



ZOOLOGICAL GARDEN ALIPORE KOLKATA

ANNUAL
REPORT
2022-23



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01

Report from the Director's Desk

The Annual Report of the Zoological Garden, Alipore, Kolkata for the year 2021-2022 is published with a hope of sustainable development. This Zoo has achieved tremendous successes on captive breeding of different types of deer e.g Brow-antlered Deer, Barking Deer, Spotted Deer etc, marsh crocodile, wild dog, lutino parakeet, yellow anaconda, monitor lizard etc. Many of these animals belong to Schedule-I under Wildlife (Protection) Act, 1972 and are listed in IUCN Red List.

Constant sincere effort was made to maintain the animal health of the Zoo. Besides a Zoo Biologist, a Research Assistant and Zoo Educator were appointed during this financial year to monitor the records, enclosure enrichment, and behavioral data of the inmates etc. and fulfill educational objectives of the Zoo respectively.

Fascinating greenery, gardening and landscaping added attraction to the visitors of the Zoo. This year the zoo was closed for a few months for Covid-19 restrictions. The annual footfall during the open months in 2021-2022 is around 13 lac.

The Annual Report for the year 2021 - 2022 of Zoological Garden, Alipore provides all zoo enthusiasts and others about various aspects of management as well as developmental activities undertaken in the Zoo. I am optimistic that Zoological Garden, Alipore will continue to develop and grow as one of the best managed Zoos of the country.

I extend my sincere thanks to Sri Vivek Kumar, IAS, addl. Chief Secretary, Department of Forests, Government of West Bengal, Sri Debal Roy, IFS, Principal Chief Conservator of Forests, Wildlife and Chief Wildlife Warden, Govt. of West Bengal, Sri Saurabh Chaudhuri, IFS, Addl. Principal Chief Conservator of Forests and Member Secretary, West Bengal Zoo Authority and also all senior officers of Department of Forests, Government of West Bengal and Central Zoo Authority for their support and co-operation in successfully managing the Zoological Garden, Alipore in a best possible manner under the given situation. I also extend my thanks to all the officers and staffs of the Zoological Garden, Alipore for their immense support in managing zoo in best possible manner.

Director
Zoological Garden, Alipore

02

History of the Zoo

Since its founding on September 24, 1875, the Alipore Zoological Garden has gone through numerous phases. Initially, the inhabitants of Kolkata were generous in their support of the Zoo's establishment, both financially and by donating animals from their own collections to the Zoo.

After then, land development began, and animal homes were built to house the animals. The first animal house built within the Zoo was "Mullick House," which was funded by Raja Rajendra Mullick Bahadur, the first Indian patron. This house was home to fowls and pheasants, which began breeding as early as February 1876. Following Mullick House, Burdwan House, now known as an open-air moated enclosure for lions, was built at a cost of Rs.35,000/-, with the Maharaja of Burdwan donating the entire sum. Other animal houses/enclosures developed over time, each bearing the name of a kind donor.

Schwendler and the famed botanist George King served on an honorary governing committee that oversaw the park's early operations. Ram Brahma Sanyal, the zoo's first Indian superintendent, did much to boost the zoo's reputation and achieved good captive breeding success at an era when such

endeavours were uncommon. A live birth of the rare Sumatran Rhinoceros in 1889 was one of the zoo's many successes. The following pregnancy in captivity took place in 1997 at the Cincinnati Zoo, but it resulted in a miscarriage. In 2001, the Cincinnati Zoo finally reported a live birth. Sanyal, who published the first handbook on captive animal keeping, made Alipore Zoo a pioneer among zoos in the 19th century and early part of the 20th century. For its time, the zoo had an extraordinarily high scientific quality.

After the establishment of Central Zoo Authority in India in the year 1992, open air moated enclosures for primates, white tiger, Indian elephants, Indian lions and mugger, gharial & salt water crocodile were constructed with the financial help of Central Zoo Authority. During this period, remodeling of open-air moated enclosure for hippopotamus was also carried out with the financial assistance of Government of West Bengal.

Since shifting of management of the Zoological Garden, Alipore from the Management Committee to the West Bengal Zoo Authority in the month of August, 2009, several developmental activities started at the Zoo and because of those activities face of the zoo changed enormously. Several outlived animal house like "Echidna House", "Balaram House", "Kiosk House", "Jungle Fowl Enclosure", "Cat Cage", "Leanto Shed" etc. were demolished and new enclosures are built. Also, species specific enrichment work has been done for different enclosures.

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About Us

Sl. No.	Particulars	Information
Basic Information About the Zoo		
01	Name of the Zoo	Zoological Garden, Alipore, Kolkata
02	Year of Establishment	1875
03	Address of the Zoo	2 No. Alipore Road, Kolkata-700027, West Bengal, India
04	State	West Bengal
05	Telephone Number	+913329701936
06	Fax Number	+913324791585
07	E-mail Address	Director : director@kolkatazoo.in Deputy Director : dydir@kolkatazoo.in Assistant Director : astdir@kolkatazoo.in
08	Website	http://www.kolkatazoo.in
09	Distance from nearest	Airport : 17.4 km, Railway, Station : 7 km, Bus Stand: 0 km
10	Recognition valid up to (Date)	19.08.2023
11	Category of the Zoo	Medium
12	Area (in Acre)	18.81 Ha.
13	No. of Visitors (Financial Year)	Adult : 2846735 Children : 253792 Total Visitors : 3100527 Aquarium Visitors: 71261
14	Visitors Facilities Available in Zoo	Proper Toilets, Resting Sheds at different locations, Decorative Benches, Drinking Water, Child Care Centre etc.

15 Weekly Closure Day of the Zoo Thursday

Management Personnel of the Zoo

16 Name with Designation of the Officer-in-Charge Sri Asis Kumar Samanta, IFS, Chief Conservator of Forests & Director (01.04.2022 to 30.11.2022) and Sri Tapas Das, IFS, Chief Conservator of Forests & Director (01.12.2022 till date)

Name of the Deputy Director Dr. Piyali Chattopadhyay

Name of the Assistant Director Sri Partha Debnath, WBFS

Name of the Veterinary Officer Dr. Chayan Bhattacharya, Dr. Arnab Majie, Dr. Santanu Shome, Dr. Debkumar Das

Name of the Curator -----

Name of the Biologist Sri Samya Basu

Name of the Dietician/Kitchen Supervisor Smt. Runia Ghatak

Name of the Zoo Educator Smt. Rupsha Brahmachari

Name of the Education Assistant -----

Name of the Research Assistant Ms. Sayani Maji

Name of the Veterinary Assistant Sri Sanjit Pandit

Owner/Operator of the Zoo

17 Name of the Operator Addl. Chief Secretary to the Govt. of West Bengal, Department of Forests, Government of West Bengal

18 Address of the Operator Aranya Bhawan, Block-LA-10A, Sector-III, Salt Lake City, Kolkata-700106, West Bengal

21 Contact Details/Phone numbers of Operator Phone: +913323355011 (EPABX), 033-2335-8755 FAX: +913323350012

22 E-mail Address of Operator mswbza@gmail.com, wbzooauthority@yahoo.in

04

Vision

“

To provide future direction for modernization & up gradation of the Zoological Garden, Alipore to such extent that in spite of being one of the oldest Zoos of India , it can be at par with one of the best Zoos of the

country. For that purpose the available resources, planned breeding, research etc. would be the essential tools keeping in mind the constraints, limitations and inherent challenges of an old Zoo.

”



05

Mission

“

The mission of the Zoological Garden, Alipore is “Conservation of wild animals from India and abroad with special reference to the wet land fauna and

education & research for sustainable conservation of wild fauna which are under severe threat due to biotic interference”.

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06

Objectives of the Zoo

It is intended to develop this zoo on modern lines in conformity with the National Zoo Policy, 1998 with the following objectives in mind:

i) Make Alipore Zoo a conservation breeding centre of prominence in India with

focus on species of the region with special emphasis on wetland fauna.

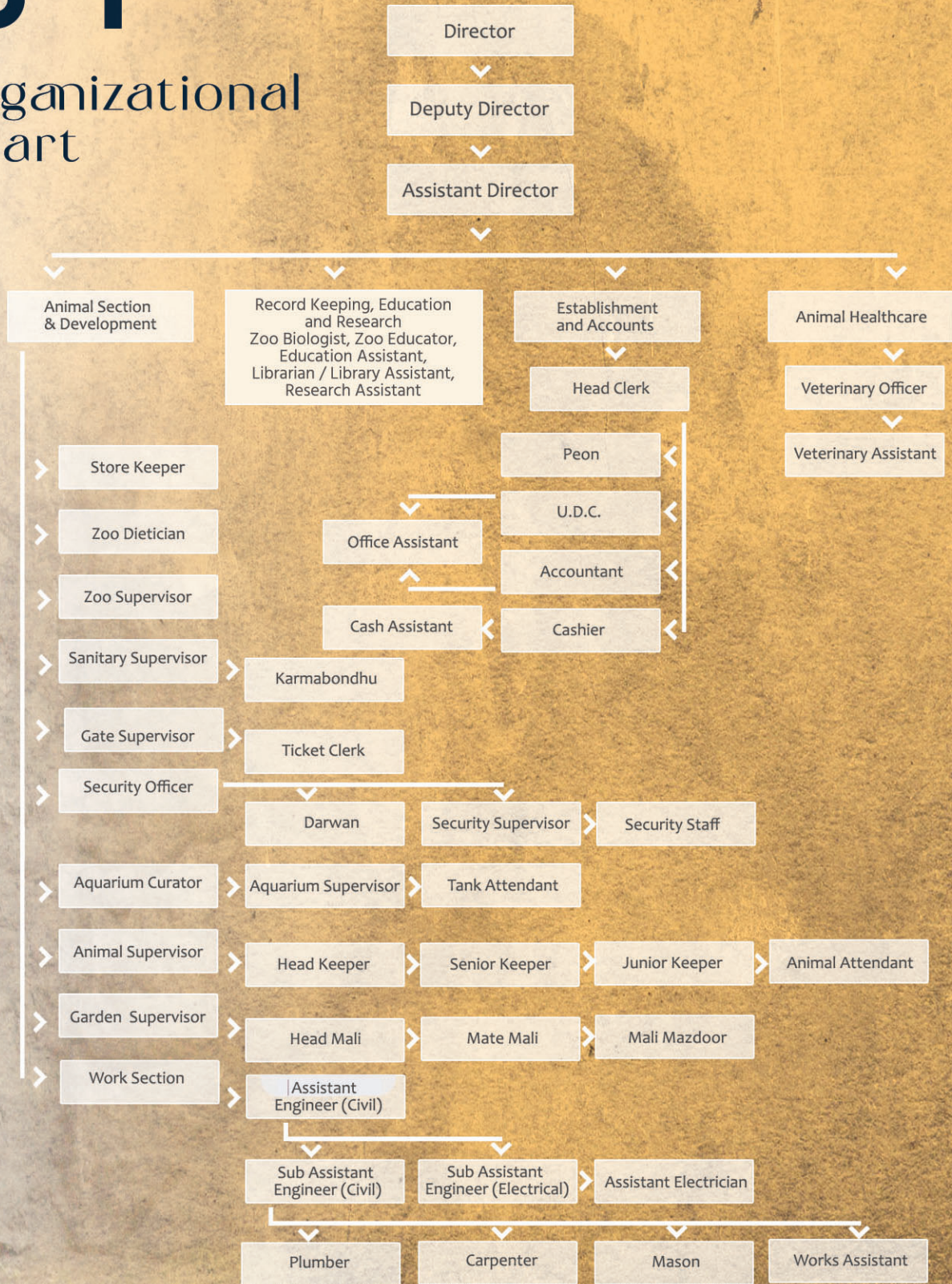
ii) Make the zoo a centre for conservation and awareness for the visiting public, particularly the young ones, taking advantage of the large visitation of the metropolis and the surrounding region.

iii) To initiate and conduct the research on wildlife in captivity and to disseminate the results thereof to other captive animal facilities for conservation of animals in this wild.





Organizational Chart



Note:- Security personnel and cleaning personnel deployed through outsourcing agency.

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Human Resource

Manpower of the Zoological Garden, Alipore

Sl. No.	Designation	Number of Sanctioned Strength	Number of Registered Strength
01	Director	1	1
02	Deputy Director	1	1
03	Asst. Director	1	1
04	Zoo Biologist	1	1
05	Dietician/Kitchen Supervisor	1	1
06	Zoo Educator	1	1
07	Education Assistant	1	Nil
08	Head Clerk	1	1
09	Accountant	1	1
10	Stenographer	1	1
11	Cashier	1	1
12	Upper Division Clerk	5	3
13	Store- Keeper	1	1
14	Lower Division Clerk	7	0
15	Demonstrator	1	0
16	Assistant Demonstrator.	1	0
17	Cash Collecting Sarkar	1	0
18	Librarian	1	0
19	Assistant Librarian	1	1
20	Gate Supervisor	2	1
21	Ticket Clerk	16	12
22	Asst. Engineer	1	1
23	Sub-Assistant Engineer (Civil)	2	1



24	Sub-Assistant Engineer (Electrical)	1	1
25	Works Assistant	2	0
26	Fitter	1	0
27	Carpenter	1	0
28	Assistant Wireman	1	1
29	Mason	1	1
30	Pumpman	1	0
31	Veterinary Surgeon	3	3
32	Technical Assistant	1	0
33	Field Assistant	1	0
34	Peon	7	6
35	Sweeper	5	3
36	Label Writer	1	0
37	Animal Supervisor.	2	2
38	Head Keeper	4	4
39	Senior Keeper	6	6
40	Junior Keeper	54	54
41	Head Mali	1	1
42	Mate -Mali	3	3
43	Mali Mazdoor	60	18
44	Head Durwan	3	2
45	Mate Durwan	3	1
46	Durwan	60	1
47	Curator of Aquarium	1	0
48	Aquarium Supervisor	1	0
49	Tank Attendant	6	2

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Capacity Building of Zoo Personnel

Sl. No.	Name and Designation of Zoo personnel	Subject Matter of Training	Period of Training	Name of the Institution where the training attended
1	Zoo Biologist, Dietitian, Research Assistant, Zoo Keeper	Nutrition & Diet and early detection of diseases through visual; symptoms of Cockatoo, Macaw, Grey Parrot and Lorry	07.12.2022	Zoological Garden, Alipore
2	Zoo Educator	National Capacity Enhancement workshop for Education Officers	15.02.2023 to 17.02.2023	Veer mata Jijabai Bhosale Udyan and Zoo
3	Zoo Keepers from different zoos of West Bengal	Regional workshop for Capacity Enhancement of Zoo Keepers.	21.02.2023 to 23.02.2023	Zoological Garden, Alipore
4	Scientific staff of different zoos in West Bengal	Workshop on animal tagging MIS handling	17.03.2023 to 18.03.2023	Zoological Garden, Alipore
5	Zoo Biologist	Capacity Enhancement Workshop for Zoo Biologists	21/03/2023 to 23/03/2023	Greens Zoological Rescue and Rehabilitation Centre, Jamnagar
6	Officials and Staff of the Zoo including zoo keepers and security personnel	Workshop on First Aid	25.03.2023	Zoological Garden, Alipore



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Zoo Advisory Committee

a. Date of constitution : Governing Body constituted as on 23.12.2009

b. Members:

- | | |
|--|-----------------|
| 1. Chief Secretary to the Govt. of West Bengal, | Chairman |
| 2. Addl. Chief Secretary, Dept of Forest, Govt. of West Bengal, | Vice Chairman |
| 3. Principal Chief Conservator of Forest & Head of Forest Force, Govt. of West Bengal. | Member |
| 4. Principal Chief Conservator of Forest & Chief Wild Life Warden, Govt. of West Bengal. | Member |
| 5. Member Secretary, West Bengal Zoo Authority | Member |
| 6. Director, PNHZP | Member |
| 7. Director, Zoological Garden, Alipore | Member |
| 8. Director Animal Health Veterinary Science, West Bengal | Member |
| 9. Additional Secretary, Dept. Of Forest | Special Invitee |

c. Dates on which Meetings held during the year:



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Health Advisory Committee

a. Date of constitution: 01.02.2018

b. Members:

- | | |
|---|----------|
| 1. Joint Secretary, ARD, IAH & VB Kolkata | Chairman |
| 2. Veterinary Officer, ARD, IAH & VB | Member |
| 3. Specialist ARD, IAH & VB | Member |
| 4. Assistant Director, ARD, IAH & VB | Member |

c. Dates on which Meetings held during the year:



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Profit & Loss A/c

WBZA - Zoological Garden, Alipore
Income and Expenditure Statement(UNAUDITED)
1-Apr-2022 to 31-Mar-2023

WBZA - Zoological Garden, Alipore 1-Apr-2022 to 31-Mar-2023		WBZA - Zoological Garden, 1-Apr-2022 to 31-Mar-2023	
Particulars		Particulars	
Direct Expenses	82829565.00	Direct Incomes	160001125.76
Plan Expenditures	82829565.00	Gate Collection	157770661.76
Indirect Expenses	102170651.52	Other Collections	49464.00
Non - Plan Expenditures	102170651.52	Scheme Incomes	2181000.00
Excess of income over expenditure		Indirect Incomes	24999090.76
		Interest Income	312345.00
		Other Incomes	78260.00
		Reimbursement From Employees	
		Transfer of Utilized Funds	24608485.76
Total	185000216.52	Total	185000216.52



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Daily Feed Schedule of Animals

SL NO	SPECIES	FEED ITEM	QUANTITY (Kg.)/number per individual.		Day of Fasting
			Summer	Winter	
1.	Giraffe	Concentrated feed	4.85	4.85	No fasting day
		Sweet potato & carrot	4	4	
		Banana	3.5	3.5	
		Apple	2.5	2.5	
		Oranges	4	4	
		Green fodder & cut branches	10	10	
2.	Zebra	Concentrated feed	3.8	3.8	No fasting day
		Sweet potato & carrot	2.0	3.25	
		Hay grass	4.0	1.2	
3.	Barking Deer	Concentrated feed	0.4	0.6	No fasting day
		Sweet potato & carrot	0.3	0.3	
		Green fodder	0.3	1.3	
4.	Spotted Deer	Concentrated feed	0.7	1.5	No fasting day
		Sweet potato & carrot	0.2	0.8	
		Green fodder	0.2	4	
5.	Brow Antlered Deer	Concentrated feed	0.8	3	No fasting day
		Sweet potato & carrot	0.7	0.6	
		Green fodder	0.7	3	
6.	Sambar Deer	Concentrated feed	2.6	2.6	
		Sweet potato & carrot	1.5	1.5	
		Green fodder	0.6	4	
7.	Black Buck	Concentrated feed	0.7	1	No fasting day
		Sweet potato & carrot	0.2	1	
		Green fodder	0.2	2	
8.	Swamp Deer	Concentrated feed	3	3	No fasting day
		Sweet potato & carrot	1.0	0.8	
		Green fodder	0.3	2	
9.	Rhino	Concentrated feed	1.7	8	No fasting day
		Sweet potato & carrot	10	10	
		Green grass	20.0	40	
		Banana	5	4	
		Sugarcane Top		15	
10.	Hippo	Concentrated feed	10	10	No fasting

	Sweet potato & carrot	3.0	1.5	day
	Green grass	27	33	
11. Elephant	Rice	2.5	1.25	No fasting day
	Soaked gram	0.75	0.75	day
	Paddy	0.5	0.5	
	Lentil	1	1	
	Fodder	50.0	50	
	Sugarcane Top	70.0	37	
	Banana	5	5	
12. Bear	Rice	0.5	0.5	No fasting day
	Wheat	0.3	0.3	
	Milk	0.5	0.5	
	Molasses	0.25	0.25	
	Honey	-	0.1	
	Sour Curd	0.25	-	



13.	Chimpanzee	Complan	2 tsp with 0.5kg milk & sugar	2 tsp with 0.5kg milk & sugar	No fasting day
		Bread	½ pound	½ pound	
		Musumbi	0.3	0.3	
		Apple	0.5	0.5	
		Banana	6	2	
		Dry fruits	0.1	0.1	
		Carrot & sweet potato	0.4	0.8	
		Lettuce	0.1	0.1	
	Other Vegetables	1	1		
14.	Marmoset	Lactogen	0.005	0.005	No fasting day
		Glucose powder	0.002	0.002	
		Banana(Kanthali)	0.1	0.1	
		Apple	0.01	0.01	
		Cucumber	0.005	0.005	
		Orange	0.005	0.005	
		Soaked gram	0.030	0.030	
		Bread	0.25	0.25	
		Boiled egg	1/3 daily	1/3 daily	
			Grapes & raisins	0.010	
15.	Nilgai	Concentrated feed	3.0	3.5	No fasting day
		Sweet potato & carrot	0.5	0.5	
		Green grass	3	3	
		Paddy straw	1	1	
16.	Porcupine	Sweet potato & carrot	0.2	0.2	No fasting day
		Pumpkin	0.050	0.050	
		Soaked Gram	0.075	0.075	
		Bread	¼ pound	¼ pound	
		Banana	0.1	0.1	
		Other Vegetables	0.150	0.150	
17.	Kangaroo	Apple	0.50	0.50	No fasting day
		Banana	5 Nos.	5 Nos.	
		Guava	0.20	0.20	
		Soaked Chhola	0.10	0.10	
		Beans	0.050	0.050	
		Watermelon	0.500	0.500	
		Molasses	0.050	0.050	
		Green Grass	adlib	Adlib	
	Glucon D	0.010	0.010		
19.	Tiger	Buffalo meat	8.5	11.5	Thursday
20.	Lion	Buffalo meat	8.5	10.5	Thursday
21.	Leopard	Buffalo meat	6.0	7.0	Thursday
22.	Jaguar	Buffalo meat	5.0	6.0	Thursday
23.	Hyena	Buffalo meat	4.0	7.0	Thursday
24.	Jackal	Buffalo Meat	1.25	1.5	No fasting day

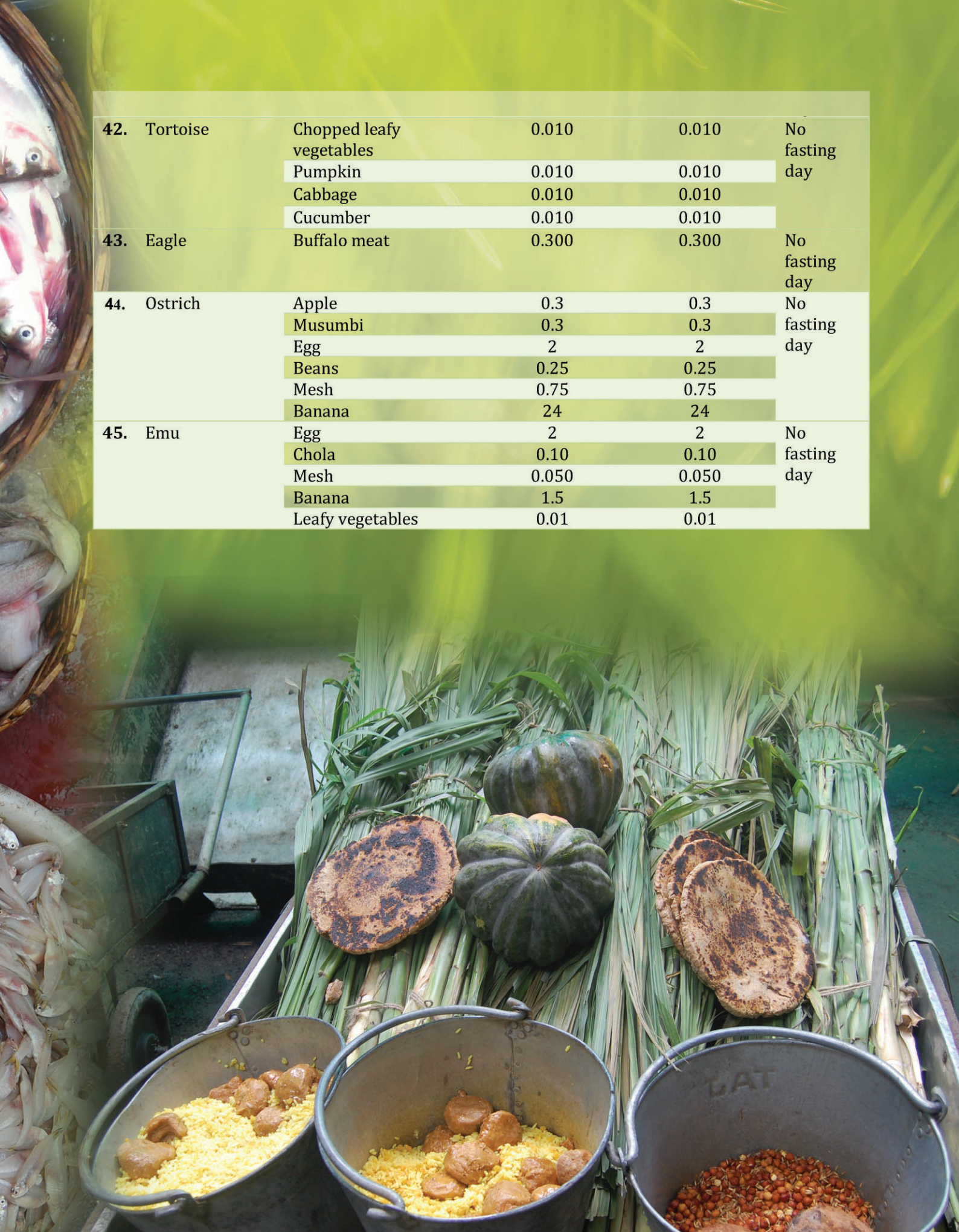


26.	Jungle Cat	Buffalo Meat	0.6	1.5	No fasting day
27.	Fishing Cat	Live fish	0.75	1	No fasting day
28.	Crocodile	Live Fish	3.0	-	3 days a week
29.	Reptiles	Frogs, snakes etc	6 nos.	-	Given only on Thursday
30.	Monitor Lizard	Fish	0.75(on Friday)	-	
31.	Birds of Psittacidae Family	Soaked maize & gram	0.050	0.050	No fasting day
		Sunflower seed	0.025	0.025	
		Kusum seed	0.025	0.025	
		Ground nut (Roasted)	0.050	0.050	
		Sugar cane	0.050	0.050	
		Fruits	0.100	0.100	
32.	Hill Moyna	Fruits	0.150	0.150	No fasting day
33.	Adjutant stork	Fish(silver carp)	1.0	1.0	No fasting day
35.	Mandarin Duck	Boiled maize	0.100	0.100	No fasting day
		Chicken mash	0.025	0.025	
		Boiled rice	0.025	0.025	
		Leafy vegetables	0.050	0.050	
		Egg	1 piece	1 piece	
		Chhattu	0.030	0.030	
36.	Pheasant	Soaked gram	0.020	0.020	No fasting day
		Soaked maize	0.020	0.020	
		Crushed maize	0.025	0.025	
		Chattu	0.010	0.010	
		Minced meat	0.020	0.020	
		Ants egg	0.020	0.020	
		Boiled egg	½ piece	½ piece	
		Leafy vegetables	0.025	0.025	
		Pumpkin, onion, garlic	0.050	0.050	
37.	Black swan	Gram	0.050	0.050	No fasting day
		Paddy	0.050	0.050	
		Bajra	0.030	0.050	
		Red leaf	0.050	0.050	
38.	Horn bill	Egg	1	1	No fasting day
		Chattu	0.050	0.050	
		Minced meat	0.050	0.050	
		Fruit mixture	0.100	0.100	
39.	Rosy pelican	Fish	0.500	0.500	No fasting day
40.	Painted Stork	Fish (fingerling)	0.500	0.500	No fasting day





42.	Tortoise	Chopped leafy vegetables	0.010	0.010	No fasting day
		Pumpkin	0.010	0.010	
		Cabbage	0.010	0.010	
		Cucumber	0.010	0.010	
43.	Eagle	Buffalo meat	0.300	0.300	No fasting day
44.	Ostrich	Apple	0.3	0.3	No fasting day
		Musumbi	0.3	0.3	
		Egg	2	2	
		Beans	0.25	0.25	
		Mesh	0.75	0.75	
		Banana	24	24	
45.	Emu	Egg	2	2	No fasting day
		Chola	0.10	0.10	
		Mesh	0.050	0.050	
		Banana	1.5	1.5	
		Leafy vegetables	0.01	0.01	



14

Vaccination / Chemo-prophylactic schedule



Sl No	Species	Disease/ organism	Name of vaccine/ drug	Frequency	Route
1	Big cats	Trypanosomiasis	Inj Triquin	Twice in year	S/C
2	Elephants	Foot & mouth disease	Inj rakshaovac	Twice in year	I/M
3	Big cats	Canine distemper	Inj purevax ferret (DNA recombinant vaccine)	0 day, 21 day, 42 day then twice in year	S/C
4	Bigcats (young)	Feline calci virus, feline rhinotrachitis and Feline Panleukopaenia virus	Inj Feligen CRP	Primary vaccination with booster	S/C
5	Birds*	Ranikhet Disease	Ranikhet B1/F1 strain vaccine	0 & 6 week	through drinking water with addition of skim milk powder and ice as per dose
			Ranikhet Strain R2B	4 weeks after B1/F1 strain. Then Annually	S/C
6	Wild Dogs and Hyena	Canine Distemper Parvovirus parainflunza, Leptospirosis	DHPP12	Once in a year	S/C

*NB – 28 days after R2B Vaccination, immune status survey conducted once in a year.

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Clinical Investigation

1. All Animals and Birds : Kit test for Tuberculosis
2. Ante Mortem Sample : Detection of fungal and bacterial organism
3. Post Mortem Sample : Detection of fungal and bacterial organism
4. Faecal Sample : Parasitological Study



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Non-Clinical Investigation

1. Bacterial & Fungal Estimation in Buffalo meat
2. Bacterial & Fungal Estimation in Maize dust etc.





Deworming schedule

Sl No	Name of the species	Drug used and route	Frequency
1	Carnivores	Praziquantel, pamoate; oral Pyrental	Quarterly in recommended dose.
2	Herbivores & primates	Fenbendazole/ ivermectin / Albendazole; oral Rafoxomide, oral	Twice in year as required in recommended dose.
3	Reptiles (Python & Indian rat snake)	Albendazole/Ivermectin; oral and injectible	Once in year with recommended dose.
4	Birds	Fenbendazole/Ivermectin / Albendazole; oral	Twice in year with recommended dose.



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Disinfection Schedule

SPECIES	Site of use	COMPOUND USED	method	FREQUENCY
Herbivores	Entrance	2% KMno4 Solution	Foot Bath	Daily Changing
	Night Shelter Cum adjacent room/Space	Khorsolin Th Solution	@5ml/litre of water for cleaning	Twice in week
		Heating by Blow Lamp	Firing of all walls & nets of enclosure	Once in month
	Open area for animal roaming	Virkon.S powder	@10gm/litre of water for spraying	Once in month
	1)Night Shelter Cum adjacent room/Space 2)Open area for animal roaming	Deltamethrin 1.25% solution spray	@2ml/1lit water	Twice in a month
	Full enclosure area	Zenprotecil	@50 ml/10 lit water	Twice in a month (as and when required)
Carnivores	Entrance	2% KMno4 Solution	Foot Bath	Daily Changing
	Night Shelter Cum adjacent room/Space	Khorsolin Th Solution	@5ml/litre of water for cleaning	Twice in week
		Heating by Blow Lamp	Firing of all walls & nets of enclosure	Once in month
	Open area for animal roaming	Virkon.S powder	@10gm/litre of water for spraying	Once in month
	Full enclosure area	Zenprotecil	@50 ml/10 lit water	Twice in a month (as and when required)

Birds	Entrance	2% KMno4 Solution	Foot Bath	Daily Changing
	Night Shelter Cum adjacent room/Space	Khorsolin Th Solution	@5ml/litre of water for cleaning	Twice in week
		Heating by Blow Lamp	Firing of all walls & nets of enclosure	Once in month
	Open area for animal roaming	Virkon.S powder	@10gm/litre of water for spraying	Once in month
	Full enclosure area	Zenprotecil	@50 ml/10 lit water	Twice in a month (as and when required)
Reptiles	Entrance	2% KMno4 Solution	Foot Bath	Daily Changing
	Room	Heating by Blow Lamp	Firing of all walls & nets of enclosure	Once in month
	Full enclosure area	Zenprotecil	@50 ml/10 lit water	Twice in a month (as and when required)



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Development work carried out in the Zoo during the

Sl. No.	Description Of Work
1	Renovation and painting of different area inside garden at ZGA
2	Renovation of Structural sheet work at marmoset keepers' passage at ZGA
3	Renovation of Dumron House outside and inside wall at ZGA
4	Plumbing work of union room and marmoset enclosure and painting of main gate park fencing at ZGA
5	Renovation of underground drinking water line at natun bagan at ZGA
6	Renovation of new staff quarter of punna nad baghba room at ZGA
7	Renovation of birds cage keepers passage with white fibber sheet at ZGA
8	Renovation of gangway of chimpanzee back side cage at ZGA
9	Renovation of enclosure outside and road at natun bagan at ZGA
10	Renovation of sitting area with paver block beside NIC park and water dispenser paint at ZGA
11	Renovation of new and old pheasant house opposite hippo at ZGA
12	Renovation of C-II staff quarter Rakhi Jana and Staff Barrack at ZGA
13	Repairing of trolley, chimpanzee and open tiger gate and misc. work of ZGA
14	Renovation of pre-coated sheet and s.s. Railing in front of duck enclosure at ZGA
15	Renovation of Bear shelter room at hospital roof at ZGA
16	Renovation of squeeze cage at leopard enclosure and hospital at ZGA
17	Renovation of Bear enclosure rooms and gated at ZGA
18	Renovation of co-operative room at ground floor at ZGA
19	Renovation of staff quarter PVC door and sanitary works at ZGA
20	Repairing of gate for rhino , giraffe night shelter and Bengal tiger enclosure at ZGA

21	Repairing of pipeline near pump house at Hippo enclosure at ZGA
22	Renovation and painting of different area inside garden , vat , white peacock at ZGA
23	Renovation of pavement with 60mm paver beside giraffe ground and Opposite anaconda enclosure at ZGA
24	Renovation of Group-D new building staff quarter and PVC doors at ZGA
25	Renovation of boundary wall at back side of Swamp deer enclosure at ZGA
26	Renovation of Union room ground and 1st floor at ZGA
27	Renovation of pavement with 60mm paver block opposite Hoolock Gibbon at ZGA
28	Renovation of Visitors poly fibber rest shed at Jaguar enclosure at ZGA
29	Renovation of Pavement with cement concrete at superior quarter left side at ZGA
30	Renovation of Paver Block pavement near chimpanzee and passage of elephant enclosure and hippo passage iron sheet at ZGA
31	Renovation of staff complex chatal with cement concrete at ZGA
32	Renovation of cheep canteen beside begumbari entrance gate at ZGA
33	Renovation of road side wall near hippo with dholpur tiles and open restaurant paver block at ZGA
34	Renovation of Monkey passage enclosure and rest shed at ZGA
35	Renovation of staff quarter PVC door and sanitary works at ZGA
36	Misc. repairing works of staff quarter , zoo garden canteen and animal cages at ZGA
37	Renovation of monkey room floor extension at ZGA
38	Painting and other renovation works at restaurant at ZGA
39	Renovation with painting of hoolock Gibbon enclosure net at ZGA
40	Renovation of murshidabad house inside room for Iguana nursery and other work at ZGA
41	Renovation of Rhesus Monkey cage at ZGA
42	Renovation of Superior quarter left side lawn with 60mm Paver block at ZGA
43	Repairing of Boundary wall near Directors Quarter at ZGA
44	Renovation of Javan Langur cage with ms steel at ZGA
45	Renovation of New staff quarter of surinder Ram Block 3 Room 2 at ZGA
46	Renovation of Pigtail Monkey room at ZGA
47	Renovation and painting of Hoolock Gibbon moat at ZGA

48	Repairing of Schewlender , Pheasant , Nocturnal House Schewlender House moat wall at ZGA
49	Renovation of Paver Block pavement front hoolock gibbon math and N.S cage at ZGA
50	Renovation supply, fitting, fixing (ACP) wall cladding at macaw cage at ZGA
51	Renovation of stainless steel reeling in front of Wild Dog enclosure at ZGA
52	Renovation of mejor S C Dutta small cage , concrete bridge at ZGA
53	Renovation and painting of garden, Polka Tiles near restaurant at ZGA
54	Renovation and painting of monkey room cage , Pumo room and S.S Railing beside enclosure at ZGA
55	Renovation of Hippo enclosure night shelter with roof sheet at ZGA
56	Renovation of stainless steel railing in front of Jackal enclosure enclosure at ZGA
57	Painting of Schewlender House at ZGA
58	Reparing of Samber Deer night shelter and crawl area at ZGA
59	sanitary plumbing maintenance works at zoo garden, staff quarter at ZGA
60	Painting road to schewlender house and S C Dutta Aviary and Misc development work at ZGA
61	Renovation of C-II staff quarter Rakhi jana and Staff Barrack at ZGA
62	Renovation visitors area with polka Tiles near Grey Parrot , Leopard Bridge near schewlender house and rest shed at ZGA
63	Renovation of N.I.C building entrance gate, flooring at ZGA
64	Renovation and painting of Committee Room outside wall at ZGA
65	Renovation of ARD room at ground floor of Zoo hospital with roof top beam at ZGA
66	Renovation and painting of inside wall and roof of N.I.C building at ZGA
67	repairing work of difference place in garden at ZGA
68	sanitary plumbing maintenance works at zoo garden, staff quarter at ZGA
69	renovation of enclosure front area and vat area at ZGA
70	Renovation works at Hospital building including outside soil line of Doctors toilet at ZGA
71	Renovation of Ticket counter inside near National library gate at ZGA
72	Supply of Bamboo Dorma fencing at Kangaroo & Elephant Enclosure at ZGA
73	Renovation of Stainless steel railing in front of Signature selfie of Zoo at ZGA
74	Repairing and change of Ticket Counter entry gate door at ZGA

75	Misc. repair work at Tiger , Elephant Rhino anaconda enclosure and kangaroo enclosure at ZGA
76	Renovation Natun bagan counter outside and boundary wall at ZGA
77	Painting of bamboo dorma at Kangaroo & elephant enclosure at ZGA
78	Sanitary plumbing maintenance works at zoo garden, toilets, staff quarter at ZGA
79	Renovation of Director's office chamber at ZGA



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Education and Awareness Programmes During the Year

Throughout the year, Zoological Garden, Alipore conducted a number of Education and Awareness as generating awareness is one of the main objectives of the Zoo.

1) Training Programmes:

Training programmes on zoo management is organized throughout the year for trainee Officers belonging to All India Services, State Services, Central Services and others where they visit the zoo under their East India Tour Programme and get the insights of zoo management. This year trainee Range Officers from Haldwani, Tamilnadu, Telengana, Odisha, West Bengal etc. states visited during different time of this year.



Training Programme Dow Hill



Training Programme Himachal Pradesh



Training Programme Telengana



Training Programme TNFA



Training Programme Gujarat



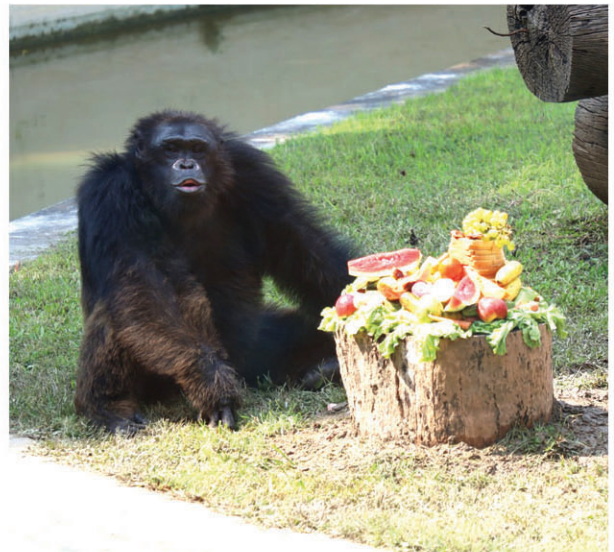
Training Programme SFTI

2) Awareness Programmes:

Throughout the year, a number of Wildlife Day were observed at the zoo with school and college students. These programmes were aimed for creating general awareness and for this, quiz competition, painting competition, tree plantation drives, short street dramas, workshops, guided zoo visits etc. were planned. This year Zoo Lovers' Day, earth Day, World Environment Day, World Giraffe Day, Snake Day, World Chimpanzee Day, International Tiger Day, World Rhino Day, World Zebra Day etc. were observed. The theme of the events were based on wildlife, their importance and conservation. The 67th Wildlife Week was also celebrated at the zoo with a number of events like Bird watching, webinars, online quiz and painting competition etc.



Awareness Programmes



Awareness Programmes



3) Zoo Festival: A zoo festival was organized on the occasion of Children's' Day. This is 5- days long event for school and college students on the theme of Wildlife, its importance and conservation and spanned from 14th to 18th November, 2023. Different competitions such as sit-and-draw, skit presentation, quiz, story writing, poster and seminar presentation are organized during the event. Around 1500 students from different schools and colleges of West Bengal participate in the zoo festival. The presence of esteemed judges and guests inspire the young students in conservation of biodiversity and its importance.



4) School and college visits:

This year a number school and colleges visited the zoo for educational excursion. Guided zoo visit with an insight of zoo management was organised for them. Apart from that, different NGOs have organised zoo visits with under-privileged children. Manovikash Kendra, Durbar Mohila Songothon etc. were among the organisations who visited the zoo this year.



5) Others: A number of eminent personalities visited the zoo this year. Eminent Actor and MLA Sri Soham Chakraborty, Music Director Jit Ganguly, Renowned dancer Smt. Alokanda Roy were among some of the eminent personalities who visited the zoo this year.

Sri Niraj Kr. Singh, Hon'ble Forest Minister, Bihar and Madam Nutan Singh along with Sri Satyajit Kumar, Director, Patna Zoo and other officials also visited the zoo this year.



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Seasonal Special Arrangements for Upkeep of Animals

1. Special care for animals in summer

Physical Methods of Cooling

- Bathing of the animals and birds in the morning
- Sprinkling of cold water in and around the aviaries
- Shade at aviaries covering bamboo thatch, tarpaulin etc.
- Installation of fans in reptile house, chimpanzee, tiger etc.
- ORS has been provided to the animals to reduce summer stress.
- Liver Tonic provided to all animals.
- Required vitamins and other supplementation provided to minimize summer stress.

2. Special care for animals in winter

Physical Methods

- Mammals
 - Wooden plank to all carnivores
- Reptiles
 - Provide adequate bedding for proper hibernation

Nutritional Supplementation

- Mammals
 - Calcium & other minerals supplementation to all mammals
- Birds

- Calcium supplementation to all.
- Vitamin A, D3, E supplementation to all

Medicinal Supplementation

- Spraying of disinfectant before hibernation as prophylactic measure
- Anti-stress medication is provided to all

Special care for animals in winter

Physical Methods

- Mammals
 - Wooden plank to all carnivores
- Reptiles
 - Provide adequate bedding for proper hibernation

Nutritional Supplementation

- Mammals
 - Vitamin D3 supplementation in young animals
 - Calcium & other mineral supplementation to all mammals
- Birds
 - Calcium supplementation to all.
 - Vitamin A, D3, E supplementation to all

Medicinal Supplementation

- Spraying of disinfectant before hibernation as prophylactic measure
- Anti-stress medication is provided to all



22

Research Work carried out and publications



Approved Research proposals of Zoological Garden, Alipore by the members of the 20th technical committee meeting of West Bengal Zoo Authority

- o Study of captive social behaviour of Grant's Zebra (*Equus burchelli*) in Alipore Zoo.
- o A study of glucocorticoid expression and its association with behavioural syndromes in non-human primates housed in Zoological Garden, Alipore.
- o Effects of the types of food items and food presentation on the behaviour of Fishing Cat, *Prionailurus viverrinus* Bennet, 1883 (Carnivora: Felidae) in a confined environment: implication for conservation breeding.
- o Behaviour study of native animals of Southern Hemisphere, in Alipore Zoo, Kolkata, India.
- o Status survey of free-living Flora and Fauna of Zoological Garden, Alipore, Kolkata.

Research Plan undertaken by Zoological Garden, Alipore

- o Captive breeding of fishing cats with detail gynaecological and andrological study.
- o Study of bacterial and fungal load in fresh buffalo meat/ water/ food materials for zoo animals.
- o Disease screening in captive giraffe with emphasis on captive breeding and training of sub-adult giraffe.
- o Disease screening and breeding of captive large felids.
- o Captive breeding of chimpanzees.
- o Orthopaedic diseases in wild animals and birds and their feasible management.
- o Project on formulation of Balanced feed for Ideal Nutrition for Wild captive Birds.
- o Routine Diagnosis of Zoonotic Diseases of Zoo Animals by using Conventional and Commercial Rapid Kit based Approaches.
- o Use of Modern diagnostic technique for disease diagnosis in zoo animals.

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Conservation Breeding Programme of the Zoo

No such conservation breeding programme is entrusted by the Central Zoo Authority to the Alipore Zoo during this period. However captive breeding of endangered species under Schedule - I is going on like the Fishing cat (State animal), Mouse Deer, Indian Rock Python, Reticulated Python, Burmese Python, Water Monitor Lizard, Four Horned Antelope, Yellow Monitor Lizard etc.



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Animal acquisition / transfer / exchange during the year

A. Animals arriving in the Zoo					
Sl. No.	Species	Number (M:F)	Coming from which zoo	Date	
-	-	-	-	-	
B. Animals going from the Zoo					
Sl. No.	Species	Number(M:F)	Going to which Zoo	Date of deposition from the Zoo	
-	-	-	-	-	



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Rescue and Rehabilitation of the wild animals carried out by the zoo

During this period no rescue and rehabilitation of wild animals were carried out, however, sometimes animals seized by different departments like BSF, Department of Forests, Wild Life Crime Control Bureau, Directorate of Revenue Intelligence etc. handed over to us as a custodian.



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Mortality Report 2022-2023

Name	Date of death	Ante mortem Symptoms	Cause of death	Disposal of carcass	Balance stock
<u>Mammals</u>					
1 Rhinoceros (M)	02.05.22	Found dead in its enclosure	Senility	Buried	
1 Common Otter (M)	23.05.22	Found dead in its enclosure	Heemangiosarcoma	Buried	
1 Zebra (F)	05.06.22	Found dead in its enclosure	Impaction and Septicemia	Buried	
1 Bengal Tigress (Tista)	07.06.22	Found dead in its enclosure	Multi organ failure	Buried	
1 Sambar Deer (F)	20.06.22	Found dead in its enclosure	Cardio-respiratory failure	Buried	
1 Leopard Vidyut (M)	04.07.22	Found dead in its enclosure	Multiorgan failure & Senility	Buried	
1 Nilgai (F)	27.07.22	Found dead in its enclosure	Haemorrhagic Shock due to Clostridium perfringens	Buried	
1 Black Buck (M)	18.08.22	Found dead in its enclosure	Per-acute Respiratory tract disease	Buried	
1 Spotted Deer fawn (M)	08.09.22	Found dead in its enclosure	Haemorrhagic respiratory tract disease	Buried	
1 Pangopup (M)	08.09.22	Found dead in its enclosure	Lower Respiratory tract disease	Buried	
2 Hedgehog (U)	23.09.22	Found decomposed carcass in its enclosure	Unfit for PM	Buried	
1 White Tiger (Vishal) (M)	25.09.22	Found dead in its enclosure	Gangrenous Toxaemia	Buried	
1 Mouse Deer (M)	29.09.22	Found dead in its enclosure	Acute capture Myopathy	Buried	

1 Spotted Deer (F)	02.10.22	Found dead in its enclosure	Respiratory tract infection	Buried	
1 Rhesus Monkey (M)	05.10.22	Found dead in its enclosure	Hepatic Disease	Buried	
1 Spotted deer (M)	11.10.22	Found dead in its enclosure	Mycoplasmosis	Buried	
2 Barking deer (F)	1.11.22	Found dead in its enclosure	Acute Enteritis leading to septicaemia	Buried	
1 Wild Dog (M)	07.11.22	Found dead in its enclosure	Multiorgan Failure due to Babesia small form	Buried	
2 Barking Deer (M)	10.11.22	Found dead in its enclosure	Peracute infection	Buried	
1 Bonnet Monkey	15.11.22	Found dead in its enclosure	Senility	Buried	
1 Spotted Deer (M)	27.11.22	Found dead in its enclosure	Senility	Buried	
1 Nilgai (F)	05.12.22	Found dead in its enclosure	Enteritis and Babesiosis	Buried	
1 Wild Dog (F)	05.12.22	Found dead in its enclosure	Septic Shock	Buried	
1 B.A. deer fawn day old (F)	06.12.22	Found dead in its enclosure	Suggestive of lung hypoplasia	Buried	
1 Jungle Cat (M)	24.12.22	Died in Hospital	Renal Failure	Buried	
1 Four Horned Antelope (F)	05/01/23	Found dead in its enclosure	Interstitial Pneumonia	Buried	
1 Spotted Deer (F)	06/01/23	Found dead in its enclosure	Per-acute respiratory disease	Buried	
1 Spotted Deer day old calf (M)	20/01/23	Found dead in its enclosure	Stillbirth	Buried	
1 Common Marmoset (F)	15/02/23	Found dead in its enclosure	Multiorgan failure	Buried	
1 Nilgai Sub adult (M)	22/02/23	Found dead in its enclosure	Lower respiratory tract disease	Buried	
1 Spotted Deer fawn (F)	28/02/23	Found dead in its enclosure	Secondary Bloat	Buried	
1 porcupette (M)	07/03/23	Found dead in its enclosure	traumatic Shock	Buried	
1 Fishing Cat (M)	16/03/23	Found dead in its enclosure	Respiratory Tract Infection (Laboratory report pending)	Buried	
1 B.A. Deer (F)	26/03/23	Found dead in its enclosure	Toxaemia	Buried	

Birds					
1 Hill Myna (M)	08.05.22	Found dead in its enclosure	Hepatitis	Buried	
2 Love Bird (M, M)	10.05.22	Found dead in its enclosure	Hepatopathy	Buried	
1 Albino Parakeet (M)	21.05.22	Found dead in its enclosure	Suggestive of N.D.V	Buried	
1 Albino Parakeet (F)	22.05.22	Found dead in its enclosure	Suggestive of N.D.V	Buried	
1 Red Breasted parakeet (M)	08.06.22	Found dead in its enclosure	Enteritis	Buried	
1 Rose Ring Parakeet (F)	09.06.22	Found dead in its enclosure	Enteritis	Buried	
1 Love Bird (F)	09.06.22	Found dead in its enclosure	Hepatitis	Buried	
1 Painted Stork (M)	16.06.22	Found dead in its enclosure	Air sacculitis	Buried	
1 Lutino Parakeet (M)	28.06.22	Found dead in its enclosure	Hepatitis	Buried	
1 Lutino Parakeet (M)	05.07.22	Found dead in its enclosure	Hepatitis	Buried	
1 White Ibis sub-adult (M)	06.07.22	Found dead in its enclosure	Multi-organ failure	Buried	
1 Amazon Parakeet (M)	29.07.22	Found dead in its enclosure	Enteritis	Buried	
1 Amazon Parrot (M)	10.08.22	Found dead in its enclosure	Unfit for PM	Buried	
1 Crowned Pigeon (M)	15.08.22	Found dead in its enclosure	Chronic Respiratory Disease	Buried	
1 Mexcian Red Headed Parrot (F)	02.09.22	Found dead in its enclosure	Infighting Injury	Buried	
1 Red Jungle Fowl (F)	04.09.22	Found dead in its enclosure	Hepatitis	Buried	
1 Red & Blue Macaw (F)	21.09.22	Found dead in its enclosure	Haemorrhagic Proventriculitis	Buried	
1 Love Bird (M)	26.09.22	Found dead in its enclosure	Hepatomegaly	Buried	
1 Sulphur crested Cockatoo (M)	03.10.22	Found dead in its enclosure	Traumatic shock	Buried	
1 Hill Mayna (M)	16.10.22	Found dead in its enclosure	Shock	Buried	
1 Rose ring parakeet (M)	25.10.22	Found dead in its enclosure	Multiorgan failure	Buried	
1 Sarus Crane (F)	24.01.23	Found dead in its enclosure	Hepatitis with Multiorgan failure	Buried	
1 Indian Peafowl (M)	06/02/23	Found dead in its enclosure	Wasting Disease & E coli infection	Buried	

1 Bhutanese Grey Peacock (M)	14/03/23	Found dead in its enclosure	Chronic Wasting Disease	Buried	
<u>Reptiles</u>					
1 Tokay Gecko (F)	23.04.22	Found dead in its enclosure	Respiratory tract disease	Buried	
1 Rock Python (F)	18.05.22	Found dead in its enclosure	Multi Organ Failure	Buried	
1 Monitor Lizard (M)	25.05.22	Found dead in its enclosure	Hepatic Abscess	Buried	
1 Tokay Gecko (M)	25.05.22	Found dead in its enclosure	Unfit for P M	Buried	
1 Green Iguana (hatchling) (M)	15.08.22	Found dead in its enclosure	Internal Haemorrhage	Buried	
1 Reticulated Python (F)	16.08.22	Found dead in its enclosure	Respiratory failure	Buried	
1 Green Iguana (hatchling)(M)	29.08.22	Found dead in its enclosure	Internal Haemorrhage	Buried	
1 Spectacled Cobra (F)	16.11.22	Found dead in its enclosure	Pneumonia	Buried	
1 Reticulated Python (M)	24.11.22	Found dead in its enclosure	Shockfrom extensive infighting injury	Buried	
1 Ind Rock Python	30.11.22	Found dead in its enclosure	Multiorgan Failure	Buried	
1 Ind Rock Python (F)	07.12.22	Found dead in its enclosure	Unfit for PM	Buried	
1 Tokay Gecko (U)	08/02/23	Found dead in its enclosure	Unfit for PM	Buried	
1 Monitor Lizard sub adult (F)	17/02/23	Found dead in its enclosure	Hepatopathy	Buried	
1 Banded Krait (sub-adult)	18/03/23	Found dead in its enclosure	Enteritis	Buried	

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Compliance with conditions stipulated by the Central Zoo Authority

During this period no conditions was stipulated by CZA for its compliance so it may be treated as nil.

Sl. No.	Norm under 2009	No. RZR,	Condition Stipulated	Time period to Comply	Since when pending	Status with regard to compliance of the conditions
-	-	-	-	-	-	-



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List of free-living wild animals within the zoo premises

a. Mammals - Civet Cat, Fruit Bat, Squirrel, Mongoose etc.

b. Birds - King Fisher, Painted Stork, Night Heron, Egrets, Little Cormorant, Teal, Sparrow, Crow, Common Myna, Dove, Parakeet etc.

c. Reptiles - Rat Snake, Water Keelback, Monitor Lizard, Calotes etc.





Zoological Garden, Alipore

2 No. Alipore Road, Kolkata 700 027, West Bengal, India

Phone: +91 33 2479 1150 / +91 33 2439 9391; Fax: +91 33 2479 1585

email: director@kolkatazoo.in; Web : kolkatazoo.in