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1. Report from the Director's Desk:

The Annual Report of the Zoological Garden, Alipore, Kolkata for the year 2019-2020 is published with a hope of sustainable development. This Zoo has achieved tremendous successes on captive breeding of all three types of Pythons available in India, viz. Reticulated Python, Burmese Python and Indian Rock Python, Asiatic Lion, Marsh Crocodile during the year and also we have achieved success in breeding the 'State Animal of West Bengal', Fishing Cat as well as Mouse Deer. All those animals belong to Schedule-I under Wildlife (Protection) Act, 1972.

Constant sincere effort was made to maintain the animal health of the Zoo. Besides a Zoo Biologist, a Research Assistant, Zoo Educator and an Education Assistant 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 and because of these, annual footfall during this financial year was

The Annual Report for the year 2019-2020 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 B. P. Gopalika, IAS, addl. Chief Secretary, Department of Forests, Government of West Bengal, Sri R.K.Sinha, IFS, Principal Chief Conservator of Forests HoFF and Principal Chief Conservator of Forests, Wildlife and Chief Wildlife Warden, Government of West Bengal, Government of West Bengal, Sri V.K. Yadav, IFS, Addl. Principal Chief Conservator of Forests and Member Secretary of 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

2. History of the Zoo



Since establishment of the Zoological Garden, Alipore on 24th September, 1875, Zoo has passed through several phases. Initially, the citizens of Kolkata at that time came forward with generosity in the process of establishing the Zoo with financial help and they also donated animals from their collections to the Zoo.

Then land development started and some animal houses were constructed to house animals. “Mullick House” is the first animal house constructed within the

Zoo with the financial help of Raja Rajendra Mullick Bahadur, the first Indian donor.

The park was initially run by an honorary managing committee which included Schwendler and the famous botanist George King. The first Indian superintendent of the zoo was Ram Brahma Sanyal, who did much to improve the standing of the Alipore Zoo and achieved good captive breeding success in an era when such initiatives were rarely heard of. One such success story of the zoo was a live birth of the rare Sumatran Rhinoceros in 1889. The next pregnancy in captivity occurred at the Cincinnati Zoo in 1997, but ended with a miscarriage. Cincinnati Zoo finally recorded a live birth in 2001. Alipore Zoo was a pioneer among zoos in the 19th century and the early part of the 20th century under Sanyal, who published the first handbook on captive animal keeping. The zoo had an unusually high scientific standard for its time, and the record of the *Cladotaenia* genus (Cohn, 1901) of parasites is based upon cestodes (flatworm) found in an Australian bird that died at the zoo.

Fowls and pheasants were kept within this house and they started to breed as early as in February, 1876. Followed by Mullick House, Burdwan House presently known as open air moated enclosure for lions, was constructed at a cost of Rs.35,000/-, the entire amount of which was donated by the Maharaja of Burdwan. Gradually other animal houses / enclosures came into being and named after their donors.

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 following developmental activities were carried from August, 2009 to March, 2014.

3. 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	+913324791150 +913324399391
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)	
11	Category of the Zoo	Large
12	Area (in Acre)	18.81 Ha.
13	No. of Visitors (Financial Year)	Adult: 2589430
		Children: 343480
		Total Indian:
		Total Visitors: 2932910 Aquarium Visitors: 102435
14	Visitors Facilities Available in Zoo	Proper Toilets, Resting Sheds at different locations, Decorative Benches, Drinking Water 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, Director

	Name of the Deputy Director	Dr. Piyali Chattopadhaya
	Name of the Assistant Director	Sri Pradip Kumar Datta, WBFS (Retd.)
	Name of the Veterinary Officer	Dr. Chayan Bhattacharya, Dr. Arnab Majie, Dr. Santanu Shome
	Name of the Curator	-----
	Name of the Biologist	Smt. Rupsha Brahmachari
	Name of the Dietician/Kitchen Supervisor	Smt. Runia Ghatak
	Name of the Zoo Educator	Smt. Rupsha Brahmachari
	Name of the Education Assistant	Ms. Moumita Sarkar
	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: +91332335011 (EPABX), 033-2335-8755 FAX: +913323350012
22	E-mail Address of Operator	mswbza@gmail.com , wbzooauthority@yahoo.in

4. 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.

5. **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”.

6. Objective:

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.

7. Organizational Chart

8. 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	1
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	5
22	Asst. Engineer	1	0
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	28
41	Head Mali	1	1
42	Mate -Mali	3	3
43	Mali Mazdoor	60	18
44	Head Durwan	3	0
45	Mate Durwan	3	2
46	Durwan	60	1
47	Curator of Aquarium	1	0
48	Aquarium Supervisor	1	0
49	Tank Attendent	6	2

9. 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	Deputy Director, Veterinary Officers, ADFO, Biologist, Scientific Officer, Technical Assistant	ZIMS training for Zoos in West Bengal	12 th – 13 th June, 2019	Zoological Garden, Alipur
2	Zoo Keepers, Veterinary Officers	Workshop on management of Giraffe including enrichment of the enclosure	7 th November, 2019	Zoological Garden, Alipur
3	Zoo Keeper, Veterinary Assistant	Training workshop for Zoo staff on Capture of animals and tranquilization	22 nd – 23 rd February, 2020	North Bengal Wild Animals Park

10. 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: 21.05.2019

11. 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: 20.07.2019, 17.01.2020

**12. ZOOLOGICAL
GARDEN, ALIPORE**

**Profit & Loss A/c
(Unaudited)**

1-Apr-2019 to 31-Mar-2020

Particulars	1-Apr-2019 to	31-Mar-2020	Particulars	1-Apr-2019 to	31-Mar-2020
Opening Stock			SALES ACCOUNTS <i>Sales Bills to Make</i>		
PURCHASE ACCOUNTS <i>Purchase Bills to Come</i>			DIRECT INCOMES		10,66,00,756.94
			GATE COLLECTION	8,47,32,003.69	
DIRECT EXPENSES		7,30,51,696.35	OTHER COLLECTIONS	83,302.00	
NATURE EDUCATION & AWARENESS GENERATION	21,98,125.00		RENTAL INCOME	2,15,70,451.25	
NUTRITION AND HEALTHCARE EXPENDITURE	4,05,26,445.35		SCHEME INCOMES	2,15,000.00	
RESEARCH & TRAINING	9,469.00				
ZOO MAINTENANCE EXPENSES	3,03,17,657.00		INDIRECT INCOMES		4,18,74,730.58
			INTEREST INCOME	40,94,782.00	
INDIRECT EXPENSES		7,54,23,791.17	OTHER INCOMES	5,000.00	
NON - PLAN EXPENDITURES	7,54,23,791.17		TRANSFER OF UTILIZED FUNDS	3,77,74,948.58	
Nett Profit			Closing Stock		
Total		14,84,75,487.52	Total		14,84,75,487.52

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	3.25	3.25	
		Hey grass	1.5	1.5	
3.	Barking Deer	Concentrated feed	0.6	0.6	No fasting day
		Sweet potato & carrot	0.3	0.3	
		Green fodder	1.3	1.3	
4.	Spotted Deer	Concentrated feed	1.5	1.5	No fasting day
		Sweet potato & carrot	0.8	0.8	
		Green fodder	4	4	
5.	Brow antlered Deer	Concentrated feed	3	3	No fasting day
		Sweet potato & carrot	0.6	0.6	
		Green fodder	3	3	
6.	Sambar Deer	Concentrated feed	4	4	No fasting day
		Sweet potato & carrot	1	1	
		Green fodder	4	4	
7.	Black Buck	Concentrated feed	1.5	1.5	No fasting day
		Sweet potato & carrot	0.4	0.4	
		Green fodder	2	2	
8.	Swamp Deer	Concentrated feed	3	3	No fasting day
		Sweet potato & carrot	0.8	0.8	

		Green fodder	2	2	
9.	Rhino	Concentrated feed	6	6	No fasting day
		Sweet potato & carrot	5	5	
		Green grass	40	40	
		Banana	4.5	4.5	
		Sugarcane Top	15	15	
10.	Hippo	Concentrated feed	8	8	No fasting day
		Sweet potato & carrot	3	3	
		Green grass	33	33	
11.	Elephant	Rice	1.25	1.25	No fasting day
		Soaked gram	0.75	0.75	
		Paddy	0.5	0.5	
		Lentil	1	1	
		Wheat	1.25	1.25	
		Fodder	50	50	
		Sugarcane Top	37	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	2	2	

		Dry fruits	0.1	0.1	
		Carrot & sweet potato	0.8	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	0.010	
15.	Nilgai	Concentrated feed	4	4	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	0.25	0.25	No fasting day
		Carrots & sweet potato	0.40	0.40	
		Banana	0.20	0.20	
		Chattu	0.25	0.25	
		Jaggery	0.010	0.010	

		Beans	0.50	0.50	
		Watermelon	0.500	0.500	
		Cucumber	0.500	0.500	
		Oats & Grass	0.500	0.500	
18.	Mouse Deer	Carrots & sweet potato	0.250	0.250	No fasting day
		Chola & Corn	0.100	0.100	
		Apple & banana	0.100	0.100	
		Green grass	0.250	0.250	
19.	Tiger	Buffalo meat	8.5	11.5	Thursday
20.	Lion	Buffalo meat	8.5	10.5	Thursday
21.	Leopard	Buffalo meat	4.5	4	Thursday
22.	Jaguar	Buffalo meat	5	3	Thursday
23.	Hyena	Buffalo meat	4	3.5	Thursday
24.	Jackal	Live fowl	1	1.5	No fasting day
25.	Wolf	Live fowl	1	1.5	No fasting day
26.	Jungle Cat	Live fowl	1	1.5	No fasting day
27.	Fishing Cat	Live fish	1	1	No fasting day
28.	Crocodile	Live Fish	2-2.5	-	Mon,Wed,Fri, Sun
29.	Reptiles	Frogs, snakes etc	6 nos.	-	Given only on Thursday
30.	Monitor Lizards	Chicken	0.75(on Monday)	-	All day except Monday
		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	0.050	0.050	
		Sugar cane	0.050	0.050	

		Fruits	0.100	0.100	
		Milk & bread	0.075	0.075	
32.	Hill Moyna	Fruits	0.050	0.050	No fasting day
		Milk & bread	0.050	0.050	
33.	Adjutant stork	Fish(silver carp)	1	1	No fasting day
34.	Openbill stork	snail	1	1	No fasting day
35.	Mandarine 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	0.050	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	1	1	No fasting day
40.	Painted Stork	Fish(silver carp/ fingerling)	0.500	0.500	No fasting day
41.	Otter	Live lata fish	1	1	No fasting day
42.	Tortoise	Chocked leafy vegetables	0.050	0.050	No fasting day
		Pumpkin	0.050	0.050	
		Cabbage	0.050	0.050	
		Cucumber	0.050	0.050	
43.	Brahminy Kite	Small fish	0.250	0.250	No fasting day
44.	Eagle	Buffalo meat	0.300	0.300	No fasting day
45.	Sarus Crane	Soaked gram	0.100	0.100	No fasting day
		Soaked maize	0.100	0.100	
		Paddy	0.100	0.100	
		Fish	0.100	0.100	
47.	Emu	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	
48.	Ostrich	Egg	2	2	No fasting day
		Beans	0.25	0.25	
		Mesh	0.75	0.75	
		Banana	24	24	
		Leafy vegetables	0.01	0.01	

		Soaked chhola/corn	0.5	0.5	
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13. 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 vaccine lentogenic (B1 strain)	0 day, 6 week then twice in year	through drinking water with addition of skim milk powder and ice as per dose

14. Deworming schedule

Sl No	Name of the species	Drug used and route	Frequency
1	Carnivores	Praziquantel, Pyrental pamoate; oral	Quarterly in recommended dose.
2	Herbivores & primates	Fenbendazole/ ivermectin / Albendazole; oral	Twice in year as required in recommended dose.
3	Reptiles (Python & Ind. 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.

15. 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
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
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
Reptiles	Entrance	2% KMno4 Solution	Foot Bath	Daily Changing
	Room	Heating by Blow Lamp	Firing of all walls & nets of enclosure	Once in month

16. Health Check-up of employees for zoonotic diseases

Sl No.	Name	Designation	Date of Health Check up	Findings of Health Check up
1	Sri Sewpujan Ram	Animal Supervisor	04.02.2020	Nothing found
2	Sri Subhas Chandra Dey	Animal Supervisor	25.01.2020	Nothing found
3	Sri Biswanath Ram	Head Keeper, Gr-I	25.01.2020	Nothing found
4	Sri Tapan Kr. Mondal - I	Head Keeper	23.01.2020	Nothing found
5	Sri Ram Lagan Das	Head Keeper	29.01.2020	Nothing found
6	Sri Sita Ram	Head Keeper	26.01.2020	Nothing found
7	Sri Rajendra Ram III	Senior Keeper Gr-I	26.01.2020	Nothing found
8	Sri Shiw Prasad Kahar	Senior Keeper Gr-I	29.01.2020	Nothing found
9	Sri Bholra Ram	Senior Keeper	29.01.2020	Nothing found
10	Sri Motilal Ram	Senior Keeper	27.01.2020	Nothing found
11	Sri Dilip Ram	Senior Keeper	02.02.2020	Nothing found
12	Sri Dipak Kr. Dey	Senior Keeper	02.02.2020	Nothing found
13	Sri Sanjay Kr. Ram I	Junior Keeper Gr-I	24.01.2020	Nothing found
14	Sri Sankar Bahadur	Junior Keeper Gr-I	02.02.2020	Nothing found
15	Sri Rama Chandra Nath	Junior Keeper Gr-I	25.01.2020	Nothing found
16	Sri Uttam Basnet Chhetri	Junior Keeper Gr-I	26.01.2020	Nothing found
17	Sri Goutam Bag	Junior Keeper Gr-I	26.01.2020	Nothing found
18	Sri Sukanta Nandi	Junior Keeper Gr-I	26.01.2020	Nothing found
19	Qurban Ali	Junior Keeper Gr-I	22.02.2020	Nothing found
20	Sri Pralay Kr. Bhattacharya	Junior Keeper Gr-I	29.01.2020	Nothing found
21	Sri Suven Chand Saren	Junior Keeper Gr-I	22.02.2020	Nothing found
22	Sri Dasrath Ram	Junior Keeper Gr-I	23.01.2020	Nothing found

23	Sri Makolal Ram	Junior Keeper Gr-I	26.01.2020	Nothing found
24	Sri Ashok Kr. Ram II	Junior Keeper Gr-I	28.01.2020	Nothing found
25	Sri Dhaneswar Nath	Junior Keeper Gr-I	26.01.2020	Nothing found
26	Sri Mohitosh Sarkar	Junior Keeper	26.01.2020	Nothing found
27	Sri Umesh Ram	Junior Keeper Gr-I	26.01.2020	Nothing found
28	Md Sanir	Junior Keeper Gr-I	29.01.2020	Nothing found
29	Sri Prabir Dey	Junior Keeper Gr-I	02.02.2020	Nothing found
30	Sri Prabir Kr. Maity	Junior Keeper Gr-I	04.02.2020	Nothing found
31	Md Khurshid Alam	Junior Keeper	28.01.2020	Nothing found
32	Sri Rajesh Kumar Bhuiya	Junior Keeper	23.01.2020	Nothing found
33	Sri Biswajit Parui	Junior Keeper	01.02.2020	Nothing found
34	Sri Somnath Gulimajhi	Zoo Keeper	23.01.2020	Nothing found
35	Sri Ashis Kumar Ram	Zoo Keeper	25.01.2020	Nothing found
36	Sri Anup Kumar Ram	Zoo Keeper	28.01.2020	Nothing found
37	Sri Birendra Nath Patra	Zoo Keeper	02.02.2020	Nothing found
38	Sri Prem Sagar Kr. Ram	Zoo Keeper	01.02.2020	Nothing found
39	Sri Bhuneswar Ram	Animal Attendant	01.02.2020	Nothing found
40	Sri Debendra Nath	Animal Attendant	01.02.2020	Nothing found
41	Sri Deshbandhu Pramanik	Animal Attendant	01.02.2020	Nothing found
42	Sri Dipak Kumar Ram	Animal Attendant	29.01.2020	Nothing found
43	Sri Gourango Mondal	Animal Attendant	01.02.2020	Nothing found
44	Sri Joy Mukherjee	Animal Attendant	28.01.2020	Nothing found
45	Md Abdul Rahim Ansari	Animal Attendant	04.02.2020	Nothing found
46	Sri Nayan Raj Mondal	Animal Attendant	28.01.2020	Nothing found
47	Sri Raghunath Majhi	Animal Attendant	25.01.2020	Nothing found
48	Sri Samir Gayen	Animal Attendant	23.01.2020	Nothing found

49	Sri Sanju Das	Animal Attendant	01.02.2020	Nothing found
50	Sri Sandip Kumar Nath	Animal Attendant	25.01.2020	Nothing found
51	Sri Shyam Sundar Banik	Junior Keeper	22.02.2020	Nothing found
52	Sri Sandip Ram	Animal Attendant	29.01.2020	Nothing found
53	Sri Pintu Gharai	Animal Attendant	29.01.2020	Nothing found
54	Sri Uttam Raj	Animal Attendant	25.01.2020	Nothing found
55	Sri Mohsin Kamal	Animal Attendant	25.01.2020	Nothing found
56	Sri Tanmay Mondal	Animal Attendant	28.01.2020	Nothing found
57	Sri Akhilesh Kumar Ram	Animal Attendant	28.01.2020	Nothing found
58	Sri Tapan Kumar Samanta	Animal Attendant	04.02.2020	Nothing found
59	Sri Sushil Kumar Kahar	Animal Attendant	29.01.2020	Nothing found
60	Sri Hasan Jamal	Animal Attendant	04.02.2020	Nothing found
61	Sri Ramesh Kumar Ram	Animal Attendant	04.02.2020	Nothing found
62	Sri Shyam Sundar Ram	Animal Attendant	28.01.2020	Nothing found
63	Sri Saifuddin Ansari	Animal Attendant	02.02.2020	Nothing found
64	Md. Anwar	Junior Keeper	02.02.2020	Nothing found
65	Sri Swapan Santra	Animal Attendant	02.02.2020	Nothing found
66	Sk. Sarfaraj Nawas	Animal Attendant	01.02.2020	Nothing found
67	Sri Raju Kumar Ram	Animal Attendant	01.02.2020	Nothing found

17. Development work carried out in the Zoo during the year

- 1. Construction of Wolf enclosure**
- 2. Outside development work of Anaconda enclosure**
- 3. Outside development work of Nocturnal House**
- 4. Painting of Zoo garden fencing, wall, garden fencing**
- 5. Painting of enclosures and chain link net**
- 6. Painting of ticket counter**

18. Education and awareness programmes during the year

1. World Earth Day, 2019:

World Earth Day was celebrated at Zoological Garden, Alipore in collaboration with Publicity Department of Forest, West Bengal and Wildlife Crime Control Bureau on 22.04.2019.

About 96 students from 8 different schools participated in the programme. The participating schools were- Amtala Nivedita Balika Vidyalaya, Bagnan Girls' High School (H.S.), Bejoygarh Vidyapith (H.S.), Jyangra Adarsha Vidyalaya (H.S.), Kashmoli Nigna S.C. High School (H.S.), Kashimpur High School (H.S.), Mitra Institution (Main) & Noyapara Brahmamoyee Vidyalaya for Boys (H.S.). The programme started at 9:30 am with plantation programme at the Zoo ground in presence Sri Asis Kumar Samanta, IFS, Director, Zoological Garden, Alipore. After that refreshment and welcome speech was given by Smt. Niranjaita Mitra, DFO, Publicity Department of Forest, West Bengal followed by a guided visit in the Zoological Garden, Alipore.

After the zoo visit, students gathered in the NIC auditorium and participated in the Sit and Draw competition. Simultaneously a workshop was done on Carbon calculation of plants. The competition was followed by lunch and then two brief presentations on Zoo and Biodiversity. Later a quiz competition was organized, 2 students from each of the schools participated. After that a brief prize distribution ceremony was held. In the end some Wildlife materials were displayed by the WCCB.

2. Forest Range Officer Training from Uttarakhand Forestry Training Academy:

A training programme was organized for the visiting trainee Range Officers from Uttarakhand Forestry Training Academy who were visited the zoo under their East India Study Tour Programme on 10th May, 2019. 26 trainees along with 3 faculty members came for the visit. A guided zoo visit was organized by Sri Asis Kumar Samanta, IFS, Director, Zoological Garden, Alipore. After the zoo visit an interactive presentation was given by Rupsha Brahmachary, Zoo Educator and Moumita Sarkar, Education Assistant.

3. World Giraffe Day, 2019:

On 21st June, 2019, World Giraffe Day was celebrated at the Zoological Garden, Alipore. Students from Jyangra Adarsha Vidyapith (H.S.) and Chetla Boys' School participated in the programme. A Sit and Draw competition and a procession with placards and banners were organized for the students by Zoological Garden, Alipore Authority. An interactive presentation was delivered by Education Assistant. The keepers of the Giraffe section were felicitated for their performance. All the staff along with 50 students and teachers of the participating schools attended the programme.

4. Training on ZIMS:

On 12th and 13th June, 2019, a short training on Membership and Handling of the Species 360 and ZIMS software was organized by West Bengal Zoo Authority at Zoological Garden, Alipore. Veterinary Doctors from Padmaja Naidu Himalayan Zoological Park, Jhargram Zoo, Jharkhali Zoo,

and Assistant Director from Jhargram and Jharkhali Zoo along with Deputy Director, Assistant Director, Zoo Educator, Education Assistant of Zoological Garden, Alipore and Scientific Officer and Technical Assistant of West Bengal Zoo Authority participated in the training programme.

5. Minister Visit:

On 13th June, 2019, Sri Brtya Basu, Hon'ble Minister-in Charge, Department of Science and Technology and Biotechnology and Department of Forests, Govt. of West Bengal visited the Zoological Garden, Alipore. He also participated in a tree plantation programme organized by Zoological Garden, Alipore.

6. International Snake Day, 2019:

International Snake Day was celebrated at the Zoological Garden, Alipore. Around 80 students and teachers from Behala Girls' High School and Bethune Collegiate School participated in the day's event. There were Sit and Draw competition a procession with placards and banners inside the Zoo with all staff and officials of Zoological Garden, Alipore. An interactive presentation was delivered by Zoo Educator on Snake Conservation. The Keepers of the Reptile section and the Head keeper & Supervisors were felicitated on the day.

7. International Tiger Day, 2019:

On 29th July, 2019, International Tiger Day was celebrated at the Zoological Garden, Alipore. The events of the day included Sit-and Draw competition for the students of the participating schools, procession with banners and placards inside the Zoo and an interactive presentation was delivered by Zoo Educator. The Guests of the day was Sri Bratya Basu, Hon'ble Minister-in Charge, Department of Science and Technology and Biotechnology and Department of Forests, Govt. of West Bengal, Sri Siddhartha Barari, IFS, PCCF and HoFF, Govt. of West Bengal, Sri Subrat Mukherjee, IFS, PCCF, CAMPA and FCA, Govt. of West Bengal and Sri V.K. Yadav, IFS, Addl. PCCF and Member Secretary, West Bengal Zoo Authority. The enclosures of Yellow Anaconda and Striped Hyena were inaugurated on the day as well as 2 new Leopard and a new White Tiger were released in their respective enclosures by Hon'ble MIC. Keepers, Head Keepers and Animal Supervisors of Tiger and Lion section were felicitated on the day. Around 125 students and teachers from Barisha Vivekananda Girls' High School, Jadavpur Vidyapith and Mount Litera Zee School participated in the day's event.

8. Independence Day, 2019:

On 15th August, 2019 Independence Day was celebrated in presence of all the Zoo staff and Officials. Our National flag was hoisted by Sri Asis Kumar Samanta, IFS, Director, Zoological Garden, Alipore.

9. Range Officer Training:

On 6th September, 2019 a group of 34 officer Range Officers along with 3 faculties came for a training programme at the Zoological garden, Alipore under their East India Study Tour programme. A guided Zoo visit was provided to the followed by a brief presentation on Zoo and their management.

10. International Rhino Day, 2019 and World Cleanup Day:

On 22nd September, 2019 International Rhino Day was celebrated at the Zoological Garden, Alipore. 57 students and teachers from Kankuriagdanga Junior High School participated in the commemoration. An interactive presentation on the Zoo along with guided zoo visit and a procession with banners and placards were organized. World Cleanup Day was also celebrated at Zoological Garden, Alipore on 22nd September.

11. Screening Round of Recitation Competition of Zoo Festival, 2019:

A screening round for Recitation Competition of the 3rd Zoo Festival was held at Zoological Garden, Alipore premises on 23rd and 24th September. On 23rd September, around 100 students from 45 different schools along with their teachers participated in the competition. On 24th September, the second day of the competition was for college students and around 50 students from 20 different colleges participated in the day's programme. 4 esteemed judges judged the competition of the schools in 23 groups and 2 esteemed judges judged the round of colleges.

12. School visit:

Around 100 students and 10 teachers came for educational tour at the Zoological Garden, Alipore from Valara High School (H.S.) on 1st October, 2019. A guided zoo visit followed by a brief presentation by Zoo Educator.

13. Wildlife Quiz by WWF:

The officials and staff of WWF, India organized a quiz on wildlife for the students of junior and middle school students at Zoological Garden, Alipore premises on 1st October, 2019. The staff and officials of Zoological Garden, Alipore helped in the organization of the programme and participated in the day's event

14. Workshop on Management of Giraffe in Captivity:

On 7th November, 2019 a workshop was organized on Management of Giraffe in Captivity at Zoological Garden, Alipore. Sri Tushar Kulkarni, an expert on Giraffe conservation gave an interactive presentation on Managemnet of Giraffe in Captivity. Sri Asis Kumar Samanta, IFS, Director, Zoological Garden, Alipore, Smt. Piyali Chattopadyay, Deputy Ditector, Zoological Garden, Alipore, Sri Pradip Datta, Assistant Director, Zoological Garden, Alipore attended the programme along with Zoo Educator, Education Assistant and Keepers of the Zoo.

15. 3rd Zoo Festival, 2019:

On the occasion of Children's Day, a Zoo Festival was organized at the Zoological Garden, Alipore. This is a 6-days long event starting from 14.11.2019 to 19.11.2019. Different competitions for school and college students were organized at the zoo premises during the Zoo Festival. This year was the third consecutive year of Zoo Festival.

On the first day of the festival, the programme was inaugurated by Janab Firhad Hakim, Hon'ble MIC Urban Development and Municipal Affairs and Mayor, Kolkata Municipal Corporation. Other esteemed guests included Sri B.P. Gopalika, IAS, Addl. Chief Secretary to the Govt. of West Bengal, Department of Forests, Sri S. Barari, IFS, PCCF & HoFF, Govt. West Bengal, Sri V.K. Yadav, IFS, Addl. PCCF & Member Secretary, West Bengal Zoo Authority, Smt. Sangeeta Dubey, IFS, Addl. PCCF, RMD, Govt. of West Bengal, Sri Sashikumar, IFS, CF, Wildlife, Headquarters, Govt. of West Bengal, Sri S. Kulandivel, IFS, CF & Joint Director, Biosphere, Govt. of West Bengal, Sri Santosha G.R., IFS, DFO 24Pgs. South Division, Smt. Deblina Biswas, Councilor, Ward No. 74, Kolkata Municipal Corporation, Smt. Richa Agarwal, CEO, Emami Art and Executive Director, Kolkata Centre for Creativity and Smt. Reena Dewan, AVP, Operations, Learning and Programme, Kolkata Centre for Creativity. The first day's event was Painting Competition for school students. Around 150 students of classes V- XII participated in the competition. Topics of the painting competition were- 'I am in the Zoo' for Gr. A (V-VII), 'Wildlife in the forest' for Gr. B (VIII-X) and 'Cage' for Gr. C (XI-XII). The competition was judged by esteemed judges Smt. Alka Yadav, Sri Samindranath Majumder and Sri Gopal Das.

A clay modeling competition was organized for the school students on the 2nd Day of the Zoo Festival. Around 100 students from different schools participated in the competition. A workshop on clay modelling was organized followed by the competition. The trainers Smt. Tania Halder, Sri Shibshankar Mondal and Sri Ayan Banerjee conducted the workshops in Groups A (V-VII), B (VIII-X) & C (XI-XII) respectively. Smt. Alka Yadav, Sri Bimal Kundu, Sri Sujit Ghosh, Sri Samindranath Majumder and Sri Gopal Das were the esteemed judges for the day's competition. The day's events were glorified by the presence of Hon'ble guests Sri Sujit Bose, Hon'ble MOS, Fire and Emergency Services (Independent Charge) & Forests, Smt. Suchandra Bhutoria, Chairman, FICCI for Women, Sri Soumalya Ghosh, PS to MOS and Sri V.K. Yadav, IFS, Addl. PCCF & Member Secretary, West Bengal Zoo Authority. From the 100 competitors our judges chose 3 winners in each group and 15 consolation prizes were distributed in each of the groups.

The 3rd Day of Zoo Festival, 2019 comprised of quiz competition for both school and college students. Smt. Niranjita Mitra, DCF, Publicity Division, Department of Forests, conducted both the quiz contests. There were 22 teams from school and 16 teams from colleges. The pre-lunch session was for school whereas the post-lunch session was for college students. Initially there was a screening round for all the teams. From this round, 5 teams were chosen for the final round. Our esteemed guests of the day were Sri V. K. Yadav, IFS, Addl. PCCF and Member Secretary, West Bengal Zoo Authority, Sri Arunava Roy, Director, Doordarshan, Sri Prasanta Saha, President, Environment Society and Sri Sandip Bhutoria, President, Prabha Khaitan Foundation. From Each category, a winner and a runner-up team were chosen

and trophies were given. The other teams were presented with consolation prizes. There were spot prizes (books) for the audience who answered the open questions.

After the screening round of the Recitation Competition on 23rd and 24th September, 2019, the final round was held on the 4th day of the 3rd Zoo Festival on 17th November, 2019. The selected students from the screening round participated in the final round. The screening round was judged by Smt. Debkanta Samanta, Smt. Saswati Majumder, Smt. Sushmita Chakraborty and Smt. Sougata Sen. The final competition held on 17th November, 2019 was judged by esteemed judges, Smt. Rupasri Kahali and Smt. Sreya Bose. Dr. Sushanto Roychowdhury, Sr. Professor, Wildlife Institute of India, Dehradun, Smt. Debkanta Samanta, Sri Sumanta Roy, Joint Labour Commissioner (P) were present as a guest. Later on, on the 2nd half of the day's events, Smt. Bratati Bandyopadhyay, renowned reciter, joined us for the prize distribution session.

18th November was the 5th day of the Zoo Festival. An extempore speech competition was organized for the school and college students. The topics of the speech were based mainly on wildlife and environment. The pre-lunch session was for school students and post-lunch session was for college students. The event was judged by Smt. Maupiya Nandi, Sri Sumit Sen and Col. Saktiranjana Banerjee. Sri V. K. Yadav, IFS, Addl. PCCF & Member Secretary, West Bengal Zoo Authority and Sri Sabyasachi Chakraborty, eminent actor, were the guests for the day's events. The students gave fact rich speeches with a message for a sustainable future. Around 90 students from schools and colleges participated in the competition. There were three winners for each category and 15 consolation prizes were given in each category.

19th November was the last day of the Zoo Festival. On this day, craft competition was organized for both school and college students. For school students, there was Mask making Competition (Class V-VII) and T-shirt Painting Competition (Class VIII-XII) and for college students, T-shirt Painting competition was there. Around 180 students from different school and colleges participated in the day's events. In the pre-lunch session, a workshop was conducted by Smt. Tania Halder on Mask Making followed by the competition. Post-lunch session was for T-shirt Painting competition for School and College students. Topics of the events were- 'Conservation of endangered species in Zoo for class VIII-XII students and 'Stop killing the endangered animals' for college students. The judges, Smt. Alka Yadav and Sri Gopal Das, chose 3 winners and 15 consolation prize winners from each group. Sri B. P. Gopalika, IAS, Addl. Chief Secretary to the Govt. of West Bengal, Department of Forests and Sri T.V.N. Rao, IFS, PCCF, General, Department of Forests, Govt. of West Bengal and Sri V. K. Yadav, IFS, Addl. PCCF & Member Secretary, West Bengal Zoo Authority, were the guests of honour on the day.

16. Range Officers Training from Telengana State Forest Academy:

A group of trainee Range Officers along with a faculty member from Telengana State Forest Academy visited the Zoological Garden, Alipore on 29th November, 2019 under the East India Study Tour Programme. A brief presentation was given on Zoo Management by Zoo Educator and Education Assistant. Smt. Piyali Chattopadhyay, Deputy Director, Zoological Garden, Alipore, Sri Pradip Datta, Assistant Director, Zoological Garden, Alipore, Zoo Dietician were present during the programme. The brief presentation on Zoo and its management was followed by a guided Zoo visit.

17. College Visit:

A group of 30 students from Vivekananda College, Thakurpukur visited the Zoo for an educational excursion on 6th December, 2019 with 2 faculty members. They visited the Zoo and a brief speech was given by Education Assistant and Zoo Educator on the Zoo Management and Importance of Zoo in Conservation. Later they we went for a guided Zoo visit.

18. Educational Visit:

A group of 25 students along with 3 faculty members visited Zoological Garden, Alipore on 13th December, 2019 for an educational tour. A brief speech on Zoo management and role of Zoo in wildlife conservation was given by Zoo Educator and Education Assistant followed by a guided Zoo visit.

19. Range Officers training from Tamil Nadu Forest Academy:

A group of 30 trainee Range Officers along with 2 faculty members from Tamil Nadu Forest Academy visited the Zoological Garden, Alipore on 18th December under East India Tour Programme. A guided zoo visit was organized by Zoo Educator and Education Assistant and a brief speech was given on Zoo management.

20. Educational Tour from Charuchandra College:

A group of 30 students along with 2 faculty members visited Zoological garden, Alipore from Charuchandra College on 20th December, 2019. A brief speech was given on Zoo management and role of zoos in conservation by Zoo Educator and Education Assistant followed by a guided Zoo visit.

21. Inauguration of Nocturnal House and Wild Dog Enclosure:

On 22nd December, 2019 the Nocturnal House and Wild Dog Enclosures were inaugurated and new born Lion cubs were released into their enclosure by Sri Rajib Bannerjee, Hon'ble MIC, Department of Forests, Govt. of West Bengal and Sri Sujit Bose, Hon'ble MoS, Fire and Emergency Services (Independent Charge) & Forests, Govt. of West Bengal, Sri V.K. Yadav, IFS, Addl. PCCF & Member Secretary, West Bengal Zoo Authority and Sri R.K. Sinha, PCCF, Wildlife & CWLW, Govt. of West Bengal. Hon'ble guests of the day. The Hon'ble ministers interacted with the visitors of the Zoo. A plastic bottle recycling machine was also installed and inaugurated on the same day.

22. School visit:

A group of 50 students along with 9 teachers came for a visit at the zoological Garden, Alipore on 9th February, 2020. A guided zoo visit was organized for the Students by Research Assistant.

23. DVM Training programme:

A group of 85 students along with 3 faculty members visited Zoological Garden, Alipore under Short Training Programme for DVM Intern Training from Sylhet Agricultural University, Bangladesh on 10th – 12th February, 2020.

24. Range Officers Training:

A group of 30 trainee Range Officers along with 2 faculty members visited Zoological Garden, Alipore under their East India Tour Programme on 16th February, 2020. A brief presentation followed by a guided Zoo visit were organised by Zoo Educator and Education Assistant.

25. School Visit:

Around 100 students along with 10 teachers visited Zoological Garden, Alipore for an excursion on 28th February, 2020 from Gohaldiha Jati Upajat Blue Birds Womens Welfare Centre. A guided Zoo visit was organised by Zoo Educator and Education Assistant.

26. World Wildlife Day:

On the occasion of World Wildlife Day an awareness programme was organised by Zoological Garden, Alipore by the Zoo Educator and Education Assistant. Students and teachers from Dakshin Raipur FP School participated in the programme. There was a brief presentation on importance and conservation of Wildlife followed by a guided Zoo visit. Some AV clippings of animals of Zoo are also shown to the students.

19. 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.

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

Medicinal Supplementation

- Preventive antibiotic coverage during peak season.

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

Medicinal Supplementation

- Preventive antibiotic coverage during peak season.
- Spraying of disinfectant before hibernation as prophylactic measure
- Anti-stress medication is provided to all

20. Research Work carried out and publications

The following research project and publications going on in the Zoo.

1. Analysis of treatment provided & mortality of animals in all the Zoos under the control of WBZA in the last 10 years.
2. News letter published quarterly.

21. 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.

22. Animal acquisition / transfer / exchange during the year

A. Animals arriving in the Zoo					
	H.NO.	Species	Number(M:F)	From which Zoo	Date of arrival of Zoo
		Yellow Anaconda	2:2=4	The Madras Crocodile Bank Trust and Centre for Herpetology, Tamil Nadu	11.06.2019
		White Tiger	1:0=1	Sanjay Gandhi Biological Park, Patna, Bihar	21.06.2019
		Sambar	1:1=2	Sanjay Gandhi Biological Park, Patna, Bihar	21.06.2019
		Black Buck	3:3=6	Sanjay Gandhi Biological Park, Patna, Bihar	21.06.2019
		Leopard	1:1=2	North Bengal Wild Animals Park, Siliguri	07.07.2019
		Wild Dog	2:2=4	Indira Gandhi Zoological Park, Visakhapatnam, Andhra Pradesh	19.11.2019
		Ring Tailed Lemur	1:1=2	Indira Gandhi Zoological Park, Visakhapatnam, Andhra Pradesh	19.11.2019
		Spot Billed Pelican	1:1=2	Indira Gandhi Zoological Park, Visakhapatnam, Andhra Pradesh	19.11.2019
		Red Jungle Fowl	2:2=4	Padmaja Naidu	20.02.2020

				Himalayan Zoological Park, Darjeeling	
B.	Animals going from the Zoo				
	H.NO.	Species	Number(M:F)	Going to which Zoo	Date of deposition from the Zoo
		Banded Krait	2:2=4	The Madras Crocodile Bank Trust and Centre for Herpetology, Tamil Nadu	08.06.2019
		Monocellate Cobra	2:2=4	The Madras Crocodile Bank Trust and Centre for Herpetology, Tamil Nadu	08.06.2019
		Zebra	0:1=1	Sanjay Gandhi Biological Park, Patna, Bihar	22.06.2019
		Barking Deer	2:2=4	Bardhaman Zoological Park	07.11.2019
		Marsh Crocodile	1:1=2	North Bengal Wild Animals Park, Siliguri	20.02.2020

27. Statement of income and expenditure of Zoo

28. Annual inventory of animals

29. Mortality of animals

Sl. No.	Animal Name (with individual identification mark, if any)	Scientific Name	Date of death	Sex	Reason of death as per the post-mortem report
Mammals					
1	Indian Lion	<i>Panthera leo persica</i>	10.04.2019	M	Pneumonia with chronic hepatitis
2	Barking Deer	<i>Muntiacus muntjac</i>	19.04.2019	M	Cardio-respiratory failure
3	Common Marmoset	<i>Callithrix jacchus</i>	24.04.2019	M	Putrified unfit for Post Mortem
4	Four-horned Antelope	<i>Tetracerus quadricornis</i>	24.04.2019	F	Hydropericardium
5	Four-horned Antelope	<i>Tetracerus quadricornis</i>	25.04.2019	M	Infighting injury
6	Nilgai	<i>Boselaphus tragocamelus</i>	25.04.2019	M	Theileriosis
7	Four-horned Antelope	<i>Tetracerus quadricornis</i>	24.04.2019	F	Pneumonia
8	Zebra	<i>Equus burchrilli</i>	06.05.2019	M	Bruising wound in right flank
9	Mouse Deer	<i>Moschila meminna</i>	08.05.2019	M	Septicaemia
10	Fishing Cat	<i>Felis viverrinus</i>	13.05.2019	M	Hydrothorax and Ascites
11	Spotted Deer	<i>Axis axis</i>	22.05.2019	M	Infighting injury
12	Spotted Deer	<i>Axis axis</i>	30.05.2019	M	Infighting injury
13	Bengal Tiger	<i>Panthera tigris tigris</i>	15.07.2019	M	Acute myonecrosis
14	Bonnet Monkey	<i>Macaca radiate</i>	02.08.2019	M	Chronic respiratory disease
15	Mouse Deer	<i>Moschiola meminna</i>	12.08.2019	F	Renal failure
16	Swamp Deer	<i>Cervus duvauceli</i>	16.08.2019	F	Senility

17	Swamp Deer	<i>Cervus duvauceli</i>	16.08.2019	M	Chronic wasting disease
18	Spotted Deer	<i>Axis axis</i>	22.08.2019	M	Infighting injury
19	Rhesus Macaque		29.08.2019	F	Shock due to dystocia
20	Mouse Deer	<i>Moschiola meminna</i>	02.10.2019	M	Renal Failure
21	Bow Antlered Deer	<i>Cervus eldi eldi</i>	16.10.2019	M	Splenomegaly
22	Fishing Cat	<i>Felis viverrinus</i>	09.11.2019	M	Nephritis
23	Nilgai	<i>Boselaphus tragocamelus</i>	19.11.2019	F	Theileriosis
24	Mouse Deer	<i>Moschila meminna</i>	02.01.2020	F	Pneumonia
25	Eastern Grey Kangaroo	<i>Macropus giganteus</i>	04.01.2020	F	Pneumonitis
26	Spotted Deer	<i>Axis axis</i>	07.01.2020	F	Enteric infection
27	Spotted Deer	<i>Axis axis</i>	08.01.2020	F	Enteric infection
28	Spotted Deer	<i>Axis axis</i>	11.02.2020	F	Placentitis
29	Brow Antlered Deer	<i>Cervus eldi eldi</i>	21.02.2020	M	Infighting injury
30	Fishing Cat	<i>Felis viverrinus</i>	29.02.2020	M	Cardiac Failure
31	Blackbuck	<i>Antilope cervicapra</i>	15.03.2020	F	Cardio-respiratory failure
32	Stripped Hyena	<i>Hyaena hyaena</i>	29.03.2020	M	Pneumonia
33	Jungle Cat	<i>Felis chaus</i>	29.03.2020	M	Anemia
34	Jungle Cat	<i>Felis chaus</i>	31.03.2020	M	Haemoprotozoan infection
Reptiles					
1	Spectacled Cobra	<i>Naja naja</i>	21.04.2019	M	Anorexia
2	Monocled Cobra	<i>Naja naja kaouthia</i>	05.05.2019	M	Verminous Pneumonia
3	Soft shell Turtle		07.05.2019	F	Enteritis
4	Vine Snake	<i>Ahaetulla nasuta</i>	24.05.2019	F	Putrefied unfit for Post Mortem
5	Russell Viper	<i>Daboia russelii</i>	05.07.2019	F	Respiratory tract infection
6	Star Tortoise	<i>Geochelone elegans</i>	26.07.2019	M	Carcass unfit for Post Mortem
7	Star Tortoise	<i>Geochelone elegans</i>	27.07.2019	M	Cloacal prolapsed
8	Rock Python	<i>Python molurus</i>	21.08.2019	F	Gastrointestinal Nematodoasis
9	Russel Viper	<i>Daboia russelii</i>	01.09.2019	F	Hepatic disorder
10	Star Tortoise	<i>Geochelone elegans</i>	18.09.2019	M	Hepatic Lipidosis
11	Banded Krait	<i>Bungaurus fasciatus</i>	27.09.2019	M	Pneumonia

12	Common Krait	<i>Bungaurus caeruleus</i>	07.01.2020	F	Verminous Pneumonia
13	Monitor Lizard		16.01.2020	F	Herpes viral infection
14	Monitor Lizard		19.01.2020	M	Hepatitis
15	Monocled Cobra	<i>Naja naja kaouthia</i>	15.02.2020	M	Verminous Pneumonia
16	Rock Python	<i>Python molurus</i>	20.03.2020	M	Anemia

Birds					
1	White Peafowl	<i>Pavo cristatus</i>	05.04.2019	M	Intestynal capillariasis
2	Chinese Silver Pheasant	<i>Chrysolophus amherstiae</i>	18.05.2019	F	Putrified unfit for Post Mortem
3	Spotted Dove	<i>Spilopelia chinensis</i>	22.05.2019	M	Infighting injury
4	Spotted Dove	<i>Spilopelia chinensis</i>	22.05.2019	M	Upper respiratory tract disease
5	Indian Peafowl	<i>Pavo cristatus</i>	24.05.2019	2 F	Haemorrhagic laryngitis
6	Spotted Dove	<i>Spilopelia chinensis</i>	21.06.2019	M	Chronic wasting disease
7	Reeves Pheasant	<i>Syrnaticus reevesi</i>	30.06.2019	M	Dilated Pre-gastric GI Tract
8	Indian Peafowl	<i>Pavo cristatus</i>	05.07.2019	F	Haemorrhagic laryngitis
9	Goffins Cockatoo	<i>Cacatua goffini</i>	02.08.2019	M	Infighting injury
10	Sarus Crane	<i>Grus antigone</i>	10.08.2019	F	Traumatic shock
11	Bar headed Goose	<i>Anser indicus</i>	08.08.2019	M	Enteritis
12	Moluccan Cockatoo	<i>Cacutua moluccensis</i>	01.09.2019	F	Infighting Injury
13	Finch	<i>Taeniopygia guttata</i>	01.09.2019	M	Respiratory infection
14	Spoonbill	<i>Platelea leucorodia</i>	02.09.2019	M	Enteric Infection
15	Hill Myna	<i>Gracula religiosa</i>	02.09.2019	M	Respiratory infection
16	Finch	<i>Taeniopygia guttata</i>	22.09.2019	M	Enteritis
17	Chinese Silver Pheasant	<i>Lophura nycthemera</i>	06.11.2019	M	Traumatic Shock
18	Indian Peafowl	<i>Pavo cristatus</i>	04.12.2019	0:0:1	Enteritis
19	Blue & yellow Macaw	<i>Are ararauna</i>	18.12.2019	M	Traumatic Shock

20	Rosy Pelican	<i>Pelecanus onocrotalus</i>	18.01.2020	F	Infighting shock
21	Budgerigar	<i>Melopsittacus undulates</i>	19.09.2020	2 F	Herpes viral & E.coli infection
22	Spoonbill	<i>Platylea leucorodia</i>	20.03.2020	M	Hepatitis
23	Lady Amherst's Pheasant	<i>Chrysolophus amherstiae</i>	31.03.2020	M	Enteritis

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

28. List of free living wild animals within the zoo premises

- a. Mammals – Civet Cat, Flying Fox, Squirrel, Mongoose etc.
- b. Birds – King Fisher, Painted Stork, Night Heron, Egrets, Little Cormorant, Teal, Sparrow. Crow, Common Myna, Dove, Parakeet, Budge etc.
- c. Reptiles – Rat Snake, Water keelback, Monitor Lizard, Calotes etc.

