 Barking deer.
Reza, Esq., K. H., B. A.	1 Common peafowl.
Richards, Esq., G. M.	1 Large Indian squirrel.

S

Sand, Rai Bahadur Pd. M.	6 Monals, 26 Indian crimson tragopan pheasants, 3 Nepal Kalij pheasants, 4 koklas, 3 cheers, 9 chukor, 3 green pigeons, 1 Indian plam civet.
Singh Roy, Esq., S.	1 Fishing cat.
Singh Roy, Esq., S., Honorary Secretary ..	1 Pekin robins, 2 silver eared Mesias, 1 Burmese peafowl, 3 red munias, 4 Indian ruby cheeks, 2 Red-tailed minlas.
Singh, Rai Bahadur S. N. Nehalia, Esq. ..	2 Baby pythons.
Superintendent, Central Jail, Fatehgarh ..	12 Indian antelopes.

T.

Thomas, Mrs.	1 Rhesus monkey.
Webber, Esq., P. H.	1 Indian antelope.

BGP-46/7-10099D-300



Government of West Bengal

Report of the Honorary Committee for the Management of the Zoological Gardens, Alipore, Calcutta, for the Calendar year 1947

Superintendent, Government Printing
West Bengal Government Press, Alipore, West Bengal
1948

Gratis



BLOWING BALOON

Report of the Honorary Committee for the Management of the Zoological Gardens, Alipore, Calcutta, for the Calendar year 1947.

The Executive Committee for the Management of the Zoological Gardens have the honour to submit their report for the calendar year ending 31st December 1947 along with—

(1) An abstract of accounts of ordinary receipts and expenditure.

(2) Monthly returns of visitors and gate receipts and a list of donors and their donations.

The Management of the Gardens is vested in a General Committee and an Executive Committee.

The General Committee consists of the following members:—

President.

(1) Mr. L. R. Fawcus, C.S.I., C.I.E., I.C.S.

Vice-Presidents.

(2) Dr. S. C. Law, M.A., Ph.D., F.N.I, F.Z.S., M.B.O.U.

(3) The Hon'ble Mr. Justice A. S. M. Latifur Rahman, M.A. (CANTAB.), BAR.-AT-LAW.

Honorary Secretary and Treasurer.

(4) Mr. Saileswar Singh Roy.

Nominated Members.

(5) Ihtisham-ul-Mulk, Rais-ud-Daula Amir-ul-Omrah Nawab Sir Asif Qadr Saiyid Wasif Ali Mirza, Khan Bahadur, Mahabatjung, K.C.S.I., K.C.V.O., Nawab Bahadur of Murshidabad.

(6) Sir David Ezra, K.T., F.Z.S., M.B.O.U. (since deceased).

(7) Rai Ajit Nath Das Bahadur, J.P., F.Z.S., M.R.A.S.

(8) Mr. G. Morgan, C.I.E., F.R.H.S., M.L.A.

(9) Sir Uday Chand Mahtab, K.C.I.E., Maharajdhiraja Bahadur of Burdwan.

(10) Mr. Amin Ahmed, M.B., M.A., LLB. (CANTAB.), BAR.-AT-LAW.

(11) Raja B. N. Roy Chowdhury of Santosh.

(12) Mr. G. R. Dods.

(13) The Hon'ble Mr. Justice J. A. Clough.

(14) Mr. A. F. M. Abdul Ali (Khan Bahadur), M.A., F.S.I. (since deceased).

(15) Dr. K. Biswas, M.A., D.SC. (EDIN.), F.R.S.E.

(16) Mr. S. Chaudhury, I.F.S.

(17) Mr. E. A. Paterson.

(18) Mr. K. K. Das, B.A., F.R.S.A. (LOND.).

(19) Khan Bahadur Wali-ul-Islam.

(20) Khan Bahadur A. M. Md. Fazlul Karim, M.A.

(21) Mr. Md. Rafiq (Calcutta Corporation).

(22) Mr. W. A. S. Lewis, M.A., O.B.E., I.C.S.
(23) Dr. A. A. M. Wajih, M.B.E., L.R.C.P., M.R.C.S., D.T.M. and H. (ENG.).
(24) Khan Bahadur K. M. Asadullah (now resigned).
(25) Hon'ble Mr. Justice A. S. M. Akram.
(26) Dr. Abdul Ahad, F.Z.S., M.L.A.

Ex-officio Members.

(27) The Commissioner of the Presidency Division.
(28) The Mayor of Calcutta.
(29) The Secretary, Natural History Section of the Royal Asiatic Society of Bengal.
(30) The Director of Veterinary Services, Bengal.
(31) The Principal, Bengal Veterinary College, Belgachia.
(32) The Councillor of Ward No. 24 of the Calcutta Corporation.
(33) The Professor of Anatomy, Medical College, Calcutta.

The Executive Committee consists of—

Ex-officio Members.

(1) The President, General Committee, Zoological Garden.
(2) and (3) The two Vice-Presidents, General Committee, Zoological Garden.
(4) The Honorary Secretary and Treasurer, Zoological Garden.
(5) The Commissioner of the Presidency Division.
(6) The Director of Veterinary Services, Bengal.
(7) The Mayor of Calcutta with power to nominate the local Ward Councillor of the Calcutta Corporation as his substitute.

Nominated Members.

(8) Sir Uday Chand Mahtab, K.C.I.E., Maharajadhiraja Bahadur of Burdwan.
(9) Sir David Ezra, F.Z.S., M.B.O.U. (since deceased).
(10) Mr. S. Chaudhuri, I.F.S.
(11) Khan Bahadur Wali-ul-Islam.
(12) Mr. A. F. M. Abdul Ali, M.A., F.R.S.L. (since deceased).
(13) Hon'ble Mr. Justice A. S. M. Akram.

Changes in the General and Executive Committees.

There were several changes in both the above Committees. Owing to the death of Mr. A. F. M. Abdul Ali, the Hon'ble Mr. Justice A. S. M. Akram was appointed in his place in both the General and Executive Committees.

Mr. H. A. Keatinge, M.B.E., Superintending Engineer, Presidency Circle, was co-opted in the Executive Committee.

Dr. Abdul Ahad, F.Z.S., M.L.A., was appointed a member of the General Committee.

Later on in the year Mr. Ramnath Chatterjee of the Bengal Senior Service of Engineers was co-opted in the Executive Committee in place of Mr. Keatinge who has left India.

A vacancy in the Executive Committee has been caused by the death of Sir David Ezra. This was filled after the end of the year under report by Major J. M. Lahiri, Principal, Bengal Veterinary College, Belgachia.

The resignation of Khan Bahadur K. M. Asadullah from the membership of the General Committee was accepted.

Four new Life Members were enrolled during the year.

Distinguished Visitors.

Her Excellency Lady Burrows visited the Gardens with her daughter and son-in-law. She evinced great interest and visited the Gardens several times subsequently.

Shri Narasiman, son of His Excellency Shri Chakravarti Rajagopalachari, Governor of West Bengal, visited the Gardens several times and gave an indication of his practical interest by making several useful suggestions.

Staff of the Gardens at the end of December 1947.

Superior Staff.

Superintendent—Khan Bahadur S. M. Yaqub, F.Z.S.

Assistant Superintendent—Mr. R. K. Lahiri, B.Sc., G.V.Sc.

Medical Officer—Dr. S. N. Roy Chowdhury, L.M.S. (part-time).

Subordinate Staff.

Store-keeper—Babu T. C. Chatterji.

Accountant—Babu G. C. Auddy.

Veterinary Assistant—Babu S. N. Sarkar.

Gate Clerks—Babu A. K. Mukherji, and Babu B. B. Chatterji, retired from March 1947.

Record-keeper—Babu N. G. Mukherji.

Gate Clerk—Babu R. N. Mitter.

Also two Assistant Gate Clerks (one vacant since March) and one Ticket Painter.

Menial Staff (permanent and temporary).

2 Jamadars.
4 Mahouts.
30 Keepers.
2 Bhistees.
1 Food Distributor.
1 Cook.
24 Durwans, Chaprasis and Duftry.
1 Head Mali.
2 Mate Malis.
4 Malis.
4 Cooly Sardars.
36 Coolies.
1 Carpenter.
1 Mason.
1 General Mistry.
2 Methars, 1 Methrani.
2 Crow-driving boys.

Temporary men were engaged as and when required.

Acquisition.

Births.

Owing to improved health and conditions among the mammals and birds there has been a large number of important births and hatchings in the Gardens.

The most valuable was a pair of Black Leopards (male and female). The father of the baby leopards was separated from their mother seven days before their birth. The mother was very kind and affectionate to the cubs. These lovely cubs lived for about four months and unfortunately both of them died of cat distemper.

The Dumraon tigress gave birth to three cubs in the Burdwan House. Due to the mother's indifference they did not survive and succumbed three days after their birth.

The noticeable births among the birds were two Sulphur Crested Cockatoos and two Bare-eyed Cockatoos.

The important births and hatchings during the year are given below:—

1 Barking Deer (male).
2 Black Panther Cubs.
3 Indian Antelope.
8 Spotted Deer.
1 Macaque Monkey.
1 Sambar Deer.
1 Hog Deer.
13 Angora Rabbits.
3 Rhesus Monkeys.
1 Nilgai.
1 Bennet's Wallaby.
1 Arabian Baboon.

2 Greater Sulphur Crested Cockatoos.
1 Burmese Silver Pheasant.
2 Peacock Pheasant.
4 Purple Moorhen.
1 Egyptian Goose.
2 Nicobar Pigeons.
2 Currasows.
13 Rosy Faced Love Birds.
3 Bronze-winged Pigeons.
9 Burmese Red Jungle Fowl.
47 Budgerigars.
5 Tamborine Pigeons.
2 Bare-eyed Cockatoos.
1 Black Swan.
1 Blossom-headed Parrakeets.
1 Snow Pigeon.
3 Ring-necked Parrakeets.
3 Australian-Crested Doves.

Exchanges.

The following specimens were received on exchange.—

Zoological Gardens, Melbourne.

Received.

3 Rufous-bellied Wallabies.
40 Eastern Rosellas.
5 Crimson Rosellas.
4 King Parrots.
2 Cape Barren Geese.
6 Greater Sulphur Crested Cockatoos.
8 Roseate Cockatoos.
2 Phalangers.
3 Grey Kangaroos.
2 Red Kangaroos.
3 Emus.

Sent.

12 Langurs.
4 Adjutants
1 Himalayan Bear Cub.
6 Saras Cranes.

Pretoria Zoo.

Received.

1 White-tailed Gnu (female).
1 Barbary Sheep (female).

Mr. Van Heyst, Amersfoort, Holland.

Received.	*Sent.*
2 Mute Swans.	2 Indian Crimson Tragopan Pheasants.
	2 Monal Pheasants.

Babu Ashoke Mukherjee, Calcutta.

Received.	*Sent.*
2 Diamond Doves.	4 Budgerigars.

Maharaja Sahib Bahadur of Balarampur.

Received.	*Sent.*
2 Common Otters.	2 Australian-Crested Doves.
4 Angora Rabbits.	2 Bronze-winged Pigeons.
	2 Budgerigars.

Azmat Khan, Calcutta.

Received.	*Sent.*
2 Common Agoutis.	2 Raccoons.

Purchase.

Among the important purchases were two tigresses, three lions (one male and two females), four leopards, one caracal, and one golden cat. Other acquisitions by purchase were as follows:—

Mammals.

2 Himalayan Bears.
1 Sloth Bear.
4 Indian Antelopes.
1 Javan Mouse Deer.
4 Hoolock Gibbons.
4 Common Otters.
10 Brown Stump-tailed Monkeys.
3 Slow Loris.
5 Assam Langurs.
1 Indian Yellow-throated Marten.
64 Langurs.
7 Slender Loris.
1 Fishing Cat.
1 Leopard Cat.
1 Palm Civet.
41 Rhesus Monkeys.
42 Bonnet Monkeys.
3 Lion-tailed Monkeys.
2 Golden Entellus.
7 Large Indian Squirrels.

1 Little Niltava.
6 Bank Mynahs.
4 Black-throated Thrushes.
4 Tickell's Thrushes.
4 Himalayan Whistling Thrushes.
2 Kashmir Thrushes.
20 Striated Laughing Thrushes.
10 White-crested Laughing Thrushes.
1 Simla Streaked Laughing Thrush.
4 Ground Thrushes.
1 Short-billed Mountain Thrush.
1 Indian Oriole.
1 White-breasted Kingfisher.
8 Yellow-cheeked Himalayan Tits.
1 Maroon Oriole.
4 Green Magpies.
14 Red-billed Blue Magpies.
6 Yellow-headed Ixulus.
9 White-capped Redstarts.
6 Plumbeous Water Robins.
5 Niltava Macgregorii.
4 Niltava Sundaras.
8 Black-throated Himalayan Jays.
2 Verditer Flycatchers.
7 Assam Large Racket-tailed Drongos.
4 Rusty-cheeked Scimitar Babblers.
7 Slaty-headed Scimitar Babblers.
2 Ruby Throats.
3 Blue Throats.
5 Little Buntings.
3 Indian Robins.
1 Chestnut-bellied Nuthatch.
2 Wagtails.
4 Hardwick's Chloropsis.
1 Grey-winged Ouzel.
2 Little-pied Flycatchers.
1 Red-breasted Flycatcher.
1 White-eyebrowed Flycatcher.
1 Bengal Redcapped Babbler.
9 Indian Rufous-bellied Niltavas.
13 Black-headed Sibias.
5 Yellow-eyed Babblers.
6 Black-chinned Yuhinas.
2 Sheldrakes.
5 Spot-billed Ducks.
1 Black Bulbul.
3 Himalayan Brown-eared Bulbuls.
17 White-eared Bulbuls.
10 Red-cheeked Bulbuls.
3 Black-crested Yellow Bulbuls.
4 White-cheeked Bulbuls.
2 Black-headed Buntings.
13 Blue-winged Parrakeets.
10 Franklin's Crested Larks.
14 Adjutant Storks.
12 Himalayan Greenfinches.
6 Spotted-winged Stares.
19 Bayas (common).
3 Alexandrine Parrakeets.
5 Bengal Green Pigeons.
4 Orange-breasted Green Pigeons.
4 Singing Bush Larks.
1 White Crane.
16 Lesser Pied Hornbills.
5 Common Grey Hornbills.
2 Greater Pied Hornbills.
72 Brahminy Ducks.
23 Comb Ducks.
12 Pintail Ducks.
3 Shamas.
3 Gold Fronted Chloropsis.
20 White-eyes.
2 Silver-eared Mesias.
19 Painted Storks.
5 White Storks.
10 White-necked Storks.
12 Chukor Partridges.
2 Blue-cheeked Barbets.
1 Assam Lineated Barbet.
7 Emerald Doves.
4 Golden-headed Orioles.

7 Wagtails.
11 Pekin Robins.
16 Red-headed Pochards.
5 Tufted Pochards.
1 Wigeon.
12 Purple Moorhens.
2 Sun Birds.
12 Black-necked Storks.
2 Chinese Silver Pheasants (male)
2 Sikkim Jays.
11 Ashy-crowned Finch Larks.
1 Grey Parrot.
14 Rufous Turtle Doves.
1 White-breasted Kingfisher.
1 Little Brown Dove.
24 Common Teal.
41 Garganey Teal.
5 Crested Buntings.
2 Rose Finches.
3 Eastern Linnets.
3 Shovellers.
1 Swamp Partridge.
2 Himalayan Goldfinches.
23 Jungle Bush Quails.
9 Red Spur Fowl.
1 Painted Spur Fowl.
11 Saras Cranes.
10 Black-headed Ibis.

Reptiles.

1 Banded Krait.
5 Green Snakes.
2 Cobras.
1 Rat Snake.
1 Ornamental Snake.
4 Starred Tortoises.

The following comparative table shows how the various collections of the animals stood during the last four years:—

Years.	Mammals.	Birds.	Reptiles.
1944 ..	207	1,316	53
1945 ..	209	1,351	54
1946 ..	239	1,419	60
1947 ..	341	1,771	59

Presentation.

The Executive Committee for the Management of the Gardens convey their thanks to the donors for their free gifts. These gifts are most valuable additions to the collection. The names of donors with a list of their respective gifts are given in Appendix C.

Sales.

There were very good demands for Indian specimens from foreign zoos, some of whom sent their representatives to India for collection of Indian specimens. The Committee effected some sales to some of them, which are mentioned below:—

1. Dr. D. Ripley, Washington.

2 Rusty-cheeked Scimitar Babblers.
4 Slaty-headed Scimitar Babblers.
4 Indian Yelloy-eyed Babblers.
2 Yellow-cheeked Himalayan Tits.
7 Rufous-bellied Niltavas.

2 Black Bulbuls.
3 Himalayan Brown-eared Bulbuls.
4 Blue winged Sivas.
5 White-eared Bulbuls.
4 Black-headed Sibias.
4 White-crested Laughing Thrushes.
6 Striated Laughing Thrushes.
1 Verditer Fly Catcher.
4 Yuhina Nigrimentum.
1 White-capped Redstart.

2. Mr. E. A. Paterson, Calcutta.

6 Budgerigars.

3. Babu K. C. Sen, Calcutta.

20 Budgerigars.

4. Sir David Ezra, Calcutta.

24 Chukor Partridges.

5. London Zoo.

2 Tiger Cubs.
2 Leopards.
2 Sloth Bears.
2 Barking Deers.
1 Nilgai.
2 Saras Cranes.
6 Purple Kalij.
6 Nepal Kali.
4 Large Indian Squirrels.
1 Adjutant.
1 Common Otter.
3 Monal Pheasants.
1 Indian Palm Civet.

6. Goonesinhe & Sons, Ceylon.

1 Tiger.

Death.

Among the deaths the following were important ones:—1 Lesser Bird of Paradise (male), 1 Hyacinthine Macaw, 1 female Hippopotamus (this animal lived in the Garden for more than thirty-six years and died of peritonitis), 2 tigers, 3 leopard cubs and 4 Cat-bears.

There were some other losses by death of smaller animals, birds and reptiles, most of which were due to causes for which the Management of the Garden could not be responsible. The results of the post-mortem examinations during the year have been entered in the post-mortem book of the Garden.

An outbreak of cat-distemper amongst the leopard cubs broke out during the year under report. Prompt measures were taken to stamp out the disease before much mischief was done. An outbreak of fowl-cholera also broke out amongst some of the birds in the Garden. This was also successfully checked before it could spread out to other enclosures.

The Committee is thankful to Major Lahiri, Principal of the Bengal Veterinary College, Belgachia, and the Director of Civil Veterinary Department, Bengal, for the ready help rendered by them on various important cases.

Improvements.

The Committee put in two claims against the Military authorities on account of the damage done to the properties of the Zoological Gardens by the Military personnel during their occupation of the garden lands and buildings:—

	Rs.	as.
For damages done to buildings and lawns, etc ...	71,617	14
For damages done to roads	91,873	0
Total ...	1,63,490	14

The Military authorities admitted Rs. 40,000 on account of cost of repairs to the buildings, etc., Rs. 37,513 for roads and Rs. 1,150 for repairs to No. 4, Alipore Road (Hermitage). The Committee deposited all the above sums in the Imperial Bank of India under a separate account, viz., "Repairs and Reconstructions Fund".

Mr. Keatinge, Superintending Engineer, kindly helped the Committee in preparing specifications of repairs and in calling for tenders. Repair work was started under his advice and guidance. On his leaving India, Mr. Ramnath Chatterjee, Superintending Engineer, Presidency Circle, West Bengal, has taken up the supervision and has rendered much valuable help.

1. *Burdwan House and Mymensingh Enclosure*—The above building which is the biggest house for large carnivora has been thoroughly repaired, colour-washed and painted.

The entire structure is now occupied by lions and tigers comprising some of the Zoo's most valuable collections.

2. *Bear House*—This house was thoroughly repaired, colour-washed and painted. Himalayan and Sloth Bears and also some Hyænas have been accommodated in this house.

3. *Gubbay House*—The house has been thoroughly repaired and colour-washed. Most of the iron works were renewed and painted.

4. *Reptile House*—This house took a long time in the completion of its repairs. It was found during the course of these repairs that most of the window frames were worm eaten. All the frames were replaced by new ones made of teak. Tops and sides of the snake cages were covered with new wire-nettings of small mesh. The damaged plate glasses in the snake cages have all been replaced. The old broken marble slabs were removed from the floor and reset on the border and the whole floor of the House has been reconstructed with artificial stone. The house now presents a neat appearance. Snakes have been put in their reconstructed cages. There is still some space vacant and more exhibits of this class are required to fill it.

5. *Committee Room*—Plastering and colour-washing has been done and wooden doors, windows and iron works painted.

6. *Abdul Ghani House*—The house was thatched and painted and the floor cemented.

7. *Polar Bear House*—The pucca floor of this House was repaired and the iron structure repainted.

8. *Ornamental Bridges*—The concrete floors of both the ornamental bridges were badly damaged. These have been repaired.

9. *Roads and Pathways*—All the jhama metal roads and pathways in the New Extension from the Barbary Sheep Enclosure situated in the south right up to the Hospital have been thoroughly repaired and reconstructed.

The roads and pathways treated with colfix were thorough repaired.

10. *Petty repairs*—To other houses, sheds and enclosures were attended to.

Finance.

Owing to the very abnormal conditions which prevailed for a part of the year in Calcutta on account of riots and strikes, the revenues of the Garden suffered very seriously as the number of visitors for a considerable time fell so low that there was scarcely any gate money. As the Gardens depend mainly on public support for their financial stability this was a very serious blow and has had considerable repercussion on the financial conditions of the Gardens, which has not yet been made good by the existing improved atmosphere.

The Committee had to submit a budget estimate for the year 1947-48 to Government showing a large sum as deficit. In order to enable the Committee to meet its day-to-day expenditure the Committee had to sell Government securities to the face value of Rs. 45,000. Out of this sum the Committee had to repay Rs. 22,792-4 to the "Reconstructions and Repairs Fund". The Committee had to borrow Rs. 28,492-4 from this fund in order to liquidate some long outstanding bills of the contractors. Over and above this the Committee took an overdraft of Rs. 13,500 in 1946, which has not been repaid as yet.

Since August last the gate money is improving steadily. This is generally due to the improved conditions of civil security and to the increase in the population of Calcutta which finds pleasure in the absorbing interest and recreation which the Gardens provide.

Increase in expenditure is necessitated by the continuous rise in the cost of foodstuffs. The Committee has had an uphill task in maintaining the exhibits on a standard worthy of the best traditions of a high class zoo and on a level with other similar leading institutions.

In November last a pony was offered to this Garden for merciful destruction and feeding the carnivora. It was a pretty pony with plenty of life in it yet, and an idea struck the Secretary that it could well be utilised for the entertainment of children for giving them rides. The donor readily agreed to the proposal and the pony now serves the children in a delightful pastime. The cost of its maintenance is amply recovered from its receipts. It is competing with elephant rides in popularity.

Horticulture, etc.

Attention has been paid to the lawns, flower beds, shrubs and trees. The Committee is able to note with satisfaction that the Gardens have considerably improved in appearance after the removal of the deteriorating conditions brought on by the war; and the beauty of its botanical specimens is as refreshing to the visitors' eyes as the zoological exhibits are interesting and instructive.

The floricultural branch was carefully attended to and some excellent exhibits were on show. As before the Begumbari land was utilised for fodder and vegetable cultivation for feeding our animals and birds. The output of the various crops was quite satisfactory.

The Corporation of Calcutta.

The Committee records its thanks to the Corporation of Calcutta for having sanctioned exemption from the payment of the consolidated rate for the year 1946-47. It has, however, been pointed out again to the Corporation that they have not communicated their sanction of the exemption of Rs. 19,371-4, which they had demanded as occupier's share of the rates and taxes in respect of No. 2, Alipore Road, in which the Gardens are located, for the years 1944-45 and 1945-46.

A large number of children under four years of age and many school children and college students accompanied by their teachers were admitted free to the Gardens. Besides these, 30,824 persons visited the Garden on free days.

A detailed statement of the number of visitors and receipts appears in Appendix B.

The thanks of the Committee are due to those members of the public as well as to the members of the Garden Committees who have contributed towards the satisfactory results achieved during the year under report.

The Committee also desire to express their thanks to the East Indian Railway authorities for kindly conveying animals and birds to and from this Garden at concession rates.

The Committee again record their thanks to those gentlemen who sent their old or broken-down horses to the Zoological Gardens, where they are destroyed under the most humane conditions. This helps in the reduction of the cost of feeding the carnivora.

S. M. YAQUB,
Superintendent.

The 21st January 1948.

L. R. FAWCUS,
President.

S. SINGH ROY,
Honorary Secretary.

APPENDIX A.

Abstract financial statement from 1st January to 31st December 1947.

Receipts.

		Rs.	a.	p.
1.	Opening balance	3,779	1	4
2.	Interest	2,376	13	0
3.	Rent	9,825	0	0
4.	Donations and subscriptions	466	0	0
5.	Government contribution	16,000	0	0
6.	Entrance receipts	65,276	7	0
7.	Miscellaneous receipts	25,870	12	6
8.	Sale proceeds of Government securities, etc.	45,664	15	6
9.	Temporary loan taken from Repairs and Reconstructions Fund at Imperial Bank	28,492	4	0
10.	Recoupment from Repairs and Reconstructions Fund for expenses incurred from General Fund for adjustment ..	3,257	3	0
11.	Corporation grant in lieu of rates and taxes for the year 1946-47	31,130	12	0
12.	Assets up to 31st December 1947 as per details below :—			

	Rs.	a.	p.	Rs.	a.	p.
(*a*) Occupier's share of taxes recoverable from stallholders ..	513	8	0			
(*b*) Rent of stalls and Hermitage for December 1947 ..	683	12	0			
(*c*) Government contribution for December 1947 ..	1,333	5	4			
				2,530	9	4
Total ..				2,34,669	13	8
Deficit ..				38,349	13	11
Grand Total ..				2,73,019	11	7

Expenditure.

		Rs.	a.	p.
1.	Establishments (permanent and temporary) ..	34,687	7	0
2.	Dearness allowance (permanent and temporary) ..	28,373	4	0
3.	Food of animals	74,986	8	6
4.	Purchase and transport of animals	18,520	1	9
5.	Miscellaneous contingencies	9,354	14	1
6.	Petty repairs to roads	286	13	9
7.	Petty repairs to buildings	3,837	14	9
8.	Garden constructions (seeds, lawn mowers, etc.) ..	2,024	8	0
9.	Repayment of temporary loans from Repairs and Reconstructions Fund	22,792	4	0
10.	Municipal rates and taxes equivalent to grant for 1946-47 adjusted	31,130	12	0

BOTANIC GARDENS
CALCUTTA



ENJOYING DRINK

11. Liabilities up to 31st December 1947 as per details below :—

	Rs. a. p.	Rs. a. p.
(*a*) Establishments (permanent and temporary) for December 1947 (approximate)	3,100 0 0	
(*b*) Dearness allowance (permanent and temporary) (approximate). ..	2,500 0 0	
(*c*) Food allowance from June 1947 to December 1947 (permanent and temporary) (approximate). ..	2,600 0 0	
(*d*) House rent allowance from 1st January 1945 to 31st December 1947 for superior and office staff only ..	1,200 0 0	
(*e*) Gratuity for Gate Clerk (retired) ..	460 0 0	
(*f*) Pensionary contribution for superior staff from August to December ..	154 11 0	
(*g*) Outstanding food bills ..	13,956 6 0	
(*h*) Sundry other bills ..	1,286 10 9	
(*i*) Purchase of animals bills ..	2,128 12 0	
(*j*) Bank overdraft taken in September 1946 against Government securities held by Imperial Bank of India ..	13,500 0 0	
(*k*) Interest on overdraft up to December 1947	538 12 0	
(*l*) Loan from Repairs and Reconstructions Fund payable within March 1948	5,700 0 0	
		47,025 3 9
Grand Total ..		2,73,019 11 7

Reserve Fund.

	Face Value Rs.
1. 3 per cent. Conversion Loan (in custody with Reserve Bank) ..	6,800
2. 3 per cent. Conversion Loan (in custody with Imperial Bank) ..	11,800
3. 3 per cent. Victory Loan 1957 (in custody with Imperial Bank) ..	17,900
4. Interest-free Prize Bonds (in custody with Imperial Bank) ..	2,000
Total ..	38,500

Other Funds.

	Rs. a. p.	Rs. a. p.
1. Imperial Bank savings bank account ..	2,764 12 0	
Less interest shown as receipts ..	140 10 0	
		2,624 2 0
2. Permanent advance with Gate Clerks and Store-keeper		600 0 0
Total ..		2,924 2 0

Repairs and Reconstructions Fund at the Imperial Bank of India.

	Rs. a. p.	Rs. a. p.
Compensation received in November 1946 ..	40,000 0 0	
Less expenditure incurred in 1946 ..	3,683 4 6	
Balance brought forward in 1947 ..	36,316 11 6	
Add—Compensation received for damages done to roads	37,513 0 0	
Add—Compensation for damages done to the Hermitage (No. 4, Alipore Road) ..	1,150 0 0	
		74,979 11 6
Deduct—Expenditure incurred up to December 1947 on account of—		
Buildings	20,152 10 6	
Roads	9,130 9 6	
	29,283 4 0	
Add—Bills payable for works undertaken on account of—		
Rs. a. p.		
Buildings 4,348 2 3		
Roads 23,101 12 6		
	27,449 14 9	
		56,733 2 9
		18,246 8 9
Deduct—(Out of this balance a sum of Rs. 5,700 has been lent out to General Fund)		5,700 0 0
		12,546 8 9

APPENDIX B.

Summary of visitors and gate receipts.

1947.	Paying visitors.	Entrance receipts.	Free-day visitors.
	Rs.	Rs. a. p.	
January ..	1,32,039	8,253 11 0	2,894
February ..	94,048	5,878 10 0	3,556
March ..	76,495	4,780 5 0	1,698
April ..	11,030	689 6 0	336
May ..	15,404	962 12 0	874
June ..	26,764	1,672 12 0	1,601
July ..	12,406	775 6 0	788
August ..	75,087	4,692 15 0	3,327
September ..	74,324	4,645 4 0	2,851
October ..	1,74,909	10,933 9 0	3,608
November ..	1,44,953	9,059 9 0	4,591
December ..	2,06,902	12,932 4 0	4,700
Total . .	10,44,361	65,276 7 0	30,824

APPENDIX C.

List of Presentation.

	A	
Azad, Mollah Md. A. K.	...	3 Pythons.
Atkinson, Mr. L.	...	1 Crab-eating Macaque.
Achard, Mr. P. L.	...	1 Leopard Cub.
	B	
Banerjee, Mr. S. N.	...	1 Banded Krait.
Banerjee, Mr. S. N., B.C.S.	...	1 Spotted Deer.
Banerjee, Sri Indo Nath	...	1 Baby Marsh Crocodile.
Beard, Mr. J. M.	...	1 Himalayan Bear.
Burman, Sri Matilal	...	1 Common Peafowl.
	C	
Collins, Mr. D.	...	1 Indian Four-horned Antelope.
Cunha, Mr. C.	...	14 Cobras.
	...	2 Russell's Vipers.
	...	3 Yellow Monitors.
	D	
Dale, Miss P.	...	1 Indian Palm Civet.
Divisional Forest Officer, Kamrup	...	1 Hog Deer.
	E	
Ezra, Sir David	...	1 Rhesus Monkey.
	G	
Ganguli, Mr. J. K.	...	1 Python.
Ghosal, Sri Harisadhan	...	1 Burmese Pig-tailed Macaque.
Ghose, Rai Saheb K. L.	...	1 Fishing Cat.
Gomes, Mr. V. N.	...	1 Rhesus Monkey.
	H	
Harrison, Mr. S.	...	2 Rhesus Monkeys.
	I	
India Collective Farms, Ltd.	...	1 Python.
	M	
Macalpin, Mr. R. I.	...	1 Leopard Cub.
McWilliams, Mrs. K.	...	1 Rhesus Monkey.
Massey, Major F.	...	1 Assam Macaque.

P

Prosad, Sri J.	...	1 Red-cheeked Bulbul.
	...	1 Red-vented Bulbul.
	...	6 Budgerigars.
	...	2 Spotted Munias.
	...	2 Black-headed Munias.
	...	1 Red Munia.
Panja, Sri Prafulla Chandra	...	1 Rhesus Monkey.

R

Rai Chaudhuri, Dr. P. K.	...	1 Barking Deer.
Robins, Mr. J. W.	...	1 Leopard Cub.

S

Sam, Mr. S.	...	2 Sloth Bears.
Sand, Rai Bahadur Pundit Madhoram.	...	36 Indian Crimson Tragopan Pheasants.
	...	5 Monal Pheasants.
	...	10 Nepal Kalij Pheasants.
	...	12 Koklas Pheasants.
	...	36 Chukar Partridges.
	...	1 Himalayan Bear Cub.
Singh Roy, Mr. S.	...	2 Silver-eared Mesias.
	...	13 Red Munias.
Singh, Sri Choke	...	1 Rhesus Monkey.
Sinhania, Sri Ratanlall	...	1 Rhesus Monkey.
Singh, Sri Tribeni	...	1 Rhesus Monkey.
Sirper, Mr. R. E. C.	...	2 Rhesus Monkeys.
	...	1 Bonnet Monkey.
Stansfeld, Lt.-Col. H. S.	...	1 Indian Palm Civet.
Shamsuddin, Mr.	...	1 Sloth Bear.
Sinha, Rai Bahadur S. N.	...	1 Common Otter.

T

Thomas, Major C. V.	...	1 Lesser Sulphur-crested Cockatoo.

W

Williams, Mr. J. H. F.	...	1 Python.
Wajih, Dr. A. A. M., M.B.E.	...	1 Tufted Pochard.
	...	1 Chestnut Bittern.

WBGP-47/8-7838D-300.



Government of West Bengal

Report of the Honorary Committee for the Management of the Zoological Gardens, Alipore, Calcutta, for the Calendar year 1948

48
48
961

Superintendent, Government Printing
West Bengal Government Press, Alipore, West Bengal
1949

Gratis

Report of the Honorary Committee for the management of the Zoological Gardens, Alipore, Calcutta, for the Calendar Year 1948.

The Executive Committee for the Management of the Zoological Gardens have the honour to submit their report for the calendar year ending 31st December 1948, along with—

(1) An abstract of accounts of ordinary receipts and expenditure.

(2) Monthly returns of visitors and gate receipts and a list of donors and their donations.

The Management of the Gardens is vested in a General Committee and an Executive Committee.

The General Committee consists of the following members:—

President.

(1) Mr. L. R. Fawcus, C.S.I., C.I.E., I.C.S.

Vice-Presidents.

(2) Dr. S. C. Law, M.A., Ph.D., F.N.I., F.Z.S., M.B.O.U.

(3) Mr. A. S. M. Latifur Rahman, M.A. (Cantab.), Bar.-at-Law.

Honorary Secretary and Treasurer.

(4) Mr. Saileswar Singh Roy, C.M.Z.S.

Nominated Members.

(5) Ihtisham-ul-Mulk Rais-ud-Daula Amir-ul-Omrah Nawab Sir Asif Qadr Sayid Wasif Ali Mirza, Khan Bahadur, Mahabat-jung, K.C.S.I., K.C.V.O., Nawab Bahadur of Murshidabad.

(6) Rai Ajit Nath Das Bahadur, J.P., F.Z.S., M.R.A.S.

(7) Mr. G. Morgan, C.I.E., F.R.H.S., M.L.A.

(8) Sir Uday Chand Mahtab, K.C.I.E., Maharajadhiraja Bahadur of Burdwan.

(9) Mr. Amin Ahmed, M.B.E., M.A., Ll.B (Cantab.), Bar-at-Law.

(10) Raja B. N. Roy Chowdhury of Santosh.

(11) Mr. G. R. Dods.

(12) The Hon'ble Mr. Justice J. A. Clough (since deceased).

(13) Dr. K. Biswas, M.A., D.Sc., (Edin.), F.R.S.E.

(14) Mr. S. Chaudhuri, I.F.S.

(15) Mr. E. A. Paterson.

(16) Mr. K. K. Das, B.A., F.R.S.A. (London).

(17) Khan Bahadur Wali-ul-Islam.

(18) Khan Bahadur A. M. Md. Fazlul Karim, M.A.

(19) Mr. W. A. S. Lewis, M.A., O.B.E., I.C.S.

(20) Dr. A. A. M. Wajih, M.B.E., L.R.C.P., M.R.C.S., D.T.M. and H. (Eng.).

(21) The Hon'ble Mr. Justice A. S. M. Akram.
(22) Dr. Abdul Ahad, F.Z.S., M.L.A.
(23) Sri Hemanta Kumar Mukherjee.

Ex-Officio Members.

(24) The Commissioner of the Presidency Division.
(25) The Mayor of Calcutta (at present in abeyance).
(26) The Secretary, Natural History Section of the Royal Asiatic Society of Bengal.
(27) The Director of Veterinary Services, Bengal.
(28) The Principal, Bengal Veterinary College, Belgachia.
(29) The Councillor of Ward No. 24 of the Calcutta Corporation (this post is at present in abeyance).
(30) The Professor of Anatomy, Medical College, Calcutta.

The Executive Committee consists of:—

Ex-Officio Members.

(1) The President, General Committee, Zoological Gardens.
(2) and (3) The Two Vice-Presidents, General Committee, Zoological Gardens.
(4) The Honorary Secretary and Treasurer, Zoological Gardens.
(5) The Commissioner of the Presidency Division.
(6) The Director of Veterinary Services, West Bengal.
(7) The Mayor of Calcutta with power to nominate the local Ward Councillor of the Calcutta Corporation as his substitute (these posts are at present in abeyance).

Nominated Members.

(8) Sir Uday Chand Mahtab, K.C.I.E., Maharajadhiraja Bahadur of Burdwan.
(9) Mr. S. Chaudhuri, I.F.S.
(10) Khan Bahadur Wali-ul-Islam.
(11) Hon'ble Mr. Justice A. S. M. Akram.
(12) Major J. M. Lahiri, M.R.C.V.S., F.Z.S.
(13) Mr. R. N. Chatterji, B.E. (Co-opted).

Appointment.

Sri Hemanta Kumar Mukherjee was appointed a member of the General Committee during the year.

Four new Life Members were enrolled during the year.

Distinguished visitors.

His Excellency Sri Chakravarti Rajagopalachari, Governor-General of India, the then Governor of West Bengal, paid a visit to the Gardens with his children. They were shown round the Gardens by the President, Honorary Secretary, Superintendent and Assistant Superintendent. His Excellency was very pleased with the exhibits and evinced great interest in them. His Excellency's children visited the Gardens several times during the year.

His Highness Maharaja Padma Shamshere Jung Bahadur Rana, G.C.S.I., G.B.E., K.C.I.E., etc., Prime Minister of Nepal, visited the Gardens with his retinue. They were shown round the Gardens by the Superintendent. His Highness expressed his great satisfaction at the varied collection of bird and animal life.

Staff of the Gardens at the end of December 1948.

Superior Staff.

Superintendent—Khan Bahadur S. M. Yaqub, F.Z.S.
Assistant Superintendent—Mr. R. K. Lahiri, M.Sc., G.V.Sc.
Medical Officer—Dr. S. N. Roy Chowdhury, L.M.S.

Subordinate Staff.

Store-keeper—Sri T. C. Chatterjee.
Accountant—Sri G. C. Auddy.
Veterinary Assistant—Sri S. N. Sarkar, G.V.Sc.
Gate Clerk—Sri A. K. Mukherji.
Record-keeper—Sri N. G. Mukherjee.
Gate Clerk—Sri R. N. Mitra.
Typist—Sri P. C. Dey.

Also two Assistant Gate Clerks (one vacant since March) and one Ticket Painter.

2 Jamadars.
4 Mahouts.
30 Keepers.
2 Bhistees.
1 Food Distributor.
36 Coolies.
1 General Mistry.
2 Methars.
1 Cook.
24 Durwans, Chaprasis and Duftry.
1 Head Mali.
2 Mate Malis.
4 Malis.
4 Cooly Sardars.
1 Carpenter.
1 Mason.
1 Methrani.
3 Crow-driving boys.

Temporary men were engaged as and when required.

Acquisition.

BIRTHS.

The breeding record of this year shows marked improvement. This is mainly due to the good health which the animals and birds continued to enjoy and the better conditions afforded to them. Amongst mammals two Hippopotami calves were born after an interval of several years. The births of two Lion cubs, two Tiger cubs, a Black Panther cub, two grey Kangaroos and one Barbary Sheep are noteworthy. Our herd of deer has also increased as a result of successful breeding.

The following is the list of important births and hatchings:—

Mammals.

13 Spotted Deer.
1 Black Panther (cub).
3 Four-horned Antelopes.
1 Lion-tailed monkey.
58 Angora Rabbits.
2 Grey Kangaroos.
2 Barking Deer.
2 Lion cubs.

1 Rhesus Monkey.
3 Indian Antelopes.
2 Hippopotami.
1 Langur.
4 Nilgais.
1 Bennet's Wallaby.
2 Tiger cubs.
1 Barbary Sheep.

Birds.

3 Burmese Red Jungle Fowls.
21 Rosy-faced Love Birds.
2 Greater Sulphur-crested Cockatoos.
12 Black Swans.
1 Australian Crested Dove.
4 Sumatra Bronze-tailed Peacock Pheasants (female),
X
Common Peacock Pheasant (male).
1 Bare-eyed Cockatoo.
12 Javan Jungle Fowls.
2 Painted Spur Fowls.
5 Chinese Silver Pheasants.
2 Nepal Kalij Pheasant (male),
X
Black-breasted Kalij Pheasant (female).
2 Burmese Silver Pheasants (male),
X
Kalij Pheasant (female).
2 Sonnerat's Jungle Fowls.
3 Common Peafowls.
17 Budgerigars.
2 Scarlet Ibis.
2 Nicobar Pigeons.
1 Currassow.
1 Cheer Pheasant.
4 Nepal Kalij Pheasants.

The following birds laid eggs but were unable to hatch:—

(1) Cape-crowned Crane.
(2) Ostrich.
(3) Emu.

The Zoo as a sanctuary.

The quiet and congenial atmosphere prevailing all the year round in the spacious grounds of the Zoo induces many aquatic and arboreal birds (Night-herons, Snake birds, Cormorants, etc.) to find in it a sanctuary and a home. They form colonies and mate and multiply within the sylvan surroundings of the artificial lake. Our usual winter visitors—Lesser Whistling Teals—swarm in the large lake from November to April conveying in turn the message of the approach of winter by their arrival, and of the breeding season by their departure.

PURCHASE.

In spite of many difficulties in our way, such as finance, lack of transport and non-availability of desired specimens, foreign and indigenous, a great variety of mammals, birds and reptiles were added to our collection. The most important were 2 Tigers, 2 Fishing Cats, 1 Caracal, 2 Fallow Deer, 2 Cape-crowned Cranes, 1 Bauer's Broad-tail Parrakeet, 8 Lesser Flamingoes, Some African Finches, comprising Cut-throat, Cordon Bleu, Common African Waxbill, Pintall Whydah, Orange-cheeked Waxbill, Paradise Whydah, Red-billed Weaver, etc., Grand Eclectus Blue-fronted Amazon, Blue-faced Lorikeet, Cochin China Parrakeet, Ornamental Lory, etc. The collection of reptiles was enriched by the addition of two King Cobras. The Reptile House is now well stocked with poisonous and non-poisonous Indian snakes.

Mammals.

1 Bengal Porcupine.
4 Common Otters.
2 Tigers (male and female).
4 Black Bucks.
2 Fishing Cats.
1 Slow Lory.
1 Caracal.
2 Fallow Deer (White).
8 Bonnet Monkeys.
2 Assam Langurs.
1 Marten.
5 Barking Deer.
2 Nilgais.
1 Barasingha Deer.
3 Lion-tailed Monkeys.

Birds.

11 Cotton Teal.
7 Pheasant-tailed Jacanas.
95 Little Grebe or Dabchick.
6 Eastern Rosy Pelicans.
5 Sonnerat's Jungle Fowls.
36 Chukor Patridges.
2 Cape Crowned Cranes.
14 Monals.
2 Comb Ducks.
2 Himalayan Brown-eared Bulbuls.
6 Chloropsis, Gold-fronted.
2 Ceram Lory.
1 Bauer's Broad-tailed Parrakeet.
8 Greater Flamingoes.
22 Bar-headed Geese.
6 Greylag Geese.
38 Pochards.
8 Lesser Flamingoes.
4 Indian Lorikeets.
3 Tufted Pochards.
8 Quails.
2 Green Munias.
3 Red Spur Fowls.
6 Large Whistling Teals.
6 Cut-throat Finches.
6 Cordon Bleu.
6 Common African Waxbills.
2 Pintall Whydahs.
1 Gold Pheasant.
2 Orange-cheeked Waxbills.
4 Rose Finches.
1 Himalayan Whistling Thrush.
3 Chinese Thrushes.
1 Grey-winged Ouzel.
10 Shovellers.
2 Paradise Whydahs.
1 Red-billed Weaver.
6 Assam Large Racket-tailed Drongoes.
2 Combassous.
3 Orange-cheeked Waxbills.
2 Zebra Waxbills.
5 Passerine Parrots.
6 Common Weaver Birds (hen).
7 Common Teal.
3 Orange-headed Ground Trushes.
3 Green-breasted Pittas.
1 English Ring-necked Pheasant.
8 Indian Moorhen.
2 Ornamental Lorikeet.
2 Cochin China Parrakeet.
3 Common Cranes.
1 Blue-faced Lorikeet.
1 Blue-fronted Amazon.

Reptiles.

7 Pythons.
15 Cobras.
12 Russell's Viper.
12 Banded Kraits.
36 Green Whip Snakes.
3 Grass Snakes.
8 Geckos.
3 Yellow Monitors.
1 Common Krait.
37 Rat Snakes.
12 Chequered Water Snakes.
2 King Cobras.

EXCHANGE.

Director of Agriculture, Malayan Union.

Received.	Sent.
1 Golden Cat (in adjustment against a Golden Cat received on exchange basis).	2 Ruddy Sheldrakes. 2 Comb Ducks. 2 Red Crested Pochards. 2 White-eyed Pochards. 2 Bar-headed Geese. 2 Greylag Geese. 5 Common Teals. 1 Lesser Whistling Teal.

Melbourne Zoo.

Due to Melbourne Zoo (in completion of the exchange accounts).	1 Leopard (male). 1 Himalayan Bear cub (female).

Van Heyest (Holland).

17 Mute Swans. (We still owe 5 pairs of Tragopans and 3 pairs of Monals to close the series of exchanges with him.)	4 Saras Cranes. 4 Demoiselle Cranes. 4 Monals.

London Zoo.

2 American Bisons (male and female). 1 Chimpanzee.	3 Indian Antelopes. 6 Pythons. 3 Barking Deer. 6 Spot-billed Ducks. 6 Russell's Vipers. 6 Banded Kraits. 6 Geckos. 4 Red-breasted Parrakeets. 1 Slow Lory. 5 Monals. 4 Large Indian Squirrels. 12 Greater Flamingoes. 2 Sambur Deer. 3 Javan Jungle Fowls. 1 Otter. 2 Tigresses. 6 Burmese Red Jungle Fowls. 12 Bar-headed Geese. 3 Sonnerat's Jungle Fowls. 20 Chukor Partridges.

National Zoological Gardens of South Africa (Pretoria Zoo).

Received.	Sent.
(In adjustment of animals received in previous years.)	3 Sloth Bear Cubs. 3 Indian Antelopes.

Cairo Zoo.

(Pending exchange.)	2 Raccoons. 2 Eastern Rossella Parrakeets. 4 Rosy-faced Love Birds. 2 Large Indian Squirrels.

K. C. Sen.

(To be adjusted against animals on deposit.)	110 Budgerigars. 30 Angora Rabbits. 24 Guinea Pigs.

B. B. P. McIntyre, Esq.

1 Leopard.	6 Budgerigars (female).

Due to over-congestion by breeding among Budgerigars, Angora Rabbits and Guinea Pigs, a surplus of these were disposed of by advertisement and sale.

Deaths.

It is a happy circumstance that the death rate in various sections of our collection is considerably less than in previous years. Casualties are most marked among the new arrivals from a different climate on account of their inability to acclimatise quickly enough.

The most regretted losses amongst mammals, birds and reptiles are as follows:—

Mammals.

1 Leopard.
2 Rufous Kangaroos.
1 Sooty Mangaby.
1 Indian Wolf.
1 Rufous-bellied Wallaby.
1 Barasingha Deer.
1 Brow-antlered Deer.
1 White-tailed Gnu.
1 Golden Cat.
2 Lion cubs.
1 Leopard Cat.

Birds.

1 Crowned Pigeon.
10 Black Swans.
5 Mute Swans.
2 Scarlet Ibis.
1 Carolina Wood Duck.
8 Lesser Flamingoes.
4 Greater Flamingoes.
1 Ostrich.

Reptiles.

1 King Cobra.

There were some other losses by deaths of animals, birds and reptiles, most of which were due to causes for which Management of the Gardens could not be responsible.

The results of the post-mortem examinations have been recorded as usual and the sub-joined is a list of more important results obtained:—

Avian Pasteurelosis—10 Red Spur Fowls.

Adiposity—1 Leopard Cat.

Bad moulting—1 Greylag Goose.

Cage Paralysis—1 Brown Stump-tailed Monkey.

Crop Bound—1 Snow Pigeon.

Dystokia—1 Black Panther.

Dysentery—1 Assam Langur.

Gastro Enteritis—1 Rufous-bellied Wallaby, 1 Himalayan Bear cub, 1 Slender Lories, 1 Brown Stump-tailed Monkey, and 1 Roseate Cockatoo.

Gape—1 Cheer Pheasant.

Metro-peritonitis—1 Grey Kangaroo.

Metritis—1 Bennet's Wallaby.

Opacity of Cornea—2 Mandarin Ducks.

Peritonitis—1 Hog Deer.

Pneumonia—1 Golden Cat.

Rupture of Liver—1 Ostrich.

Retention of Urine—1 Barking Deer.

Septicæmia—1 Leopard, 1 Black Swan, etc.

There was no serious outbreak of contagious or infectious diseases during the year under review. Some stray cases of Avian Pasteurelosis have been recorded, for which every precaution was adopted to check the spread of the malady and stamp it out at once. Tuberculosis in Antelopes and Hoolock Gibbons, etc., was also noticed and extensive pulmonary lesions have been recorded. Amongst such animals it is a disease resulting from captivity, but all possible measures were taken against its spread to other paddocks and cages and its future recurrence.

Carcasses of certain dead animals, birds, etc., were sent as usual to the Curator, Zoological Gallaries, Indian Museum, for the Museum purposes. Other rare and valuable dead specimens were sent to a taxidermist for skinning or mounting.

The Committee is thankful to Major J. M. Lahiri, M.R.C.V.S., F.Z.S., etc., Principal, Bengal Veterinary College, for the kind help rendered by him on various important cases and pathological examination of various specimens sent to him from the Zoo.

Improvements.

Elephant riding stairs.—The old wooden stairs for mounting on the elephants became old and rickety and were demolished. A new reinforced concrete platform measuring 17'-2" × 5'-6" has been erected. This is more permanent and a distinct improvement over the old one.

Elephant stand.—The old iron pipe fencing which enclosed this stand had become unsightly and was removed. It has now been fenced with a cement concrete dwarf wall. The flooring of the stand constructed of brick-on-edge has also been repaired.

Sarnomoyee House.—The top wire-netting in the southern and adjoining aviaries of this house had rusted very badly and had been maintained during the last ten or twelve years by patch repairs. The whole top of all the aviaries has now been replaced by new square wire-netting.

Begumbari.—The masonry space comprising the site for the destruction of horses was repaired with cement concrete.

Otter pit.—No suitable additional accommodation being available for new-comers, a partition has been provided by a reinforced concrete wall in this pit to facilitate accommodation for new specimens.

Gubbay House.—A reinforced concrete slab, 4" thick, has been provided in the northern front of this house, and the floors on both sides of the house have been renovated with concrete.

Rhino enclosure.—An additional drinking water tank has been installed by the side of the Rhino enclosure ditch for public convenience.

Orang enclosure.—Lulu, the female Chimpanzee, escaped from the above enclosure where she is the only occupant. It was considered advisable to remove the silt from the round ditch of this island in order to avoid her escaping again, and this has been done.

Hoolock island.—Silt has also been removed from the water adjacent to this island.

Kidderpore Gate.—A very large proportion of the total number of the visitors enter the Gardens from the Kidderpore Gate, where only one entrance turnstile gate existed. During the *Puja* and *Id* festivals we have to borrow extra turnstiles from the clerk of the Calcutta Race Course. A new entrance gate has now been built and two turnstile gates installed for public convenience.

Lavatory at the Kidderpore Gate.—The partition wall inside the lavatory was badly damaged. It has been re-erected and the whole floor and the flushing commodes have been replaced and the entire lavatory has been repaired.

Small Carnivora House.—Almost all the wooden doors on the western side of this house were broken, and have been replaced by new ones. Most of the wooden brackets fixed in the wall on the eastern side were damaged and have also been replaced.

Petty repairs were effected to the following houses:—

Burdwan House.
Mullick House.
Small Carnivora House.
Sarnamoyee House.
Murshidabad House.
Dumraon House.
Schwendler House.
Hoolock Island.
Superintendent's Quarters.
Assistant Superintendent's Quarters.
Elephant shed in the Begumbari land.

The walls of the existing elephant shed were badly cracked and the tiles from its roof were removed by the elephants. It has now been demolished and a new one with thicker walls and more spacious is proposed to be built.

Road-side stalls.

The Committee has considered this work and decided to remove the existing wooden stalls as these have become very old and leak badly during the rainy season. A new structure will be erected with roofing of asbestos sheets. The sheets have already been purchased to the value of Rs. 1,317-9.

Roads.

The bituminous road work which was started last year in the Garden was completed early this year.

The jhama metal roads and pathways works are still being done in the Burdwan House area.

Electrification in the store room and servants' quarters in the Begumbari garden.

The Executive Committee for the Management of the Gardens have approved the proposal of providing electricity in the store rooms and the servants' quarters in the Begumbari land. The work has already been taken in hand.

Aquaria in the Reptile House.

Thick glasses of the two aquaria had become so dim that the small ornamental fishes were not clearly visible in them. These aquaria have been fitted with new ½" thick English glass and are now in good condition.

Finance.

The financial position of the Garden cannot be definitely stated to be satisfactory. The Garden depends mainly for its existence on the income which it derives from the entrance receipts. The Management has done its best to increase its income where possible and has followed the strictest economy in its expenditure. Owing to the abnormal rise in the price of foodstuffs together with the increase in the pay and allowances of the staff, the Committee were unable to balance their budget. As an alternative to retrenching expenditure and allowing the efficiency of the Gardens to fall and the standard of its exhibits to deteriorate, the Committee has had recourse to increasing the entrance fee from anna one to annas two with effect from June 1, 1948.

Owing to financial stringency a number of the cages of animals, aviaries, servants' quarters and boundary walls could not be repaired. The Committee has now accorded its approval to the proposals for thorough repairs to these buildings, and the expenditure on these works will be met partly from the anticipated additional grant from Government as shown in the revised budget estimate and partly from the income which shows hopeful signs of improvement at the close of the calendar year.

Horticulture, etc.

The Gardens have maintained their high standard of floriculture and the display of their annuals has been greatly appreciated. Attention has been given to the larger variety of the trees with a view to improve the landscape and a number of baby flowering garden plants have been planted in selected spots to add further ornamentation to the Gardens and embellish its sylviculture. Some hedges that were badly damaged during the Military occupation have been restored.

The Corporation of Calcutta.

Due to the changes in the administration of the Calcutta Corporation, the usual sanction for exemption from the payment of the consolidated rate for the year 1947-48 has not yet been received. This is, however, expected to arrive in due course.

A large number of children under four years of age and many school children and college students accompanied by their teachers were admitted free to the Gardens. Besides these, 62,193 persons visited the Garden on free days.

A detailed statement of the number of visitors and receipts appears in Appendix B.

The Committee is thankful to those members of the public as well as to the members of the Garden Committees who have contributed towards the satisfactory results achieved during the year under report.

The Committee also desire to express their thanks to the East Indian Railway authorities for kindly conveying animals and birds to and from this Garden at concession rates.

The Committee also convey their thanks to those gentlemen who sent their old or broken-down horses to the Zoological Gardens where they are destroyed under the most humane conditions. This helps in the reduction of the cost of feeding the carnivora.

S. M. YAQUB,
Superintendent.

L. R. FAWCUS,
President.

S. SING ROY,
Honorary Secretary.

APPENDIX A.

Abstract financial statement from 1st January to 31st December 1948.

Receipts.

	Rs.	a.	p.
(1) Opening balance	6,144	12	6
(2) Subscription and donations	416	0	0
(3) Interest	872	1	0
(4) Rent	9,612	8	0
(5) Government contribution	16,000	0	0
(6) Entrance receipts	1,90,445	2	0
(7) Miscellaneous receipts	28,068	10	0
(8) Recoupment from Repairs and Reconstructions Fund	286	13	9
(9) Additional Government grant to meet certain liabilities of 1947-48 ..	20,000	0	0
Total ..	2,71,845	15	3

Assets.

Add—

(1) Occupiers' share of taxes to be recovered from stall-holders for 14 quarters from 1st July 1945 to 31st December 1948	715	7	0
(2) Rent of the "Hermitage" for 30 days in October, November and December 1948 at Rs. 530 and stalls for December 1948	1,797	15	0
(3) Government contribution for December 1948	1,333	5	4
(4) Advance recoverable from Head Mali (balance)	180	0	0
(5) Additional grant from Government (anticipated) to meet liabilities of 1947-48	27,966	0	0
Total ..	31,992	11	4
Grand Total ..	3,03,838	10	7

N.B.—Grant from Calcutta Corporation will be adjusted against the rates and taxes of the equivalent amount when such sanction will be received.

Expenditure.

	Rs	a.	p.
(1) Establishment (permanent and temporary)	42,813	10	0
(2) Dearness allowance (permanent and temporary)	41,001	13	0
(3) Food of animals	76,994	12	6
(4) Purchase and transport of animals	17,225	11	9
(5) Miscellaneous contingencies	13,767	5	3
(6) Repairs to roads	1,524	9	9
(7) Repairs to buildings	8,236	0	6
(8) Garden constructions (seeds, plants, pots, etc.)	1,407	11	6
(9) Kept at Bank to cover overdraft in part and adjustment till final payment	11,585	2	8
(10) Liabilities of 1947-48 paid during 1948-49 and loans repaid	37,865	4	6
Total ..	2,52,422	1	5

Liabilities.

	Rs. a. p.	Rs. a. p.
Add—		
(1) Balance of overdraft Rs. 13,500	414 13 4	
(2) Interest on overdraft up to October 1948 ..	857 11 0	
(3) Bank charges and draft sent from bank to be reimbursed from General Fund	45 15 6	
(4) Salary and allowances of the staff for December 1948 (about)	7,500 0 0	
(5) Food bills and sundry bills for December 1948 ..	8,500 0 0	
(6) Annual repairs, turnstiles, purchase of animals, repairs to roads, etc. (approximately)	30,000 0 0	
		47,318 7 10
		2,99,740 9 3
Balance in favour of the Gardens		4,098 1 4
Grand Total ..		3,03,838 10 7

Reserve Fund.

	Face value. Rs. a. p.
(1) 3 per cent. Conversion Loan (in custody with Reserve Bank)	6,800 0 0
(2) 3 per cent. Conversion Loan (in custody with Imperial Bank)	11,800 0 0
(3) 3 per cent. Victory Loan, 1957 (in custody with Imperial Bank) ..	17,900 0 0
(4) Interest free Prize Bonds (in custody with Imperial Bank)	2,000 0 0
Total ..	38,500 0 0

Other Funds.

	Rs. a. p.	Rs. a. p.
(1) Imperial Bank savings bank account	2,792 6 0	
Less interest shown as receipts	168 4 0	
		2,624 2 0
(2) Permanent advance with Gate Clerks and Store-keeper		300 0 0
		2,924 2 0

Imperial Bank General Fund account—	Rs. a. p.	Rs. a. p.
(*i*) Permanent balance	394 13 3	
(*ii*) Contractor's security deposit	1,200 0 0	
(*iii*) Balance after investment	69 2 9	
(*iv*) Balance of interest, etc., collected by bank ..	1,597 3 8	
(*v*) Receipt from Bristol Zoo kept at bank and from Mrs. Betts	282 15 0	
(*vi*) Part of entrance receipt kept at the bank ..	9,705 0 0	
	13,249 2 8	
Deduct amount of overdraft ..	13,500 0 0	
Less paid 1st instalment ..	1,500 0 0	
	12,000 0 0	
Add—Interest on overdraft up to October 1948	857 11 0	
Draft sent from bank to be adjusted Rs. 28-14 *plus* Rs. 16-10 ..	45 8 0	
Bank charges	0 7 6	
	12,963 1 6	
		345 8 2

Repairs and reconstructions Fund at the Imperial Bank of India

	Rs. a p.	Rs. a. p.
Compensation received in November 1946	40,000 0 0	
Less expenditure incurred in 1946	3,683 4 6	
Balance brought forward in 1947	36,316 11 6	
Add—Compensation received for damages done to roads in 1947	37,513 0 0	
Add—Compensation for damages done to the "Hermitage" (No. 4, Alipore Road) (received in 1947)	1,150 0 0	
		74,979 11 6
Expenditure incurred up to December 1947 for buildings and roads		29,283 4 0
		45,696 7 6
Less expenditure from January to March 1948		6,625 4 3
		39,071 3 3
Less expenditure from April to December 1948		24,585 2 3
Balance		14,486 1 0

APPENDIX B.

Summary of visitors and Gate Receipts.

1948.	Paying visitors.	Entrance receipts. Rs. a. p.	Free-day visitors.
January	236,617	14,789 8 0	6,941
February	148,563	9,285 3 0	4,969
March	140,872	8,804 8 0	4,332
April	110,752	6,922 0 0	3,824
May	152,083	9,505 3 0	9,254
June	136,621	17,077 10 0	3,350
July	132,598	16,575 4 0	3,947
August	170,962	21,371 12 0	4,781
September	138,869	17,358 12 0	4,955
October	229,301	28,665 2 0	5,637
November	123,189	15,398 10 0	5,295
December	197,531	24,691 10 0	4,908
Total	19,17,958	1,90,445 2 0	62,193

APPENDIX C.

List of Presentation.

A

Aminullah, Sk.	1 Rhesus Monkey.
Arif, Master Md.	1 Quail.
Ali, Mohammed	1 Indian Palm Civet.
Acharya Choudhury, Sri Jibendra Kishore	1 Barn Owl.
	1 Barasingha Deer (female).

B

Bose, Sjkta. Bidyutlata	1 Python.
Bengal Club	2 Indian Palm Civets.

C

Chakravarty, Sri Nandeswar	1 Leopard (male).
Chakravarty, Sri P.	1 Leopard cub.
Chatterjee, Sri K. K.	1 Indian Palm Civet.
Chatterjee, Mrs. Kshanika	2 Black-headed Mynahs.
	2 Black-headed Manikins.
	4 Red Munias.
	2 Indian Silver Bills.
Cawnpo Tannery, Ltd., Kanpur	3 Indian Antelopes.

D

Das Gupta, Sri Nitya	1 Rhesus Monkey.
De, Sri Sudhir Kumar	1 Rhesus Monkey.
Dinwodie, Mrs. C. D.	1 Rhesus Monkey.
Dutta, Sri Ajoy Gopal	1 Large Indian Hare.
Dutta, Sri Butto Kristo, Salkia, Howrah ..	1 Barking Deer (male).
Directorate of Forests, Government of West Bengal.	10 Emerald Doves.
	1 Sambur.

E

Edgley, Lady	45 Budgerigars.
Edward, Mr. D. Logan	1 Spotted Deer.

G

Ghosal, Sri Sailen	1 Langur.
Gilmore, Mrs. E. A.	1 Demoiselle Crane.
Gomes, Mrs. K.	1 Rhesus Monkey.
Gupta, Sri Ramratanlal	1 Rhesus Monkey.

H

Hill, Mr.	1 Leopard cub.
Hashim, Janab M.	1 Bengal Red-vented Bulbul.

I

Ispahani, Mirza Ali Akbar	1 Budgerigar (female).

K

Khan, Janab Azmat	1 Indian Palm Civet.
Khan, Janab Hinjad Ali	1 Marsh Crocodile (baby).
King, Mr. M. W.	1 Hill Mynah.

L

Law, Dr. S. C., M.A., Ph.D., M.B.O.U., F.N.I., F.Z.S.	6 Red-wattled Lapwings.
	6 Yellow-wattled Lapwings.
	2 Nepal Blue-winged Sivas.
	2 Dusky-green Tit Babblers.
	4 Nepal White-bellied Herpornis.
	4 Nepal Stripe-throated Sivas.
	4 Nepal Yellow-naped Ixulus.
	2 Assam Yellow-breasted Babblers.
	8 Common Babblers.
	2 Abbott's Babblers.
	4 Nepal Stripe-throat Yuhinas.
	16 Indian Red-billed Leiothrix.
Lissanievitch, Mr. Boris	1 Python.

M

Maharaj Kumar Sahib of Sikkim ..	.. 1 Himalayan Bear cub.
Mother Superior, Loreto House, Calcutta	.. 1 Large Indian Squirrel.
Mitra, Sri K. A.	.. 2 Sloth Bear cubs.
Mitter, Sri C. E.	.. 2 Leopard cubs.
Mullick, Sri Tarak Nath	.. 1 Marsh Crocodile (baby).

P

Paul, Sri Kartic	.. 1 Cobra (young).

R

Rana, Commanding General Hiranya Sham Sher Jung Bahadur.	2 Saras Cranes.
Roberts, Mr. O.	1 Cobra.
Roy, Dr. A. K.	1 Barking Deer (female).
Roy, Sri Sewprasad	1 Rhesus Monkey.
Saha, Dr. K. C., D.Sc.	1 Crocodile.
Sam, Mr. S.	2 Leopard cubs
Sen, Sri K. C.	1 Demoiselle Crane.
Sen, Miss Bani	1 Rabbit.
Singh, Sri Dewan Chand	1 Rhesus Monkey.
Singh Roy, Sri S., C.M.Z.S., (Honorary Secretary)	8 Quails.
	1 Grand Eclectus.
	2 Swainson's Lorikeets.
	14 Open-billed Storks.
	6 Spotted Deer (female).

W

Williams, Miss M.	.. 3 Red Munias.
	2 Black-crested Yellow Bulbuls.
	2 Bengal Red-vented Bulbuls.
	4 White-eyed Bulbuls.

WBGP 48/9-9438D-250



Government of West Bengal

Report of the Honorary Committee for the Management of the Zoological Gardens, Alipore Calcutta, for the Calendar Year 1949

Superintendent, Government Printing
West Bengal Government Press, Alipore, West Bengal
1950

Gratis

Report of the Honorary Committee for the Management of the Zoological Gardens, Alipore, Calcutta, for the Calendar Year 1949

The Executive Committee for the Management of the Zoological Gardens have pleasure in presenting their Report with an Abstract Financial Statement for the calendar year ended 31st December 1949.

For the first six months of the year the old General Committee as well as the Executive Committee of Management (re-constituted on July 6, 1946 under Bengal Government resolution No. 7676 Zoo) continued to function till their term of office expired on 30th June 1949. Mr. L. R. Fawcus, C.S.I., C.I.E., I.C.S. (Retd.), the President of both the Committees, however, resigned his office in April, handing over charge to the Senior Vice-President Dr. S. C. Law, M.A., B.L., Ph.D., F.N.I., who was appointed to be President under West Bengal Government notification No. 2768 Zoo, dated 2nd May 1949.

The Committee regret to note that by the departure of Mr. Fawcus from India for good they were deprived of his valuable services and the benefit of his wide general experience. A keen naturalist, Mr. Fawcus always took a most active interest in the welfare of the Gardens.

Re-constitution of the General Committee and Executive Committee of Management.—Under West Bengal Government resolutions Nos. 4287 Zoo and 4288 Zoo, dated 7th July 1949, the two Committees were reconstituted with the following personnel:

GENERAL COMMITTEE: *President*—Dr. S. C. Law, M.A., B.L., Ph.D., F.N.I.; *Vice-Presidents*—Sri Uday Chand Mahtab, Maharajadhiraja Bahadur of Burdwan and Mr. E. A. Paterson; *Honorary Secretary and Treasurer*—Sri Saileswar Singh Roy, C.M.Z.S.; *Nominated Members*—Sri S. Chaudhuri, I.F.S.; the Hon'ble Mr. Justice P. B. Mukharji, Bar.-at-Law; Col. Joyti Lal Sen, M.C., M.B., I.M.S. (Retd.); Dr. Himadri Kumar Mookerjee, D.Sc., D.I.C. (Lond.), F.N.I.; Sri Kanai Lall Jatia; Sri R. C. Ghose, Bar.-at-Law; Major S. C. Dutt, M.B., I.M.S. (Retd.); Dr. P. C. Datta, M.B., Ch.B., F.R.C.S.E.; Dr. R. Ahmed, D.D.S., F.I.C.D.; Dr. D. M. Sen, M.A., Ph.D. (Lond.), Sri K. P. Khaitan, M.A., B.L., Bar.-at-Law; Mr. D. J. Cohen; Dr. K. Biswas, M.A., D.Sc. (Edin.), F.R.S.E., F.N.I.; Janab Wali-Ul-Islam; Sri B. N. Roy Chowdhury; Nawab Asif Qadr Saiyid Wasif Ali Mirza, Nawab Bahadur of Murshidabad; Sri Ajit Nath Das; Sri K. K. Das, B.A.; Sri Hemanta Kumar Mukherjee; Sri K. P. Mandal, M.L.A.; Dr. Biswanath Mondal, M.B.; Sri Jagannath Kolay; *Ex-officio Members*—The Commissioner of the Presidency Division; Mayor of Calcutta Corporation; Secretary, Natural History Section, Royal Asiatic Society of Bengal; Director of Veterinary Services, West Bengal; the Principal of the Bengal Veterinary College, Belgachia; Councillor of Ward No. 24 of the Calcutta Corporation.

EXECUTIVE COMMITTEE: *Ex-officio Members*—The President; the two Vice-Presidents and the Honorary Secretary and Treasurer of the General Committee; the Commissioner of the Presidency Division; the Principal of the Bengal Veterinary College; the Mayor of Calcutta with powers to nominate the local Ward Councillor of the Calcutta Corporation as his substitute; *Nominated Members*—Sri S. Chaudhuri, I.F.S.; Dr. Himadri Kumar Mookerjee, D.Sc., D.I.C. (Lond.), F.N.I.; the Hon'ble Mr. Justice P. B. Mukharji, Bar.-at-Law; Col. Joyti Lal Sen, M.C., M.B., I.M.S. (Retd.); Sri R. C. Ghose, Bar.-at-Law; *Co-opted Member*—Sri R. N. Chatterjee, B.E., Superintending Engineer, Government of West Bengal.

Obituary.—The Committee have to record with deep regret the loss by death of Srj Ajit Nath Das, member of the General Committee, who was a benefactor of the Garden, out of whose donations the Boloram House had been built in 1923.

Changes in Staff.—Janab S. M. Yaqub, who had held the post of Superintendent since 1941, having retired on 31st March 1949, the post of the Superintendent fell vacant. Meanwhile Government decided to remove this post from West Bengal Veterinary Service and to convert it into contract post. Sri R. K. Lahiri, M.Sc., G.V.Sc., officiating First Assistant Superintendent, was selected and appointed as Superintendent with effect from 20th May 1949 for a period of five years in the first instance.

The staff of the Garden is shown in Appendix C.

Rules for Service Conditions, etc., for the staff.—The Committee adopted during the year rules for leave, retirement and gratuity of the staff with effect from April 1, 1948; also revised rules for their service conditions, housing, etc.

Committee Meetings.—The General Committee held one meeting on the 29th January 1949, while the Executive Committee met on the third Saturday in every month except October in the Library room of the Garden.

Popularising the Zoo.—The Committee have under consideration a scheme for popularisation of the Zoo by providing guidance and facilities for study of the life and habits of the animals at the Gardens.

Life Member.—Only one Life Member was enrolled during the year.

Finance.—In Appendix A will be found a statement showing receipts and disbursements during the year. It may be observed that though the financial position shows improvement the Garden is not yet in a state of self-sufficiency, for without the additional Government grant received during the year the major part of the accumulated liabilities could not have been liquidated.

RECEIPTS: *Subscriptions and Donations* show decrease as one life member only was enrolled. This is an uncertain source of income. *Interest on Government Securities* shows increase over that of the last year due to refund of income-tax deducted in 1947-48. *Rent of Stalls, etc.*, shows decrease which is due to non-receipt of "Hermitage" rent from 2nd October 1948. *Additional Government Grant*—The Committee are thankful to Government for this grant which has enabled them to meet their heavy liabilities. *Entrance Receipts*—Summary of visitors and gate-receipts is given in Appendix B. The increase in entrance receipts is due to gate fee being annas 2 per head introduced since June 1, 1948. *Miscellaneous Receipts*—As there has been no direct sale of bigger animals to foreign zoos this head shows considerable decrease.

EXPENDITURE: *Establishment, Salaries and Allowances* have gone up due to revision of pay of clerical staff from April 1949 and *pro rata* increased allowance thereunder. *Food of animals*—The rise is due to higher tender rates accepted and also due to other factors, e.g., non-availability of cold storage meat from Disposal and of regular free supply of condemned grains from the Civil Supply authorities. *Roads, Buildings, Repairs and Constructions*—The expenditure on these items is explained under the headings of "Houses and Buildings" and "Improvements" and in the financial statement (Appendix A). *Investment*—This is in partial restoration of Government securities sold previously to meet liabilities.

Houses and Buildings.—*Additional servants' quarters at Begunbari*—Brick-built rooms, 20 in number, well-ventilated and constructed with tile-roofing, were built to provide accommodation for the additional menial staff. *New Parrot Pavilion*—This Parrot House has been constructed near

Schwendler House, surrounded by pentagonal path. It has proved an attractive and popular exhibit. *Road-side Stalls*—The old unsightly stalls near the main gate of the Garden were removed and replaced by a brick-built structure with asbestos roofing. *Elephant Shed with outlet drainage*—The old elephant shed with badly cracked walls and tiles removed by the elephants was demolished. In the same site a suitable two-chambered brick-built high shed with asbestos roofing was constructed at a cost of Rs. 8,194-5. For the last few years the elephants had to be kept in the open in rain and cold. The present shed went to meet a crying and long-felt need. *Extension of office building*—The office accommodation was long being felt scanty and cramped. An extension of the existing office building has hence become necessary by providing a spacious room with an attached lavatory. This work is nearing completion.

Improvements.—*Electric Installation at Begunbari.*—The work of electrifying the Zoo store and servants' quarters has been completed at a cost of Rs. 4,086-8. *Surface drain adjoining store-kitchen*—Construction of this drain measuring 34 feet 6 inches has removed unhygienic condition of the place. *Asbestos roofing*—(*a*) Corrugated G.I. roofing of a row of servants' kitchens having rusted away was dismantled and replaced by asbestos roofing; (*b*) the old roof of the stall at Kidderpore Gate, extensively damaged, was replaced by asbestos roofing. *Cattle shed*—Repaired partly and suitable drainage arrangement made for it. *Strengthening the barrier round Burdwan House*—Some of the posts, rods, etc., which were worn out, were attended to and strengthened. *Drill House*—Thorough repairs including woodwork, painting, colour-washing and cement-plastering as well as strengthening the barrier round the house were done. *Dumraon House*—A thorough repair was also done to this house including repair of the worn-out bars, doors, etc., as well as changing the wire-netting in between the chambers. The tiled leaky dome at the centre was replaced by a reinforced concrete one. *Barbary Sheep House*—Also repaired and painted and its leaky roof treated with bituminous material. *Jhind House*—The iron structure of the Jhind House being worn out needed immediate attention. Its decayed and rat-infested top portion has been removed and is being reconstructed. *Pavement of old Elephant Shed*—Since construction of the new Elephant Shed at Begunbari the old pavement for elephants lying unused is utilised after repairs as stall for scavenger's carts. *Bituminous roofing.*—Leaky roofs of the following were treated with bituminous roofing material.—(*a*) Committee Room, (*b*) Old double-storied servants' quarters, (*c*) Store godown and (*d*) Mahout's shed. *Repairs to Superintendent's Quarters*—Since long time past financial consideration prevented the undertaking of the thorough repair of this house, which continued to show signs of steady deterioration. The repairs were undertaken this year and completed, the old kitchen was re-constructed and electrical repairs were done. *Rat-proof Measures*—Rat-infestation of most houses and aviaries presents a great problem. Measures to combat with rat pests have been adopted in the first instance with regard to Peafowl Enclosure and Pheasant House. In the former a soling of flat bricks, then a uniform thick layer of broken glass and on top a layer of brick-on-edge has been set with heavy cement plastering. The bottom parts of the wooden posts, damaged and burrowed by rats, have been strengthened with reinforced concrete. In the Pheasant House in cage Nos. 20-27 earth has been removed, the soling re-set in the process followed in mending the Peafowl Enclosure. *Roads and Pathways*—Alterations and widenings with a view to improvement of the roads have been done around Kangaroo House, Dumraon House, Surnamoyee and Abdul Ghani House and at Burdwan House Circle. The paths at several points have been diverted to the advantage of the visitors. Brick-edgings to the main road and other paths have been provided. A new path has been laid in front of the Drill House.

Animals at the Zoo.—The general condition of the animals remains satisfactory which is indicated by a number of births among various mammals and birds, and also by lesser death rates during the year.

The following additions have been made this year to the collections at the Zoo:

	Mammals.	Birds.	Reptiles.
By presentation	63	22	16
By exchange	7	29	14
By purchase	14	216	87
By birth in the Garden ..	28	57	..

The Report of the Superintendent giving full particulars is attached.

The Committee have pleasure in mentioning that as the result of collecting expeditions undertaken by the President at his own expense, some rare Himalayan bird specimens have been brought down. They will have proper accommodation as soon as the repair and renovation of the Jhind House are completed.

Horticulture, etc.—With regard to the general appearance of the Garden, the Committee have much satisfaction in acknowledging the approval which is expressed to them of the standard in which the Gardens have been maintained and the flower beds are laid out. The Committee feel, however, that a change of system of garden-management has now almost become necessary, for whereas many of the rare and original trees, shrubs and hedges had so long to be scrupulously protected and encouraged to grow for affording shade and beauty, it now requires to discern and discriminate where the pruning knife is most needed to keep back the too luxuriant growth and too umbrageous branches. The drainage of the grassy grounds has in many instances been diverted and improved.

As in previous years the Begunbari land available for growing fodder and vegetables for the consumption of the animals was fully utilized for the purpose. The output went a long way in meeting the demand for nourishing food of the animals supplementary to their usual diet.

Library.—The additions to the Library acquired by purchase and presentation were 18 books.

The following books were purchased during the year: Parrots of Australasia by Charles Barrett. 1949; Indian Hill Birds by Sálim Ali. 1949; The Families and Genera of Living Rodents (Vols. I—II) by J. R. Ellerman. 1940.

Gifts of the following books are greatly appreciated:

Donor	
Fawcus, L. R. ...	... List of the Trees, Shrubs and Large Climbers found in the Darjeeling District, Bengal, by J. S. Gamble. 1896.
	The Poisonous Snakes of India by Major F. Wall. 1917.
	The 150th Anniversary Volume of the Royal Botanic Garden, Calcutta, Parts 1-2, Edited by Dr. K. Biswas.
	Firminger's Manual of Gardening for India (6th Edition) by W. Burns. 1918.
	Familiar Flowering Trees in India by Ida Colthurst. 1924.
	How to Know the Indian Waders by Frank Finn. 1906.
	Sterndale's Mammalia of India by F. Finn. 1929.
	The Snakes of India by Lt.-Col. K. G. Gharpurey. 1937.

	The Spiny-Rayed Fresh Water Game Fishes of the California Inland Waters by George Neale. 1931.
	Aquarium Neapolitanum—English Edition. Guide to the Aquarium of the Zoological Station at Naples (Ninth Edition). 1925.
	Report of the Wild Life Commission of Malay, Vols. I—III. 1932.
	A Study of the Life History and Food Habits of Mule Deer. in California by Joseph S. Dixon. 1934.
	Flowers and Gardens in India by Mrs. Temple Wright. 1919.
Chatterjee, Tarak Chandra ...	Fang and Claw by Frank Buck. 1935. Nests and Eggs by A. H. Blaikie.

Distinguished Visitors.—His Excellency the Governor of West Bengal, Dr. Kailas Nath Katju, was pleased to visit the Garden on February 25, 1949.

The Hon'ble Sri Hem Chandra Naskar, Minister in charge of Agriculture, Forests and Fisheries, paid a visit to the Zoo and showed interest in the working of the Zoo office.

His Excellency the Governor of Orissa, who had presented to the Garden a pair of Sloth Bear cubs, in his subsequent visit to the Zoo was greatly delighted to see the pair, "Jack" and "Jill"—his great favourites at the Orissa Government House.

Sri M. D. Chaturvedi, B.Sc. (Oxon.), I.F.S., the Inspector-General of Forests, Government of India, paid an unofficial visit and was much impressed to see the collections of the Zoo.

Acknowledgments.—The Committee are much indebted to the members of the public as well as of the Gardens, donors and to institutions, societies, shipping companies, air lines and railway authorities for their kind help in re-stocking the Gardens' collection by presentations and gifts, for facilities and assistance in transport and in various other ways. Specially to be mentioned are His Excellency the Governor of Orissa, the Hon'ble Sri Hem Chandra Naskar, Minister, Government of West Bengal, Messrs. Macneill & Co. and the East Indian Railway.

The Committee's grateful thanks are due to the Corporation of Calcutta for their continued support in remitting the consolidated rates of previous years, and the Committee trust that the usual sanction for exemption for the years 1948-49 will be received in due course.

The Committee are specially indebted to the Civil Supplies Department, West Bengal, for free supply of condemned grains from time to time, which helped towards reducing the cost of feeding the animals. The Committee also desire to express their thanks to those persons who sent their old or broken-down horses to the Zoo to be destroyed under most humane conditions and to be utilized, if found fit, as food for the carnivora.

Lastly, the Committee record their appreciation of the services of the staff and employees of the Gardens which have contributed towards the satisfactory results achieved during the year under report.

S. SINGH ROY
Honorary Secretary.

S. C. LAW
President.

SUPERINTENDENT'S REPORT.

I beg to submit the following report on the collection of animals in the Zoo, their diseases and treatment in the Zoo Veterinary Hospital.

Collection of animals.—A comparative table is given below showing how the various collections of the animals stood at the end of the last five years:

Year.	Mammals.	Birds.	Reptiles.
1945	209	1,351	54
1946	239	1,419	60
1947	341	1,771	59
1948	279	1,598	66
1949	293	1,506	56

Acquisition during the year.—(*a*) By Birth: *Mammals*—11 Spotted Deer—*Cervus axis;* 2 Tiger cubs—*Panthera tigris tigris*, 5 Nilgai—*Boselaphus tragocamelus* (Pall), 1 Grey Kangaroo—*Macropus giganteus* (Zimm.), 4 Jackals—*Canis aureus naria* Wrought, 1 Arabian Baboon—*Cynocephalus hamadryas*, 1 Vervet Monkey—*Cercopithecus lalandii*, 1 The Common Langur—*Semnopithecus entellus*, 2 Indian Antelope—*Antilope cervicapra* (Linn.) *Birds*—9 Burmese Red Jungle Fowl—*Gallus bankiva robinsoni*, 6 Black Swan—*Cygnus atratus*, 3 Bhutan Peacock Pheasant—*Polyplectron bicalcaratum bakeri* Lowe, 2 Peacock Pheasant Hybrids—*Polyplectron chinquis* ♂ × *Polyplectron bicalcaratum*, ♀, 3 Nepal Kalij Pheasant—*Gennæus leucomelanus* (*Lath.*), 2 Indian Emerald Dove—*Chalcophaps indica*, 1 Saras Crane—*Antigone antigone antigone*, 2 Common Peafowl—*Pavo cristatus* Linn., 1 Nicobar Pigeon—*Calœnas nicoborica nicoborica*, 2 Bronze-winged Pigeon—*Phaps chalcoptera*, 11 Budgerigars—*Melopsittacus undulatus* (Shaw and Nodder), 4 Javan Jungle Fowl—*Gallus varius*, 4 Rosy-faced Lovebirds—*Agapornis roseicollis* (Vieill.), 5 Purple Moorhen—*Porphyrio poliocephalus* (Lath.).

(*b*) By Presentation—1 pair Sloth Bear cubs—"Jack" and "Jill"—*Melursus ursinus ursinus* (Shaw) from His Excellency the Governor of Orissa; 1 Leopard Cat—*Prionailurus bengalensis* (Kerr.) from Maharajadhiraja Bahadur of Burdwan; 1 Brown Stump-tailed Monkey—*Macacus arctoides* from the Hon'ble Sri Hem Chandra Naskar; 1 Leopard—*Panthera pardus fusca* Meyer and 1 Tigress—*Panthera tigris tigris* from the Raja Sahib of Chamba Himachal Pradesh; 1 Himalayan Bear cub—*Selenarctos thibetanus* (G. Cuvier) from Mr. John Wynne.

Full list of donors together with their gifts appears in Appendix D.

(*c*) By Purchase—Most important amongst *Mammals*—1 Jaguar ♂—*Panthera onca*, 2 Gayals ♂ ♀—*Bibos frontalis* (Lambert), 2 Hunting Cheetah ♂♀—*Acinonyx jubatus* (Erxleben), 1 Indian Gazelle ♂—*Gazella bennetti* (Sykes); *Birds*—3 Cabot's Tragopan—*Tragopan caboti* (Gould), 23 Greater Flamingoes—*Phoenicopterus antiquorum* (Temminck), 2 Red-sided Eclectus—*Eclectus pectoralis*, 1 Grand Eclectus—*Eclectus roratus* (Müll.), 2 Black-headed Conure—*Conurus nenday*, 3 Ceram Lory—*Domicella garrula* (Linn.), 3 Baikal Teel—*Querquedula formosa*, 1 Malaccan Lory—*Domicella rubra* (Gm.), 2 Pennant's Parrakeet—*Platycercus elegans* (Gmelin), 2 White-crested Cockatoo—*Cacatua alba*, 2 Cochin-China Parrakeet—*Domicella riciniata* (Gm.), 1 Barnacle Goose—*Bernicla leucopsis*, 2 Müller's Parrakeet—*Tanygnathus mülleri*.

(*d*) By Exchange—(*i*) With Pretoria Zoo—1 Chapman's Zebra ♂—*Equus burchellii chapmani*, 3 Cape Hyrax—*Hyrax capensis*, 3 Stanley Cranes—*Anthropoides paradisea*, 5 Common African Waxbill—*Estrilda cinerea*, 3 Shaft-tailed Whydah—*Tetraenura regia*, 6 Red-Billed Weaver—*Quelea quelea*, 6 Cut-throat Finches—*Amadina fasciata*, 6 Blue-breasted

Waxbill—*Uræginthus angolensis* (Linn.); (*ii*) with London Zoo, Regent's Park—1 pair Brown Bear—*Ursus arctos* Linn.; (*iii*) with Mr. Erich Sochurek Austria—3 Long-nosed Viper—*Vipera ammodytes* (Linn.), 2 Smooth Snake—*Coronella austriaca* Linn., 1 Æsculapian Snake—*Elaphe longissima* (Laurenti), 8 Slowworm or Blindworm—*Anguis fragilis* L.; (*iv*) with a local dealer—1 Hog Deer ♂—*Cervus porcinus*.

List of Species new to the collection.—Mammal—*Hyrax capensis* (Cape Hyrax); Reptiles—*Anguis fragilis* Linn. (Slowworm or Blindworm); *Elaphe longissima* (Laurenti) (Æsculapian Snake); *Coronella austriaca* (Smooth Snake); *Vipera ammodytes* (Linn.); (Long-nosed Viper).

Zoo Veterinary Hospital.—Sick animals have been diligently and carefully attended to. The more important cases are noticed below:—

(*i*) *American Bison* ♀ had an attack of bovine pleuro-pneumonia and after a long course of careful treatment resulted in recovery, which the Committee recorded with satisfaction. (*ii*) *Anoa* ♂, the oldest mammal living in our collection, was attacked with blood-dysentery. The result was recovery. (*iii*) *Gayal* ♂ was attacked with bovine pleuro-pneumonia of a par-acute nature resulting in death. (*iv*) *Gayal* ♀ was attacked with helminthiasis, but cured. (*v*) *Tiger cub* ♂ (Zoo-bred) was attacked with ankylostomiasis, but cured. (*vi*) *Tiger cub* ♂ was a par-acute case of cat-distemper resulting in death. (*vii*) *Hippopotamus* ♂, the only old male in our collection, suffered from tuberculosis (pulmonary) which resulted in death. (*viii*) *Lion* ♂ "Mangru", the old lion suffered from "fatty degeneration of liver" terminating in death.

Normally the carcasses were subjected to post-mortem examinations and the individual results were recorded in the register, but certain doubtful cases were sent to the Principal, Bengal Veterinary College, for pathological examination.

Deaths.—The death rate is lower than in the previous year. The most regretted losses amongst mammals, birds and reptiles are—*Mammals*—1 Patagonian Cavy, 1 Bennett's Wallaby, 1 Golden Cat, 1 Rufous Kangaroo, 1 Red-bellied Wallaby, 1 Lion "Mangru", 1 Hippopotamus, 1 Yellow Baboon, 1 Tiger cub, 1 Gayal, 1 Burmese Pig-tailed Monkey. *Birds*—1 Nicobar Pigeon, 1 Burmese Peafowl, 1 Gold Pheasant, 3 Mandarin Ducks, 1 Tambourin Pigeon, 1 Barnacle Goose, 1 King Parrakeet, 1 Green Imperial Pigeon, 1 Grand Eclectus, 1 Crested Curassow, 1 Swinhoe Pheasant, 1 Amherst Pheasant ♀. *Reptiles*—1 King Cobra.

Infectious Diseases.—There was no epidemic of infectious or contagious diseases excepting a solitary case of feline distemper in a tiger cub, the spread of which was checked immediately by segregation, disinfection and adequate prophylactic treatment.

Stray cases of tuberculosis were noticed amongst mammals, their diagnosis having been confirmed by the Principal, Bengal Veterinary College. Thanks are due to Major J. M. Lahiri, M.R.C.V.S., F.Z.S., Principal, Bengal Veterinary College, for his ungrudging help in such cases and also for his co-operation and advice in various matters relating to animal health and hygiene.

Disposal of Carcasses.—Many of the carcasses were sent to the Curator, Zoological Galleries, Indian Museum, and some to the Department of Zoology, University of Calcutta, for utilization for scientific purpose.

R. K. LAHIRI
Superintendent.

APPENDIX A.

Abstract Financial Statement for the year ended 31st December 1949

Receipts

		Rs.	a.	p.
1.	Balance brought forward from last calendar year's account ..	4,058	1	4
2.	Unspendable balance of estimated expenditure shown as liabilities in 1948	15,325	12	6
3.	Subscriptions and donations	100	0	0
4.	Interest	1,434	6	0
5.	Rent of stalls, etc.	5,157	0	0
6.	Government contribution	16,000	0	0
7.	Additional Government grant to meet certain liabilities of 1947-48 (second instalment)	20,000	0	0
8.	Grant from Calcutta Corporation equivalent to rates and taxes ..	31,130	12	0
9.	Entrance receipts	2,35,770	12	0
10.	Miscellaneous receipts	18,104	5	0
	Total	3,47,121	0	10

Expenditure

		Rs.	a.	p.	Rs.	a.	p.
1.	Establishment salaries, etc.				51,977	14	0
2.	Establishment allowances				43,810	4	0
3.	Food of animals				91,382	7	9
4.	Miscellaneous				13,075	7	3
5.	Garden constructions (seeds, plants, etc.)				1,652	5	9
6.	Purchase and transport of animals				19,754	7	3
7.	Repairs to roads	2,486	3	0			
	Repairs to buildings, etc.	35,162	1	9			
					37,648	4	9
8.	Original constructions				12,219	6	6
9.	Investment				15,000	0	0
10.	Corporation rates and taxes adjusted against grant				31,130	12	0
11.	Liabilities of 1947-48	12,919	4	6			
	Less Receipts kept at Bank against overdraft ..	11,585	2	8			
					1,334	1	10
					3,18,985	7	1
	Add— Liabilities incurred but not paid—						
	For works completed	15,928	3	0			
	For materials supplied	2,910	8	0			
	For sundries	4,912	3	0			
					23,751	1	0
					3,42,736	8	1
	Balance in favour of the Garden				4,384	8	9
	Total				3,47,121	0	10

Reserve Fund

		Face value. Rs. a. p.
1.	3 per cent. Conversion Loan of 1946 (in custody with Reserve Bank) ..	6,800 0 0
2.	3 per cent. Conversion Loan of 1946 (in custody with Imperial Bank)	26,900 0 0
3.	3 per cent. Victory Loan (in custody with Imperial Bank) ..	17,900 0 0
4.	Deposit in Imperial Bank General Fund after encashment of Interest-free Prize Bonds (*less* Bank commission).	1,995 0 0
5.	Imperial Bank savings account (Rs. 2,820-4 *less* interest Rs. 196-2) ..	2,624 2 0
6.	Permanent advance with Gate Clerks Rs. 10 and Store-Keeper Rs. 290	300 0 0
7.	Imperial Bank General Fund account	394 13 3
	Total	56,913 15 3

Other Funds

Repair and Reconstruction Fund at the Imperial Bank

	Rs. a. p.		Rs. a. p.
1946—Received compensation for buildings.	40,000 0 0	1946—Paid for reconstruction of buildings.	3,683 4 6
1947—Received compensation for roads.	37,513 0 0	1947—Paid for reconstructions.	29,283 4 0
1947—Received compensation for "Hermitage".	1,150 0 0	1948—Paid for reconstructions.	31,210 6 6
		1949—Paid for reconstructions.	10,166 7 6
			74,343 6 0
		*Balance on 31st December 1949.	4,319 10 0
Total ..	78,663 0 0		78,663 0 0

General Fund at the Imperial Bank

		Rs. a. p.
(*a*)	Contractors' security deposit (refundable)	2,100 0 0
(*b*)	Balance after investment	105 3 2
	Total	2,205 3 2

Animal Purchase Fund at the Imperial Bank

		Rs. a. p.
(1)	Deposits for purchase of animals on behalf of other Zoos	14,161 9

*This balance is reserved for construction of office extension nearly completed.

APPENDIX B.

Summary of Visitors and Gate Receipts

1949.	Paying visitors.	Entrance receipts.	Free-day visitors.	Students admitted free of charge.
		Rs. a. p.		
January ..	223,046	27,881 4 0	8,751	550
February ..	145,464	18,183 0 0	5,517	862
March	145,896	18,237 0 0	11,426	121
April	161,009	20,127 10 0	5,003	244
May	129,547	16,193 10 0	4,900	115
June	128,442	16,055 4 0	6,256	50
July	146,554	18,319 4 0	5,491	165
August	140,940	17,617 8 0	5,690	120
September ..	170,751	21,344 2 0	5,451	235
October	172,435	21,556 4 0	4,830	215
November ..	131,827	16,478 8 0	4,433	862
December ..	190,215	23,777 6 0	5,360	2,852
Total ..	1,886,126	2,35,770 12 0	73,108	6,391*

APPENDIX C.

Staff of the Gardens

Superintendent	Sri R. K. Lahiri, M.Sc., G.V.Sc.
Store-keeper	Sri T. C. Chatterjee.
Accountant	Sri G. C. Auddy.
Veterinary Assistant	Sri S. N. Sarkar, G.V.Sc.
Clerk	Sri N. G. Mukherjee.
Clerk-Typists	Sri A. K. Mukherjee, Sri R. N. Mitra, Sri A. Banerjee, Sri K. L. Mukherjee, Sri P. C. Dey, Sri T. P. Mukherjee.

Inferior Staff (permanent and temporary)

3 Jamadars.	1 Head Mali.
4 Mahouts.	3 Mate Malis.
29 Keepers.	3 Malis.
2 Bhistees.	4 Cooly Sardars.
1 Food Distributor.	35 Coolies.
1 Cook.	1 Carpenter.
24 Durwans and Chaprasis.	1 Mason.
1 Methar.	1 Mason Cooly.
2 Methranis.	1 Mistry.

The services of a part-time Medical Officer for giving medical aid to the staff and of a part-time Overseer for supervising the constructional and other maintenance works were continued throughout the year.

Plus season pass for 57 students and teachers daily of 2 Art Schools.

APPENDIX D.

List of Donors of Animals.

Assistant Secretary to the Governor of West Bengal, 3 Rhesus Monkeys.
Anonymous, 1 Alexandrine Parrakeet, 2 Indian Palm Civets.

Banerjee, Sri T. P., 1 Cobra (young).
Basak, Mr. K. C., I.C.S., 1 Spotted Deer.
Biswas, Dr. K., M.A., D.Sc. (Edin.), F.R.S.E., F.N.I., 1 Rhesus Monkey (young).
Bose, Prof. B., 1 Small Python.
Bowie, Mr. W. A. S., 7 Rabbits.
Burdwan, Maharajadhiraja Bahadur of, 1 Leopard Cat.

Chamba, Raja Sahib of, 1 Tigress, 1 Leopard.
Chaudhuri, Sri Ramchandra, 1 Sloth Bear cub.
Chatterji, Sri Amar Nath, 1 Rhesus Monkey.
Clubb, Mrs. E., 1 Rhesus Monkey.

Das, Sri Abani Ranjan, 1 Fishing Cat (young).
Das, Sri C. R., 1 Python (young).
Debi, Rani Ashrumati, 1 Leopard.
Debi, Sm. Lakshmi, 1 Rhesus Monkey.
District Magistrate, Malda, 1 Python.
Dutta, Sri Sushil Kumar, Bull Frogs.

Ganguli, Sri A. N., 1 Marsh Crocodile.
Ganguli, Sri P., 1 Indian Palm Civet (young).
Ganguli, Sri Ramesh Chandra, 1 Rhesus Monkey.
Geddings, Mrs., 1 Red-headed Bunting.
Gokal, Sri Mongal, 1 Baby Rhesus Monkey.

Hajee Ismail Saib & Sons, Ltd., 1 Spotted Civet.
Hongh, Mr., 1 Fishing Owl.
Howell, Mr. W. F., 1 Indian Palm Civet.

Jayswal, Sri Badri Prasad, M.Sc., M.I.S.E., 1 Leopard cub (male).
Jessop & Co., Messrs., 1 Indian Palm Civet.

Lakshmibibi, Srimati, 1 Rhesus Monkey.
Law, Mr. J. A., 3 Pairs Budgerigars.

MacWilliam, Mrs. K. M., 4 Budgerigars.
Mehta, Mr., 10 Rabbits.
Mukherjee, Sri Kashi Bhusan, 3 Indian Silver Bills and 2 Spotted Munias.
Mukherjee, Rai Bahadur S. N., 1 Leopard cub.
Mukherjee, Sri Nepal Chandra, 1 Baby Marsh Crocodile.

Naskar, the Hon'ble Sri Hem Chandra, Minister, Government of West Bengal, 1 Brown Stump-tailed Monkey (male).

Orissa, His Excellency the Governor of, 2 Sloth Bear cubs.

Patari, Dr. S. K., 1 Spotted Civet.

Rahim, Janab Abdul, 1 Rat Snake.
Roy, Sri Jnanendra Nath, 2 Gharials.
Roy, Sri S. C., 1 Common Peafowl.
Roy, Sri S. N., 2 Rhesus Monkeys.
Roy, Miss Neela, 1 Tortoise.

Sahana, Sri Debesh Bijoy, B.A., R.M.I.E.T. (Lond.), F.R.M.S., 1 Sambar Deer.
Sarkar, Dr. Ratanlal, 1 Python.
Sen, Sri Nripendra Nath, 2 Gharials (Juv.).
Sen, Sri Ranjit and Sri Sanjit, 1 Leopard cub.
Sen, Sm. Manjurani, 1 Marsh Crocodile.
Set, Sri Sitaram, 1 Rhesus Monkey.
Singh, Sri S[illegible]B., 1 Leopard cub.
Singh Roy, Sri Saileswar, C.M.Z.S., 1 Burmese Peafowl.
Singh Roy, Sri G. B., 1 Burmese Peafowl and 1 Common Peafowl.
Sinha & Co., Messrs. R. K., 9 Rabbits.
Stenor, Mr. C. R., 2 Tortoises.
Strong, Mr. G. R., 1 Rhesus Monkey.

Wynne, Mr. John, 1 Himalayan Bear cub.

Report of the Honorary Committee for the Management of the Zoological Gardens, Alipore, Calcutta, for the Calendar Year 1950

The Executive Committee for the Management of the Zoological Garden have pleasure in presenting their Report with an Abstract Financial Statement for the calendar year ended 31st December 1950.

The Honorary Committee for the Management of the Gardens have functioned as reconstituted on July 7, 1949, with the provision of a General Committee and an Executive Committee:

President.—Dr. S. C. Law, M.A., Ph.D., F.N.I., F.Z.S.

Vice-Presidents.—Sri Uday Chand Mahtab, Maharajadhiraja Bahadur of Burdwan and Mr. E. A. Paterson (till 29th April 1950).

Honorary Secretary and Treasurer.—Sri Saileswar Singh Roy, C.M.Z.S., till 25th January 1950. Major S. C. Dutt, M.B., I.M.S. (Retd.), from 24th February 1950.

Members of the General Committee.—

Sri S. Chaudhuri, I.F.S.
The Hon'ble Mr. Justice P. B. Mukharji, Bar.-at-Law.
Col. Joyti Lal Sen, M.C., M.B., I.M.S. (Retd.).
Dr. Himadri Kumar Mookherjee, D.Sc., D.I.C. (London), F.N.I.
Sri Kanai Lall Jatia.
Sri R. C. Ghose, Bar.-at-Law.
Dr. P. C. Datta, M.B., Ch.B., F.R.C.S.E.
The Hon'ble Dr. R. Ahmed, D.D.S., F.I.C.D.
Dr. D. M. Sen, M.A., Ph.D. (Lond.).
Sri K. P. Khaitan, M.A., B.L., Bar.-at-Law.
Mr. D. J. Cohen.
Dr. K. Biswas, M.A., D.Sc. (Edin.), F.R.S.E., F.N.I.
Janab Wali-Ul-Islam.
Sri B. N. Roy Chowdhury.
Nawab Asif Qadr Saiyid Wasif Ali Mirza, Nawab Bahadur of Murshidabad.
Sri K. K. Das, B.A.
Sri Hemanta Kumar Mukherjee.
Sri K. P. Mondal, M.L.A.
Dr. Biswanath Mondal, M.B.
Sri Jagannath Kolay.
The Commissioner of the Presidency Division.
Mayor of Calcutta Corporation.
Secretary, Natural History Section, Royal Asiatic Society of Bengal.
Director of Veterinary Services, West Bengal.
Councillor of Ward No. 24 of the Calcutta Corporation.

Members of the Executive Committee.—

The Commissioner of the Presidency Division.
The Principal of the Bengal Veterinary College.
The Mayor of Calcutta or the local Ward Councillor as his substitute.
Dr. Himadri Kumar Mookerjee, D.Sc., D.I.C. (London), F.N.I.
Sri S. Chaudhuri, I.F.S.
The Hon'ble Mr. Justice P. B. Mukharji, Bar.-at-Law.
Col. Joyti Lal Sen, M.C., M.B., I.M.S. (Retd.).
Sri R. C. Ghose, Bar.-at-Law.
Sri R. N. Chatterjee, B.E., Superintending Engineer, Government of West Bengal (*co-opted*).

Obituary.—The Committee record with profound sorrow the sudden death of Sri Saileswar Singh Roy, C.M.Z.S. to whom the Garden owes a deep debt of gratitude for his valuable and unstinted services ever since he assumed charge as Honorary Secretary and Treasurer.

Appointment.—Owing to the sad demise of Sri Saileswar Singh Roy, Honorary Secretary and Treasurer, on January 25, 1950 the Vice-Presidents, Sri U. C. Mahtab, K.C.I.E., Maharajadhiraja Bahadur of Burdwan and Mr. E. A. Paterson carried on his duties till 24th February 1950, when Major S. C. Dutt, M.B., I.M.S. (Retd.) was appointed Honorary Secretary and Treasurer of the Garden.

Since 19th June 1950 *vice* Major Dutt, who was away on leave for participation in the International Ophthalmological Congress in London, Sri R. C. Ghose, Bar.-at-Law acted as Honorary Secretary and Treasurer till the end of the calendar year.

Resignation.—Mr. E. A. Paterson, as he was going home on long leave, resigned his office of Vice-President and membership of the Executive Committee on 29th April 1950. The Committee in accepting his resignation conveyed to him their appreciation of his valuable services rendered to the Garden.

Staff.—Sri Satya Narayan Chatterjee, M.SC. was appointed to the vacant post of the First Assistant Superintendent under the new recruitment rules of the West Bengal Government with effect from 7th December 1950, the designation of the post being changed into that of Deputy Superintendent.

The staff of the Garden is shown in Appendix C.

Provident Fund Rules for the non-pensionable staff.—The Committee adopted and introduced Rules for the Management of Provident Fund with effect from April 1, 1950.

Revision of scale of pay of the inferior staff.—The Committee revised the scale of pay of the inferior staff giving effect from March 1, 1950.

Meetings.—The General Committee met on 11th February 1950. A sub-Committee consisting of Sri K. L. Jatia, Sri S. Chaudhuri, I.F.S., Raja B. N. Roy Chowdhury of Santosh, Sri K. P. Mondal, M.L.A., Dr. J. L. Bhaduri, D.SC., F.N.I. and Mr. D. J. Cohen was appointed by the General Committee to make recommendation as to the ways and means for improving the finances of the Garden. The Sub-Committee met on 4th June 1950, 9th July 1950, 23rd July 1950 and 10th December 1950.

There were 13 meetings of the Executive Committee. Three sub-Committees were appointed by the Executive Committee to deal with (*i*) revision of scales of pay, etc., of the inferior staff, (*ii*) introduction of Provident Fund for the employees of the Garden and (*iii*) consideration and formulation of schemes for utilization of the Zoo for disseminating knowledge of animal life and stimulating popular interest in the fauna of the country.

Popularizing the Zoo.—By way of contribution to Children's Programme of the A.I.R., Calcutta Station, commentaries for broadcast recording on the voices of the Zoo animals by arrangement with the A.I.R. were given by the Superintendent of the Zoo with the Executive Committee's permission.

Regard being had to the recommendations of the sub-Committee appointed to deal with the schemes for diffusion of knowledge about Zoo animals in particular and for stimulating popular interest in the fauna of the country in general the Executive Committee's considered decision has been forwarded to the Government for financial aid so as to enable them to implement the same.

Life Member.—During the year two life members were enrolled.

Finance.—In Appendix A is given a statement showing receipts and disbursements during the year. Communal disturbances in the city during the early part of the year adversely affected the financial position, which has not yet recovered from the set-back notwithstanding the influx of refugee population. The Committee by enforcing rigid economy in expenditure and pushing the sale of surplus animals at the Zoo, also by adopting other means to increase revenue, *e.g.*, sale of pot plants and flower plants, sale of tank fishes, as well as by deferring as far as possible many repair works have been able to balance the accounts. The Committee, however, deem it necessary to emphasize that without the Government grant and the concession they have been receiving so far from the Corporation of Calcutta it is impossible to make both ends meet in view of the steady rise in price index from year to year and consequent increase in outlay of all description.

RECEIPTS: The increase in *Subscriptions and Donations* is due to the enrolment of two life members during the year. *Interest on Government Securities* shows increase due to the refund of income-tax deducted in 1947-48. Under head *Rent of Stalls, etc.*, the arrear rents of "Hermitage" are not included as they have not yet been received from Government. *Entrance Receipts* show considerable decrease, which is explained by low admission of visitors due to communal disturbances in the early part of the year. Gate receipts, however, show steady sign of improvement since before the Pujas. Summary of visitors and gate receipts is given in Appendix B. *Miscellaneous Receipts*—The increase is due to the sale proceeds of a pair of tigers, four leopards, and other spare animals as well as sale of fish from the lakes of the Zoo, and also due to charges realized from the parties for feeding the animals kept on deposit on their behalf. *Grant from Calcutta Corporation*—Usual sanction for exemption from the payment of the consolidated rates and taxes for four years (1944-45, 1945-46, 1948-49, 1949-50) has not yet been received from Calcutta Corporation, but is eagerly awaited.

EXPENDITURE: Generally the heads under this remain comparable to the last year's figures. *Miscellaneous Expenditure*—The increase under this head is due to the expenses incurred for medicine, electricity, purchase of new electric fans and tiffin and overtime charges paid to the staff for extra duties performed. *Purchase and transport of animals*—Actual expenses incurred on this account are shown, but there are commitments for proposals and deals sanctioned by the Committee for which expenses, not yet incurred, are shown under Liabilities. *Repairs and Constructions*—Only the actual expenses so far incurred are shown and the sanctioned commitments come under Liabilities. *Investment*—This sum is in partial restoration of Government Securities sold in 1947 to meet liabilities.

Houses and Buildings.—*Office Building*—The work in this connection for providing additional accommodation, which was started last year, has been completed together with electric installation. *Jhind House*—After partial demolition this has been thoroughly overhauled and remodelled so as to provide five compartments—two being L-shaped. *Schwendler House*—In a compartment of this house additions and alterations were made so as

to provide suitable accommodation for the Giant Salamanders. Provision for a pool of water with varying depths and a rocky dome-shaped shelter were features of this work.

Improvements.—*Quarters at Begunbari*—Repairs were given to the single-storied quarters and in two of them the worn-out corrugated sheets in the kitchen had to be replaced by asbestos roofing. *Store Godown*—The damaged flooring to this godown had to be repaired extensively and given rat-proof treatment. Also provision of a partition wall with a door was made. This makes a separate rat-proof chamber inside for stocking of food-grains. *Deputy Superintendent's Quarters*—Thorough repairs to this are nearly completed. *Chimpanzee Island*—Part of the inner wall of this having collapsed construction of a strong wall supported with buttresses was made. Also repair was given to the shelter inside and to its worn-out collapsible door. *Murshidabad House*—Two of the compartments having been heavily damaged by a huge tree (*Anogeisus accuminata*) coming down over them by storm necessary repairs and replacements were made. *Surnamoyee House*—The bottom portion of the partition dividing the cages Nos. 8 and 9 being damaged was replaced by a dwarf wall and the wire-netting fixed with hooks. *Sonebursa Enclosure*—Thorough repairs were given to the house inside the enclosure. *Rodent House*—An all round dwarf walling at the bottom of the aviary including partitions was done as the iron structures were damaged beyond repairs. *New Carnivora House*—The entire iron structure was very badly rusted. It was thoroughly scraped and painted with three coats of paint. The shelter was also given minor repair and white-washed. The barrier round the cage was strengthened and re-set with a coat of new paint. *Elephant Shed*—Repair and colour-wash and painting to the iron structure of the Mahout's shed was done. *Deer Enclosure* on the west bank of the lake —Minor repairs were done. *Waterfowl Pond*—South-west corner of the new extension was developed into a waterfowl pond with an island planted with trees in the centre. *Silt removal*—The trenches and some of the moats had huge deposit of silt. From Chimpanzee Island and Paddocks silt was removed. *Brick-on-edge Path* in front of office building—Completion of this work affords great improvement together with the provision of a drainage to remove water-logging during the monsoon. *Rat-proof Measures*—Thanks to the expert assistance rendered by the Director of Public Health, Government of West Bengal, effective measures towards extirpation of rats were made possible in many a cage and enclosure of the Garden. Departmentally the Garden staff were competent to have recourse to such measures as would keep down the rats. particularly in Rodent House, Schwendler House, Murshidabad House and some other bird houses.

Animals at the Zoo.—The general health of the animals is satisfactory and the number of births has gone up compared to last year's. The death rate is less.

The following table gives the figures of additions to the collection of mammals, birds and reptiles:

	Mammals.	Birds.	Reptiles.	Amphibia.
By presentation ..	83	53	16	2
By exchange ..	6	4	4	..
By purchase ..	6	21	52	..
By birth in the garden ..	42	95	..	..

The arrival of two Japanese Giant Salamanders and a pair of Japanese Brown Bear needs special mention. They have been received through External Affairs Ministry of the Government of India by way of presentation to the children of our country from the Director, Ueno Zoological Gardens, Tôkyo. It is very regrettable one of the two Giant Salamanders succumbed to an attack of fungus disease shortly after arrival.

The report of the Superintendent giving full particulars is attached.

Horticulture, etc.—Efforts made towards maintaining the Garden in condition brook no relaxation. More attention is being given to the lawns as the number of visitors shows steady increase and the crowd sometimes becomes almost unmanageable. Waste-paper baskets have been arranged for in different sections with posters requesting the visitors to throw the refuse therein. Simultaneously flower beds and flower pots have to be attended to, besides constant attention to sweep and collect the fallen leaves for disposal outside. Opening of a Nursery attached to the Horticultural Section is a new event of the year. A small plot of land has been fenced and utilized so as to produce larger quantities of seedlings, cuttings, etc. for sale to the public.

As usual cultivation in the Begunbari land has been producing vegetables and green fodder for consumption of the Zoo animals.

Library.—Gifts of the following books are greatly appreciated:

	Donor.
Cleghorn, Mr. C.	... Journal of Genetics, Vol. XII, 1922, by W. Bateson, M.A., F.R.S., and R. C. Punnett, M.A., F.R.S.
	General and Descriptive Anatomy of the Domestic Animals, by John Gangee and James Law.
	Report on the Fresh Water Fish and Fisheries of India and Burma, by Surgeon-Major Francis Day, F.L.S., F.Z.S., Inspector-General of Fisheries in India, 1873.
	Memoirs of the Department of Agriculture in India, Veterinary Series, Vol. II, No. 1 to No. 8 (1913, 1914 and 1917), by Agricultural Research Institute, Pusa.
	A Popular Treatise on the Common Indian Snakes, Part XII, with Plate XII and Diagram and Map. From the Journal of the Bombay Natural History Society, February 28, 1910, by Major F. Wall, I.M.S., C.M.Z.S.
	The Fishes of India being a Natural History of the Fishes known to inhabit the Seas and Fresh Water of India, Burma and Ceylon. Atlas—containing 1-77 plates, by Francis Day, C.I.E., LL.D., F.L.S., F.Z.S. (London).
Lishman, Mr. N.	.. The Care and Management of Elephant in Burma, by A. J. Ferrier. November, 1947.

Distinguished Visitors.—French Delegation to F.A.O. Conference held at Lucknow on Livestock Improvement visited the Zoo on 25th February

1950. The party consisting of Dr. E. D. Pilet, Dr. L. M. Feunleun and Dr. P. Receveur was shown round. On the same day Egyptian Delegation to the Horticultural Conference of the said organization visited the Garden.

The Hon'ble Sri Niharendu Dutta-Mazumder, Minister-in-charge of Home Department, paid unofficial visits during the year.

His Excellency Mr. Luang Phinit Akson, Charge-de-Affairs of the Government of Thailand in India, His Excellency Sir Maung Gyee, Burmese Ambassador in India, His Excellency General Yuan Cheng Hsein, Chinese Ambassador to India and Her Excellency the Nainggandaw Thamadagadaw, wife of the Hon'ble President of the Union of Burma, were other distinguished visitors worth mention.

Acknowledgment.—The Committee are much indebted to the members of the public as well as of the Garden, donors and to institutions, societies, shipping companies, air lines, railway authorities, editors and proprietors of newspapers and All-India Radio for their kind help in re-stocking the Garden's collection by presentations and gifts (list of which is given in Appendix D), for facilities and assistance in transport and publicity and in various other ways.

The Committee gratefully acknowledge the services and assistance from the Volunteer Organization of "Bengal Sowars" for regulating the rush of visitors on some specially crowded occasions.

The Committee's grateful thanks are due to the Corporation of Calcutta for their continued support in remitting the consolidated rates of previous years and the Committee trust that the usual sanction for exemption for the last few years will be received in due course.

The Committee are specially indebted to the Food Department, West Bengal for their continued supply of condemned grains free of charge to the Zoo. The Committee also desire to express their thanks to those persons who sent their old or broken-down horses to the Zoo to be destroyed under most humane conditions and to be utilized, if found fit, as food for the carnivora.

Lastly, the Committee record their appreciation of the services of the staff and employees of the Garden which have contributed towards the satisfactory results achieved during the year under report.

S. C. LAW,
President.

S. C. DUTT,
Honorary Secretary.

SUPERINTENDENT'S REPORT

I beg to submit the following report on the collection of animals in the Zoo, their diseases and treatment in the Zoo Veterinary Hospital.

Collection of animals.—A comparative table is given below showing how the various collections of animals stood at the end of the last five years:—

Year	Mammals	Birds	Reptiles	Amphibians
1946	239	1,419	69	..
1947	341	1,771	59	..
1948	279	1,598	66	..
1949	293	1,506	56	..
1950	257	1,343	53	2

Acquisition during the year.—(*a*) By Birth: *Mammals*—1 Cape Hyrax—*Procavia capensis* (Pallas), 6 Southern Indian Jackal—*Canis aureus naria* Wrought, 1 Indian Wolf—*Canis pallipes* Sykes, 10 Spotted Deer—*Axis axis* (Erxleben), 4 Nilgai—*Boselaphus tragocamelus* Pall., 1 Great Grey Kangaroo—*Macropus giganteus* (Zimmermann), 6 Indian Antelope—*Antilope cervicapra* (Linn.), 1 Common Langur—*Semnopithecus entellus*, 4 Barking Deer—*Muntiacus muntjak* Zimm., 2 Swamp Deer—*Rucervus duvaucelli* Cuvier, 1 Fallow Deer—*Dama dama* (Linnaeus), 4 Four-horned Antelope—*Tetraceros quadricornis* (Blainv.), 1 Barbary Wild Sheep—*Ammotragus lervia* (Pallas). *Birds*—5 Black Swan—*Chenopic atrata* (Latham), 6 Bhutan Peacock Pheasant—*Polyplectron bicalcaratum bakeri* Lowe, 2 Burmese Red Jungle Fowl—*Gallus bankiva robinsoni*, 2 Indian Emerald Dove—*Chalcophaps indica*, 1 Rufous Turtle Dove—*Streptopelia orientalis meena*, 1 Cockatiel—*Leptolophus hollandicus* (Kerr), 42. Budgerigar—*Melopsittacus undulatus* (Shaw & Nodder), 5 Cut-throat Finch—*Amadina fasciata*, 1 Nicobar Pigeon—*Calanas nicobarica nicobarica*, 3 Purple Kaliji Pheasant—*Gennaeus h. horsfieldii*, 11 Rosy-faced Love Bird—*Agapornis roseicollis* (Vieillot), 2 Java Sparrow—*Padda oryzivora* (Linnaeus), 2 Grey Jungle Fowl—*Gallus sonneratii* Temminck, 3 Nepal Kalij Pheasant—*Gennaeus leucomelanus* (Lath.), 2 Sarus Crane—*Antigone antigone antigone*, 1 Javan Jungle Fowl—*Gallus varius* (Shaw & Nodder), 2 Purple Moorhen—*Porphyrio poliocephalus* (Lath.).

(*b*) By Presentation.—2 Giant Salamander—*Megalobatrachus japonicus* (Temm.); a pair of Japanese Brown Bear; 3 Striped Hyæna cubs—*Hyæna hyæna* Linnaeus; 1 Leopard Cat—*Prionailurus bengalensis* Kerr; 1 Sloth Bear cub—*Melursus ursinus* Shaw; a pair of Burmese Peafowl—*Pavo muticus* Linnaeus.

Full list of donors together with their gifts appears in Appendix D.

(*c*) By Purchase.—Most important being beautiful specimen of King Cobra—*Naja hannah* (Cantor). During the year under review acquisition by purchase is restricted to indigenous fauna only.

(*d*) By Exchange.—(*i*) With Mr. Sherer, Johannesburg—2 Reticulated Giraffe (young) *Giraffa camelopardalis* (Linnaeus); (*ii*) with Bombay Zoo—4 Sand Boa—*Eryx conicus*; (*iii*) with local dealers—1 Red-sided Eclectus—*Lorius pectoralis* (Müller), 1 Emerald Dove—*Chalcophaps indica*, 1

Great-billed Parrakeet—*Tanygnathus megalorhynchos* (Boddaert), 1 Cerum Lory—*Domicella garrula* (Linnaeus), 2 Yellow Baboon—*Papio cynocephalus* (Linnaeus), 2 Indian Gazelle—*Gazella bennetti* (Sykes).

List of species new to the collection.—AMPHIBIA: *Megalobatrachus japonicus* (Temm.) Japanese Giant Salamander. MAMMALIA: *Ursus arctos*—Japanese Brown Bear.

Zoo Veterinary Hospital.—Proper attention has been paid throughout the year as to the health and general hygiene of the Zoo inmates. Sick and almost all new arrivals have been hospitalized and needful treatment rendered. The following cases are worth mentioning:

(*i*) *Anoa* (male), one of the oldest mammals living in our collection, had an attack of dysentery of par-acute type. After proper treatment although the animal was cured of dysentery it gradually developed posterior paralysis and died. The animal lived in the Garden for 23 years 10 months 9 days. (*ii*) *Gayal* (female) during monsoon had a relapse of Bovine Pleuro-Pneumonia and in spite of all possible care and attention died after a protracted illness. (*iii*) *Giraffe* (male and female).—During transit both the animals had bruises and sores all over the body and were in very poor condition, especially the female one, and had heavy infestation of Ankylostomes. Necessary veterinary aid was rendered. The male readily responded to treatment and has been doing well, but unfortunately the female Giraffe, instead of showing any improvement, steadily lost strength and died. (*iv*) *Salamander.*—One of the Salamanders developed cutaneous patches probably of fungoid origin on the under surface of the body which rapidly covered the whole body and caused its death. (*v*) *Burmese Peafowl* (male and female).—Birds in poor condition and ailing from dysentery were carefully attended to, cured and discharged. (*vi*) *Cabbot's Tragopan.*—This bird sustained a compound fracture of the femur. The bones were set in position and protective bandage given. It was discharged after about 6 weeks. (*vii*) *American Bison* (female).—In summer this year also she had sudden relapse of Bovine Pleuro-Pneumonia and did not recover from the malady. (*viii*) *Tiger* (male).—"Maharaja" is undergoing treatment for chronic Hepatitis and shows sign of recovery.

A post-mortem examination is made nearly of all important animals that died during the year and the findings are recorded as usual. In some cases the help of the Principal, Bengal Veterinary College, was obtained for detailed pathological examination.

Deaths.—Total number of deaths during year under review is far less than the previous year. There have been deaths amongst a few old inhabitants as also new arrivals which could not stand journey well. On the whole mortality figures showed appreciable decline in comparison with previous year. The most regretted losses in the collection are *Mammals.*—2 Cape Hyrax, 2 Hunting Cheeta, 1 Brazillian three-banded Armadillo, 1 American Bison, 1 Reticulated Giraffe, 1 Gayal, 1 Anoa, 1 Tiger cub, and our old Tiger "Boota", 1 Arabian Baboon (young), 1 Red-bellied Wallaby. *Birds*—2 Peacock Pheasants, 1 Cape Crown Crane, 1 Pennant's Parrakeet, 1 Australian Black-winged Pelican, 1 Baikal Teal, 1 Cabbot's Tragopan, 1 White Peafowl, 1 Snow Pigeon, 1 Siamese Crested Fire-back Pheasant, 1 Green Imperial Pigeon, 1 Crested Curassow. *Reptiles*—1 King Cobra. *Amphibia*—1 Giant Salamander.

Infectious Diseases.—There was no epidemic of infectious or contagious diseases of serious nature excepting two cases of feline distemper in a Tiger cub and a Leopard cub, the spread of which was checked immediately by careful isolation, disinfection and adequate prophylactic and curative measures.

No cases of confirmed tuberculosis were noticed amongst the inmates of the Garden in the year under review. Thanks are due to Major J. M. Lahiri, M.R.C.V.S., F.Z.S., Principal, Bengal Veterinary College for his prompt help, co-operation and valuable advice in various matters relating to animal health and hygiene.

Disposal of Carcasses.—Majority of the carcasses were, as usual, sent to the Curator, Zoological Galleries, Indian Museum and also to the Department of Zoology, University of Calcutta for utilizing the same for scientific purpose.

R. K. LAHIRI,
Superintendent.

APPENDIX A

Abstract Financial Statement for the year ended 31st December 1950.

RECEIPTS

		Rs.	a.	p.
1.	Balance brought forward from last calendar year's account ..	4,384	8	9
2.	Balance due to unspendable expenditure shown as liabilities in 1949 ..	23,751	1	0
3.	Subscriptions and donations	200	0	0
4.	Interest	1,742	10	0
5.	Rent of stalls, etc.	5,744	0	0
6.	Government contribution	16,000	0	0
7.	Entrance receipts	2,05,110	2	0
8.	Miscellaneous receipts	27,680	13	0
	Total ..	2,84,613	2	9

EXPENDITURE

		Rs.	a.	p.	Rs.	a.	p.
1.	Establishment salaries, etc.				50,804	14	0
2.	Establishment allowances				45,015	8	0
3.	Food of animals				87,729	5	0
4.	Miscellaneous				15,554	6	9
5.	Garden constructions (seeds, plants, etc.)				993	4	0
6.	Purchase and transport of animals				2,302	2	9
7.	Repairs to roads	1,185	13	9			
	Repairs to buildings, etc.	17,087	11	6			
					18,273	9	3
8.	Original constructions				13,397	2	0
9.	Garden's contribution to employees Provident Fund				1,969	7	0
10.	Investment				10,000	0	0
					2,46,039	10	9
Add	Liabilities—						
	For purchase of bigger animals ..	10,000	0	0			
	For works in progress	15,000	0	0			
	For materials and labour	2,439	6	0			
	For sundries	2,887	14	0			
					30,327	4	0
					2,76,366	14	9
	Balance in favour of the Garden				8,246	4	0
	Total ..				2,84,613	2	9

Reserve Fund

		Rs.	a.	p.
1.	3 per cent. Conversion Loan of 1946 (in custody with Reserve Bank) ..	6,800	0	0
2.	3 per cent. Conversion Loan of 1946 (in custody with Imperial Bank) ..	26,900	0	0
3.	3 per cent. Victory Loan (in custody with Imperial Bank) ..	17,900	0	0
4.	Deposit in Imperial Bank General Fund after encashment of Interest-free Prize Bonds (less Bank commission) and further sums set apart for investment.	11,995	0	0
5.	Imperial Bank savings account (Rs. 2,848-7-0 less interest Rs. 224-5-0)	2,624	2	0
6.	Permanent advance with Gate Clerks Rs. 10 and Store-keeper Rs. 290	300	0	0
7.	Imperial Bank General Fund account	394	13	3
	Total ..	66,913	15	3

Other Funds

Repair and Reconstruction Fund at the Imperial Bank

		Rs.	a.	p.		Rs.	a.	p.
1.	Balance brought forward from last calendar year's account.	4,319	10	0	1950—Paid for office extension.	3,178	12	0
					*Balance on 31st December 1950.	1,140	14	0
	Total ..	4,319	10	0	Total ..	4,319	10	0

General Fund of the Imperial Bank

(a)	Contractors' security deposit (refundable)	4,800	0	0
(b)	Balance after investment	105	3	2
	Total ..	4,905	3	2

Animal Purchase Fund at the Imperial Bank

1.	Deposits for purchase of animals on behalf of other Zoos	18,339	13	2

*This sum is reserved for construction of a Sanitary Lavatory attached to office.

APPENDIX B

Summary of Visitors and Gate Receipts

1950	Paying visitors	Entrance receipts	Free-day visitors	Students admitted free of charge
		Rs. a. p.		
January	1,97,757	24,719 10 0	7,254	786
February	76,283	9,535 8 0	2,863	787
March	51,494	6,437 4 0	2,970	376
April	74,441	9,305 2 0	3,019	70
May	97,799	12,224 14 0	3,497	80
June	1,05,971	13,246 6 0	3,496	90
July	1,70,233	21,279 2 0	5,142	120
August	1,47,711	18,467 6 0	5,573	565
September	1,47,282	18,410 6 0	6,999	263
October	2,19,366	27,421 0 0	5,836	435
November	1,24,326	15,540 12 0	4,646	621
December	2,28,177	28,522 12 0	5,732	1,869
Total ..	16,40,840	2,05,110 2 0	57,027	6,062*

APPENDIX C

Staff of the Gardens

Superintendent ..	.. Sri R. K. Lahiri, M.Sc., G.V.Sc.
Deputy Superintendent ..	.. Sri S.-N. Chatterjee, M.Sc.
Store-keeper ..	.. Sri T. C. Chatterjee.
Accountant	.. Sri G. C. Auddy.
Veterinary Assistant ..	.. Sri S. N. Sarkar, G.V.Sc.
Clerk	.. Sri N. G. Mukherjee.
Clerk-Typists	.. Sri A. K. Mukherjee, Sri R. N. Mitra, Sri A. Banerjee, Sri K. L. Mukherjee, Sri P. C. Dey, Sri T. P. Mukherjee, Sri B. Halder.

Inferior Staff (Permanent and Temporary)

3 Jamadars.	16 Durwans and Chaprasis.	37 Coolies.
33 Mahouts and Keepers.	1 Methar.	1 Carpenter.
2 Bhistees.	2 Methranis.	1 Mason.
1 Food Distributor.	1 Head Mali.	1 Mason Cooly.
1 Cook.	3 Mate Malis.	1 Plumbing Mistry.
3 Cycle Peons.	3 Malis.	1 Assistant Mistry.

The services of a part-time Medical Officer for giving medical aid to the staff was continued throughout the year.

*Plus Season Pass for 25 students and teachers daily of Government Art School.

APPENDIX D

List of Donors of Animals

Bag, Sri Sudhir Chandra, 1 Baby Python.
Barisha Bayam Samity, 1 Python.
Basu, Sri Bepin Behari, 1 Cobra.
Bhaduri, Sri B. N., 1 Leopard Cat.
Bhattacharjee, Sri Debnarayan, 1 Centipede.
Biswas, Sri D. N., Food Department, Government of West Bengal, 1 Rhesus Monkey.
Burns, Mr. R., 1 Sloth Bear cub.

Chatterjee, Sri Taran Kumar, 1 Indian Koel.
Chopra, Sri Iswar Singh, B.SC., B.T., 1, Striped Hyæna cub (male).
Clerke, Lt.-Col. J. W., O.B.E., 2 Rhesus Monkeys.
Clough, Mr. R. J., 1 Bengal Porcupine (young).

Das, Sri Ajit Kumar, 10 Common Rabbits.
Das, Sri J., 14 Rabbits.
Dassi, Sm. Heranmoyee, 1 Rhesus Monkey.
Draine, Mrs. Thomas P., 2 Blossom-headed Parrakeet, 2 Rose-ring Parrakeet and 2 Common Ducks.

Ganguli, Sri Jagatpati, 1 Bonnet Monkey.
Ghosal, Sri Arun Chandra, 4 Common Rabbits.
Ghose, Sri Bon Behari, 2 Burmese Peafowl (male and female).
Ghose, Sri Lalmohan, 1 Cobra.
Ghose, Dr. S. R., M.B., 1 Hanuman (female).
Gupta, Sri Keshab Chandra, 1 Marsh Crocodile.

Iqbal, Janab Ali Hussain M., 1 Common Peapowl (male).

Jalan, Sri B. L., 1 Hog Deer.
Jalan, Sri G. K., 1 Greater Sulphur-crested Cockatoo.

Kheyer, Janab Abdul, 1 Rabbit.

Law, S. C., M.A., PH.D., F.N.I., M.B.O.U., F.Z.S. (President), 28 Swallow Plovers.
Lishman, Mr. N., 1 Himalayan Palm Civet.

MacRae, Mrs. E., 2 Black-headed Mannikin, 3 Spotted Munia, 2 Red Munia, 1 Indian Silver Bill.
Master of the Mint, 3 Rhesus Monkeys.
Maulik, Sri Brojeswar, 1 Spotted Deer (male).
Mercer, Mr. A., 1 Leopard cub (female).
Mitchell, Mrs. J. S. N., 1 Porcupine.
Mitra, Sri Khagendra Nath, 2 Spotted Civets.
Mor, Mr. B. L., 1 Leopard cub.
Mukherjee, Sri J., Superintendent, Presidency Jail, 2 Common Rabbits.
Mukherjee, Sri R. N., 2 Indian Antelope.
Mukhuty, Sm. Saraju Bala, 1 Rhesus Monkey.

Naskar, The Hon'ble Minister Sri Hem Chandra, 1 Rhesus Monkey.
Naskar, Sri Pashupati, 1 Russell's Viper.
Naskar, Sri Rajani Kanto, 1 Cobra.
Nath, Sri Shyam Sundar, 3 Muscovy Ducks.
Nayak, Sri Banchanidhi, 2 Rabbits.

Orr-White, Miss Margaret, 3 Land Tortoises.

Patodia, Mr. R. C., 1 Indian Palm Civet.
Paul, Sri Radha Kanto, 1 Striped Hyæna cub (female).
Powel, Mr. M. R., 1 Striped Hyæna cub (female).

Roy Chowdhury, Sri Sunil Kumar, 1 Mongoose.
Roy, Sri N. K., 1 Leopard cub (female).
Roy, Sri P. C., B.Sc. (Eng.) (Glas.), Government House, 1 Rhesus Monkey.

Saha, Sri Rajkumar, 1 Sambar Deer.
Sarkar, Miss Jharna, 8 Guinea pigs.
Sarkar, Sri Paresh Chandra, 1 Russell's Viper.
Sarkar, Sri S. N., 1 Green Whip Snake.
Shaw, Sri Gurucharan, 1 Pintailed Duck (female).
Sil, Sri Provat Kumar, 1 Marsh Crocodile.
Singha, Sri S. P., 1 Leopard cub.
Sookias, Mrs. I., 1 Rose-ring Parrakeet (female).
Superintendent, Howrah Homes, 1 Spotted Deer.
Superintendent of Police, 24-Parganas, 1 Baby Marsh Crocodile.

Thorat, Capt. N. B., 1 Nilgai (female).

Willsman, Mr., received through Mrs. Tanerd, 2 Tortoises
Wilson, Mrs. R. H., 1 Common Goose.

WBGP-50/1-10034D-250



सत्यमेव जयते

Government of West Bengal

Report of the Honorary Committee for the Management of the Zoological Gardens, Alipore Calcutta, for the Calendar Year 1951

Superintendent, Government Printing
West Bengal Government Press, Alipore, West Bengal
1952

Gratis

Report of the Honorary Committee for the Management of the Zoological Gardens, Alipore, Calcutta, for the Calendar Year 1951

The Executive Committee for the Management of the Zoological Gardens have pleasure in presenting their Report with an Abstract Financial Statement for the calendar year ended 31st December 1951.

The Honorary Committee for the Management of the Gardens have functioned as reconstituted on July 7, 1949, with the provision of a General Committee and an Executive Committee :

President : Dr. S. C. Law, M.A., Ph.D., F.N.I., F.Z.S.

Vice-President : Sri Uday Chand Mahtab, Maharajadhiraja Bahadur of Burdwan.

Honorary Secretary and Treasurer : Major S. C. Dutt, M.B., I.M.S. (Retd.)

Members of the General Committee :

Sri S. Chaudhuri, I.F.S.
The Hon'ble Mr. Justice P. B. Mukharji, Bar.-at-Law.
Col. Joyti Lal Sen, M.C., M.B., I.M.S. (Retd.).
Dr. Himadri Kumar Mookerjee, D.Sc., D.I.C. (London), F.N.I.
Sri Kanai Lall Jatia
Sri R. C. Ghose, Bar.-at-Law
Dr. P. C. Datta, M.B, Ch.B., F.R.C.S.E.
The Hon'ble Dr. R. Ahmed, D.D.S., F.I.C.D.
Dr. D. M. Sen, M.A., Ph.D. (Lond.)
Sri K. P. Khaitan, M.A., B.L., Bar.-at-Law.
Mr. D. J. Cohen
Dr. K. Biswas, M.A., D.Sc. (Edin.), F.R.S.E., F.N.I.
Janab Wali-Ul-Islam.
Sri B. N. Roy Chowdhury.
Nawab Asif Qadr Saiyid Wasif Ali Mirza, Nawab Bahadur of Murshidabad.
Sri K. K. Das, B.A.
Sri Hemanta Kumar Mukherjee.
Sri K. P. Mondal, M.L.A.
Dr. Biswanath Mondal, M.B.
Sri Jagannath Kolay.
The Commissioner of the Presidency Division.
Mayor of Calcutta Corporation.
Secretary, Natural History Section, the Asiatic Society.
Director of Veterinary Services, West Bengal.
Councillor of Ward No. 24 of the Calcutta Corporation.

Members of the Executive Committee :

The Commissioner of the Presidency Division.
The Principal of the Bengal Veterinary College.
The Mayor of Calcutta or the local Ward Councillor as his substitute.
Dr. Himadri Kumar Mookerjee, D.Sc., D.I.C. (London), F.N.I.
Sri S. Chaudhuri, I.F.S.
The Hon'ble Mr. Justice P. B. Mukharji, Bar.-at-Law.
Col. Joyti Lal Sen, M.C., M.B., I.M.S. (Retd.).
Sri R. C. Ghose, Bar.-at-Law.
Sri R. N. Chatterjee, B.E., Superintending Engineer, Government of West Bengal (*co-opted*).

Staff.—Vide Appendix C.

Meetings.—The General Committee met on 17th February 1951. There were 12 meetings of the Executive Committee.

Amenities for the visitors to the Zoo.—Since 15th July 1951, thanks to the co-operation of the Military authorities at Fort William, regular playing of Military Band on each Sunday afternoon has been introduced.

With the co-operation of the State Transport authorities the 3B Bus service—Esplanade-Chetla—is diverted so as to run along the road in front of the main entrance of the Garden.

Life Member.—During the year three life members were enrolled.

Finance.—In Appendix A is given a statement showing receipts and disbursements during the year.

RECEIPTS: *Rent of stalls, etc.*, shows increase compared to last year's figures due to realisation of 80 per cent. of arrear rent of Hermitage for the period 2nd October 1948-30th June 1951. *Entrance receipts* have not come up to last year's figure notwithstanding additional amenities that have been provided since about the latter half of the year. Summary of visitors and gate receipts is given in Appendix B. *Grant from Calcutta Corporation*—The amount shown under this head excludes outstandings equivalent to consolidated rates and taxes for 1944-45, 1945-46 and 1948-49 for which formal sanction for exemption has not been received from Calcutta Corporation, but is eagerly awaited.

EXPENDITURE: The total amount under the several heads excluding Corporation rates and taxes remains comparable to last year's figure. *Purchase and Transport of animals*—Expenses under this head have gone up owing to transport charges paid for fetching and sending of animals, also for the commitments for proposals and exchange deals which were shown as liabilities last year. *Repair and Construction*—Expenditure under this head has increased due to payment of bills against works which were in progress last year but completed during this year as also for the improvement works undertaken.

Houses and Buildings.—*Bridge near Jhind House*—Measures are being taken to strengthen this bridge which is unsafe for heavy traffic. *Hermitage*—Some major repairs being necessary for this building preliminary steps have been taken in this direction.

Improvements.—*Porcupine House*—This was thoroughly repaired, damaged wire-netting was replaced and painted as well as rat-proof measures were adopted. *Schwendler House*—Thorough repairs including rat-proof measures were undertaken. *New Monkey House*—The entire worn-out iron structure was rebuilt and strengthened by providing at the bottom a dwarf wall around it and also between the chambers. New iron-framed doors were erected. *Sonebursa Enclosure*—All compartments were thoroughly repaired and painted; the exterior colour-washed and doors and windows renewed. *Small Carnivora House*—The entire iron structure having badly rusted was repaired, and re-painted together with the shelter. The barrier round the house was strengthened and reset on a dwarf wall and doors and windows renewed. *Surnamoyee House*—The leaky roof was patch-repaired and the interior repaired and lime-washed. Rat-proof measures were adopted in two side cages. *Murshidabad House*—The bigger compartments were partitioned with wire-netting on dwarf walls for accommodating more exhibits. The entire iron and wooden structures were painted after necessary repair. Broken glass panes were replaced. *Mullick House*—After replacement of some worn-out iron bars the house was repaired, colour-washed and painted. *Bridge near Surnamoyee House*—The wooden supporting structures of the bridge being badly damaged

were replaced by R. C. pillars and beams and repaired ; the wire ropes were tightened. A new wire-netting fencing was provided. The iron structures were painted. *Hoolock Island*—The shelter inside the island was repaired and painted. *Refreshment Pavilion including Kitchen*—Both were thoroughly repaired, colour-washed and painted. The electric installation which was partially burat due to an accidental fire in the line was renewed and two new electric fans were provided. *Big and Ornamental Lakes*—Earth and silt cutting to a considerable extent was done and this earth and silt was utilized for the purpose of dressing and restoring to shape the edges of the lakes which were extensively eroded as well as the embankments which had given way ; damaged portion of the fencing surrounding the big lake was attended to ; one of the islands inside the big lake which was about to collapse was repaired. The damaged surface drains round the lakes were mended. *Silt Removal*—The accumulated silt in the trenches surrounding the paddocks was removed. *Markhor Enclosure, etc.*—(*i*) Necessary repair was done to the small bridge leading to the enclosure. (*ii*) The damaged fencing was taken out, reset and painted. *Boundary wall near main gate and entrance lodge*—Necessary repairs were done including colour-washing and painting. *Brick-on-edge Path*—A portion of the damaged brick-on-edge path near the Murshidabad House was attended to and a surface drain was provided. *Bituminous Roofing* (Syntha Roofing)—After necessary repairs the Syntha roofing treatment was given to the leaky roofs of the (*i*) single storied quarters of the Veterinary Assistant, (*ii*) single storied servants quarters at Begumbari and (*iii*) the Refreshment Room at Kidderpore Gate. *Plumbing works*—Due to inadequacy of water-supply throughout the Garden the old pipe lines were dug out and cleansed. The worn-out pipes were replaced by serviceable ones in the northern portion of the Garden completely. The work in the remaining portion of the Garden is in progress. New hydrants were installed at suitable points of the Garden to maintain uniform and adequate water supply to lawns, pathways, animal houses, etc. At other places defective water taps were mended or replaced.

Animals at the Zoo.—The general condition of the animals is satisfactory ; the number of births has increased and mortality is less compared to last year's.

The following table gives the figures of additions to the collection of mammals, birds and reptiles :

	Mammals	Birds	Reptiles
By presentation	96	131	15
By exchange	10	22	..
By purchase	8	295	65
By birth in the Garden	31	104	35

The noteworthy addition to collection of carnivora is a pair of tiger cubs by presentation from the Government of Rajasthan, and a male tiger cub as gift from the Superintendent of Police, Gaya. A pair of Puma has arrived on exchange from the Praha Zoo, Czechoslovakia.

The report of the Superintendent giving full particulars is attached.

Horticulture, etc.—Efforts to improve the look of the hedges and groves are being made. The lawns require constant attention and to keep the grass green watering arrangement has been improved. The Nursery started last year has begun to give good result.

The Begumbari land available for growing green fodder and vegetables was fully utilized and the output of Lucerne, Guinea, Napier grass, etc., went a long way in meeting the demand for nourishing food of the animals supplementary to their usual diet.

Distinguished Visitors.—The Hon'ble Sri Hem Chandra Naskar, Minister-in-charge of Forests and Fisheries, Government of West Bengal, visited the Garden.

Her Excellency Sreemati Rajbansi Devi, wife of the Hon'ble President of Indian Union, paid an unofficial visit.

His Excellency Sir Mallek F. Khan Noon, Governor of East Pakistan, and his family, His Royal Highness the Crown Prince Mahendra Bikram Shah of Nepal, Prof. J. B. S. Haldane, F.R.S., Professor of Biometry, University College, London and some members of the Chinese Cultural Delegation of the People's Republic of China were other distinguished visitors to the Garden.

Acknowledgment.—The Committee are much indebted to the members of the public as well as of the Garden, donors and to institutions, societies, shipping companies, air lines, railway authorities, editors and proprietors of newspapers and to the Royal Calcutta Turf Club for their kind help in re-stocking the Garden's collection by presentations and gifts (list of which is given in Appendix D), for facilities and assistance in transport and publicity and in various other ways.

The Committee gratefully acknowledge the services and assistance from the Volunteer Organisation of "Bengal Sowars" this year also for regulating the rush of visitors on some specially crowded occasions.

The Committee's grateful thanks are due to the Corporation of Calcutta for their support in remitting the consolidated rates of two previous years. The usual sanction for exemption for outstanding grants for the years 1944-45, 1945-46 and 1948-49 is expected.

The Committee are specially indebted to the Food Department, Government of West Bengal, and to Messrs. Britannia Biscuit Co., Ltd., for their continued supply of condemned grains and biscuit dust respectively free of charge to the Zoo. The Committee also desire to express their thanks to the persons who sent their old or broken-down horses to the Zoo to be destroyed under most humane conditions and to be utilized, if found fit, as food for the carnivora.

Lastly, the Committee record their appreciation of services of the staff and employees of the Garden which have contributed towards the satisfactory results achieved during the year under report.

S. C. DUTT
Honorary Secretary

S. C. LAW
President

SUPERINTENDENT'S REPORT

I beg to submit the following report on the collection of animals in the Zoo, their diseases and treatment in the Zoo Veterinary Hospital.

Collection of animals.—A comparative table is given below showing how the various collections of animals stood at the end of the last five years :

Year	Mammals	Birds	Reptiles	Amphibians
1947	341	1,771	59	..
1948	279	1,598	66	..
1949	293	1,506	56	..
1950	257	1,343	53	2
1951	334	1,450	63	..

Acquisition during the year.—(*a*) By Birth : *Mammals*—1 Cape Hyrax (*Procavia capensis*), 2 Tiger cubs (*Panthera tigris tigris*), 2 Barking Deer (*Muntiacus muntjak*), 1 Indian Antelope (*Antelope cervicapra*), 1 Arabian Baboon (*Papo porcarius*), 2 Swamp Deer (*Rucevers duvaucelli*). *Birds*—6 Bhutan Peacock Pheasants (*Polyplectron bicalcaratum bakeri*), 9 Black Swans (*Chenopis atrata*), 4 White Peafowl (*Pavo cristatus*), 6 Brush Turkeys (*Abetura lathami*), 2 Nicobar Pigeons (*Calaenas nicobarica nicobarica*), 4 Burmese Peafowl (*Pavo muticus*), 7 Purple Kalij Pheasants (*Gennaeus h. horsfieldii*), 3 Nepal Kalij Pheasants (*Gennaeus leucomelanus*), 4 Painted Spur Fowl (*Galloperdix lunulata*), 1 Gold Pheasant (*Chrysolophus pictus*), 2 Lady Amherst Pheasants (*Chrysolophus amherstiae*), 4 Java Sparrows (*Padda oryzivora*), 39 Budgerigars (*Melopsittacus undulatus*), 4 Rosy-faced Love Birds (*Agapornis roseicollis*), 1 Australian Crested Dove (*Ocyphaps lophotes*), 1 Purple Moorhen (*Porphyrio poliocephalus*).

(*b*) By Presentation : *Mammals*—2 Tiger cubs (*Panthera tigris tigris*) from the Government of Rajasthan and 1 Tiger cub (*Panthera tigris tigris*) from the Superintendent of Police, Gaya, 1 Striped Hyaena cub (*Hyaena hyaena*), 1 Sambar Deer (*Cervus unicolor*), 1 Indian Antelope (*Antelope cervicapra*), 2 Himalayan Bear cubs (*Selemarctos thibetanus*), 3 Sloth Bears (*Melursus ursinus*), 5 Leopards (*Panthera pardus fusca*), 1 Indian Pangolin (*Manis crassicaudata*), 3 Fishing Cats (*Prionailurus viverrinus*). *Birds*—1 Ceram Lory (*Domicella garrula*). 2 White Storks (*Ciconia ciconia*), 2 Greater Flamingoes (*Phoenicopterus ruber roseus*). *Reptiles*—1 Python (*Python molurus*).

Full list of donors together with their gifts appears in Appendix D.

(*c*) By Purchase.—Most important amongst *Mammals*—1 Indian Gazelle (*Gazella bennetti*), 1 Indian Wolf (*Canis lupus*) ; *Birds*—31 Impeyan Pheasants (*Lophophorus impeyanus*), 5 Koklas Pheasants (*Ceriornis macrolopha*), 3 Cheer Pheasants (*Catreus wallichii*), 4 Satyr Tragopan Pheasants (*Tragopan satyra*), 2 Greater Flamingoes (*Phœnicopterus ruber roseus*), 10 White Storks (*Ciconia ciconia*), 6 Gold-fronted Chloropsis (*Chloropsis aurifrons*), 9 Shamas (*Kitacincla malabarica*), 5 Large Racket-tailed Drongos (*Dissemurus paradiseus*), 1 Spotted-billed Pelican (*Pelecanus philippensis*).

(*d*) By Exchange.—(*i*) With Zoologicka Zahrada, Praha, Czechoslovakia—2 Pumas (*Felis concolor*) ; (*ii*) with Colombo Zoo—6 Toque Monkeys (*Macaca sinica*) ; (*iii*) with Dr. S. C. Law (President)—3 Bhutan Peacock Pheasants (*Polyplectron bicalcaratum bakeri*), 2 Siamese Crested Fireback Pheasants (*Lophura diardi*), 2 Grey Jungle Fowl (*Gallus sonneratii*), 2 Painted Spur Fowl (*Gallopardix lunulata*), 1 Javan Jungle Fowl (*Gallus varius*) ; (*iv*) with Mrs. Uma

Rakshit—1 Barking Deer (*Muntiacus muntjak*), 1 Sloth Bear (*Melursus ursinus*); (*e*) with London Zoo—8 Lady Amherst Pheasants (*Chrysolophus amherstiae*); (*f*) with Prof. Alessandro Ghigi—4 Edwards Pheasants (*Gennaeus edwardsi*).

Zoo Veterinary Hospital.—Proper attention has been paid throughout the year as to the health and general hygiene of the Zoo inmates. Sick and almost all new-arrivals have been hospitalized and needful treatment rendered. The following cases are worth mentioning:

(*i*) *Tigers* "Raja" and "Tim" heavily parasitized (*Ankylostomes*) were successfully treated. (*ii*) *Tiger cub* (male) arrived in very poor condition with severe injuries all over the body. He readily responded to treatment and was restored to condition. (*iii*) *Jaguar* sustained severe injuries on the fore leg with muscles torn into pieces involving fracture of bones. After prolonged treatment discharged cured. (*iv*) *Giant Salamandar*—It was keeping quite fit so long, but all on a sudden it went off feed and a day later died of acute Enteritis. (*v*) *Tigress* "Maji"—As a result of relapse of Pneumonia she succumbed to death. (*vi*) *Tigress* "Rani" after a protracted illness died of Necrosis of Liver. (*vii*) *Lesser Bird of Paradise* (female)—Born in the Zoo in 1941, had bad moulting associated with arthritis and gradually lost her condition and died. (*viii*) *Tiger cub*—(*a*) The first cub born to "Nargis" was a still-born one, (*b*) the second cub born to "Rani" was not nursed by mother, hand feeding was resorted to but without success. (*ix*) *Swamp Deer calf* (male)—It showed symptoms of Retention of Urine. Autopsy revealed a suppurative abscess in the urinary bladder. (*x*) *Barbary Sheep* (female)—had Dystokia (posterior presentation); she was immediately relieved of the dead kid by manual traction.

Post-mortem examination having been made of all specimens that died during the year the findings have been recorded as usual. In some cases the help of the Principal, Bengal Veterinary College, was obtained for detailed pathological examination.

Deaths.—The Garden sustained a serious loss in the death of two breeding tigresses "Rani" and "Maji". Apart from the most regretted losses of some of our old and valuable exhibits the death rate is lower than the previous year. The noteworthy casualties are *Mammals*—2 Tigresses, 1 Himalayan Bear, 1 Barbary Sheep, 1 Bennet's Wallaby; *Birds*—4 Nicobar Pigeons, 1 Roseate Cockatoo, 1 Red and Blue Macaw, 1 Argus Pheasant, 4 Mute Swans, 1 Stanley Crane, 3 Black Swans, 1 Lesser Bird of Paradise; *Reptiles*—1 Elephantine Land Tortoise, 3 Baby Pythons; *Amphibian*—1 Giant Salamandar.

Infectious Diseases.—There was no serious outbreak of contagious or infectious diseases during the year under report. Some stray cases of Avian Pasturulosis have been recorded for which every precaution was adopted to check the spread of the malady and stamp it out at once.

Thanks are due to Major J. M. Lahiri, M.R.C.V.S., F.Z.S., Principal, Bengal Veterinary College, for his prompt help and co-operation and valuable advice in various matters relating to animal health and hygiene.

R. K. LAHIRI

Superintendent

APPENDIX A

Abstract Financial Statement for the year ended 31st December 1951

RECEIPTS

		Rs.	a.	p.
1.	Balance brought forward from last calendar year's account ..	8,246	4	0
2.	Balance due to unspendable expenditure shown as liabilities in 1950 ..	30,327	4	0
3.	Subscriptions and donations	275	0	0
4.	Interests	2,629	10	0
5.	Rent and license fees of stalls, etc.	19,212	5	0
6.	Government contribution	16,000	0	0
7.	Entrance receipts	1,94,739	6	0
8.	Miscellaneous receipts	15,926	0	0
9.	Corporation grant equivalent to rates and taxes for 1949-50 and 1950-51 ..	62,262	0	0
	Total ..	3,49,617	13	0

EXPENDITURE

1.	Establishment, salaries, etc.			56,816	10	0
2.	Establishment, allowances			44,726	9	9
3.	Food of animals			86,964	9	9
4.	Miscellaneous			16,786	13	6
5.	Garden constructions (seeds, plants, etc.)			1,307	2	9
6.	Purchase and transport of animals			12,996	3	3
7.	Repairs—					
	(a) Roads	96	5	0		
	(b) Buildings, etc.	26,836	15	3		
				26,933	4	3
8.	Original constructions			4,000	0	0
9.	Garden's contribution to employees Provident Fund and Government Pension Fund			3,100	3	0
10.	Investment (investment of Rs. 10,000 included in last year's list) ..			....		
11.	Corporation rates and taxes in adjustment of Corporation grant ..			62,262	0	0
	Add Liabilities—			3,15,893	8	3
		Rs.	a.	p.		
	For purchase and transport of animals	10,000	0	0		
	For works	5,000	0	0		
	For materials and labour ..	2,000	0	0		
	For sundries	3,000	0	0		
				20,000	0	0
				3,35,893	8	3
	Balance in favour of the Garden			13,724	4	9
	Total ..			3,49,617	13	0

Reserve Fund

		Face value. Rs. a. p.
1.	3 per cent. Conversion Loan of 1946 (in custody with Reserve Bank) ..	6,800 0 0
2.	3 per cent. Conversion Loan of 1946 (in custody with Imperial Bank) ..	26,900 0 0
3.	3 per cent. Victory Loan (in custody with Imperial Bank) ..	17,900 0 0
4.	3 per cent. G. P. Notes 1896-97 (in custody with Imperial Bank) ..	15,500 0 0
5.	Permanent advance with Gate Clerks (Rs. 10) and Store-keeper (Rs. 290)	300 0 0
6.	Imperial Bank General Fund account	578 4 4
	Total ..	67,978 4 4

Other Funds

Repair and Reconstruction Fund at the Imperial Bank

	Rs. a. p.		Rs. a. p.
1. Balance brought forward from last calendar year's account ..	1,140 14 0	Paid during 1951 for works in progress, etc.	9,820 4 0
2. Transfer from General Fund at Treasury for works in progress ..	20,000 0 0	*Balance on 31st December 1951 ..	11,320 10 0
*Total ..	21,140 14 0	Total ..	21,140 14 0

General Fund at the Imperial Bank

	Rs. a. p.
(a) Food contractors' security deposit (refundable and forfeited) ..	5,100 0 0

Animal Purchase Fund at the Imperial Bank

	Rs. a. p.
1. Deposit for purchase of animals on behalf of or for exchange with other Zoos as on 31st December 1951	16,225 10 8

Employees' Provident Fund

Employees' Provident Fund Savings Banks account at Alipore Post Office ..	9,296 9 0

*This sum is reserved for construction of bridge and houses for which tenders have been called for.

APPENDIX B

Summary of Visitors and Gate Receipts

1951	Paying visitors	Entrance receipts	Free-day visitors	Students admitted free of charge
		Rs. a. p.		
January	223,853	27,981 6 0	7,047	854
February	119,409	14,926 2 0	4,579	1,039
March	125,642	15,705 4 0	4,279	1,064
April	96,279	12,035 2 0	3,669	382
May	83,315	10,414 6 0	4,380	100
June	102,017	12,752 2 0	4,870	148
July	130,148	16,269 0 0	5,291	128
August	88,212	11,026 8 0	3,298	477
September	96,608	12,076 0 0	3,928	250
October	172,453	21,568 2 0	4,082	32
November	110,918	13,865 4 0	4,835	515
December	208,958	26,120 2 0	7,912	2,676
Total ..	15,57,812	1,94,739 6 0	58,080	7,665*

APPENDIX C

Staff of the Gardens

Superintendent	Sri R. K. Lahiri, M.Sc., G.V.Sc.
Deputy Superintendent ..	Sri S. N. Chatterjee, M.Sc.
Store-keeper	Sri T. C. Chatterjee.
Accountant	Sri G. C. Auddy.
Veterinary Assistant	Sri S. N. Sarkar, G.V.Sc.
Clerk	Sri N. G. Mukherjee.
Clerk-Typists	Sri A. K. Mukherjee, Sri R. N. Mitra, Sri A. Banerjee, Sri K. L. Mukherjee, Sri P. C. Dey, Sri T. P. Mukherjee, Sri B. Halder.

Interior staff (permanent and temporary)

3 Jamadars.
31 Keepers.
2 Bhistees.
1 Food Distributor.
1 Cook.
3 Cycle Peons.
15 Durwans and Chaprasis.
1 Methar.
2 Methranis.
1 Head Mali.
3 Mate Malis.
3 Malis.
37 Coolies.
1 Carpenter.
1 Mason.
1 Mason Cooly.
1 Plumbing Mistry.

The services of a part-time Medical Officer for giving medical aid to the staff was continued throughout the year.

Plus Season Pass for 32 and 25 students and teachers of Indian and Government Art Schools.

APPENDIX D

List of Donors of Animals

Abedin, Janab Sk. Joynal, 6 Scorpions.
Adhikary, Sri Dulal Ch., 1 Scorpion.

Banerjee, Mrs. E. A. R., 5 Eastern Rose-ring Parrakeet.
Barua, Sri Dwijendra Nath, 1 Domestic Fowl.
Benjamin, Mr. R., 1 Jungle Bush Quail.
Bharat Jute Mills Ltd., Manager, 1 Indian Antelope, 1 Spotted Deer.
Biological Supply Concern, Manager, 2 White Storks.
Biswas, Dr. K. P., M.A., D.Sc. (Edin.), F.R.S.E., F.N.I., 1 Rhesus Monkey.
Biswas, Sri P. K., 17 Guineapigs.
Biswas, Sri S. N., 1 Rhesus Monkey.
Burman, Sri Botu, 1 Rhesus Monkey.

Chakravarty, Sri Nandeswar, 1 Leopard, 1 Python (baby).
Chatterjee, Sri L. N., 1 Rabbit.
Chatterjee, Sri R. N., J. P., 4 Rabbits.

Das, Sri Kalipado and Dey, Sri Bijoy Kumar, 1 Fishing Cat.
Das, Sri Sudhir Ch., 1 Marsh Crocodile.
Director, Department of Anthropology, Indian Museum, 1 Himalayan Bear cub.
Dragon, P. and S., 2 Rabbits.
Dutta, Sri Deba Prosad, 1 Common Goose.
Dutta, Sri Hiranmoy, 1 Striped Hyeana cub.

Ghosal, Mrs. A., 1 Rose-ring Parrakeet.
Ghose, Sri Bimal Kumar and Dr. S. N., 1 Sloth Bear cub.
Ghose, Sri Provat Ch., 1 Common Peafowl.
Ghose, Sri T. N., Superintendent of Police, Gaya, 1 Tiger cub (male).
Gordan, Major J. W. C., 1 Rhesus Monkey.
Governor's State, Superintendent, 1 Rhesus Monkey.
Gramophone Co. Ltd., Assistant Factory Manager, 4 Rhesus Monkeys, 2 Indian Palm Civets.
Gregory, Mr. G., 1 Sloth Bear cub.
Guise, Mr. P. E. C., 1 Sambar Deer.

Ismail, Janab Md., 1 Spotted Deer.

Kapur, Sri P. C., 1 Leopard cub.

Law, Dr. S. C., 2 Himalayan Treepie, 4 Indian Black Gorgeted Laughing Thrush, 2 Black-headed Sibia, 2 White-eared Bulbuls, 2 White-cheeked Bulbuls, 2 Brown-eared Bulbuls, 2 Common Babblers, 1 Red-billed Blue Magpie, 95 Pigeons and Doves, 2 Greater Flamingoes.

Manipur, D. F. O., 1 Himalayan Bear cub.
Markleng, Mr. A. B., 2 Rhesus Monkeys.
Mazumdar, Sri Sailendra Nath, 1 Barn Owl.
Middey, Sri Panchanan, 2 Fishing Cats (young).
Milne, Mr. J., 1 Tortoise.
Mittra, Sri Manindra Nath, 1 Rhesus Monkey.
Mittra, Sri Probodh, 1 Mongoose.
Mondal, Sri Jaladhar, 1 Common Otter.
Mukherjee, Sri R. N., 1 Leopard cub.
Mukherjee, Sri Surath Nath, 1 Indian Palm Civet.

ar, Sri Bhupal Ch., 1 Russell's Viper.
kdah, Subdivisional Magistrate, 1 Leopard cub (female).
, Mrs. Goh Kimi, 1 Sloth Bear cub.
d, Sri Mohabir, 17 Guineapigs.
n, Dr. H., M.B., 1 Common Peafowl.
sthan Government, 2 Tiger cubs.
chand, Sri H., 1 Ceram Lory.
Sri U. Sankar, 1 Canary.
Sri Atul Ch., 2 Marsh Crocodiles.
l Agri-Horticultural Society, Assistant Secretary, 2 Jackals.
ukhan, Sri Harendra Nath, 1 Spotted Deer.
Samanta, Sri Adhor Ch., 1 Rhesus Monkey.
Shr , Sri P. C., 1 Indian Pangolin.
, Sri Ramsarup, 1 Langur.
a, Mrs. S. K., 1 Blossom-headed Parrakeet.
, Sri Biswajit, 7 Rabbits.
n, Sri Gokul Ch., 1 Wart Snake.
Mazumder & Co., Messrs., 2 Leopard cubs.
rtoff, Mrs. Z. A., 1 Jackal, 1 Tortoise.
kata, Sri Sailen, 1 Indian Palm Civet.
dava, Sri Shibsagar Prosad, 1 Rhesus Monkey.

BGP-51/2-10-63D-40

222 (5)