

NANDANKANAN ZOOLOGICAL PARK

Annual Report for the year

2017-18



CONTENTS

S.No	Section	Page Number
1.	Report of the Officer-in-charge	4
2.	History of the Zoo	7
3.	Vision	10
4.	Mission	10
5.	Objective	10
6.	About us	11
7.	Organizational Chart	13
8.	Human Resources	14
9.	Capacity Building of the zoo personnel	16
10.	Zoo Advisory Committee	17
11.	Health Advisory Committee	17
12.	Statement of income and expenditure of the Zoo	18
13.	Daily feed Schedule of animals	19
14.	Vaccination Schedule of animals	43
15.	De-worming Schedule of animals	44

S.No	Section	Page Number
16.	Disinfection Schedule	45
17.	Health Check-up of employees for zoonotic diseases	46
18.	Development Works carried out in the zoo during the year	51
19.	Education and Awareness programmes during the year	52
20.	Important Events and happenings in the zoo	53
21.	Seasonal special arrangements for upkeep of animals	54
22.	Research Work carried out and publications	57
23.	Conservation Breeding Programme of the Zoo	58
24.	Animal acquisition / transfer / exchange during the year	59
25.	Rescue and Rehabilitation of the wild animals carried out by the zoo	60
26.	Annual Inventory of animals	64
27.	Mortality of animals.	75
28.	Status of the Compliance with conditions stipulated by the Central Zoo Authority	79
29.	List of free living wild animals within the zoo premises	85

1. Report of the Officer-in-charge

Nandankanan Zoological Park is one of the premier large zoos of the country. Established on 29th December 1960 as the first zoological park of the State, it has progressively emerged as an eminent and vibrant centre for biodiversity conservation and environmental education. As a premier large zoo of India, it has spearheaded many significant improvements to provide highest standards of housing, husbandry and health care to the captive wild animals and contributed towards enriching our knowledge on the biology of endangered species.

It enjoys a special place in our country for its inimitable amalgamation of *in-situ* and *ex-situ* conservation initiatives. The Zoological Park together with the Kanjia lake and the Botanical Garden has been declared as Nandankanan Wildlife Sanctuary over an area of 4.37 sq.km on 3rd August, 1979. The sprawling zoo houses 154 species of amphibians, reptiles, birds and mammals. The natural forest areas of Nandankanan provide home to a rich assemblage of free-living wild animals including 13 species of mammals, 15 species of reptiles, 71 species of birds, 20 species of amphibians, 85 species of butterflies and 51 species of spiders. The State Botanical Garden which spreads over an area of 75 ha adjoining the Zoological Park was handed over to Nandankanan Management since August, 2006. This is one of the most important plant conservation facilities in the State. More than 704 species of plants have been documented in the State Botanical Garden. There are two important wetlands present in Nandankanan namely Kanjia lake (66 ha) and Kiakani lake. The former is the main water source for Nandankanan Zoological Park and State Botanical Garden. It also plays an important role in wetland education and supporting rich diversity of flora and fauna. Therefore, it has been listed a Wetlands of National importance by the Ministry of Environment, Forests and Climate Change, Government of India in the year 2006.

We have completed another outstanding year of biodiversity conservation, zoo management, research & education. Nandankanan has been an excellent place for eco-tourism which attracted more than 3.3 million visitors during the year. There was significant improvement in the infrastructure development, animal collection, health care, fodder production and conservation research. Many zoo education and awareness programmes including Celebration of World Wetlands Day, World Pangolin Day, World wildlife day, Wildlife Week, World Elephant Day, International tiger day, Foundation Day etc. were organized during the year 2017-18. Many species of wild and exotic animals including Indian tiger, Sloth bear, Indian pangolin, Chimpanzee, Mouse deer, Jackal, Jungle cat, Gaur,

Common palm civet, Sambar, Brow antlered deer, Spotted deer, Hippopotamus, Blue faced lorikeet, Red jungle fowl, Indian peafowl, cockatiel, Jandaya conure, Sun conure, Mandarin duck, Swainson's lorikeet, Golden pheasant, Silver pheasant. Lady Amherst's pheasant, Java sparrow, Grey pelican, Black kite, Night Heron, Barn owl, Alexandrine parakeet, White Ibis, Budgerigar, Gharial, Mugger etc. have bred successfully in the Park during the year. Nandankanan had successfully reared one tiger cub, asian elephant, bonnet macaque and sloth bear during the period.

During the year, many enclosures and visitor amenities were renovated and supplemented with standoff barrier, signages and landscaping where ever necessary. Out of which Himalayan black bear enclosure and hyena enclosure, white peafowl enclosure, snake enclosures, centre for rearing of animal babies, provision of RO water plants are worth mentioning. Besides the staff inhabiting inside the zoo premises were shifted to the newly constructed 72 quarters outside the zoo premises. A baby care house was constructed near Reptile Park to facilitate care for breast feeding babies.

This financial year we have welcomed 18 new animals of 4 species to the Zoo in animal exchange programme with objective of infusion of new blood line to the existing stock and also addition of new species to the zoo collection. However, we said goodbye to some long-time residents of our Zoo, notably Kusum, the tigress and the reticulated python who are very famous among visitors. These animals are part of the Zoo's history and will be missed.

There has been a substantial improvement in the field of health care reflected in reduced annual death rate during the year. This was possible due to sincere efforts by our staff in order to maintain highest standards of health care and animal husbandry practices and close cooperation with college of Veterinary Sciences and Animal Husbandry, Odisha University of Agriculture & Technology, Bhubaneswar and also with the valuable advice and guidance of the Health Committee and Technical Committee on important health care issues.

The Zoological Park has always been an outstanding centre for education and research. Five research papers were published during the year in different national and international journals and periodicals on various aspects of ex-situ conservation, health care and management of captive wild animals.

Information on various aspects of management and development of Nandankanan during the year 2017-18 has been provided in the present Annual Report. I would like to thank all my staff for their hard work and dedication that made it a successful year in the maintenance and development of Nandankanan. I believe that Nandankanan will continue to grow as a world class zoo and to contribute significantly in the field of wildlife conservation, education and research in coming years.

Mr S. K. Acharya, IFS
Director, Nandankanan Biological Park

2. History of the Zoo

Nandankanan had a very interesting beginning. Some forest officials conceived the idea of including some rare wild animals and rare orchids typical to our State in the Odisha pavilion in World Agricultural Fair 1960 at Delhi. It was contemplated that rare animals from Odisha would certainly make the Odisha pavilion a crowd puller. Since procurement of wild animal and their transport to Delhi would be an expensive affair, therefore it was decided to include small animals like Mouse deer , Leopard cat, Wild cat, Pangolin, Racket tailed drongo , Flying Squirrel, Hill Mynah, Peacock etc. The idea was much appreciated at the higher level and a decision was taken to have a mini zoo in the World Agricultural Fair. Since there was hardly any time for the capture of wild animals from wild, it was decided to approach persons who are in possession of the wild animals and procure the same by way of hire or purchase for the exhibition. Accordingly the Divisional Forest Officers were instructed to procure the wild animals for dispatch to Delhi. Fortunately within a month several wild animals i.e. two Spotted deer, two Barking deer, two Black buck, one Mouse deer, one Leopard cat, one Flying squirrel, one Racket-tailed drongo, one Hornbill, two Parrots, two Hill Mynah, one Peacock, one Mongoose were collected. The then Divisional Forest Officer, Deogarh (Late G.M. Das) captured one Pangolin (Scaly ant-eater), two porcupines from the forests. Similarly Late P. Mohapatra, the then Divisional Forest Officer, Puri captured a pair of wild boars and a Python from the forest. All these animals were sent to the Delhi and exhibited inside Odisha Pavilion in the World Agricultural Fair.

Unfortunately the State Finance Department raised serious objections to the idea of starting a zoo in Odisha as it would involve a lot of expenditure for its establishment and maintenance. Such a venture at that point of time needed deliberation in the legislative assembly and special budget provision. In the meantime the wild animals arrived at Bhubaneswar by May, 1960 and their upkeep and feeding posed a serious problem for forest department. Fortunately the late P. Mohapatra, Divisional Forest Officer, Puri and the Late G.K. Das, Divisional Forest Officer, Deogarh came to the department's rescue. With their co-operation and efforts, temporary structures with

brush wood and thatched roof were constructed at Khandagiri near Bhubaneswar to shelter these wild animals. The Jain community also came forward with the help of feeding these wild animals at Khandagiri. These animals at Khandagiri attracted large number of visitors both from Bhubaneswar town and neighboring villages. On the 6th day Dr. H.K. Mahatab, the then Chief Minister of Odisha was pleased to see these wild animals. He immediately discussed with the Forest Minister, Forest Secretary, Finance Secretary, Chief Secretary and Chief Conservator of Forests regarding establishment of a Zoo in Odisha.

Initially it was proposed to have the zoo at Ghatikia close to Khandagiri and Udayagiri caves . It would also provide recreation to the urban population of Bhubaneswar. Later it was felt that Ghatikia would pose water problems in future. A zoo needs lot of water to meet the need of animals, cleaning of animals sheds and for various other purposes. The then Range Officer, Chandaka suggested Jujhagarh forest block on Kanjia lake near Barang Railway station as the most ideal location. The then Chief Conservator of Forests, Divisional Forest Officer, Puri, Range Officer, Chandaka and D.P. Ghosh, Forest Ranger visited the place and were impressed with its scenic beauty. Kanjia lake with its vast expanse over 125 acres low and undulating hills of Jujhagarh and Krushnanagar D.P.F.S. with lush green vegetation on both sides of the lake presented a picturesque site. Jujhagarh Forest Block had all the advantages for locating the zoo except communication from Bhubaneswar and the only approach was via Chandaka covering a distance of 38 Km.

A committee consisting of Dr. Radhanath Rath, Sri G.C. Dash and Sri D.N. Choudhury, the then Minister of Forests, Secretary, Forest and the Chief Conservator of Forests respectively visited the place. They were very much impressed with its aesthetic beauty and recommended location of the zoo there with construction of a straight road (a distance of 14 to 15 Kms.) from Bhubaneswar. Accordingly it was decided to locate the Zoological Park in Jujhagarh Forest Block, Botanical garden in Krushnanagar Forest Block and develop Kanjia lake for Boating and Angling. The Director, Fisheries agreed to develop a portion of the lake for rearing various kinds of fish for visitors to see. Initially it was decided to keep spotted deer, barking deer, black bucks, wild boars, sambars, nilgai and bears in

spacious enclosures. Other animals like leopard cat, mongoose, flying squirrel, porcupine, python, monkeys, hyena, jackal, civet cat, pangolin, jungle cat, parrots, mynah and other birds in suitable cages. It was decided to put efforts to capture tigers and leopards which could be exhibited in suitable cages for the time being and the suitable spacious enclosures would be built for them later on. It was also decided to raise a good flower garden and to plant important species and medicinal plants of Odisha inside proposed Botanical garden in Krushnanagar D.P.F.

It was contemplated to create nature simulating artificial streams and waterfalls by pumping water from the lake to a reservoir on the hill top and allowing the water to flow through these winding streams and locate animal enclosures along these streams so that the stream would act as barrier. Visitors would view the wild animals from the other side of the stream. Accordingly a plan was drawn but was to be abandoned because of high cost. Instead it was decided to construct enclosures, with chain link mesh fencing on three sides and wide water moat on the fourth side so that visitors can see wild animals from the moat side. A net work of roads would be constructed and animal enclosures as well as animals cages would be located along these roads. The construction activities were started over a small area to begin with to house some herbivores like Cheetals, Sambar, Barking deers and a few birds.

On 29th December, 1960, Sri S.K. Patil, the then Minister of Food and Agriculture, Govt. of India inaugurated the new Biological Park christened as "Nandankanan" the heavenly garden of God. Subsequently, a Botanical Garden came up in the year 1963. The Nandankanan Biological Park was renamed as Nandankanan Zoological Park on recommendation of the Odisha Legislative Assembly Committee on Estimates, 1981-82. The zoo started growing slowly with addition of new enclosures and new animals.

3. Vision:

To strengthen the efforts in conservation of biodiversity of the region through the ex-situ conservation linked with in-situ practices.

4. Mission

To achieve the distinction of an outstanding zoo through World Class Conservation, Education, Research and Exciting visitor experiences by connecting people to biodiversity conservation.

5. Objective

Housing of wild animals and birds with special emphasis on research and education on their ecology, behavioural biology, physiology and enrichment in a semi-natural environment.

- Conservation breeding of the endangered species in captivity with least human imprints and to release them in nature to recoup their status in the wild.
- To facilitate research and scientific study on animal behavior, enclosure enrichment, feed, nutrition and reproductive biology.
- To promote education & awareness amongst visitors towards conservation of wildlife.
- To ensure housing of captive animals and birds with special emphasis on health care, animal welfare and excellent animal husbandry.

6. About us:

S.No.	Particulars	Information
Basic Information about the Zoo		
1	Name of the Zoo	Nandankanan Zoological Park
2	Year of Establishment	1960
3	Address of the Zoo	Nandankanan Zoological Park, Barang, Bhubaneswar - 754005
4	State	Odisha
5	Telephone Number	+91-674 2547850
6	Fax Number	+91-674 2547840
7	E-mail address	nandankanazoo@yahoo.com
8	Website	www.nandankanan.org
9	Distance from nearest	Airport: 18Km
		Railway Station: 2Km
		Bus Stand: 1Km
10	Recognition Valid upto (Date)	22.03.2020
11	Category of zoo	Large
12	Area (in Hectares)	362.1 ha.
13	Number of Visitors (Financial Year)	Adult :2827978 (including 4195 differently abled persons-free entry)
		Children : 470275 (including 3591 free entry on wildlife week and children's day)
		Total Indian :3298253
		Total Foreigners : 1051
		Total Visitors: 3299304
14	Visitors' Facilities Available in Zoo	<ul style="list-style-type: none"> • Drinking water kiosks with RO facility • Free toilets at convenient locations • Special toilets, wheel chairs & ramps for differently abled persons • Rest areas / sit-outs / visitors' sheds at various locations. • Tourist cottages • Restaurant & Snacks bar (run by OTDC) • Free cloak room near the entrance gate • Perambulator for children • First-aid (at zoo hospital, observatory & administrative office) • Library

S.No.	Particulars	Information
		<ul style="list-style-type: none"> • Emission free battery operated vehicles • Guide maps • Publications • Nature shop (Souvenir shop) • Children Park • Baby care center
15	Weekly Closure Day of the Zoo	Monday
Management Personnel of the zoo		
16	Name with designation of the Officer in-charge	Mr Sisir Kumar Acharya, Director
	Name of the Veterinary Officer	Dr Balaram Sahoo
	Name of the Curator	Mr Anjan Kumar Mohanty
	Name of the Biologist	Dr Rajesh Kumar Mohapatra
	Name of the Education Officer	Mr Milan Kumar Panda
	Name of the Compounder	Mr Pradeep Kumar Nandi Mr Beda Prakash Sahoo
Owner / Operator of the Zoo		
17	*Name of the Operator	Government of Odisha, Forests and Environment Department
18	Address of the Operator	Additional chief secretary to Govt, Forests and environment Dept, Odisha
19	Contact details/Phone number of Operator	0647-2536822
20	E-mail address of Operator	efsec.od@nic.in

* Rule 2(m) of the Recognition of Zoo Rules, 2009.

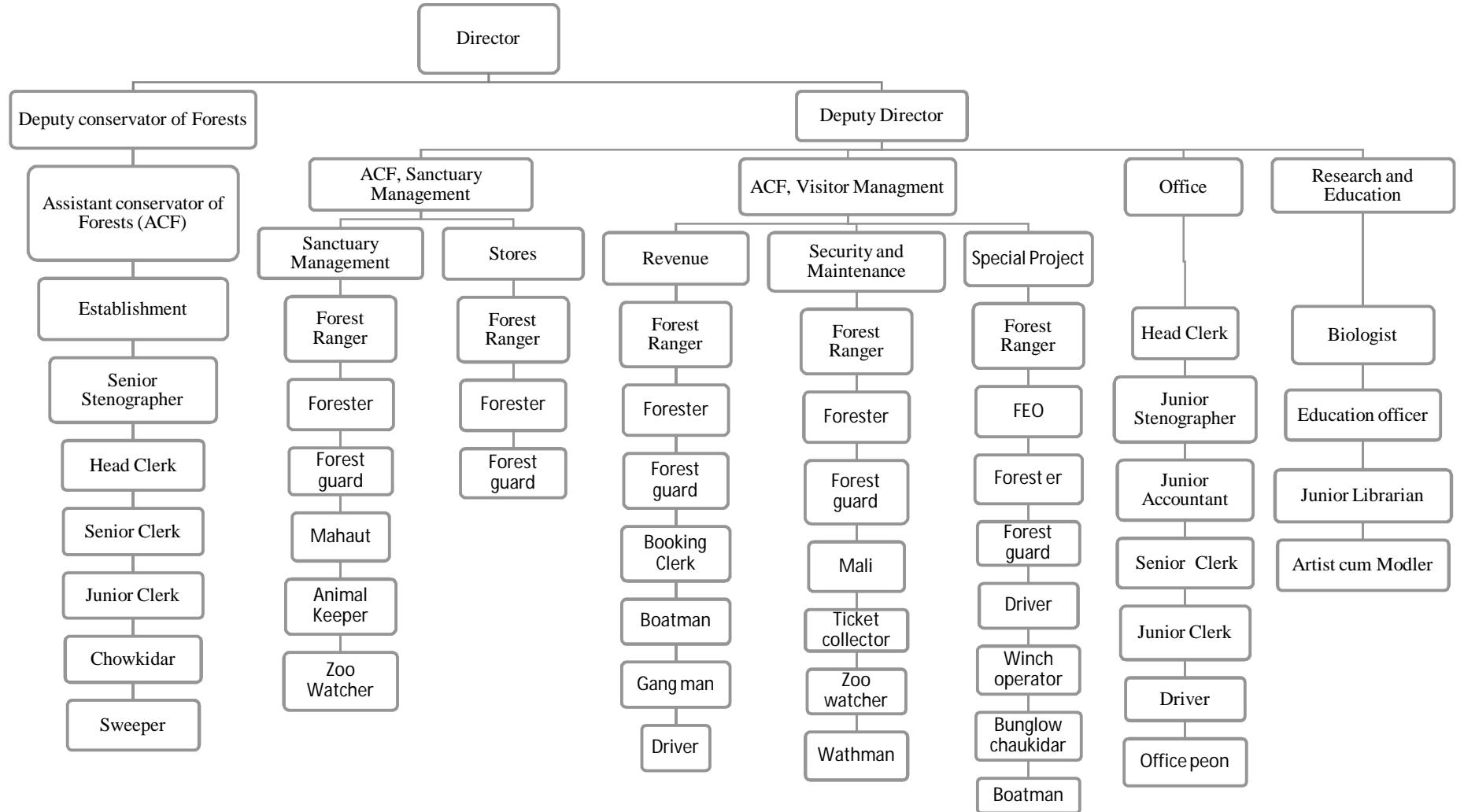
“Zoo Operator” means the person who has ultimate control over the affairs of the zoos provided that_____

I. in the case of a firm or other association of individuals, any one of the individual partners or members thereof; or

II. in the case of a company, any director, manager, secretary or other officer, who is in-charge of and responsible to the company for the affairs of the zoo; or

III. In case of zoo owned or controlled by the Central Government or any State Government or Union Territory Administration or any Trust or Society funded by the Central Government or a State Government or a Union Territory Administration, the Secretary of the concerned Department of that Government, or as the case may be the Union Territory Administration, shall be deemed to be the Zoo Operator.

7. Organizational Chart



8. Human Resources:

Manpower of the Zoo*

(A) Director's office in Mayur Bhawan, Bhubaneswar

Sl.No.	Designation	Number of Sanctioned Posts	Names of the incumbent
1	Director	1	1
2	A.C.F.	1	1
3	Forest Range Officer	1	-
4	Senior Steno	1	-
5	Senior Clerk	4	2
6	Junior Clerk	4	4
7	Driver	1	1
8	Office Chowkidar	1	1
9	Office Sweeper	1	1
10.	Office Peon	1	-
	TOTAL	16	11

(B) Deputy director Office, Nandankanan Zoological Park

Sl.No.	Designation	Number of Sanctioned Posts	Names of the incumbent
1	Deputy Director	1	1
2	Sr. Veterinary Officer	1	1
3	ACF/Curator	2	2
4	Vety. Assistant Surgeon.	1	1
5	Forest Ranger	5	5
6	F.E.S.	1	0
8	Head Clerk	1	1
9	Zoo Biologist	1	1
10	Education Officer	1	1
7	Dy.Ranger	1	1
11	Fitter-cum-Mechanic	1	0
12	Junior Accountant	5	2
13	Junior Stenographer.	1	1

14	Forester	9	8
15	Driver(H.V)	3	3
16	Driver (L.V.)	4	2
17	Livestock-Inspector.	3	2
18	Projector Operator	1	0
19	Junior Librarian	1	1
20	Artiste- cum- Modeler.	1	1
21	Guide...	1	0
22	Junior Clerk.	4	4
23	Booking Clerk	3	2
24	Engine Driver	1	0
25	Welder-cum-Blacksmith	1	0
26	Forest Guard	25	19
27	Mahout	8	0
28	Mali	5	3
29	Khansama	1	1
30	Mahout	3	3
31	Ass.Mahunta	8	0
32	Animal Keeper	101	76
33	Office Peon/Attendant	6	5
34	Sweeper	11	9
35	Bungalow Chowkidar	3	1
36	Winch Operator	1	1
37	Gangman	2	0
38	Ticket Collector	10	5
39	Mate	2	1
40	Boat Man	2	0
41	Zoo Watcher	22	19
42	Watchman	27	24
43	Cook-Cum-Animal feed Distributor	2	1
	GRAND TOTAL:	293	208

*Please give above mentioned information in respect of all zoo personnel, from the Officer in-charge upto the Animal Keeper.

9. Capacity Building of zoo personnel:

Sl.No.	Name and designation of the zoo personnel	Subject matter of Training	Period of Training	Name of the Institution where the Training attended
1	Dr. Debabrat Mohapatra, Specialist	Capacity building of Indian Zoo veterinarians on animal health management in captivity	16 th -19 th September, 2017	National Zoological Park, New Delhi
2.	Dr. Rajesh Kumar Mohapatra, Biologist	Mid-level officials training programme	11 th -14 th December 2017	Sanjay Gandhi Biological Park, Patna
3	Mr Sisir Kumar Acharya, Director	'Vision 2030 of zoos in India': Annual conference	18 th -21 th December 2017	Chamrajendra zoological gardens , Mysore.
4.	1. Prafulla Bag, Animal Keeper 2. Dukhishyam Behera, Animal Keeper	Zoo keepers training	20 th -25 th March, 2018	Nandankanan Zoological Park, Bhubaneswar
5	1. Arup Kumar Rout, Forest guard 2. Milibala Jena, Forest guard 3. Rama Chandra Kandi, Forest guard	Training on tranquilization techniques	28 th -29 th March 2018	Nandankanan Zoological Park, Bhubaneswar

10. Zoo Advisory Committee:

a. **Date of constitution:** A Technical Committee was constituted on 22.08.2000.

b. Members

- Dr S. K. Roy, Prof. & HOD, Deptt. Of Medicine, Orissa, Veterinary college-
Chairman
- Dr J.N. Mohanty, Retd. Prof. Surgery, Orissa Veterinary College and Regd.
Director, Veterinary Services- Member
- Sri Sudhakar Mohapatra, IFS (Retd) (Former Chief Wildlife Warden, Odisha)-
Member
- Dr L.N. Acharjyo, Veterinarian (Retd), At- MIG-7, Bermunda Housing Board
Colony, Bhubaneswar- Member
- Conservator of Forests (WL) & Ex-Officio Director, Nandankanan Zoological Park,
Bhubaneswar –Convenor

c. Dates on which Meetings held during the year: 23.08.2017

11. Health Advisory Committee:

Date of constitution: 21.08.2008-MoU signed with CVSc & AH, OUAT

Members of Health Committee

1. Dr N. Sahoo, Prof. Preventive medicine, CVSc & AH, OUAT, Coordinator
2. Dr I. Nath, Prof. Surgery, CVSc & AH, OUAT, Co-coordinator
3. Dr S.K. Panda, Prof. Pathology, CVSc & AH, OUAT, Co-coordinator

d. Dates on which Meetings held during the year:

- i. 03.04.2017,
- ii. 13.04.2017,
- iii. 20.05.2017,
- iv. 29.05.2017,
- v. 04.08.2017,
- vi. 04.10.2017,
- vii. 25.11.2017,
- viii. 14.01.2018,

- ix. 26.01.2018,
- x. 28.01.2018,
- xi. 12.02.2018 &
- xii. 16.03.2018.

12. Statement of income and expenditure of the Zoo

2017-18	NON-PLAN	STATE PLAN	CENTRAL PLAN	RCSP	CZA	CAMPA
Allotment	106.763	511.70	NIL	10.00	3.70	666.57 (released 447.77)
Expenditure	102.526	511.70	NIL	10.00	2.90	147.18

13. Daily feed Schedule of animals

SL.NO	SPECIES	FOOD ITEM	Quantity		Day of fasting
			Winter	Summer	
1	BUDGERIGAR	MILLET MIX (COMMON,RED,WHITE) PADDY GREEN SAG EGG (BOILED) (FOR GROUP OF 50 BIRDS) CUTTLE FISH BONE (MONDAYS)	0.025 0.010 0.005 1 NO 0.005	0.025 0.010 0.005 1 NO 0.005	NO
2	CANARY	MILLET MIX (COMMON,RED,WHITE) PADDY GREEN SAG CUTTLE FISH BONE (MONDAYS)	0.010 0.010 0.005 0.002	0.010 0.010 0.005 0.002	NO
3	COCKATIEL, WHITE/ CINNAMON PEARS PIED	BENGAL GRAM (soaked) MILLET MIX (COMMON,RED,WHITE) PADDY GREEN SAG ONION SEED MIX (SUNFLOWER/SAFFLOWER) EGG BOILED (FOR THE GROUPOF 10) CUTTLE FISH BONE (MONDAYS)	0.010 0.020 0.010 0.025 0.010 0.010 1 NO 0.002	0.010 0.020 0.010 0.025 0.010 0.010 1 NO 0.002	NO

4	COCKATOO, LESSER/ SULPHUR CRESTED/ UMBRELLA	APPLE EGG (BOILED) GROUND NUT GRAPE RIPE BANANA BENGAL GRAM(SOAKED) SEED MIX (SUNFLOWER/SAFFLOWER) RIPE PAPAYA GREEN MAIZE WITH SPIKE (SEP-OCT) RIPE GUAVA (SEP-OCT)	0.030 ½ NO 0.030 0.030 0.030 0.015 0.020 0.050 0.050 0.050	0.030 ½ NO 0.030 0.030 0.030 0.015 0.020 0.050	NO
5	CONURE, BROWN THROATED/ JANDAYA / SUN/PINEAPPLE/ YELLOW SIDED	APPLE BENGAL GRAM(SOAKED) GROUND NUT GRAPE GREEN SAG RIPE PAPAYA SEED MIX (SUNFLOWER/SAFFLOWER) GREEN MAIZE WITH SPIKE (SEP-OCT) RIPE GUAVA (SEP-OCT) PINEAPPLE (MAY-JULY)	0.030 0.005 0.025 0.015 0.025 0.030 0.010 0.050 0.050	0.030 0.005 0.025 0.015 0.025 0.030 0.010 0.050 0.025	NO
6	CRANE, SARUS	KERANDI FISH PULSES & GRAIN FEED BENGAL GRAM (SOAKED)	0.250 0.150 0.050	0.250 0.150 0.050	NO
7	DOVE, BARBARY/ LAUGHING/RING NECKED	POULTRY FEED PULSES & GRAIN FEED GREEN SAG BOILED EGG	0.010 0.050 0.010 ½ NO	0.010 0.050 0.010 ½ NO	NO
8	DOVE, SPOTTED/EMRALD	POULTRY FEED PULSES & GRAIN FEED GREEN SAG BOILED EGG	0.010 0.030 0.010 ½ NO	0.010 0.030 0.010 ½ NO	NO

		MUSTARD	0.005	0.005	
9	DOVE, DIAMOND	MILLET MIX (COMMON,RED,WHITE) PADDY PULSES & GRAIN FEED GREEN SAG CUTTLE FISH BONE (MONDAYS) BOILED EGG	0.010 0.005 0.030 0.005 0.002 1/2NO	0.010 0.005 0.030 0.005 0.002 1/2NO	NO
10	DUCK, MANDARIN	DUB GRASS GREEN SAG PADDY POULTRY FEED PULSES & GRAIN FEED WHEAT, SOAKED BENGAL GRAM, SOAKED	0.020 0.030 0.010 0.050 0.060 0.025 0.025	0.020 0.030 0.010 0.050 0.060 0.025 0.025	NO
11	EGRET, LITTLE/MEDIAN/ CATTLE/ LARGE	GADISHA FISH KERANDI FISH	0.200 0.100	0.200 0.100	NO
12	EMU	BENGAL GRAM CHHATU BENGAL GRAM,SOAKED EGG (BOILED) GARLIC GREEN SAG ONION RIPE BANANA GRAPES	0.200 0.300 1NO 0.010 0.250 0.050 0.200 0.050	0.200 0.300 1NO 0.010 0.250 0.050 0.200 0.050	NO
13	FINCH (BENGALESE / LONG TAILED /STAR/ZEBRA)	MILLET MIX (COMMON,RED,WHITE) PADDY GREEN SAG EGG (BOILED) (FOR GROUP OF 50 INDIVIDUALS) CUTTLE FISH BONE (MONDAYS)	0.010 0.010 0.005 1NO 0.002	0.010 0.010 0.005 1NO 0.002	NO

14	HORNBILL, GREY/ ORIENTAL PIED	RIPE BANANA GRAPE GOAT LIVER BENGAL GRAM CHHATU	0.100 0.050 0.050 0.050	0.100 0.050 0.050 0.050	NO
15	HERON, GREY/NIGHT	KERANDI FISH	0.100	0.100	NO
16	HILL MYNAH	BENGAL GRAM CHHATU RIPE BANANA APPLE GRAPE	0.025 0.050 0.025 0.025	0.025 0.050 0.025 0.025	NO
17	IBIS (BLACK/ WHITE)	KERANDI FISH	0.300	0.300	NO
18	JUNGLE FOWL, RED	BENGAL GRAM (SOAKED) POULTRY FEED PULSES AND GRAIN FEED PADDY GARLIC ONION MEAL WORM BOILED EGG (FOR THE GROUP)	0.050 0.050 0.030 0.020 0.005 0.010 5NO 1NO	0.050 0.050 0.030 0.020 0.005 0.010 5NO 1NO	NO
19	KITE, BRAHMINY	KERANDI FISH DAY OLD CHICKS/WHITE MICE	0.250 1NO	0.250 1NO	NO
20	KITE, BLACK	KERANDI FISH BUFFALO MEAT DAY OLD CHICK/WHITE MICE	0.050 0.200 1NO	0.050 0.200 1NO	NO
21	KOEL	GOAT MEAT KIMA BENGAL GRAM CHHATU RIPE BANANA GRAPE	0.025 0.025 0.050 0.025	0.025 0.025 0.050 0.025	NO
22	LOVE BIRD (FISCHERS/ PEACH-FACED/MASKED)	BENGAL GRAM,SOAKED MILLET MIX (COMMON,RED,WHITE) PADDY	0.010 0.020 0.010	0.010 0.020 0.010	NO

		GROUND NUT GREEN SAG SEED MIX (SUNFLOWER/SAFFLOWER CUTTLE FISH BONE (MONDAYS)	0.010 0.030 0.010 0.002	0.010 0.030 0.010 0.002	
23	LORIKEET, BLUE FACED/ SWAINSON' S	APPLE BENGAL GRAM,SOAKED RIPE PAPAYA GRAPE GREEN SAG RIPE BANANA RIPE GUAVA (SEPT-OCT) GREEN MAIZE WITH SPIKE (SEP-OCT)	0.050 0.010 0.050 0.025 0.030 0.050 0.050 0.050	0.050 0.010 0.050 0.025 0.030 0.050	NO
24	LORRY, YELLOW BACKED / RED CHATTERING	APPLE BENGAL GRAM,SOAKED GRAPE HONEY GREEN SAG RIPE BANANA RIPE PAPAYA RIPE GUAVA (SEPT-OCT) GREEN MAIZE WITH SPIKE (SEP-OCT)	0.050 0.010 0.025 0.005 0.030 0.050 0.050 0.050 0.050	0.050 0.010 0.025 0.005 0.030 0.050 0.050	NO
25	MACAW, GREEN WINGED/ BLUE & YELLOW	APPLE BENGAL GRAM (SOAKED) PISTACHIO WITH SHELL GRAPE SEED MIX (SUNFLOWER/SAFFLOWER) RIPE BANANA GREEN PEA POD (DEC-FEB) CUSTARD APPLE (SEPT-OCT) GREEN MAIZE WITH SPIKE (SEP-OCT) WATER MELON (APR-MAY) RIPE GUAVA (SEP-OCT)	0.050 0.015 0.010 0.030 0.015 0.050 0.100 0.050 0.050 0.050 0.050	0.050 0.015 0.010 0.030 0.015 0.050 0.050 0.050 0.050	NO
26	MUNIA	MILLET MIX (COMMON,RED,WHITE)	0.010	0.010	NO

	(RED/BLACK HEAD/SPOTTED)	CUTTLE FISH BONE (MONDAYS) PADDY GREEN SAG	0.002 0.010 0.010	0.002 0.010 0.010	
27	OWL (BARN/ ORIENTAL SCOPS)	DAY OLD CHICK WHITE MICE	1NO 1NO	1NO 1NO	NO
28	OWL, BROWN FISH	DAY OLD CHICK WHITE MICE KERANDI FISH	2NO 2NO 0.100	2NO 2NO 0.100	NO
29	PARAKEET, (MOUSTACHED/ ROSE RINGED/ BLOSSOM HEADED/ ALEXANDRINE/RING NECKED	BENGAL GRAM,SOAKED SEED MIX (SUNFLOWER/SAFFLOWER) GROUNDNUT APPLE GREEN SAG MAIZE RIPE BANANA RIPE PAPAYA GREEN MAIZE WITH SPIKE (SEP-OCT) RIPE GUAVA (SEPT-OCT) WATER MELON (APR-MAY) GREEN PEA POD (DEC-FEB)	0.010 0.010 0.010 0.020 0.020 0.010 0.015 0.025 0.025 0.025 0.010	0.010 0.010 0.010 0.020 0.020 0.010 0.015 0.025 0.025 0.025 0.010	NO
30	PEAFOWL, INDIAN	BENGAL GRAM,SOAKED GROUND NUT GARLIC GREEN SAG ONION POULTRY FEED PULSES & GRAIN FEED PADDY	0.050 0.050 0.005 0.100 0.050 0.040 0.040 0.050	0.050 0.050 0.005 0.100 0.050 0.040 0.040 0.050	NO
31	PELICAN, GREY/ROSY	GADISHA FISH	1.000	1.000	NO
32	PHEASANT, GOLDEN/ SILVER/ YELLOW GOLDEN/	GARLIC GREEN SAG	0.010 0.050	0.010 0.050	NO

	LADY AMHERST'S /REEV'S / RING NECKED	ONION POULTRY FEED PULSES AND GRAIN FEED BOILED EGG CRICKET WORM/MEAL WORM	0.020 0.050 0.050 ½ NO 5NO	0.020 0.050 0.050 ½ NO 5NO	
33	ROSELLA, EASTERN	APPLE BENGALGRAM,SOAKED MILLET MIX (COMMON,RED,WHITE) OAT GREEN SAG GROUND NUT RIPE BANANA SEED MIX (SUNFLOWER/SAFFLOWER) RIPE PAPAYA GREEN MAIZE WITH SPIKE (SEP-OCT) RIPE GUAVA (SEPT-OCT) PINE-APPLE (MAY-JULY) WATER MELON (APR-MAY)	0.050 0.010 0.010 0.010 0.025 0.030 0.050 0.010 0.025 0.050 0.050	0.050 0.010 0.010 0.010 0.025 0.030 0.050 0.010 0.025 0.050 0.050	NO
34	SPARROW, JAVA	MILLET MIX (COMMON,RED,WHITE) PADDY GREEN SAG BOILED EGG (FOR 20 GROUP) CUTTLE FISH BONE (MONDAYS)	0.010 0.010 0.010 1NO 0.005	0.010 0.010 0.010 1NO 0.005	NO
35	SPOON BILLED, WHITE EURASIAN	GADISHA FISH	0.300	0.300	NO
36	STORK, OPEN BILLED	SNAIL SHELL KERANDI FISH	0.400 0.100	0.400 0.100	NO
37	STORK, PAINTED	GADISHA FISH	0.300	0.300	NO
38	STORK, WHITE NECK	GADISHA FISH	0.250	0.250	NO
39	STORK, LESSER ADJUTANT	GADISHA FISH DAY OLD CHICK	0.200 2NO	0.200 2NO	NO

40	SIKRA	DAY OLD CHICKS WHITE MICE	1NO 1NO	1NO 1NO	NO
41	SWAN, BLACK	BLACK SWAN FEED GREEN SAG BENGAL GRAM (SOAKED) WHEAT (SOAKED)	0.250 0.250 0.100 0.100	0.250 0.250 0.100 0.100	NO
42	VULTURE, CINEREOUS	FRESHLY KILLED CHICKEN	1NO	1NO	NO
43	VULTURE, WHITE BACKED/ LONG BILLED	FRESHLY KILLED CHICKEN	½ NO	½ NO	NO
44	HIMALAYAN GRIFFON	FRESHLY KILLED CHICKEN	1 NO	1 NO	NO
45	OSTRICH	LUCERN GRASS/ DHANIA SAG OSTRICH FEED BOILED EGG (WITH SHELL)	1.000 1.500 2NO	1.000 1.500 2NO	NO
46	PARROT, AFRICAN GREY	APPLE BENGAL GRAM (SOAKED) GRAPE GROUND NUT SUNFLOWER SEED RIPE PUMPKIN RIPE PAPAYA RIPE SAPETA (APR-MAY) WATER MELON(APR-MAY)	0.030 0.015 0.030 0.030 0.010 0.050 0.050 0.050 0.050	0.030 0.015 0.030 0.030 0.010 0.050 0.050 0.050 0.050	NO
47	PARROT, MEYER'S/ RED BELLIED	APPLE BENGAL GRAM (SOAKED) BEANS GRAPES POMEGRANATE MILLET MIX SUNFLOWER SEED PADDY	0.030 0.015 0.030 0.020 0.020 0.020 0.010 0.010	0.030 0.015 0.030 0.020 0.020 0.020 0.010 0.010	NO

		RIPE PAPAYA	0.050	0.050	
48	TURACO, VIOLET/ LIVINGSTONE	APPLE GRAPE TOMATO POMEGRANATE RIPE BANANA RIPE PAPAYA WATERMELON (APR-MAY) RIPE MANGO (APR-MAY)	0.025 0.025 0.050 0.025 0.050 0.050 0.050 0.025	0.025 0.025 0.050 0.025 0.050 0.050 0.050 0.025	NO
49	ANTELOPE, FOUR HORNED	COMMON GRASS DEER MASH DEER FODDER BENGAL GRAM SOAKED BIRIDAL SOAKED RIPE BANANA RIPE PUMPKIN JHUDANGA	1.000 0.500 1.000 0.100 0.100 0.100 0.100 0.100	1.000 0.500 1.000 0.100 0.100 0.100 0.100 0.100	NO
50	BEAR, HIMALAYAN BLACK	BIRIDAL HONEY MILK RICE (PAR BOILED) RIPE PUMPKIN RIPE BANANA WATER MELON (APR-MAY) CARROT (OCT-MARCH) SWEET POTATO (OCT-MAR) GREEN MAIZE WITH SPIKE (SEP-OCT) BOILED EGG (NOV-FEB) 2 NO.	0.100 0.025 0.100 0.800 0.350 0.350 0.500 0.250 0.250 0.200 2NO	0.100 0.025 0.100 0.800 0.350 0.350 0.500 0.250 0.250 0.200 2NO	NO
51	BEAR, SLOTH	BIRIDAL HONEY	0.100 0.025	0.100 0.025	NO

54	CAT, JUNGLE	CHICKEN DRESSED	0.400	0.400	NO
55	CAT, LEOPARD	CHICKEN DRESSED	0.300	0.300	NO
56	CAT, FISHING	CHICKEN DRESSED KERADI FISH	0.250 0.250	0.250 0.250	NO
57	CHIMPANZEE	APPLE BENGAL GRAM WHOLE CUCUMBER EGG (BOILED) BEAN GRAPE MILK TOMATO RICE (PAR BOILED) GREEN SAG RIPE BANANA BEDANA HONEY CARROT (OCT-MAR) KHAJARA PINE-APPLE (MAY-JUL) WATER MELON (APR-MAY) RIPE GUAVA (SEPT-OCT) GREEN COCONUT (APR-JUN) CUSTARD APPLE (SEPT-OCT) RIPE PAPAYA PALANGA SAG (DEC-FEB) ORANGE (NOV-MAR) AMLA (NOV-DEC) GARLIC ONION	0.300 0.100 0.200 1 NO 0.050 0.200 0.150 0.100 0.200 0.200 0.300 0.200 0.025 0.100 0.050 0.050 0.400 0.100 0.150 0.100 0.010 0.030	0.300 0.100 0.200 1 NO 0.050 0.200 0.150 0.100 0.200 0.200 0.300 0.200 0.025 0.050 0.500 2NO 0.400 0.400 0.010 0.030	NO

58	CIVET, COMMON PALM	RICE (PAR BOILED)	0.010	0.010	NO
		CHICKEN MEAT KIMA	0.100	0.100	
		MILK	0.005	0.005	
		KERANDI FISH	0.050	0.050	
		RIPE BANANA	0.250	0.250	
59	CIVET, SMALL INDIAN	RICE (PAR BOILED)	0.050	0.050	NO
		CHICKEN MEAT KIMA	0.050	0.050	
		MILK	0.005	0.005	
		KERANDI FISH	0.050	0.050	
		RIPE BANANA	0.200	0.200	
60	BAT, FRUIT	RIPE BANANA	0.150	0.150	NO
		APPLE	0.050	0.050	
		RIPE PAPAYA	0.100	0.100	
		GRAPE	0.025	0.025	
61	DEER, BARKING	COMMON GRASS	1.000	1.000	NO
		DEER MASH	0.500	0.500	
62	DEER, MOUSE	RIPE BANANA	0.250	0.250	NO
		GREEN SAG	0.050	0.050	
		RIPE PUMPKIN	0.050	0.050	
		LADIES FINGER	0.100	0.100	
		BEAN	0.125	0.125	
		KANKADA (JUNE-SEPT)		0.025	
		CARROT (OCT-MAR)	0.125		
		SWEET POTATO (OCT-MAR)	0.100		
63	DEER, SAMBAR ADULT, 1YR ABOVE	COMMON GRASS	12.000	12.000	NO
		DEER MASH	2.500	2.500	
		RIPE BANANA (FOR THE GROUP)	2.000	2.000	
		DEER FODDER	2.000	2.000	
	DEER, SAMBAR SUB-ADULT,	COMMON GRASS	8.000	8.000	
	DEER MASH	1.750	1.750	NO	

	2MONTHS-1 YEAR	DEER FODDER	1.000	1.000	
64	DEER, SPOTTED ADULT, 1YR ABOVE	COMMON GRASS	2.000	2.000	NO
		DEER MASH	1.000	1.000	
		DEER FODDER	1.000	1.000	
65	DEER, SPOTTED SUB-ADULT 2MONTHS- 1YEAR	DEER MASH	0.750	0.750	NO
		COMMON GRASS	1.000	1.000	
		DEER FODDER	1.000	1.000	
65	DEER,SWAMP ADULT, 1YR ABOVE	COMMON GRASS	10.000	10.000	NO
		DEER MASH	1.500	1.500	
		PARA GRASS	3.000	3.000	
		RIPE BANANA (FOR THE GROUP)	1.000	1.000	
66	DEER, SWAMP SUB-ADULT 2MONTHS-1YR	COMMON GRASS	5.000	5.000	NO
		DEER MASH	1.000	1.000	
		PARA GRASS	1.500	1.500	
66	DEER, BROW ANTLERED, MANIPURI	BENGAL GRAM WHOLE	0.600	0.600	NO
		DEER FODDER	5.000	5.000	
		WHEAT BRAN (CHOKAD)	1.000	1.000	
		NB21	10.000	10.000	
		CARROT (OCT-MAR)	0.200	0.200	
		RIPE BANANA	0.200	0.200	
		BLACK SALT	0.020	0.020	
		JHUDANGA	0.200	0.200	
67	DEER, HOG	WHEAT BRAN	0.250	0.250	NO
		BENGAL GRAM (SOAKED)	0.250	0.250	
		COMMON GRASS	1.000	1.000	
		DEER FODDER	1.000	1.000	
68	ELEPHANT (ADULT)	WHEAT	5.000	5.000	NO
		COMMON GRASS	50.000	50.000	

		ELEPHANT FODDER NB21 PARA GRASS TURMERIC WHOLE MOLASES COMMON SALT COCONUT STRAW CASTOR OIL BAMBOO LEAVES (JULY-OCT) SUGARCANE (JAN-MARCH) WATER MELON (APR-MAY)	50.000 75.000 75.000 0.050 0.300 0.150 1NO 1.500 0.100 20.000	50.000 75.000 75.000 0.050 0.300 0.150 1NO 1.500 0.100 10.000 4.000	
	ELEPHANT, SUB-ADULT	WHEAT COMMON GRASS ELEPHANT FODDER NB21 PARA GRASS TURMERIC WHOLE MOLASES COMMON SALT COCONUT STRAW CASTOR OIL BAMBOO LEAVES (JULY-OCT) SUGARCANE (JAN-MARCH) WATER MELON (APR-MAY)	3.500 20.000 30.000 30.000 30.000 0.025 0.250 0.050 1NO 1.500 0.050 5.000 5.000	3.500 20.000 30.000 30.000 30.000 0.025 0.250 0.050 1NO 1.500 0.050 5.000 4.000	NO
69	GIRAFFE	WHEAT, SOAKED BENGAL GRAM, SOAKED MUNG, SOAKED DEER MASH FRESH RIPE BANANA	1.000 1.000 1.000 1.250 5.000	1.000 1.000 1.000 1.250 5.000	NO

		CUCUMBER TOMATO ONION COMMON SALT TREE FODDER (OSTA/BARA) NB21 GREEN SAG JHUDANGA RIPE PUMPKIN GARLIC SWEET POTATO (OCT-MAR) CARROT (OCT-MAR)	6.000 0.500 0.250 0.050 30.000 5.000 2.000 1.500 2.000 0.025 1.000 2.000	6.000 0.500 0.250 0.050 30.000 5.000 2.000 1.500 2.000 0.025	
70	GAUR	BALCK GRAM, SOAKED WHEAT BRAN DEER MASH MOLASSES PARA GRASS NB21 TREE FODDER (OSTA) RIPE BANANA	0.250 2.000 5.000 0.050 15.000 15.000 5.000 0.500	0.250 2.000 5.000 0.050 15.000 15.000 5.000 0.500	NO
71	GIANT SUIRREL	BENGAL GRAM APPLE GRAPE BREAD RIPE BANANA GREEN PEA POD (DEC-FEB) RIPE GUAVA(SEP-OCT)	0.050 0.050 0.025 0.100 0.100 0.050 0.100	0.050 0.050 0.025 0.100 0.100 0.050 0.100	NO
72	HARE, INDIAN	DUBA GRASS GREEN SAG PUMPKIN BEAN CARROT (OCT-MAR)	0.100 0.100 0.050 0.050 0.050	0.100 0.100 0.050 0.050	NO

		APPLE	0.050	0.050	
		ORANGE (NOV-MAR)	0.050		
		GRAPE	0.025	0.025	
		BENGAL GRAM (SOAKED)	0.025	0.025	
		SWEET POTATO (OCT-MAR)	0.100		
		PALANGA (DEC-FEB)	0.100		
73	HIPPOPOTAMUS ADULT, 2 ½ YRS ABOVE	BENGAL GRAM WHOLE	2.000	2.000	NO
		PUMPKIN	1.000	1.000	
		CABBAGE	2.000	2.000	
		GREEN SAG	1.000	1.000	
		MINERAL MIXTURE	0.100	0.100	
		CHOKAD (WHEATBRAN)	5.000	5.000	
		COMMON SALT	0.100	0.100	
		RIPE BANANA	1.000	1.000	
		PARA GRASS	50.000	50.000	
	HIPPOPOTAMUS SUB-ADULT 6MONTHS-2 ½ YRS	BENGAL GRAM WHOLE	1.000	1.000	NO
		PUMPKIN	0.500	0.500	
		CABBAGE	1.000	1.000	
		GREEN SAG	0.500	0.500	
		MINERAL MIXTURE	0.050	0.050	
		CHOKAD (WHEATBRAN)	2.500	2.500	
		COMMON SALT	0.100	0.100	
		RIPE BANANA	0.500	0.500	
		PARA GRASS	20.000	20.000	
74	HYENA	BUFFALO MEAT	2.000	2.000	MONDAY
75	JACKAL	BUFFALO MEAT	1.000	1.000	MONDAY
76	LEOPARD, ADULT (ABOVE 1 ½ YEAR)	BUFFALO MEAT	4.000	4.000	MONDAY
	LEOPARD, SUB-ADULT (1-1½ YEARS)	BUFFALO MEAT	3.000	3.000	MONDAY
	LEOPARD, JUVENILE (6MONTHS-1 YEAR)	BUFFALO MEAT	1.000	1.000	NO
77	LION,	BUFFALO MEAT	9.000	9.000	MONDAY

	ASIATIC/HYBRID/AFRICAN ADULT, ABOVE 2 ½ YR				
	LION, SUB ADULT (1 YEAR – 2 ½ YEARS)	BUFFALO MEAT	6.000	6.000	MONDAY
	LION, JUVENILE (6 MONTHS – 1 YEAR)	BUFFALO MEAT	3.000	3.000	MONDAY
	CUB (3 MONTHS TO 6 MONTHS)	CHICKEN (DRESSED, BONE LESS)	1 NO	1 NO	NO
78	LANGUR, COMMON	BENGAL GRAM WHOLE LADIES FINGER GROUND NUT BEAN MILK RICE (PAR BOILED) RIPE BANANA GREEN PEA POD (DEC-FEB) SWEET POTATO (OCT-MAR) GREEN MANGO (APR-MAY) GREEN MAIZE WITH SPIKE (SEP-OCT) WATER MELON (APR-MAY)	0.050 0.050 0.050 0.050 0.010 0.050 0.250 0.050 0.100	0.050 0.050 0.050 0.050 0.010 0.050 0.250 0.050 0.100 0.100 0.150	NO
79	MACAQUE, BONNET ADULT (1 ½ YEAR ABOVE)	BENGAL GRAM WHOLE BRINJAL LADIES FINGER BREAD GROUND NUT BEAN MILK RICE (PAR BOILED) RIPE BANANA GREEN PEA POD (DEC-FEB) SWEET POTATO (OCT-MAR)	0.050 0.100 0.050 0.030 0.050 0.050 0.010 0.050 0.250 0.050 0.100	0.050 0.100 0.050 0.030 0.050 0.050 0.010 0.050 0.250	NO

		GREEN MANGO (APR-MAY) GREEN MAIZE WITH SPIKE (SEP-OCT) PINE-APPLE (MAY-JUL) WATER MELON (APR-MAY)		0.050 0.100 0.100 0.150	
	MACAQUE, BONNET SUB-ADULT	BENGAL GRAM WHOLE BRINJAL LADIES FINGER BREAD GROUND NUT BEAN MILK RICE (PAR BOILED) RIPE BANANA GREEN PEA POD (DEC-FEB) SWEET POTATO (OCT-MAR) GREEN MANGO (APR-MAY) GREEN MAIZE WITH SPIKE (SEP-OCT) PINE-APPLE (MAY-JUL) WATER MELON (APR-MAY)	0.025 0.050 0.025 0.015 0.025 0.025 0.005 0.025 0.125 0.050 0.050 0.025 0.050 0.050 0.075	0.025 0.050 0.025 0.015 0.025 0.025 0.005 0.025 0.125 0.025 0.050 0.050 0.050 0.075	NO
80	MACAQUE, RHESUS	BENGAL GRAM WHOLE BRINJAL LADIES FINGER BREAD GROUND NUT BEAN MILK RICE (PAR BOILED) RIPE BANANA SWEET POTATO (OCT-MAR) GREEN MAIZE WITH SPIKE (SEP-OCT) WATER MELON (APR-MAY) GREEN PEA POD (DEC-FEB)	0.050 0.100 0.050 0.030 0.050 0.050 0.010 0.050 0.250 0.100 0.100 0.150 0.050	0.050 0.100 0.050 0.030 0.050 0.050 0.010 0.050 0.250 0.100 0.100 0.150	NO
81	MONGOOSE COMMON	GADISHA FISH	0.150	0.150	NO

82	NILGAI ADULT, 1YR ABOVE	COMMON GRASS DEER MASH DEER FODDER RIPE BANANA (FOR THE GROUP)	15.000 2.500 3.000 4.000	15.000 2.500 3.000 4.000	NO
	SUB ADULT (6 MONTHS – 1 YEAR)	COMMON GRASS DEER MASH DEER FODDER	10.000 2.500 2.000	10.000 2.500 2.000	
83	ORANG UTAN	GREEN SAG TAMATO RIPE BANANA CUCUMBER APPLE BOILED EGG BEAN GRAPE AMUL SPRAY CARROT (OCT-MAR) PINE-APPLE (MAY-JUL) WATER MELON (APR-MAY) RIPE GUAVA (SEPT-OCT) GREEN COCOANUT (APR-JUN) CUSTARD APPLE (SEPT-OCT) RIPE PAPAYA PALANG SAG (DEC-FEB) ORANGE (NOV-MAR) KANKAD (JUNE-SEPT) AMLA (NOV-DEC) GARLIC ONION	0.500 0.200 1.500 0.400 0.300 1NO 0.100 0.100 0.050 0.200 0.400 0.100 0.150 0.100 0.015 0.050	0.500 0.200 1.500 0.400 0.300 1NO 0.100 0.100 0.050 0.100 0.400 0.125 0.015 0.050	NO
84	PANGOLIN, INDIAN	RED WEAVER ANT EGGS BOILED EGG	0.600 ½ NO	0.600 ½ NO	

85	PORCUPINE	BENGAL GRAM WHOLE	0.050	0.050	NO
		BRINJAL	0.050	0.050	
		GROUND NUT	0.100	0.100	
		BEAN	0.010	0.010	
		MAIZE	0.050	0.050	
		MILK	0.010	0.010	
		RICE (PAR BOILED)	0.100	0.100	
		RIPE BANANA	0.150	0.150	
		RIPE PUMPKIN	0.050	0.050	
		SWEET PATATO (OCT-MAR)	0.100		
86	RATEL	HONEY	0.020	0.020	NO
		GOAT MEAT	0.100	0.100	
		RIPE BANANA	0.200	0.200	
		BUFFALO MEAT	0.400	0.400	
87	TIGER ADULT, 2 ½ YR ABOVE	BUFFALO MEAT	10.000	10.000	Monday
	TIGER, SUB ADULT 1YR-2 ½ YR	BUFFALO MEAT	6.000	6.000	Monday
	TIGER, JUVENILE 6MN- 1YR	BUFFALO MEAT	3.000	3.000	Monday
	TIGER, CUB 3MN-6MN	CHICKEN (DRESSED, BONELESS)	1NO	1NO	Monday
88	WILD BOAR	WILD BOAR MASH	1.000	1.000	NO
		RIPE PUMPKIN	0.500	0.500	
		SWEET POTATO (OCT-MAR)	0.250		
89	WHITE BUCK	TREEN FODDER	1.000	1.000	NO
		DEER MASH	0.750	0.750	
		RIPE PUMPKIN	0.100	0.100	
		JHUDANGA	0.100	0.100	

		MOLASSES	0.050	0.050	
90	LANGUR, NILGIRI	APPLE RICE (PAR BOILED) RIPE BANANA ORANGE(NOV-MAR) RIPE GUAVA BENGAL GRAM CABAGGE GREEN SAG BOILED EGG BEANS CARROT (OCT-MAR) GRAPE HONEY AMLA (NOV-DEC) CUCUMBER CUSTARD APPLE (SEP-OCT) POMEGRANATE	0.250 0.030 0.200 0.100 0.100 0.015 0.030 0.100 1NO 0.050 0.050 0.050 0.010 0.020 0.030 0.100 0.125	0.250 0.030 0.200 0.100 0.015 0.030 0.100 1NO 0.050 0.050 0.010 0.030 0.100 0.125	NO
91	BOA RED SAND / BOA COMMON SAND	WHITE MICE /RAT (ON MONDAY)	2NO	2NO	Sunday to Saturday
92	CROCODILE, MORLETE	ROHI FISH BUFFALO MEAT	0.500 1.000	0.500 1.000	Monday
93	CROCODILE, SIAMEASE	ROHI FISH BUFFALO MEAT	0.500 1.000	0.500 1.000	Monday
94	CROCODILE, LONG SNOUTED/GHARIAL ADULT(5 YEARS ABOVE)	ROHI FISH	1.500	1.500	Monday
	SUB-ADULT (2- 5 YEARS)	ROHI FISH	1.000	1.000	Monday

	JUVENILE (1 MONTH – 2 YEARS)	GADISHA FISH	0.300	0.300	NO
95	CROCODILE, MUGGER	BUFFALO MEAT	1.000	1.000	Monday
96	CROCODILE, DWARF CAIMON	FISH FINGERLINGS (LIVE) (ON TUESDAY, THURSDAY, SATURDAY OF EVERY WEEK)	0.250	0.250	Monday, Wednesday, Thursday, Sunday
97	CROCODILE, SALT WATER	BUFFALO MEAT	1.000	1.000	Monday
98	COBRA, KING	RAT SNAKE (MONDAY)	1NO	1NO	NO
99	COBRA, MONOCELLATE/ BINOCELLATE	RAT (MONDAY) DAY OLD CHICK (MONDAY) GADISHA FISH	1NO 1NO 0.050	1NO 1NO 0.050	NO
100	INDIAN CHAMELION	GRASS HOPPER	10 NO.S	10 NO.S	NO
101	IGUANA	LEUTIA SAG PALANG SAG(DEC-FEB) FENUGREEK LEAVES DRUMDTICK LEAVES CORIANDER LEAVES APPLE BANANA RIPE PAPAYA POMEGRANATE RIDGE GOURD CAPSICUM CUCUMBER LADIES FINGER	0.020 0.020 0.020 0.020 0.020 0.010 0.010 0.010 0.010 0.010 0.005 0.005 0.010 0.010	0.020 0.020 0.020 0.020 0.020 0.010 0.010 0.010 0.010 0.010 0.005 0.005 0.010 0.010	NO
102	KRAIT, BANDED	RAT SNAKE	1 NO.	1 NO.	NO

		OR RAT/MICE	2NO	2NO	
103	KRAIT, COMMON INDIAN	RAT/MICE	1NO	1NO	NO
104	MONITOR LIZARD, COMMON	KERANDI FISH/ROHI FISH RAT (MONDAY)	0.250 1NO	0.250 1NO	NO
105	MONITOR LIZARD, WATER	GADISHA FISH ROHI FISH	0.200 0.200	0.200 0.200	NO
106	PYTHON, INDIAN ROCK/ BURMESE ROCK , ADULT	CHICKEN (MONDAY)	1 NO	1 NO	NO
	SUB ADULT	GUINEA PIG/RAT (MONDAY)	2 NO	2 NO	NO
107	PYTHON, RETICULATED	CHICKEN (MONDAY)	2 NO	2 NO	NO
108	SNAKE, RAT	RAT (MONDAY)	1 NO	1 NO	NO
109	VIPER RUSSEL'S	RAT/DAY OLD CHICK (MONDAY)	2 NO	2 NO	NO
110	TORTOISE, STAR INDIAN	GREEN SAG RIPE BANANA LADIES FINGER JHUDANG/BEAN CUCUMBER PUMPKIN TAMATO PALANG SAG (DEC-FEB)	0.015 0.025 0.030 0.030 0.100 0.100 0.050 0.050	0.015 0.025 0.030 0.030 0.100 0.100 0.050	NO

111	TURTLE, FRESH WATER/ INDIAN FLAP-SHELLED/ GANGES SOFT-SHELLED/ INDIAN TENT	GREEN SAG KERANDI FISH CABBAGE	0.010 0.100 0.020	0.010 0.100 0.020	NO
112	CHITRA TURTLE	GREEN SAG PUMPKIN KERANDI FISH CABBAGE	0.025 0.050 0.100 0.025	0.025 0.050 0.100 0.025	NO

14. Vaccination Schedule of animals:

Sl. No.	Species	Disease vaccinated for	Name of the vaccine and dose/quantity used	Periodicity	Remarks
1	Tiger, lion, leopard, fishing cat, jungle cat, leopard cat	Feline panleukopenia, Calici disease, Rhinotracheitis, Rabies	Biofel- PCHR- 1 dose per animal	Annual	
2	Elephant	Haemorrhagic Septicemia	HS Alum adjuvant vaccine- 10ml/head	Six months	
		Foot and mouth disease	Rakhsa-Ovac- 5ml/head	Annual	
		Tetanus	Toxoid- 1ml/head	Six months	
		Rabies	Raksharab- 2vials/head	Annual	
		Anthrax	Anthrax spore vaccine- 3ml/head	Annual	
		Black Quarter	BQ bivalent vaccine- 10ml/ head	Six months	
3	Hyena/ Jackal	Leptospirosis, Parvo, CD, Parainfluenza, Hepatitis	Megavac-6- 1 dose each	Annual	
4	Four horned Antelope	Haemorrhagic Septicemia	HS alum adjuvant vaccine- 3ml/head	Six months	
5	Gaurs	Haemorrhagic Septicemia, Black Quarter, Foot and mouth disease	Raksha-Triovac- 3ml/head	Annual	

15. De-worming Schedule of animals

Sl. No.	Species	Drug Used	Month
1	Tiger, Lion, Leopard, Hyena, Jackal,	Fenbendazole	June
		Ivermectin	October
		Albendazole	February
2	Indian Pangolins	Albendazole	June
		Albendazole	October
		Albendazole	February
3	Animals at Nocturnal House: Civet, Porcupine, Fishing cat, Ratel, jungle Cat, barn Owl, Brown Fish Owl	Albendazole	June,
		Albendazole	October
		Albendazole	March
4	Birds	Levamisole	June
		Levamisole	November
5	Gaur	Oxyclozanide and Levamisole	July
		Oxyclozanide and Levamisole	March
6	All deer Species and antelopes	Oxyclozanide and Levamisole	August
		Oxyclozanide and Levamisole	December
7	Sloth bears and Himalayan Black Bears	Albendazole	August
		Albendazole	February
8	Animals at Small Mammal House: Porcupine, Ratel, Jungle Cat, Indian Hare, Giant Squirrel, Mongoose, Wild Boar	Albendazole	August
		Albendazole	January
9	Hippopotamus	Albendazole	January
10	Elephants	Albendazole	February

16. Disinfection Schedule:

Sl. No.	Species	Type of enclosure	Disinfectant used and method	Frequency of disinfection
1	Tiger, lion, leopard, Hyena, Jackal,	Open top enclosure	Kohrsolin-TH	Alternate month
			Deltamethrine/ Cypermethrine	Alternate month
2	All Deer Species	Open top enclosure	Lime Sprinkling	Alternate month
3	All Bird Species	Caged enclosure	Kohrsolin- TH	Alternate month
			Virkon-S	Alternate month
4	All Primates including Chimpanzee, Orangutan	Open top enclosure	Kohrsolin-TH	Alternate month

17. Health Check-up of employees for zoonotic diseases:

Health Check-up of 173 employees was carried out on 26th and 27th March 2018.

Sl. No.	Name	Designation	Date of Health Check up	Findings of Health Check up
1	Kartika Behera	Animal Keeper	26.03.2018	Negative for zoonotic diseases
2	Tikam Bhoi	Animal Keeper	26.03.2018	Negative for zoonotic diseases
3	Satyanarayan Behera	Winch Operator	26.03.2018	Negative for zoonotic diseases
4	Arakhita Behera	Watchman	26.03.2018	Negative for zoonotic diseases
5	Arupa Rout	Forester	26.03.2018	Negative for zoonotic diseases
6/7	Ajaya Ku. Jena	Zoo Watcher	26.03.2018	Negative for zoonotic diseases
8/9	Kailash Ch. Pradhan	Animal Keeper	26.03.2018	Negative for zoonotic diseases
10	Pitabas Guru	Animal Keeper	26.03.2018	Negative for zoonotic diseases
11	Bijay Majhi	Animal Keeper	26.03.2018	Negative for zoonotic diseases
12/13	Dillip Ku. Maharana	Animal Keeper	26.03.2018	Negative for zoonotic diseases
14	Banamali Jena	Forest Guard	26.03.2018	Negative for zoonotic diseases
15/16	Shyama Singh	Animal Keeper	26.03.2018	Negative for zoonotic diseases
17	Krushna Ch. Das	Watchman	26.03.2018	Negative for zoonotic diseases
18	Udaya Ku. Das	Animal Keeper	26.03.2018	Negative for zoonotic diseases
19	Balunki Behera	Bungalow Chowkidar	26.03.2018	Negative for zoonotic diseases
20	Subash Ch. Pradhan	Animal Keeper	26.03.2018	Negative for zoonotic diseases
21	Babina Mangaraj	Animal Keeper	26.03.2018	Negative for zoonotic diseases
22	Kailash Ch. Sahoo	Mali	26.03.2018	Negative for zoonotic diseases
23	Laxmi Ray	Animal Keeper	26.03.2018	Negative for zoonotic diseases
24	Trailokya Maharana	Attendant	26.03.2018	Negative for zoonotic diseases
25	Kartika Ch. Rout	Watchman	26.03.2018	Negative for zoonotic diseases
26	Sumanta Ku. Nayak	Outsourced employee	26.03.2018	Negative for zoonotic diseases
27	Pathani Jena	Animal Keeper	26.03.2018	Negative for zoonotic diseases
28	Jogendra Mohanty	Outsourced employee	26.03.2018	Negative for zoonotic diseases
29	Rama Ch. Das	Animal Keeper	26.03.2018	Negative for zoonotic diseases
30	Purna Ch. Parida	Zoo Watcher	26.03.2018	Negative for zoonotic diseases
31/32	Bhaskar Maharana	Driver	26.03.2018	Negative for zoonotic diseases
33	Milan Ku. Panda	Education Officer	26.03.2018	Negative for zoonotic diseases

34	Trailokya Das	Animal Keeper	26.03.2018	Negative for zoonotic diseases
35	Pratap Ku. Rout	Animal Keeper	26.03.2018	Negative for zoonotic diseases
36	Arjuna Samal	Animal Keeper	26.03.2018	Negative for zoonotic diseases
37	D. Narsa	Animal Keeper	26.03.2018	Negative for zoonotic diseases
38	Brajakishore Sahoo	Animal Keeper	26.03.2018	Negative for zoonotic diseases
39	Karia Hansda	Sweeper	26.03.2018	Negative for zoonotic diseases
40	Chandrasekhar Kar	Animal Keeper	26.03.2018	Negative for zoonotic diseases
41	Anatha Pradhan	Animal Keeper	26.03.2018	Negative for zoonotic diseases
42	Lalatendu Pattnaik	Jr. Clerk	26.03.2018	Negative for zoonotic diseases
43	Akshaya Ku. Das	Ticket Collector	26.03.2018	Negative for zoonotic diseases
44	Susanta Ku. Patalsingh	Ticket Collector	26.03.2018	Negative for zoonotic diseases
45	Rabindra Ku. Tripathy	Animal Keeper	26.03.2018	Negative for zoonotic diseases
46	Sk. Jabar	Animal Keeper	26.03.2018	Negative for zoonotic diseases
47	P.C. Parida	Animal Keeper	26.03.2018	Negative for zoonotic diseases
48	Prafulla Bag	Animal Keeper	26.03.2018	Negative for zoonotic diseases
49	Beda Prakash Sahoo	Live Stock Inspector	26.03.2018	Negative for zoonotic diseases
50	Shyama Singh	Mahunta	26.03.2018	Negative for zoonotic diseases
51	N. Rout	Outsourced employee	26.03.2018	Negative for zoonotic diseases
52	Gangadhar Khamari	Outsourced employee	26.03.2018	Negative for zoonotic diseases
53	M.R. Barik	Outsourced employee	26.03.2018	Negative for zoonotic diseases
54	Dhiren Samal	Outsourced employee	26.03.2018	Negative for zoonotic diseases
55	Sibaram Sahoo	Animal Keeper	26.03.2018	Negative for zoonotic diseases
56	J. Parida	Outsourced employee	26.03.2018	Negative for zoonotic diseases
57/58	Galhai Murmu	Forest Guard	26.03.2018	Negative for zoonotic diseases
59	Dukhishyam Behera	Animal Keeper	26.03.2018	Negative for zoonotic diseases
60	Muduli	Outsourced employee	26.03.2018	Negative for zoonotic diseases
61	Sonia Murmu	Outsourced employee	26.03.2018	Negative for zoonotic diseases
62	Babu Mangaraj	Outsourced employee	26.03.2018	Negative for zoonotic diseases
63	Madhumita Pani	Outsourced employee	26.03.2018	Negative for zoonotic diseases
64	Golapa Sahoo	Outsourced employee	26.03.2018	Negative for zoonotic diseases
65	Saroj Ku. Behera	Outsourced employee	26.03.2018	Negative for zoonotic diseases
66	Pitabas Behera	Outsourced employee	26.03.2018	Negative for zoonotic diseases

67	Subash Ch. Mohapatra	Jr. Accountant	26.03.2018	Negative for zoonotic diseases
68	Purna Ch. Behera	Forest Guard	26.03.2018	Negative for zoonotic diseases
69	Milibala Jena	Forest Guard	26.03.2018	Negative for zoonotic diseases
70	G. Murmu	Forest Guard	26.03.2018	Negative for zoonotic diseases
71	Dr. Manish Panday	Outsourced employee	27.03.2018	Negative for zoonotic diseases
72	P.C. Parida	Zoo Watcher	27.03.2018	Negative for zoonotic diseases
73	G.F. Khan	Forester	27.03.2018	Negative for zoonotic diseases
74	Gadadhar Hansda	Outsourced employee	27.03.2018	Negative for zoonotic diseases
75	Prema	Outsourced employee	27.03.2018	Negative for zoonotic diseases
76	Sisir Ku. Acharya	Director	27.03.2018	Negative for zoonotic diseases
77	Sudhir Ku. Behera	Forester	27.03.2018	Negative for zoonotic diseases
78	Kabi Jena	Sweeper	27.03.2018	Negative for zoonotic diseases
79	Akshaya Ku. Das	Ticket Collector	27.03.2018	Negative for zoonotic diseases
80	Sk. Jabar	Animal Keeper	27.03.2018	Negative for zoonotic diseases
81	Chandramani Rout	Animal Keeper	27.03.2018	Negative for zoonotic diseases
82	Purna Ch. Behera	Forest Guard	27.03.2018	Negative for zoonotic diseases
83	Kedar Ch. Bhanja	Watchman	27.03.2018	Negative for zoonotic diseases
84	Sulochana Mohanty	Animal Keeper	27.03.2018	Negative for zoonotic diseases
85	Rabindranath Bhoi	Outsourced employee	27.03.2018	Negative for zoonotic diseases
86	Phula Rout	Outsourced employee	27.03.2018	Negative for zoonotic diseases
87	Kedar Mandal	Outsourced employee	27.03.2018	Negative for zoonotic diseases
88	Arjuna Samal	Outsourced employee	27.03.2018	Negative for zoonotic diseases
89	Manas Ranjan	Outsourced employee	27.03.2018	Negative for zoonotic diseases
90	Asit Parida	Outsourced employee	27.03.2018	Negative for zoonotic diseases
91	Pradeep Ku. Nandy	Live Stock Inspector	27.03.2018	Negative for zoonotic diseases
92	Jayanti Behera	Outsourced employee	27.03.2018	Negative for zoonotic diseases
93	Subrat Singh	Outsourced employee	27.03.2018	Negative for zoonotic diseases
94	Narendra Ku. Sahu	Jr. Accountant	27.03.2018	Negative for zoonotic diseases
95	Pramod Ku. Panda	Head Clerk	27.03.2018	Negative for zoonotic diseases
96	Pratap Ch. Pradhan	Outsourced employee	27.03.2018	Negative for zoonotic diseases
97	Laxmidhar Bhoi	Outsourced employee	27.03.2018	Negative for zoonotic diseases
98	Sumitra Sahoo	Animal Keeper	27.03.2018	Negative for zoonotic diseases

99	Piru Murmu	Animal Keeper	27.03.2018	Negative for zoonotic diseases
100	Chheta Bhoi	Sweeper	27.03.2018	Negative for zoonotic diseases
101	Umesh Bhoi	Outsourced employee	27.03.2018	Negative for zoonotic diseases
102	Gadadhar Hansda	Outsourced employee	27.03.2018	Negative for zoonotic diseases
103	Rajendra Jena	Watchman	27.03.2018	Negative for zoonotic diseases
104	Bitish	Outsourced employee	27.03.2018	Negative for zoonotic diseases
105	Pradeep Bag	Outsourced employee	27.03.2018	Negative for zoonotic diseases
106	Milibala Jena	Outsourced employee	27.03.2018	Negative for zoonotic diseases
107	Tatu Pradhan	Outsourced employee	27.03.2018	Negative for zoonotic diseases
108	Jayanti Singh	Forest Guard	27.03.2018	Negative for zoonotic diseases
109	Sujata Beura	Outsourced employee	27.03.2018	Negative for zoonotic diseases
110	K.C. Rout	Booking Clerk	27.03.2018	Negative for zoonotic diseases
111	Suresh Mohanty	Outsourced employee	27.03.2018	Negative for zoonotic diseases
112	Jitu Behera	Outsourced employee	27.03.2018	Negative for zoonotic diseases
113	Mamata Jena	Outsourced employee	27.03.2018	Negative for zoonotic diseases
114	Subasini	Outsourced employee	27.03.2018	Negative for zoonotic diseases
115	Udayasingh Tamsoy	Mali	27.03.2018	Negative for zoonotic diseases
116	Sanjay Das	Sweeper	27.03.2018	Negative for zoonotic diseases
117	K.L. Purohit	D.C.F.	27.03.2018	Negative for zoonotic diseases
118	Basant Pattnaik	Outsourced employee	27.03.2018	Negative for zoonotic diseases
119	Arjun Khamari	Animal Keeper	27.03.2018	Negative for zoonotic diseases
120	Jhari Bhoi	Outsourced employee	27.03.2018	Negative for zoonotic diseases
121	Arup Rout	Forester	27.03.2018	Negative for zoonotic diseases
122	Arun Mohanty	Ticket Collector	27.03.2018	Negative for zoonotic diseases
123	Dukhia Behera	Sweeper	27.03.2018	Negative for zoonotic diseases
124	Dhiren Samal	Outsourced employee	27.03.2018	Negative for zoonotic diseases
125	Kapila Naik	Animal Keeper	27.03.2018	Negative for zoonotic diseases
126	Mohan Soren	Animal Keeper	27.03.2018	Negative for zoonotic diseases
127	Madhusudan	Outsourced employee	27.03.2018	Negative for zoonotic diseases
128	Kalandi Kandi	Outsourced employee	27.03.2018	Negative for zoonotic diseases
129	Krushna Ch. Das	Watchman	27.03.2018	Negative for zoonotic diseases
130	Pitabas Behera	Outsourced employee	27.03.2018	Negative for zoonotic diseases

131	Rama Ch. Behera	Outsourced employee	27.03.2018	Negative for zoonotic diseases
132	Manjulata Maharana	Outsourced employee	27.03.2018	Negative for zoonotic diseases
133	Jugalkishore Behera	Sweeper	27.03.2018	Negative for zoonotic diseases
134	Jitendra Behera	Outsourced employee	27.03.2018	Negative for zoonotic diseases
135/ 136	Netrananda Roul	Animal Keeper	27.03.2018	Negative for zoonotic diseases
137	Pradyumna Mohanty	Outsourced employee	27.03.2018	Negative for zoonotic diseases
138	B.N. Mishra	Outsourced employee	27.03.2018	Negative for zoonotic diseases
139	Pradyumna Mohanty	Outsourced employee	27.03.2018	Negative for zoonotic diseases
140	Rohita Das	Outsourced employee	27.03.2018	Negative for zoonotic diseases
141	Mina Dei	Outsourced employee	27.03.2018	Negative for zoonotic diseases
142	Sayed Ahmed Khan	Outsourced employee	27.03.2018	Negative for zoonotic diseases
143	M. Samal	Outsourced employee	27.03.2018	Negative for zoonotic diseases
144	Khulana Pahadsingh	Animal Keeper	27.03.2018	Negative for zoonotic diseases
145	Kalyani Das	Jr. Steno	27.03.2018	Negative for zoonotic diseases
146	K. Samal	Outsourced employee	27.03.2018	Negative for zoonotic diseases
147	Puspita Maharana	Outsourced employee	27.03.2018	Negative for zoonotic diseases
148	S. Hembram	Outsourced employee	27.03.2018	Negative for zoonotic diseases
149	Swapna Sagar	Outsourced employee	27.03.2018	Negative for zoonotic diseases
150	J. Rao	Outsourced employee	27.03.2018	Negative for zoonotic diseases
151	Arupananda Jena	Ticket Collector	27.03.2018	Negative for zoonotic diseases
152	P. Sahoo	Outsourced employee	27.03.2018	Negative for zoonotic diseases
153	Brajabandhu Bhoi	Outsourced employee	27.03.2018	Negative for zoonotic diseases
154	Pakibala Das	Outsourced employee	27.03.2018	Negative for zoonotic diseases
155	Ranju Samal	Outsourced employee	27.03.2018	Negative for zoonotic diseases
156	Ranju Samal	Outsourced employee	27.03.2018	Negative for zoonotic diseases
157	Kumara Nayak	Outsourced employee	27.03.2018	Negative for zoonotic diseases
158	Dulana Samal	Outsourced employee	27.03.2018	Negative for zoonotic diseases
159	Kalpana Das	Outsourced employee	27.03.2018	Negative for zoonotic diseases
160	S. Das	Outsourced employee	27.03.2018	Negative for zoonotic diseases
161	Jharana Jena	Outsourced employee	27.03.2018	Negative for zoonotic diseases
162	Sumitra Kandi	Outsourced employee	27.03.2018	Negative for zoonotic diseases
163	Subhadra Das	Outsourced employee	27.03.2018	Negative for zoonotic diseases

164	Gopal Samal	Outsourced employee	27.03.2018	Negative for zoonotic diseases
165	Nayana Samal	Outsourced employee	27.03.2018	Negative for zoonotic diseases
166	J. Patra	Outsourced employee	27.03.2018	Negative for zoonotic diseases
167	Pabitra Mohan Rout	Attendant	27.03.2018	Negative for zoonotic diseases
168	P. Samal	Outsourced employee	27.03.2018	Negative for zoonotic diseases
169	S. Sahoo	Animal Keeper	27.03.2018	Negative for zoonotic diseases
170	Arup Rout	Forester	27.03.2018	Negative for zoonotic diseases
171	Brajakishore Sahoo	Animal Keeper	27.03.2018	Negative for zoonotic diseases
172	Karan Behera	Outsourced employee	27.03.2018	Negative for zoonotic diseases
173	S.C. Mohapatra	Jr. Accountant	27.03.2018	Negative for zoonotic diseases

18. Development Works carried out in the zoo during the year:

The major developmental work carried out includes, renovation of Hyena enclosure, Himalayan Black Bear enclosure and renovation and extension snake enclosures in Reptile Park. Nursery for rearing of animal babies and workshop are constructed during the period. Construction and renovation of Keeper shed, and stand-off barriers at different enclosure was carried out in the Park. Besides, many visitor facilities were constructed and renovated. RO water plants, rain shelters, baby care center are worth mentioning.

19. Education and Awareness programmes during the year:

DATE	PROGRAMME	NUMBER OF PARTICIPANTS
14.05.2017	Orientation tour of FRO trainees from Karnataka	49
19.05.2017	Orientation visit of Forest Guard from G. Udaygiri	55
24.05.2017	Exposure visit of Bangladesh Forest Officer	07
06.06.2017	Orientation tour programme of Forester from Angul	70
07.06.2017	Orientation visit of Forest Guard from Champua	54
20.06.2017	Study tour of B.sc 1 st Year students of Forestry of OUAT	44
15.07.2017	Study tour of B.sc 2 nd Year students of Forestry of OUAT	26
20.07.2017	Orientation Visit of Tribal Research Institute Officials, Sikkim	26
25.07.2017	Orientation tour of FRO trainees from Gujarat Forest Academy	45
29.07.2017	Observation of International Tiger Day at Nandankanan	>100
12.08.2017	Celebration of World Elephant Day	>200
18.08.017	Orientation tour of OAS Probationers from Gopabandu Academy of Administration	64
22.08.2017	Orientation tour programme of Forest Guard from Angul	44
02.09.2017	Orientation Programme of P.G. Students from Ravenshaw University	15
02.10.2017	Zoo Cleaniness Programme	>150
08.10.2017	Wildlife Week Celebration	>200
29.10.2017	Exposure visit of P.G. Students from Dept. of Zoology , Utkal University	30
07.11.2017	East India Exposure Visit of Officer Trainees of SFS Batch, Assam	50
14.11.2017	Orientation tour programme of students of ITBP School, Cuttack	30
16.11.2017	Orientation programme of B.V.Sc students of OUAT, Bhubaneswar (1 st Batch)	30
17.11.2017	Orientation programme of B.V.Sc students of OUAT, Bhubaneswar (2 nd Batch)	31
14.12.2017	Exposure visit of U.G. Students from Dept. of Zoology , Banki Autonomous College	34
16.12.2017	Orientation tour programme of Forester from Ghatkhia	54
18.12.2017	Study tour of Dept. of Forest & Park Service, Royal Govt. of Bhutan	13
30.12.2017	Orientation tour of IFS Probationers	40
03.01.2018	Exposure visit of P.G. Students from Dept. of Zoology , D.R.Nayapalli College	20

10.01.2018	Waterfowl census	40
21.01.2018	Orientation visit of Forest Guard from NFTS Champua	41
22.01.2018	Orientation visit of Noyal Thomas, DIGF(FP) from MOEF, New Delhi	10
30.01.2018	Exposure visit of IFS Probationers from East India tour	45
30.01.2018	Visit of Differently abled person from Aurobindo Academy, Cuttack	30
02.02.2018	Celebration of World Wetland Day	>100
04.02.2018	Orientation visit of Forest Guard from G. Udaygiri	44
12.02.2018	Orientation Programme of FRO from CASFOS, Burnihat	33
13.02.2018 to 19.02.2018	Orientation programme on wildlife management for graduate students from Australian universities	06
17.02.2018	Celebration of World Pangolin Day	>100
25.02.2018	Study tour of B.sc students of Forestry of OUAT	45
10.03.2018	Orientation visit of FRO trainees from Coimbatore	39
17.03.2018	Study tour of B.sc students of Forestry of OUAT	45
19.03.2018 to 25.03.2018	Zoo Keeper's Training	29 (from 23 zoo)
26.03.2108 & 27.03.2018	Health Camp for Staffs of Nandankanan	.>200
28.03.2018 & 29.03.2018	Training Programme on Tranquilization Technique for frontline staff of Odisha Forest Department	30

20. Important Events and happenings:

(i) Tiger hand rearing: The tigress Ankita had given birth to two cubs (1M+1F) on 12.01.2018. The male cub found died with multiple injury, lungs rupture and thoracic bleeding. Suspecting the poor mothering ability of the primiparous mother Ankita the other cub was shifted for hand rearing. The cub is successfully reared with commercially available milk formulations.

(ii) Artificial incubation of bird eggs: It is observed that the hatching rate of bird eggs is quite low when the eggs are allowed to incubate naturally. Therefore some of the eggs of birds including golden pheasants, silver pheasants, lady Amherst's pheasant, peafowl and red jungle fowl were artificially incubated in automatic incubators. A total of 32 chicks had hatched during the period.

(iii) Birth of Pangolins: Two numbers of pangolins have taken birth during the year at Pangolin Conservation Breeding Center on 28.07.2017 and 31.12.2017. The later one died due to shock associated with maternal rejection. The earlier baby is surviving and is in good health.

21. Seasonal special arrangements for upkeep of animals:

The following winter and summer care arrangements are made at Nandankanan Zoological Park during the year.

Winter care arrangement for captive animals at Nandankanan Zoological Park:

1. Birds housed in Enclosure no 1 to 13, 81 and inside Children Park:
 - Drapes of agro net or clean gunny bag hanged around the wire mesh from outside during night time.
 - Lighting with 40W electric bulbs protected with a metallic frame in each enclosure provided during night time for warmth.
2. Chimpanzee and Orangutan:
 - Two numbers of blankets provided to orangutan.
 - The windows are covered with drapes during night time at a distance so that it can't be pulled out or damaged. The existing window shutters are used during the night time.
 - Wooden platforms are provided to the orangutan during night time.
 - Medicines to improve immunity are supplemented in the diet.
 - Provision of room heater may be kept in readiness for use in extreme cold.
 - Straws are spread on the floor of the night shelter of chimpanzee in night hours.
3. Snakes:
 - Clean fresh straw are provided inside the den of each enclosure during the night time.
 - 40W electric bulbs are provided in the den to provide warmth.
 - Direct sunlight provision into the enclosure is made for basking.
4. Crocodiles:
 - To ensure day time basking overhead branches of shady trees are pruned and fresh sand bed are spread in the basking zone. In extreme cold thatched sheds with underneath straws are provided in each enclosure to help crocs taking shelter in night.
5. Stagnant/ accumulated rain water in all wet moated enclosure is pumped out. Silt accumulated inside moat is removed and the moat be treated with lime and allowed to keep dry.

6. The top soil of tiger and lion enclosure back kraals are removed and replaced with fresh sand after sprinkling of lime.
7. All lake side herbivore enclosures are sprinkled with lime. Stagnant water and mud in enclosures are cleaned and replaced with fresh soil.

Summer care arrangement for captive animals at Nandankanan Zoological Park:

1. Carnivore enclosures:
 - All the water pools available in the exhibit and back kraals are repaired and kept filled up with water alternatively.
 - Running water made available during peak hours of the day.
 - The shutter of feeding cell is made open throughout the day.
 - Moat water of all water moats is pumped out and the moats are cleaned and disinfected.
 - Provision of shed above the water pools to is made to prevent water from heating.
 - Feeding cells made straw thatched to keep the cells cool.
 - Provision of sprinklers is made in the enclosures 19 to 29-A.
 - Sprinklers available at enclosures 29-B to 33 are made functional and other carnivore enclosures.
2. Herbivore enclosures:
 - Sambar enclosure (Encl 39):
 - Wallowing tank are cleaned and provision of running water facility is made in wallowing tank.
 - Water accumulated near the feeding cell is cleaned.
 - Left over stems of fodders accumulated in the moat areas are cleaned regularly.
 - Top soil is removed and enclosure is cleaned.
 - Sprinklers available at Manipuri deer, barking deer, swamp deer enclosures is made functional.
 - All sprinklers available at giraffe enclosure is made functional.
3. Primate enclosures:
 - Chimpanzee and Orangutan enclosure

- Provision of air coolers made available to Chimpanzee and orangutan.
- 'Benachera' mat may be hanged at the windows of chimpanzee and orangutan feeding cell.
- At chimpanzee enclosure roof thatching is made to make the room cooler.
- At 'Nilgiri langur' enclosure bamboo tatti is covered at the exhibit area.
- Chimpanzee, orangutan and 'nilgiri langur' not released to the exhibit area in case the temperature rises to more than 40°C.

4. Reptile park:

- In crocodile and turtle enclosures water in the pool is maintained in running condition during peak hours of the day.
- Sheds is provided at all crocodile enclosures, turtle enclosures.
- Snake enclosures are covered with bamboo tatti/mat.
- At Iguana enclosure, provision of bamboo tatti/mat on roof top is made.

5. Bird enclosures:

- Provision of side wall curtains is made during day time (10 AM to 4 PM) to protect them from hot blowing wind.
- Water is sprinkled on side wall curtains, floors and roof tops within 8 AM every day.
- The grass lawn passage situated between bird enclosures (Enclosure 1 to 10) is flooded with water before 8AM every day.
- Cinereous Vulture: Water tank remain filled up with water. Water is sprayed over the bird and inside the enclosure in case the temperature goes beyond 40°C.
- Silver pheasant/ Golden pheasant /ring neck pheasant/lorikeet enclosures: gunny bags/ 'bena chera' is hanged up to half of the chain link mesh and water is sprinkled over it 2-3 times a day.
- Emu and ostrich is given bath by spraying water on them during early part of the day (i.e. before 10AM).
- Larger earthen water pots are provided in all the bird enclosures to keep the drinking water cool.

6. Bear Enclosures:

- All the bear enclosures (enclosure 15 and 16) is provided with two sheds each thatched with straw or bamboo. Bears to be kept confined in the feeding cell during 10AM to 4PM in days temp goes beyond 40°C.
- Mote is cleaned and refilled with fresh water at regular interval.

22. Research Work carried out and publications:

Displaying its long-term commitment to research, Nandankanan Biological Park supported a number of research projects to assess biodiversity conservation, wildlife management, animal health issues and management of captive animals. To ensure optimal outcomes collaboration with the number of 57 organization was given priority. The research teams are made up of Orissa Veterinary College, zoo vets, collaborating scientists and students of graduate, masters and PhD levels. Funding for research is provided by CZA. The research findings would further increase our expertise in the management of captive animals.

The major focus of the research studies carried out during the year mostly focused on standardization of artificial incubation techniques for birds and reptiles, standardization of hand rearing protocols for baby animals, management of health care related issues, behavioural studies on maternal behaviour of Indian pangolins, analysis effect of inbreeding on captive tigers, hormonal studies to determine reproductive status and stress in wild animals. Some of the studies are published in national and international journals which are mentioned bellow.

1. Sahu, S.K., Sahoo, N. and Mohapatra, R.K. (2018) Management of haemorrhagic enteritis in a striped hyena (*Hyaena hyaena*): a case report. Int J Avian & Wildlife Biol. 3(1):65–66.
2. Chichilichi, B., Pradhan, C. R., Sahoo, N., Panda, M. R., Mishra, S. K., Behera, K., & Das, A. (2018). Fecal cortisol as an indicator of stress in free-ranging and captive Asian elephants of Odisha. 7(4): 1137-1140.
3. Kharate, A., Sahu, S. K. , Panda, S. K. , Sahoo, N. , Panda, H. K. (2018). Prevalence, Isolation and Identification of Feline Panleukopaenia Virus from Wild Felids in Nandankanan Zoo, Odisha. World Academy of Science, Engineering and Technology, International Science Index, Animal and Veterinary Sciences, 12(1), 701.

4. Sahu, S.K., Panda, S.K. and Mohapatra, R.K. (2017) Gout in Egyptian vulture (*Neophron percnopterus*): a case report. Int J Avian & Wildlife Biol. 2(2):46–48.
5. Mishra, S.P., Mishra, C., Nayak, G., Mishra, P., Sahoo, N., Sahu, S.K. (2017) Effect of inbreeding on mortality of captive tiger. Explor Anim Med Res 7(1): 69-73.
6. Das. S., Dehuri, M., Panda, M.R. Sahoo.M., Mohanty B. and Sahu, SK. (2017) Chemotherapy against gastrointestinal helminths in herbivore safari at Nandankanan Zoological Park, Odisha. Global Journal of Bio Science and Biotechnology. 6(3): 556-558.

23. Conservation Breeding Programme of the Zoo:

Indian Pangolin Conservation Breeding Programme: The research on conservation breeding of Indian pangolin is actively going on in the established 'Indian pangolin conservation breeding center'. The significant achievement of the project is the birth of two pangolin babies during the year. Moreover, the study is being carried out under the CCTV cameras installed inside the enclosures which can capture the activities in the form of videos during the night time also. Monitoring through the infrared sensitive CCTV cameras unfolds the secrets of the life of the pangolins.

Conservation Breeding of vultures: Nandankanan is among the six participating zoos for the conservation breeding of White-backed vulture identified by CZA. A conservation breeding centre for white backed vultures has been constructed during the year 2011-12 in an off-exhibit area of Nandankanan over an area of 0.3 acres of enclosed area surrounded by about seven acres of forested area with financial assistance form CZA. The breeding centre has been developed as a satellite campus with all the basic facilities. Two nursery aviaries (10 X 12 X 8 ft.) and one colony aviary (100 X 40 X 20 ft.) have been constructed for the said purpose. Central Zoo Authority has directed the Authority of Gandhi Zoological Park, Gwalior to shift 12 rescued Long billed Vultures housed at Gandhi Zoological Park, Gwalior to Nandankanan Biological Park. We are in touch with authority of Gandhi Zoological Park, Gwalior for shifting of Long billed Vultures to Nandankanan.

24. 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 in the zoo
1	24	Ring necked parakeet (albino)	5U	Purchased	19/06/2017
2	24	Ring necked parakeet (lutino)	15U	Purchased	19/06/2017
3	44A	Green Iguana	2M+ 2F	Purchased	24/09/2017
4	44B	Red Iguana	2M+ 2F	Purchased	24/09/2017
5	55A	Nilagir Langur	1M+ 1F	Arignar Zoological park, vandaloor, chennai	26/09/2017
6	74	White pea fowl	2M + 2F	Arignar Zoological park, vandaloor, chennai	26/09/2017
7	73	Painted stork	10U	Arignar Zoological park, vandaloor, chennai	26/09/2017
	44M	Reticulated python	1M + 1F	Arignar Zoological park, vandaloor, chennai	26/09/2017
B.	Animals going from the zoo				
	H.NO.	Species	Number (M:F)	Going to which Zoo	Date of deposition from the zoo
1	15	Himalaya bear	1M+ 1F	Arignar Zoological park, vandaloor, chennai	21/09/2017
2	73	White ibis	5M + 5F	Arignar Zoological park, vandaloor, chennai	21/09/2017
3	73	Open billed stork	2M+ 2F	Arignar Zoological park, vandaloor, chennai	21/09/2017
4	49	Water monitor lizard	1M + 1F	Arignar Zoological park, vandaloor, chennai	21/09/2017
5	50A	Siamese crocodile	1M	Arignar Zoological park, vandaloor, chennai	21/09/2017

25. Rescue and Rehabilitation of wild animals carried out by the Zoo:

Sl.No.	Date of Rescue	Species with number of animals rescued with their sex (M: F:U:T)	Received from	Date of Submission of Report to the CWLW / CZA	Action taken	
					Date and Place of rehabilitation in their habitat	Reasons for housing in the zoo, if not released in their habitat
Mammals (Sch I & II)						
1	28.05.17	Hill mynah (0:0:1:1)	DFO, Nayagarh	Memo No 8690/4WL(G)(F/R) 01/2017 dated 10-10-2017 of CWLW		Rescued at a young age of 3 months, hand reared at Zoo Hospital. It is unsuitable for release to nature because of prolonged human association.
2	11.03.18	Himalayan Griffon Vulture (0:0:1:1)	DFO, Athamalik	Memo No. 2245/4WL (G)(F/R)01/2017 dated 08.03.2018 of CWLW (to OUAT for Treatment)		Receipt in critical health condition in recumbent stage away from its habitat. It is unsuitable for release to nature because of human association during treatment.
3	12.10.17	Black buck (1:2:0:3)	DFO, Ghumsur south division	Memo No 9020/4WL(G)(F/R) 01/2017 date 23.10.2017 of CWLW		Rescued in sick condition, treated at zoo hospital. Unsuitable for release to nature due to prolonged human association.
4	12.10.17	Black buck (1:0:0:1)	DFO, Ghumsur south division			Rescued in sick condition, treated at zoo hospital. Unsuitable for release to nature due to prolonged human association.

5	09.06.17	Indian Pangolin (0:1:0:1)	Mithili Range, Malkangiri Forest Division	Memo No 8690/4WL(G)(F/R) 01/2017 dated 10-10- 2017 of CWLW		Rescued by concerned division away from its habitat. Unsuitable for release to nature as its habitat area is not known.
6	13.06.17	Indian Pangolin (0:1:0:1)	Hindol Range, Dhenkanal	Memo 6282/1WL(G) 200/2017 dated 19.07.2017 of CWLW		Received in injured condition and treatment done at zoo hospital. Unsuitable for release to nature due to prolonged human association during treatment.
7	23.06.201 7	Indian Pangolin (1:0:0:1)	Chandanp ur, Tangi Range,	Memo No 8690/4WL(G)(F/R) 01/2017 dated 10-10- 2017 of CWLW		Received in injured condition and treatment done at zoo hospital. Unsuitable for release to nature due to prolonged human association during treatment.
8	20.08.17	Indian Pangolin (0:1:0:1)	Khurda Division			Rescued at an young age and away from its habitat. Unsuitable for release to nature due to prolonged human association during treatment.
9	06.09.17	Indian Pangolin (0:1:0:1)	Rourkela Forest Range	Memo No. 8238/4WL- (G)-200/2017 dated 20-09- 2017 of CWLW		Received in injured condition and treatment done at zoo hospital. Unsuitable for release to nature due to prolonged human association during treatment.
10	31.10.17	Leopard	Khariar Road	Memo No 9198/4WL (G)(F/R)01/20		Rescued and sent to Nandankanan for long term care.

		(1:0:0:1)	Range, Khariar Forest Division	17 dated 30.10.2017 of CWLW		
11	16.07.17	Leopard (1:0:0:1)	Khariar Road Range, Khariar Forest Division	Camp Memo 01-dated 15- 07-2017 of CWLW		Rescued and sent to Nandankanan for long term care.
12	03.11.17	Elephant calf (0:1:0:1)	Khurda Range			Rescued as abandoned calf at the age of about 5months. Kept under hand rearing. Unsuitable for release to nature due to prolonged human imprint.
13	19.11.17	Sloth bear cub (1:0:0:1)	DFO, Koraput	Memo No 9921/4WL (G)(F/R)01/20 17 dated 18.11.2017 of CWLW		Rescued in abandoned stage at an age of about 10 months and kept under hand rearing. Unsuitable for release to nature due to domesticated condition.
14	19.12.17	Sloth bear cub (0:1:0:1)	DFO, Baliguda			Rescued in abandoned stage at an age of about 1 ½ months and kept under hand rearing. Unsuitable for release to nature due to domesticated condition.
Reptiles Sch I & II						
15	21.07.17	Mugger	DFO,	Memo No 8690/4WL(G)(Received in sick condition and kept

		crocodile	Nayagarh Division	F/R) 01/2017 dated 10-10- 2017 of CWLW		under treatment. Unsuitable for release into wild.
16	11.7.17	Flap shelled Turtle	Forest Range Officer, Cuttack Range			Rescued in injured condition and kept under treatment at zoo hospital, unsuitable for release to the nature.
17	13.10.17	Flap shelled Turtle (albino)	DFO, WLCL, City Forest Division (rescued from Secretariat)			Rescued in injured condition and kept under treatment at zoo hospital, unsuitable for release to the nature.
Sch III & IV						
18	17.5.2017	Hyena cub (0:1:0:1)	DFO, Malkangiri	Camp Memo 01-dated 15- 07-2017 of CWLW		Received at an age of about 15 days and hand reared at Nandankanan. Unsuitable for release to nature due to prolonged human imprint.
19	12.05.201 7	Scaly breasted /Spotted munia (0:0:1:1)	Balipatna Range	Camp Memo 01-dated 15- 07-2017 of CWLW		Rescued in sick condition and treated at Nandankanan Zoo Hospital.
20	09.6.2017	Scaly breasted /Spotted munia (0:0:1:1)	Balipatna Range	Camp Memo 01-dated 15- 07-2017 of CWLW		Rescued in injured condition. Unsuitable for release due to human imprint

26. Annual Inventory of animals:

Form – II
[See Rule 11(1)]
Part – A
Inventory Report for the Year :

Endangered Species*

ANIMAL INVENTORY (FROM 1ST APRIL- 2017 TO 31ST MARCH-18)

Sl. No	SCH-I & SCH-II (Wildlife Protection Act)	Species	Scientific name	SCH	During the Month																			
					Stock as on 01.04.2017				Births			Acquisition s			Disp osals			Deaths			Stock as on 31.03.2018			
					M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
		<u>BIRDS</u>	-	-																				
1		MYNAH HILL	<i>Gracula religiosa</i>	I	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
2		A. PEA FOWL, INDIAN	<i>Pavo cristatus</i>	I	5	2	4	11	0	0	3	0	0	0	0	0	0	0	2	0	5	1	6	12
		B. PEA FOWL, INDIAN WHITE	<i>Pavo cristatus</i>	I	1	2	0	3	0	0	0	2	2	0	0	0	0	0	0	0	3	4	0	7
3		SPOONBILL WHITE EURASIAN	<i>Platalea leucorodia</i>	I	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
4		VULTURE CINEREOUS	<i>Aegypius monachus</i>	I	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	
5		VULTURE LONG BILLED	<i>Gyps indicus</i>	I	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
6		VULTURE WHITE BACKED	<i>Gyps bengalensis</i>	I	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	

7	KITE BRAMHINY	<i>Haliastur indus</i>	I	1	1	1	3	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	2
8	KITE BLACK	<i>Milvus migrans</i>	I	1	1	10	12	0	0	0	0	0	0	0	0	0	1	0	0	1	1	9	11
9	SHIKRA	<i>Accipiter badius</i>	I	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
10	HORNBILL GREY	<i>Ocyrceros birostris</i>	I	1	0	2	3	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	2
	TOTAL SCH-I &II BIRDS			9	7	24	40	0	0	3	2	2	0	0	0	0	2	3	0	11	7	24	42
	<u>MAMMALS</u>																						
11	ANTELOPE, FOUR HORNED/CHOWSING HA	<i>Tetraceros quadricomis</i>	I	2	1	1	4	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	4
12	BEAR, HIMALAYAN BLACK	<i>Selenarctos thibetanus</i>	II	4	4	0	8	0	0	0	0	0	0	1	1	0	0	0	0	3	3	0	6
13	BEAR, SLOTH	<i>Melursus ursinus</i>	I	2	3	0	5	0	0	1	0	0	0	0	0	0	1	1	0	1	2	1	4
14	A. BLACK BUCK / KRISHNA MRIG	<i>Antilope cervicapra</i>	I	4	6	1	11	0	0	6	0	0	0	0	0	0	0	0	0	4	6	7	17
	B. WHITE BUCK	<i>Antilope cervicapra</i>	I	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
15	CAT, JUNGLE	<i>Felis chaus</i>	II	5	1	0	6	0	0	2	0	0	0	0	0	0	2	1	0	3	1	1	5
16	CAT, LEOPARD	<i>Prionailurus bengalensis</i>	I	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
17	CIVET, COMMON PALM / CAT TODDY	<i>Paradoxurus hermaphroditus</i>	II	4	3	9	16	0	0	8	0	0	0	0	0	0	1	0	0	3	3	17	23
18	CIVET, SMALL INDIAN	<i>Viverricula indica</i>	II	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
19	DEER, BROW ANTLERED / SANGAI	<i>Cervus eldi</i>	I	3	5	0	8	0	0	2	0	0	0	0	0	0	0	0	0	3	5	2	10
20	DEER, MOUSE	<i>Tragulus memmina</i>	I	5	3	0	8	0	0	1	0	0	0	0	0	0	0	2	0	5	1	1	7

21	DEER- SWAMP / BRASINGHA	<i>Cervus duvauceli</i>	I	4	7	0	11	0	0	0	0	0	0	0	0	0	0	0	4	7	0	11			
22	ELEPHANT, INDIAN	<i>Elephas maximus</i>	I	1	4	0	5	0	0	0	0	0	0	0	0	0	0	0	1	4	0	5			
23	GAUR	<i>Bos Gaurus</i>	I	2	1	0	3	0	1	0	0	0	0	0	0	0	0	0	2	2	0	4			
24	LEOPARD / PANTHER	<i>Panthera pardus</i>	I	3	3	0	6	0	0	0	0	0	0	0	0	1	0	0	2	3	0	5			
25	LION ASIATIC	<i>Pantera leo persica</i>	I	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2			
26	MACAQUE, BONNET	<i>Macaca radiata</i>	II	6	5	0	11	0	0	1	0	0	0	0	0	2	0	0	4	6	0	10			
27	MACAQUE, RHESUS	<i>Macaca mulatta</i>	II	3	2	3	8	0	0	0	0	0	0	0	0	0	0	0	4	4	0	8			
28	PANGOLIN	<i>Manis crassicaudata</i>	I	1	5	0	6	0	0	2	0	0	0	0	0	0	0	1	2	4	1	7			
29	RATEL	<i>Mellivora capensis</i>	I	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3			
30	SQUIRREL GIANT	<i>Ratufa indica</i>	II	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2			
31	MANGOSE COMMON	<i>Herpestes edwardsi</i>	II	1	1	1	3	0	0	0	0	0	0	0	0	0	0	0	1	1	1	3			
32	A. TIGER, BENGAL	<i>Panthera tigris tigris</i>	I	6	9	0	15	1	1	0	0	0	0	0	0	1	1	0	6	9	0	15			
	B. TIGER, BENGAL (WHITE)	<i>Panthera tigris tigris</i>	I	4	5	0	9	0	0	0	0	0	0	0	0	0	1	0	4	4	0	8			
	B. TIGER, BENGAL (MELANISTIC)	<i>Panthera tigris tigris</i>	I	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2			
33	NILGIRI LANGURE	<i>Trachypithecus johnii</i>	I	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	2			
TOTAL SCH-I & II MAMMALS					68	72	15	155	1	2	2	3	1	1	0	1	1	0	8	6	1	63	71	32	166
	REPTILES	-	-																						
34	COBRA, KING	<i>Ophiophagus hannah</i>	II	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3			
35	COBRA, MONOCELLATE	<i>Naja naja kouthia</i>	II	1	1	1	3	0	0	0	0	0	0	0	0	0	0	0	1	1	1	3			
36	COBRA, BINOCELLATE	<i>Naja naja</i>	II	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2			
37	CROCODILE, LONG SNOUTED / GHARIAL	<i>Gavialis gangeticus</i>	I	4	27	74	105	0	0	2	0	0	0	0	0	0	0	2	4	79	40	123			
38	CROCODILE,	<i>Crocodilus</i>	I	4	6	0	10	0	0	4	0	0	0	0	0	0	0	0	4	6	4	14			

	MUGGER	<i>palustris</i>																					
39	CROCODILE, SALT WATER	<i>Crocodylus porosus</i>	I	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
40	MONITOR LIZARD, COMMON INDIAN	<i>Varanus bengalensis</i>	I	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
41	MONITOR LIZARD, WATER	<i>Varanus salvator</i>	I	1	4	3	8	0	0	0	0	0	0	1	1	0	0	0	0	1	3	2	6
42	PYTHON, BURMESE ROCK	<i>Python molurus bivistatus</i>	I	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
43	PYTHON, INDIAN ROCK	<i>Python molurus molurus</i>	I	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
44	PYTHON, RETICULATED	<i>Python reticulatus</i>	I	0	0	1	1	0	0	0	1	1	0	0	0	0	1	0	0	1	1	0	2
45	SNAKE, RAT	<i>Ptyas mucosus</i>	II	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
46	TURTLE, FRESH WATER / INDIAN FLAP -SHELL	<i>Lissemys punctata punctata</i>	I	6	10	48	64	0	0	0	0	0	0	0	0	0	0	0	0	6	10	48	64
47	TURTLE, GANGES SOFT SHELL	<i>Trionyx gangeticus</i>	I	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
48	VIPER, RUSSEL'S	<i>Vipera ruselli</i>	II	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
49	INDIAN CHAMELEON	<i>Chameleon zeylanicus</i>	II	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
TOTAL SCH-I & II REPTILES				21	52	134	207	0	0	24	1	1	0	1	1	0	1	0	2	22	104	102	228

*Animals under Schedule I and Schedule II of the Wild Life (Protection) Act, 1972

Part – B

Other than Endangered Species

				Stock as on 01.04.2017				Births			Acquisitions			Disposals			Deaths			Stock as on 31.03.2018				
	OTHERS																							

50	BUDGERIGAR	<i>Melopsittacus undulatus</i>	E	138	242	119	499	0	0	1	0	0	0	0	0	0	0	0	138	242	13	514	
51	COCKATIEL, WHITE/ CINAMON PEARS PIED	<i>Nymphicus hollandicus</i>	E	17	24	49	90	0	0	4	0	0	0	0	0	0	1	1	0	16	23	53	92
52	COCKATOO, LESSER SULPHUR CRESTED	<i>Cacatua sphurea</i>	E	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
53	COCKATOO, UMBRELLA SULPHUR CRESTED	<i>Cacatua sphurea</i>	E	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
54	CONNURE BROWN THROATED	<i>Eupsittula pertinax</i>	E	1	1	2	4	0	0	0	0	0	0	0	0	0	0	1	1	1	1	3	
55	CONNURE JANDAYA	<i>Aratinga jandaya</i>	E	1	2	15	18	0	0	2	0	0	0	0	0	1	0	0	1	2	16	19	
56	CONURE SUN	<i>Aratinga solstitialis</i>	E	0	0	34	34	0	0	5	0	0	0	0	0	0	0	1	0	0	38	38	
57	CONURE PINE APPLE	<i>Pyrrhura molinae molinae</i>	E	3	3	0	6	0	0	0	0	0	0	0	0	1	1	0	2	2	0	4	
58	CONURE YELLOW SIDED	<i>Pyrrhura molinae sordida</i>	E	4	5	0	9	0	0	0	0	0	0	0	0	0	0	0	4	5	0	9	
59	CRANE SARUS	<i>Grus antigone</i>	IV	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
60	CANARY	<i>Serinus canaria</i>	IV	0	0	2	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	
61	DOVE, EMERALD	<i>Chalcophaps indica</i>	IV	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	
62	DOVE, SPOTTED	<i>Spilopelia chinensis</i>	E	1	1	6	8	0	0	0	0	0	0	0	0	0	0	0	1	1	6	8	
63	DOVE BARBARY	<i>Streptopelia risoria</i>	E	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	
64	DOVE, DIAMOND	<i>Geopelia cuneata</i>	E	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	
65	DOVE LAUGHING	<i>Spilopelia senegalensis</i>	E	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	
66	DOVE, RING NECKED	<i>Streptopelia capicola</i>	E	1	1	3	5	0	0	0	0	0	0	0	0	0	0	2	1	1	1	3	
67	DUCK, MANDARIN	<i>Aix galericulata</i>	E	12	10	0	22	0	0	2	0	0	0	0	0	1	1	0	11	9	2	22	
68	EGRET CATTEL	<i>Bubulcus ibis</i>	IV	1	0	5	6	0	0	0	0	0	0	0	0	0	0	1	0	5	6		
69	EGRET LARGE	<i>Cosmerodius albus</i>	IV	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
70	EGRET, LITTLE	<i>Egretta garzetta</i>	IV	0	0	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6	
71	EGRET, MEDIAN	<i>Egretta intermedia</i>	IV	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	

72	EMU	<i>Dromaius novaehollandiae</i>	E	2	3	1	6	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	3	0	5
73	FINCH, BENGAL/ SOCIETY	<i>Lonchura striata</i>	IV	6	11	4	21	0	0	0	0	0	0	0	0	0	0	0	0	0	6	11	4	21	
74	FINCH, LONG TAILED	<i>Poephila cincta</i>	E	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	
75	FINCH, STAR	<i>Poephila ruficauda</i>	E	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
76	FINCH, ZEBRA	<i>Poephila guttata</i>	E	51	79	70	200	0	0	1	0	0	0	0	0	0	0	0	0	0	51	79	82	212	
77	HERON GREY	<i>Ardea cinerea</i>	IV	3	7	3	13	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	3	13	
78	HERON, NIGHT	<i>Nycticorax nycticorax</i>	IV	8	11	43	62	0	0	1	0	0	0	0	0	0	0	0	0	0	8	11	53	72	
79	IBIS, WHITE	<i>Threskiornis aethiopica</i>	IV	30	61	50	141	0	0	2	0	0	0	5	5	0	0	0	0	0	25	56	78	159	
80	KOEL	<i>Eudynamis scolopacea</i>	IV	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	
81	LORIKEET, BLUE FACED	<i>Trichoglossus haematodus enetermedius</i>	E	1	1	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	3	
82	LORIKEET, SWAINSON'S	<i>Trichoglossus haematodus moluccanus</i>	E	1	1	1	3	0	0	2	0	0	0	0	0	0	0	0	0	0	1	1	3	5	
83	LORRY YELLOW BACKED	<i>Lorius garrulus flavopalliat</i>	E	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
84	LOVE BIRD, FISCHERS	<i>Agapornis fischeri</i>	E	11	10	15	36	0	0	0	0	0	0	0	0	0	0	0	0	0	11	10	15	36	
85	LOVE BIRD, PEACH-FACED	<i>Agapornis roseicollis</i>	E	4	6	2	12	0	0	0	0	0	0	0	0	0	0	0	0	0	4	6	2	12	
86	LOVE BIRD, MASKED	<i>Agapornis personatus</i>	E	1	2	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	4	
87	MACAW, BLUE & YELLOW	<i>Ara ararauna</i>	E	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1
88	MACAW, GREEN WINGED	<i>Ara chloroptera</i>	IV	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	
89	MUNIA RED	<i>Estrilda amandava</i>	IV	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	
90	MUNIA,	<i>Lonchura malacca</i>	IV	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	

	BLACKHEADED																						
91	MUNIA, SPOTTED / NUTMEG MANNIKIN	<i>Lonchura punctulata</i>	IV	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
92	OSTRICH	<i>Struthio camelus</i>	IV	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4
93	OWL, BARN	<i>Tyto alba</i>	IV	1	1	14	16	0	0	2	0	0	0	0	0	0	1	0	0	1	1	15	17
94	OWL, BROWN FISH	<i>Bubo zeylonesis</i>	E	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
95	OWL, ORIENTAL SCOPS	<i>Otus sunia</i>	E	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
96	PARAKEET, ALEXANDRINE	<i>Psittacula eupatria</i>	IV	4	3	6	13	0	0	1	0	0	0	0	0	0	0	0	0	4	3	7	14
97	PARAKEET, BLOSSOM HEADED	<i>Psittacula cyanocephala</i>	IV	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4
98	PARAKEET, ROSE RING	<i>Psittacula krameri</i>	IV	8	15	2	25	0	0	0	0	0	0	0	0	0	0	0	0	8	15	2	25
99	PARROT AFRICAN GREY	<i>Psittacus erithacus</i>	IV	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
100	PELICAN GREY/SPOT BILLED	<i>Pelecanus philippensis</i>	IV	1	2	11	14	0	0	0	0	0	0	0	0	0	0	0	0	1	2	11	14
101	PELICAN ROSY/WHITE	<i>Pelecanus onocrotalus</i>	IV	1	1	3	5	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	5
102	PHEASANT, GOLDEN	<i>Chrysolophus pictus</i>	E	4	5	0	9	0	0	6	0	0	0	0	0	0	0	0	0	4	5	6	15
103	PHEASANT, LADY AMHERST'S	<i>Chrysolophus amherstiae</i>	E	4	2	0	6	0	0	2	0	0	0	0	0	0	0	0	0	4	2	2	8
104	PHEASANT, RING NECKED	<i>Phasianus colchicus</i>	E	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
105	PHEASANT, REEV'S	<i>Syrnaticus reevesii</i>	E	2	3	0	5	0	0	0	0	0	0	0	0	0	0	1	0	2	2	0	4
106	PHEASANT SILVER	<i>Lophura nycthemera</i>	E	4	3	0	7	0	0	1	0	0	0	0	0	0	0	1	0	4	2	17	23

107	PHEASANT YELLOW GOLDEN	<i>Chrysolophus pictus mut.</i>	E	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
108	ROSELLA, EASTERN	<i>Platycercus eximius</i>	E	4	3	1	8	0	0	0	0	0	0	0	0	0	2	1	0	2	2	1	5
109	SPARROW JAVA	<i>Padda oryzivora</i>	IV	18	30	44	92	0	0	5	0	0	0	0	0	0	0	0	0	18	30	49	97
110	STORK LESSER ADJUTANT	<i>Leptoptilos javanicus</i>	IV	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
111	STORK PAINTED	<i>Mycteria leucocephala</i>	IV	4	4	1	9	0	0	1	0	0	1	0	0	0	0	0	1	4	4	11	19
112	STORK OPEN BILLED	<i>Anastomus oscitans</i>	IV	0	0	15	15	0	0	0	0	0	0	2	2	0	0	0	0	0	0	11	11
113	STORK, WHITE NECKED/WOOLY NECKED	<i>Ciconia episcopus</i>	IV	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
114	SWAN BLACK	<i>Cygnus atratus</i>	E	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4
115	SWAN MUTE	<i>Cygnus olor</i>	E	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
116	MEYER'S PARROT	<i>Poicephalus meyeri</i>	E	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4
117	RED BILLED PARROT	<i>Pionus sordidus</i>	E	3	3	0	6	0	0	0	0	0	0	0	0	0	0	0	0	3	3	0	6
118	TURACO, VIOLET	<i>Musophaga violacca</i>	E	0	1	4	5	0	0	0	0	0	0	0	0	0	1	0	0	0	1	3	4
119	TURACO, LIVING STONE'S	<i>Turaco livingstonii</i>	E	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
120	RINGED NECKED PARAKEET	<i>I-Lutino Mutation</i>	IV	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	1	0	0	11	11
		<i>II-Albino Mutation</i>	IV	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	1	0	0	4	4
121	RED JUNGLE FOWL	<i>Gallus gallus</i>	IV	1	3	0	4	0	0	4	0	0	0	0	0	0	1	0	0	1	3	3	7
TOTAL OTHER BIRDS				381	579	546	1506	0	0	119	0	0	30	7	7	0	13	8	9	369	568	674	1611
MAMMALS																							

122	BABOON, HAMADRYAS	<i>Papio hamadryas</i>	E	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
123	CHIMPANZEE	<i>Pan troglodytes</i>	E	1	3	0	4	0	2	0	0	0	0	0	0	0	0	0	0	1	5	0	6
124	DEER, BARKING- MUNTJAC (KAKKAR)	<i>Muntiacus muntjak</i>	III	25	41	12	78	0	0	0	0	0	0	0	0	0	0	0	0	25	41	12	78
125	DEER, HOG	<i>Axis porcinus</i>	III	7	17	8	32	0	0	5	0	0	0	0	0	0	2	0	0	7	17	11	35
126	DEER, SAMBAR	<i>Cervus unicolor</i>	III	8	11	2	21	0	0	1	0	0	0	0	0	0	2	0	0	6	14	0	20
127	I.DEER, SPOTTED/ CHITAL(ZOO)	<i>Axis axis</i>	III	153	173	18	344	0	0	5	0	0	0	0	0	0	5	0	0	213	208	53	474
	II.DEER, SPOTTED/CHITAL(RB D)	<i>Axis axis</i>	III	263	191	0	454	5	44	0	0	0	0	0	0	0	1	1	0	273	204	0	477
128	GIRAFFE	<i>Giraffa camelopardalis</i>	E	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
129	HARE INDIAN	<i>Lepus nigricollis</i>	IV	1	1	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	3
130	HIPPOPOTAMUS	<i>Hippopotamus amphibius</i>	E	7	8	2	17	0	0	1	0	0	0	0	0	0	1	1	0	6	7	3	16
131	HYAENA, STRIPED	<i>Hyaena hyaena</i>	III	3	4	0	7	0	0	0	0	0	0	0	0	0	0	0	0	3	4	0	7
132	GIANT FRUIT BAT	<i>Pteropus giganteus</i>	V	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
133	JACKAL	<i>Canis aureus</i>	IV	3	2	2	7	0	0	1	0	0	0	0	0	0	2	0	1	1	2	2	5
134	LION HYBRID	<i>Panthera leo</i>	E	4	4	1	9	0	0	0	0	0	0	0	0	0	1	0	0	4	4	0	8
135	LION AFRICAN	<i>Panthera leo</i>	E	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4
136	NILGAI-BLUE BULL	<i>Boselaphus tragocamelus</i>	III	6	16	1	23	0	0	0	0	0	0	0	0	0	0	1	0	6	16	0	22
137	ORANG UTAN	<i>Pongo pygmaeus</i>	E	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
138	PIG WILD/WILD BOAR	<i>Sus scrofa</i>	III	3	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	4
139	A. PORCUPINE INDIAN	<i>Hystrix indica</i>	IV	2	0	2	4	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	4
140	ZEBRA GRANT	<i>Equus burchellii bohmi</i>	E	2	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
141	BLACK-TUFTED MARMOSET	<i>Callithrix penicillata</i>	E	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	2

142	RED-HANDED TAMARIN	<i>Saguinus midas</i>	E	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	2	
TOTAL OTHER MAMMALS				491	477	52	102	5	46	6	2	2	0	0	0	0	16	3	1	556	531	87	1174
REPTILES																							
143	BOA, COMMON SAND	<i>Eryx johnii</i>	IV	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	
144	BOA, RED SAND	<i>Eryx conicus</i>	IV	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	
145	CROCODILE, MORELET'S	<i>Crocodylus moreletii</i>	E	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	
146	CROCODILE, SIAMESE	<i>Crocodylus siamensis</i>	E	4	13	3	20	0	0	0	0	0	0	1	0	0	0	0	3	13	3	19	
147	CHITRA TURTLE	<i>Chitra indica</i>	IV	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	
148	KRAIT BANDED	<i>Bungarus fasciatus</i>	IV	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	
149	KRAIT, COMMON INDIAN	<i>Bungarus caeruleus</i>	IV	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	
150	TORTOISE STAR INDIAN	<i>Geochelone elegans</i>	IV	2	1	10	13	0	0	0	0	0	0	0	0	0	0	0	2	1	10	13	
151	CUVIERS DWARF CAIMAN	<i>Paleosuchus Palpebrosus</i>	E	2	3	0	5	0	0	0	0	0	0	0	0	0	0	0	2	3	0	5	
152	TURTEL INDIAN TENT	<i>Pangshura tentoria</i>	I	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	
153	I.GREEN IGUANA	<i>Iguana iguana</i>	E	0	0	0	0	0	0	0	2	2	0	0	0	1	0	0	1	2	0	3	
	II. RED IGUANA	<i>Iguana iguana</i>	E	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	2	2	0	4	
TOTAL OTHER REPTILES				10	22	23	55	0	0	0	4	4	0	1	0	0	1	0	12	26	23	61	
AMPHIBIANS																							
154	FROG, INDIAN BULL	<i>Hoplobatrachus tigerinus</i>	IV	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	
155	FROG, GREEN POND	<i>Euphlyctis hexadactyla</i>	IV	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	

156	FROG, INDIAN SKIPPER	<i>Euphlyctis cyanophlyctis</i>	IV	0	0	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
157	FROG, COMMON INDIAN TREE	<i>Polypedates maculatus</i>	IV	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
158	TOAD, ASIAN COMMON	<i>Duttaphrynus melanostictus</i>	IV	0	0	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
159	TOAD, MARBLED	<i>Bufo stamaticus</i>	IV	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
	TOTAL AMPHIBIANS	-	-	0	0	21	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21
	GRAND TOTAL	-	-	980	1209	815	3004	60	48	229	10	10	30	10	90	0	41	20	13	1033	1307	963	3303

27. Mortality of animals:

Sl.No.	Animal Name (with individual identification mark, if any)	Scientific Name	Sex	Date of Death	Reason of Death as per the Post-mortem report
MAMMALS					
1	Jackal cub	<i>Canis aurius</i>	M	22.04.17	Death due to traumatic injury and hypovolumic shock
2	Hybrid lion	<i>Panthera leo</i>	M	25.04.17	Multiple cysts in the liver associated with old age
3	Nilgai	<i>Boselaphus tragocamelus</i>	F	30.04.17	Tumor in the liver associated with old age
4	Hog deer	<i>Axis porcinus</i>	M	13.05.17	Pneumonia
5	Hippopotamus	<i>Hippopotamus amphibious</i>	F	20.05.17	Injury and jaundice
6	Grant's Zebra	<i>Equus quagga boehmi</i>	M	30.05.17	Shock associated with internal haemorrhage, blood loss and enteritis.
7	Jackal	<i>Canis aurius</i>	M	05.07.17	Infighting and hypovolumic shock
8	Sambar	<i>Rusa unicolor</i>	M	03.08.17	Acute pneumonia
9	White tiger	<i>Panthera tigris</i>	F	12.08.17	Hepatic tumor and rupture with haemoperitoneum associated with old age
10	Sloth bear	<i>Melursus ursinus</i>	F	31.08.17	Chronic hepatitis with cholecystitis and ascites
11	Grant's Zebra	<i>Equus quagga boehmi</i>	M	25.09.17	Toxaemia associated with muscle haemorrhage, pneumonia and enteritis suspected for mixed clostridial and pasteurilla infection.
12	Bonnet macaque	<i>Macaca radiata</i>	M	03.10.17	Infighting
13	Sloth bear	<i>Melursus ursinus</i>	M	10.10.17	Tuberculosis
14	Jackal	<i>Canis aurius</i>	F	07.11.17	Haemorrhagic enteritis with debility
15	Hog deer	<i>Axis porcinus</i>	M	16.11.17	Infighting
16	Spotted deer	<i>Axis axis</i>	M	17.11.17	Infighting
17	Jungle cat	<i>Felis chaus</i>	M	01.12.17	Anaemia and haemorrhagic enteritis

18	Jungle cat	<i>Felis chaus</i>	F	02.12.17	Anaemia and haemorrhagic enteritis
19	Leopard	<i>Panthera pardus</i>	M	04.12.17	Stomach rupture associated with peritonitis and ascites.
20	Spotted deer	<i>Axis axis</i>	M	09.12.17	Suppurative pneumonia
21	Tiger	<i>Panthera tigris</i>	F	20.12.17	Pulmonary collapse, haemopericardium associated with debility and old age.
22	Indian Pangolin	<i>Manis crassicaudata</i>	M	02.01.18	Shock
23	Tiger cub	<i>Panthera tigris</i>	M	13.01.18	Multiple injury, lungs rupture and thoracic bleeding.
24	Bonnet macaque	<i>Macaca radiata</i>	M	20.01.18	Old age
25	Mouse deer	<i>Tragulus memmina</i>	F	01.02.18	Prolapsed of part of rumen with retention of urine in U.B and internal bleeding to peritoneal cavity.
26	Mouse deer	<i>Tragulus memmina</i>	F	05.02.18	Enteritis and retention of urine
27	Common palm civet	<i>Paradoxurus hermaphroditus</i>	M	19.02.18	Infighting
28	Sambar	<i>Rusa unicolor</i>	M	01.03.18	Acute Pneumonia
29	Spotted deer	<i>Axis axis</i>	F	05.03.18	Old age
30	Spotted deer	<i>Axis axis</i>	M	11.03.18	Infighting
31	Spotted deer	<i>Axis axis</i>	M	12.03.18	Tuberculosis
32	Spotted deer	<i>Axis axis</i>	M	15.03.18	Tuberculosis
33	Jungle cat	<i>Felis chaus</i>	M	15.03.18	Enteritis
34	Spotted deer	<i>Axis axis</i>	M	28.03.18	Infighting
35	Hippopotamus	<i>Hippopotamus amphibious</i>	M	29.03.18	Septicemia associated with infighting injuries.
BIRDS					
1	Painted stork	<i>Mycteria leucocephala</i>	F	23.04.17	Hepatitis and nephritis
2	Indian Peafowl	<i>Pavo cristatus</i>	F	30.04.17	Old age with pneumonia
3	Black Kite	<i>Milvus migrans</i>	M	05.05.17	Impaction and debility
4	Violet turaco	<i>Musophaga violacca</i>	M	20.05.17	Enteritis and generalized congestion with dehydration
5	Mute swan	<i>Cygnus olor</i>	M	13.06.17	Hepatitis and enteritis

6	Brahmin kite	<i>Haliastur indus</i>	F	20.06.17	Pneumonia associated with old age
7	Reev's pheasant	<i>Syrmaticus reevesii</i>	F	07.07.17	Pneumonia
8	Emu	<i>Dromaius novaehollandiae</i>	M	21.07.17	Haemorrhagic myositis and septicemia
9	Blue & yellow macaw	<i>Ara ararauna</i>	M	26.07.17	Fatty liver haemorrhagic syndrome
10	Red jungle fowl	<i>Gallus gallus</i>	M	01.08.17	Debility, anemia & enteritis
11	Cockatiel	<i>Nymphicus hollandicus</i>	M	12.08.17	Enteritis & Hepatitis
12	Cockatiel	<i>Nymphicus hollandicus</i>	F	13.08.17	Enteritis
13	Ring necked parakeet, albino	<i>Psittacula krameri</i>	F	27.08.17	Enteritis
14	Ring necked parakeet, lutino	<i>Psittacula krameri</i>	F	29.08.17	Enteritis
15	Pineapple conure	<i>Pyrrhura molinae molinae</i>	F	31.08.17	Tape worm & enteritis
16	Mandarin duck	<i>Aix galericulata</i>	F	04.09.17	Enteritis and Hepatitis
17	Ring necked parakeet, lutino	<i>Psittacula krameri</i>	F	14.10.17	Hepatitis and enteritis
18	Ring necked parakeet, lutino	<i>Psittacula krameri</i>	M	20.10.17	Haemorrhagic enteritis.
19	Grey hornbill	<i>Ocyrceros birostris</i>	M	25.10.17	Pneumonia
20/21	Canary	<i>Serinus canaria</i>	2F	18.11.17	Predator bite
22	Eastern Rosella	<i>Platycercus eximius</i>	F	19.11.17	Pneumonia
23	Brown throated conure	<i>Eupsittula pertinax</i>	M	20.11.17	Debility associated with old age
24/25	Ring necked dove	<i>Streptopelia capicola</i>	2M	21.11.17	Enteritis.
26	Sun conure	<i>Aratinga solstitialis</i>	F	26.11.17	Hepatitis and enteritis
27	Pineapple conure	<i>Pyrrhura molinae molinae</i>	M	05.12.17	Hepatitis and nephritis
28	Ring necked parakeet, Lutino	<i>Psittacula krameri</i>	F	10.12.17	Necrotic hepatitis with peri-hepatitis and enteritis
29	Barn owl	<i>Tyto alba</i>	M	15.12.17	Infighting

30/31	Eastern Rosella	<i>Platycercus eximius</i>	1M, 1F	30.01.18	Parasitic enteritis
32	Mandarin duck	<i>Aix galericulata</i>	M	06.2.18	Suppurative pneumonitis and air sacculitis
33	Indian Peafowl	<i>Pavo crastatus</i>	F	17.02.18	Predator bite
34	Jandaya conure	<i>Aratinga jandaya</i>	M	21.02.18	Enteritis
35	Silver pheasant	<i>Lophura nycthemera</i>	F	11.03.18	Ingluvitis and hepatitis
REPTILES					
1	Gharial yearling	<i>Ghavalis gangeticus</i>	M	29.12.17	Congenital spinal compression at the cervical region associated with debility
2	Green Iguana	<i>Iguana iguana</i>	M	16.01.18	Impaction
3	Reticulated python	<i>Python reticulatus</i>	M	23.02.18	Old age
4	Gharial crocodile	<i>Ghavalis gangeticus</i>	F	24.02.18	Cause of death could not be ascertained due to advanced putrefaction of the carcass

28. Compliance with conditions stipulated by the Central Zoo Authority:

Sr. No	Norm No. under RZR, 2009	Condition Stipulated	Time Period to Comply	Since when pending	Status with regard to compliance of the conditions
1.General requirements					
1	10.1(2)	The zoo operator should plant endemic trees in various animal enclosures to provide shade and shelter to the animals	One year	February, 2018	Being planted in the current season
2	10.1(3)	The herbivore enclosures where the visitors move in the front as well as back of the enclosure towards the Lake side should have visitors access stopped/ blocked/ restrained from the lake side.	One year	February, 2018	It is under progress, shall be completed by the end of September, 2018
3	10.1(4)	The boundary wall is not effective since the stray dogs have been reported to have entered in the zoo	Immediately	February, 2018	Has already been strengthened
4	10.1(7)	The zoo should provide a proper waste disposal system as per natural gradient of the area for treating both the solid and liquid wastes generated in the zoo. There should be waste disposal system have been no adverse impact on the environment. The present system is not effective and out flow is not proper.	Immediately	February, 2018	Technical wing of Drainage Department is being consulted in this regard for the disposal by taking contour of the area
2. Administrative and Staffing pattern					
5	10.2(1)	The Zoo Director's office should be located within the premises of the zoo to make the daily attendance of the Director more visible and beneficial for the day to day management of the zoo.	One year	February, 2018	Already made in budget provision and shall be commenced soon.

6	10.2(2)	The zoo shall have an official masters' Degree in Wildlife Science/ Zoology as a full time curator solely responsible for looking after the upkeep of the animal and maintenance of animal enclosures.	One year	February, 2018	ACF (Sanctuary Management) is declare as Curator by taking his experience into consideration and he is responsible for upkeep of animals
3. Development and Planning					
7	10.3(3)	The pucca Buildings including the visitors facility needs to be properly camouflaged and located in such a manner the natural landscape of the zoo have not been masked and cleanness and hygiene of the zoo is not affected due to such animal enclosures/ structures.	Immediately	February, 2018	Works have already been started and completed soon
8	10.3(8)	The Zoo has been acquiring rescued animals since around 20 years but they never informed the CZA in this regard. What they do is, they prepare a list of rescued animals housed in the zoo for around five years and submit proposal to the CZA for their regularisation. It should be stopped and statutory provisions in this regards be followed. It has happened 3 times in the past around 20 years. It should be stopped and statutory provision in this regard be followed.		February, 2018	Noted for future
9	10.3(8)	The Zoo should submit information to CZA about the rescued animal that pertains to endangered species .	Immediately.	February, 2018	It shall be henceforth informed immediately
4. Animal Housing, Display of animals and animal enclosures.					

10	10.4(2)	Some reptiles in reptile park have inadequate space with respect to prescribed CZA dimensions.	One Year	February, 2018	It is being expanded now
11	10.4(2)	Appropriately designee natural enclosure should be provided for all the primate species being displayed by the zoo.	One year	February, 2018	Accordingly it will be done and expanded
12	10.4(2)	The Old aviary near the rest house should be demolished and appropriately designee aviaries supporting the natural conditions of the birds should be constructed	One Year	February, 2018	It shall be demolished
13	10.4(3)	Chain link erected outside moat barrier on viewers' side needs to be removed.	One year	February, 2018	Extra safety measures have been taken by putting chain linked mesh outside moat. However we are looking for its removal in certain enclosures
14	10.4(3)	The elephant should not be kept tethered at the zoo. The elephant should be left out for foraging in the enclosure. They should be provided a walk during early hours and let hours for natural exercising.	Immediately	February, 2018	Suggestions has already been implemented
15	10.4(6)	The artificial shelters provided on the Macaque islands should be made naturalistic so that it merges with the overall environment / landscape of the enclosure.	One year	February, 2018	Noted and being implemented
16	10.4(6)	The zoo should endeavour to stimulate the condition of the natural habitat of the animal in the enclosures as closely as possible. Appropriate species of plants, shrubs should be	One Year	February, 2018	Environmental enrichment and plantation is going on

		planted inside animal enclosures. The animal enclosures should also be provided various artefacts for enriching the environment of animal enclosures. The aviaries should be provided appropriate wooden logs for perching and roosting and nesting material to nest.			
17	10.4(8)	The zoo has constructed a bear safari which is not as per the laid down norms of the CZA.	One Year	February, 2018	Attempts has been made to expand the bear safari area
18	10.4(9)	All the animal enclosures in the zoo should be provided appropriate stand-off barriers and adequate warning signs for keeping the visitors at a safe distance from the animal enclosures.	One year	February, 2018	Stand-off barrier for left out enclosures are being constructed
19	10.4(9)	The heights of the Stand-off barriers are not as per CZA norms. Further, a chain link mesh has been erected between the stand-off barrier and the moat wall obstructing visitors viewing area. It should be removed.	Immediately	February, 2018	Additional safety measures have been taken by Nandankanan authority for the visitors to put chain-link mesh in the rear side of the stand-off barrier to prevent the intrusion of children in to the enclosures. It has been installed mainly in carnivore animal enclosures. The visitors view is kept intact without any interruption
20	10.4(9)	Green hedge needs to be planted inside stand-off barrier wherever destroyed/damaged.	One Year	February, 2018	All the gaps are being filled up with green hedges in the current planting season
21	10.4(10)	The signages are not being looked after and maintained properly after wear and tear due to natural process or visitor vandalism.	One year	February, 2018	Some of the signages have been replaced. Left out signage's are gradually being replaced with new one

5. Upkeep and healthcare of animals.					
22	10.5(3)	The meat house should be made effectively fly proof.	Immediately	February, 2018	Regular fly proof measures are taken up
23	10.5(3)	Zoo should have a sufficient size functioning freezer for storage of meat and to keep it cold until it is fed to the animals	Immediately	February, 2018	Fresh meat is given to the animals. No freeze feed is given
24	10.5(3)	The store house for food should be made rodent proof and storage conditions of feed items need improvement to make it damp proof.	Immediately	February, 2018	Already renovated and made rodent proof
25	10.5(2)(3)	The zoo should have proper drainage system for meat house Complex.	Immediately	February, 2018	Already done
26	10.5(10)	Animal herd sheets should be prepared for species housed at zoo.	One year	February, 2018	There is not standard format for herd sheet at present. On receipt of the appropriate format, herd sheet shall be maintained
6. Veterinary and Infrastructure Facility.					
27	10.6(5)	The zoo should have one qualified Lab Assistant to assist the veterinarian in healthcare of the zoo animals.	Immediately	February, 2018	Action is being taken for recruitment of one Lab Assistant.
9. Acquisition and breeding of animals.					
28	10.9(9)	To safeguard against uncontrolled growth in the population of prolific breeding species, the zoo should effectively implement appropriate population control measure.	Immediately	February, 2018	Vasectomy is being performed in regular basis (twice a week) for the deer species
29	10.9(4)	The zoo should acquire mates for all single animal such as (Hill Myna, White Spoonbill, Long billed Vulture, White Blacked Vulture, Black Buck (Albino), Leopard Cat, Indian Small Civet, Salt	Immediately	February, 2018	Attempts have been made through discussion with other zoo operators for the purpose

		Water Crocodile, two species of Python, Rat snake, Ganges Soft-Shell Turtle, Russell's Viper, Sarus Crane, Large Egret, Median Egret, Black Headed Munia, Spotted Munia, Oriental Scops Owl, Blossom Headed Parakeet, Adjutant Stork (lesser), Painted Stork, White Neck Stork, Indian Porcupine, Lesser Sulphur Crested Cockatoo, Star Finch, Yellow Backed Lorry, Blue & yellow Macaw, Yellow Golden Pheasant, mute Swan, Giraffe, Orangutan) etc. on priority basis.			
30	10.9(12)	The hybrid lions need to be phased out of the zoo and replaced with pure breed of Asiatic Lions.	Immediately	February, 2018	Noted and steps are being taken accordingly
10. Research Activities.					
31	10.10	The zoo should implement a research plan and conduct research on the zoo prioritized species and specific areas of concern.	One year	February, 2018	A prescribed guideline may please be provided to the zoo for preparation of such Research plan
12. Visitors Facilities.					
32	10.12(1)	The zoo should provide neat and clean civic facilities for visitors. They should be made available to the physically disadvantaged person also at all existing places.	Immediately	February, 2018	It has already been implemented
33	10.12(1)	Appropriate arrangement should be made to provide access within the zoo to physically disadvantaged visitors including those in the wheel chair at all enclosures and civic facilities.	Immediately	February, 2018	It is in operation

29. List of free living wild animals within the zoo premises:

MAMMALS OF NANDANKANAN

Sl. No.	Common Name	Scientific name	Status
1	Wild Boar	<i>Sus scrofa</i>	R
2	Spotted Deer	<i>Axis axis</i>	VC
3	Ratel	<i>Mellivora capensis</i>	R
4	Common mongoose	<i>Herpestes edwardsi</i>	VC
5	Indian Poprcupine	<i>Hystrix indica</i>	R
6	Mouse Deer or Indian Chevrotain	<i>Tragulus meminna</i>	R
7	Common palm civet	<i>Paradoxurus hermaphrodites</i>	R
8	Jackal	<i>Canis aureus</i>	R
9	Indian fox	<i>Vulpes bengalensis</i>	VR
10	Common Langur	<i>Presbytis entellus</i>	VC
11	Rhesus Macaque	<i>Macaca mulatta</i>	VC
12	Jungle Cat	<i>Felis chaus</i>	R
13	Pangolin	<i>Manis crassicaudata</i>	VR
14	Indian hare	<i>Lepus nigricollis</i>	C
15	Small Indian civet	<i>Viverricula indica</i>	R
16	Striped hyena	<i>Hyaena hyaena</i>	R
17	Three striped palm squirrel	<i>Funambulus palmarium</i>	VC
18	Rat	<i>Rattus rattus</i>	VC
19	Indian flying fox	<i>Pteropus giganteus</i>	R
20	Horse shoe bat	<i>Rhinolophus lepidus</i>	VC

BIRDS OF NANDANKANAN

Sl. No.	Common Name	Scientific Name	Status
PHASIANIDAE			
1	Grey Partridge	<i>Francolinus pondicerianus</i>	C
2	Common Peafowl	<i>Pavo cristatus</i>	VC
3	Red Jungle fowl	<i>Gallus gallus murghi</i>	R
4	Red Spurfowl	<i>Galloperdix spadicea</i>	R
DENDROCYGNIDAE			
5	Lesser Whistling Teal	<i>Dendrocygna javanica</i>	VR
ANATIDAE			
6	Cotton pigmy goose	<i>Nettapus coromandelianus</i>	VR

7	Common Teal	<i>Anas crecca</i>	R
8	Spot-billed Duck	<i>Anas poecilorhyncha</i>	VR
9	Gadwall	<i>Anas strepera</i>	R
10	Northern Pintail	<i>Anas acuta</i>	R
11	Brahminy Duck	<i>Tadorna ferruginea</i>	VR
TURNICIDAE			
12	Barred Buttonquail	<i>Turnix suscitator</i>	R
PICIDAE			
13	Yellow fronted Pied or Maharatta Woodpecker	<i>Dendrocopos mahrattensis</i>	R
14	Larger Golden backed Woodpecker	<i>Chrysocolaptes lucidus</i>	C
15	Black-rumped flameback	<i>Dinopium benghalense</i>	VR
MEGALAIMIDAE			
16	Small Green Barbet	<i>Megalaima viridis</i>	R
17	Copper-smith Barbet	<i>Megalaima haemacephala</i>	R
18	Brown-headed Barbet	<i>Megalaima zeylanica</i>	R
UPUPIDAE			
19	Common Hoopoe	<i>Upupa epops</i>	R
CORACIIDAE			
20	Indian Roller or Blue Jay	<i>Coracias benghalensis</i>	C
ALCEDINIDAE			
21	Indian Small Blue Kingfisher	<i>Alcedo atthis bengalensis</i>	VR
DACLONIDAE			
22	White breasted Kingfisher	<i>Halcyon smyrnensis perpulchra</i>	C
CERYLIDAE			
23	Lesser Pied Kingfisher	<i>Ceryle rudis</i>	VR
MEROPIIDAE			
24	Indian Small Green Bee-eater	<i>Merops orientalis</i>	C
25	Blue Bee-eater	<i>Merops philippinus</i>	R
CUCULIDAE			
26	Indian Koel	<i>Eudynamys scolopacea</i>	VC
27	Pied Cuckoo	<i>Clamator jacobinus</i>	R
28	Common hawk Cuckoo	<i>Hierococcyx varius</i>	VR
29	Plaintive Cuckoo	<i>Cacomantis merulinus</i>	VR
30	Blue faced Malkoha	<i>Phaenicophaeus viridirostris</i>	VR
CENTROPODIDAE			
31	Crow-pheasant or Coucal	<i>Centropus sinensis</i>	VC
PSITTACIDAE			
32	Rose-ringed Parakeet	<i>Psittacula krameri</i>	VR
33	Alexandrine Parakeet	<i>Psittacula eupatria</i>	R

APODIDAE			
34	Asian palm swift	<i>Cypsiurus balasiensis</i>	C
TYTONIDAE			
35	Barn Owl	<i>Tyto alba</i>	VC
STRIGIDAE			
36	Eastern Spotted Scops Owl	<i>Otus spilocephalus</i>	VR
37	Spotted Owlet	<i>Athene brama</i>	C
CAPRIMULGIDAE			
38	Indian Jungle Nightjar	<i>Caprimulgus indicus</i>	C
COLUMBIDAE			
39	Indian Blue Rock Pigeon	<i>Columba livia intermedia</i>	C
40	Indian Spotted Dove	<i>Streptopelia chinensis</i>	VC
41	Emerald Dove	<i>Chalcophaps indica</i>	VR
RALLIDAE			
42	Purple Moorhen	<i>Porphyrio porphyrio</i>	R
43	Water cock	<i>Gallicrex cinerea</i>	R
44	Common moorhen	<i>Gallinula chloropus</i>	C
45	White breasted Waterhen	<i>Amaurornis phoenicurus boliocephalus</i>	C
SCOLOPACIDAE			
46	Eurasian Curlew	<i>Numenius arquata</i>	VR
47	Common snipe	<i>Gallinago gallinago</i>	R
48	Wood Sandpiper	<i>Tringa glareola</i>	R
49	Indian Stone Curlew	<i>Burhinus oedicephalus indicus</i>	VR
JACANIDAE			
50	Bronze winged Jacana	<i>Metopidius indicus</i>	C
51	Pheasant-tailed Jacana	<i>Hydrophasianus chirurgus</i>	R
CHARADRIIDAE			
52	Red-wattled Lapwing	<i>Vanellus indicus</i>	C
53	Yellow wattled Lapwing	<i>Vanellus malabaricus</i>	C
ACCIPITRIDAE			
54	Pariah Kite	<i>Milvus migrans govinda</i>	VR
55	Shikra	<i>Accipiter badius dussumderi</i>	R
56	Osprey	<i>Pandion haliaetus</i>	R
57	Crested Serpent eagle	<i>Spilornis cheela</i>	R
ANHINGIDAE			
58	Darter or Snake-bird	<i>Anhinga melanogaster</i>	C
PHALACROCORACIDAE			
59	Little Cormorant	<i>Phalacrocorax niger</i>	VC
ARDEIDAE			
60	Pond Heron	<i>Ardeola grayii</i>	C
61	Purple Heron	<i>Ardea purpurea</i>	VR

62	Grey Heron	<i>Ardea cinerea</i>	VR
63	Cattle Egret	<i>Bubulcus ibis coromandus</i>	VC
64	Little Egret	<i>Egretta garzetta</i>	VC
65	Median Egret	<i>Mesophoyx intermedia</i>	R
66	Great Egret	<i>Casmerodius albus</i>	R
67	Night Heron	<i>Nycticorax nycticorax</i>	C
68	Great Bittern	<i>Botaurus stellaris</i>	VR
69	Black Bittern	<i>Dupetor flavicollis</i>	VR
70	Yellow Bittern	<i>Ixobrychus sinensis</i>	VR
71	Cinnamon Bittern	<i>Ixobrychus cinnamomeus</i>	R
CICONIDAE			
72	Painted Stork	<i>Mycteria leucocephala</i>	VR
73	Openbill Stork	<i>Anastomus oscitans</i>	VC
74	Woolly-necked Stork	<i>Ciconia episcopus</i>	R
THRESKIORNITHIDAE			
75	Oriental White Ibis	<i>Threskiornis aethiopica melanocephala</i>	R
LANIDAE			
76	Large Cuckoo-shrike	<i>Coracina novaehollandiae</i>	R
77	Brown Shrike	<i>Lanius cristatus</i>	R
CORVIDAE			
78	Northeastern Tree Pie	<i>Dendrocitta vagabunda</i>	VC
79	Indian House Crow	<i>Corvus splendens</i>	VC
80	Indian Jungle Crow	<i>Corvus macrorhynchos culminates</i>	VR
81	Indian Paradise Flycatcher	<i>Terpsiphone paradisi</i>	R
82	Indian Black Drongo	<i>Dicrurus macrocercus</i>	VC
83	Indian white-bellied Drongo	<i>Dicrurus caerulescens</i>	R
84	Black-naped Monarch	<i>Hypothymis azurea</i>	VR
85	Indian Golden Oriole	<i>Oriolus oriolus kundoo</i>	C
86	Indian Black headed Oriole	<i>Oriolus xanthornus</i>	C
87	Black headed Cuckoo-shrike	<i>Coracina melanoptera</i>	VR
88	Common lora	<i>Aegithina tiphia</i>	R
MUSCICAPIDAE			
89	Oriental Magpie Robin	<i>Copsychus saularis</i>	C
90	Indian Robin	<i>Saxicoloides fulicata</i>	C
91	Orange headed thrush	<i>Zoothera citrina</i>	VR
92	Red-throated flycatcher	<i>Ficedula parva</i>	R
STURNIDAE			
93	Indian Pied Myna	<i>Sturnus contra</i>	C
94	Common Myna	<i>Acridotheres tristis</i>	VC
95	Jungle Myna	<i>Acridotheres fuscus</i>	C

96	Brahminy Starling	<i>Sturnus pagodarum</i>	C
PYCNONOTIDAE			
97	Red whiskered Bulbul	<i>Pycnonotus jocosus</i>	R
98	Red vented Bulbul	<i>Pycnonotus cafer</i>	C
99	White-browed Bulbul	<i>Pycnonotus luteolus</i>	R
CISTICOLIDAE			
100	Plain Prinia	<i>Prinia inornata</i>	R
101	Streaked Fantail Warbler	<i>Cisticola juncidis</i>	VR
ZOSTEROPIDAE			
102	Oriental White-eye	<i>Zosterops palpebrosa</i>	R
SYLVIDAE			
103	Indian Rufous Babbler	<i>Turdoides subrufus</i>	R
104	Jungle Babbler	<i>Turdoides striatus</i>	VC
105	Puff-throated Babbler	<i>Pellorneum ruficeps</i>	R
106	Yellow Browed Warbler	<i>Phylloscopus inornatus</i>	R
107	Greenish Warbler	<i>Phylloscopus trochiloides</i>	R
108	Common Tailor Bird	<i>Orthotomus sutorius</i>	VR
ALAUDIDAE			
109	Red-winged Bush-lark	<i>Mirafraga erythroptera</i>	VR
NECTARINIDAE			
110	Purple-rumped Sunbird	<i>Nectarinia zeylonica</i>	C
111	Purple Sunbird	<i>Nectarinia asiatica</i>	VC
112	Loten's Sunbird	<i>Nectarinia lotenia</i>	R
PASSERIDAE			
113	White Wagtail	<i>Motacilla alba</i>	R
114	White-browed Wagtail	<i>Motacilla maderaspatensis</i>	R
115	Forest Wagtail	<i>Dendronanthus indicus</i>	R
116	House Sparrow	<i>Passer domesticus</i>	R
117	Paddy field Pipit	<i>Anthus rufulus</i>	C
118	Indian Baya	<i>Ploceus philippinus</i>	VR
119	Black-headed Munia	<i>Lonchura malacca</i>	R
120	Red Avadavat	<i>Amandava amandava</i>	R
HALCYONIDAE			
121	Stork-billed kingfisher	<i>Pelargopsis capensis</i>	R

REPTILES OF NANDANKANAN

Sl.no.	Common Name	Scientific Name	Status
1	Land Monitor lizard	<i>Varanus bengalensis</i>	VC
2	Indian Python	<i>Python molurus</i>	VC
3	Yellow monitor lizard	<i>Varanus flavescens</i>	R
4	Russels Viper	<i>Daboia russelli</i>	C

5	Banded krait	<i>Bungarus fasciatus</i>	R
6	Common Indian Krait	<i>Bungarus caeruleus</i>	VC
7	Indian Cobra Binocellate	<i>Naja naja naja</i>	VC
8	Cobra Monocellate	<i>Naja naja kaouthia</i>	C
9	Rat Snake	<i>Ptyas mucosus</i>	VC
10	Common Indian Broze back or tree snake	<i>Dendrelaphis tristis</i>	C
11	Checkered keel back	<i>Xenochrophis piscator</i>	R
12	Chameleon	<i>Chameleon zeylanicus</i>	C
13	Common Green Whip Snake	<i>Ahaetulla nasuta</i>	R
14	Earth Boa	<i>Eryx johnii</i>	VR
15	Garden lizard	<i>Calotes verricolor</i>	VR

STATUS

VR- Very Rare, R- Rare, VC- Very Common, C- Common