



## Sepahijala Zoological Park



Annual Report for the year 2019-2020

## **CONTENTS**

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

Sl.No	Section	Page No.
16.	Disinfection Schedule	19
17.	Health Check-up of employees for zoonotic diseases	21-23
18.	Development Works carried out in the zoo during the year	23
19.	Education and Awareness programmes during the year	24
20.	Important Events and happenings in the zoo	25
21.	Seasonal special arrangements for upkeep of animals	25-26
22.	Research Work carried out and publications	26
23.	Conservation Breeding Programme of the Zoo	27
24.	Animal acquisition / transfer / exchange during the year	28
25.	Rescue and Rehabilitation of the wild animals carried out by the zoo	28-31
26.	Annual Inventory of animals	32-35
27.	Mortality of animals.	36-37
28.	Status of the Compliance with conditions stipulated by the Central Zoo Authority	37-47
29.	List of free living wild animals within the zoo premises	47-48

#### 1. Report of the Officer-in-charge

#### **Director's Message:**

The Sepahijala Zoological Park, Tripura is an important tourist destination in Tripura state attracting lakhs of nature lovers every year. Visiting Sepahiajla Zoological Park, Tripura leaves an experience of pilgrimage in to nature in to nature. There has been a tremendous effort to maintain its serenity amidst the densely urban conglomeration. Zoo authorities always aimed at exhibition of animals in excellent natural surroundings, aimed at exhibition of animals in excellent natural surroundings, meeting their physical, behavioural and psychological needs, so that animals display their natural behaviour.

Zoo also taken up conservation breeding programs for the four species like spectacled langur, Clouded leopard, binturong and Pig tailed macaque. The project is funded by the Central Zoo Authority, MOEF &CC, New Delhi, India and we are very thankful for their contribution and constant guidance.

Education is another fields, Sepahijala Zoological Park takes up in order to create awareness on the conservation of environment, forest and wildlife. Many of our visitors are children and we believe they could be the ambassador for spreading the message of conservation across.

Our conservation endeavors are not limited within the w2alls of the zoo but also help save wild animals by taking rescue operations whenever the calls come from the public being only one zoo in entire state. The Sepahijala Zoological Park, Tripura has been playing a great role in animal rescue operation and animal health management. The disciplined zoo staffs are devoted to the animal welfare, security and thrive to provide healthy environment to the animals.

I am proud of the achievement of Sepahijala Zoological Park this past year, and it would not have been possible without a committed team of field officers, veterinarians, biologist, animal keepers and clerical staffs.

We are thankful to Central Zoo Authority, MOEF &CC, New Delhi, India, PCCF & HOF Forest department, Government of Tripura, Chief Wildlife Warden, Forest Department, Government of Tripura, Deputy, District Forest Officer, Sepahijala District for their constant support and guidance in developing Sepahijala Zoological Park.

Jaymalya Bhattacharjee, TFS

Director
Sepahijala Zoological Park

#### 2. <u>History of the Zoo:</u>

The story goes that there was a camp of "sepoy" of the then Maharaja of Tripura on the side of marshy area locally called "jala" near existing Forest Training School, Sepahijala. Thereafter, the name of this place was coined as Sepahijala. Earlier, this area was highly rich in wild flora and fauna. With the rapid expansion of population, the pressure on the forest of Sepahijala has been increased resulting gradual diminishing of forest cover. In order to protect this hot spot of biodiversity, an idea of setting up of Bio-complex was mooted and therefore Sepahijala Bio-complex came into existence in the year 1972 with setting up of a Botanical garden and a small Deer Park. The Deer Park was gradually elevated to the status of Zoo.

#### 3. Vision:

There has been worldwide cry for conservation and protection of Bio-diversity for the very existence of mankind as with the increasing pressure of population, Bio-diversity has been getting depleted day by day. The significant factor is the diminishing of wild animals with great rapidity. The habitat being shrunk rapidly their conservation has become arduous which warns to have conservation in captivity. Sepahijala Zoo is one of such effort where in more than 50 species of wild animals have been kept for conservation and protection.

#### 4. Mission:

To conserve and breed endangered & rare fauna, particularly the primates of Tripura, Clouded Leopard, Binturong for subsequently restoring the biological attributes and diversity of wildlife in the forests of Tripura in particular and India in general.

- To generate database about the behaviour, breeding, population dynamics and veterinary care of the animals kept in the zoo for helping the conservation of these animals in the long run.
- To educate people about the faunal richness of the state & the country, for their support for conservation of biodiversity in the state and the country.
- To develop Eco-tourism potential for the people of the state.
- Wildlife education and interpretation for the purpose of communicating conservation values to the visiting public for better understanding and appreciation of wildlife and its role in the ecosystem.
- Captive breeding for the purpose of display and exchange with other zoos and rehabilitation of endangered and threatened species.
- Scientific study and Research on animal behaviour, nutrition, reproduction disease etc.
- Recreation for the purpose of providing wholesome, healthy and educational activity to a large number of people by utilizing the natural setting without detriment to any of the preceding objectives.

## 5. Objective:

The Zoo in the initial stage started to provide recreation to the people of the state and accordingly it started its journey in the shape of mini deer park in the year 1972 and gradually the objective kept on changing as per the National Zoo Rule and also as per guideline of Central Zoo Authority and now the main objective of the Zoo is (1) Conservation (2) Education (3) Research & Recreation.

## 6. About us

S.No.	Particulars	Information			
	Basic Information about the Zoo				
1	Name of the Zoo	Sepahijala Zoological Park			
2	Year of Establishment	1972 as Deer park			
3	Address of the Zoo	Sepahijala Zoological Park Bishalgarh, Sepahijala District, Tripura, Pin- 799102			
4	State	Tripura			
5	Telephone No.	Nil			
6	Fax Number	Nil			
7	E-mail address	Directorsepahijalazoo@gmail.com			
8	Website	www.tripuraforest.co.in			
9	Distance from nearest	Airport: 29km			
		Railway station: 8km from Bishalgarh murapara			
		Bus Stand:			
10	Recognition valid up to (date)	22 <sup>nd</sup> March,2019			

S.No.	Particulars	Information
11	Category of Zoo	Medium Zoo
12	Area (in Hectares)	68.0
13 14	Number of Visitors(Financial year 2017-18)	Adult:172945
	Visitors" facilities available in Zoo	Children: 14394
		Total Foreigners:
		Total Visitors: 164247
		Canteen, Drinking water tank, Rest shed ,Wheel chair, Sitting benches etc
15	Weekly Closure Day of the Zoo	Friday
Manage	ement Personnel of the zoo	
16	Name with designation of the Officer in-charge	Shri Jaymalya Bhattacharjee, TFS, Assistantant Conservator of Forests, Govt. of Tripura
	Name of the Veterinary Officer	Dr.Swarupmay Majumdar, Veterinary Officer.
	Name of the Curator	Shri Zinda Debbarma, Range Officer, Tripura Forest Department
	Name of the Biologist	Nil
		Sri Chiranjib Debnath for Conservation Breeding Centre of Sepahijala Zoo(2019-20) funded by CZA
	Name of the Education Officer	Nil
	Name of the Compounder/ Lab Assistant	Nil
Owner	Operator of the Zoo	
17	*Name of the Operator	Chief Wildlife Warden, Forest Department, Govt. of Tripura
18	Address of the Operator	Chief Wildlife warden Aranya Bhawan,Pandit Nehru Complex, Gorkhabasti,P.O-Kunjaban

S.No.	Particulars	Information	
		Agartala, Tripura-799006	
19	Contact details/Phone number of Operator	0381-2323779	
20	E-mail address of Operator	chiefwildlife@gmail.com/Pccftripura@gmail.com	

<sup>\*</sup> Rule 2(m) of the Recognition of Zoo Rules, 2009.

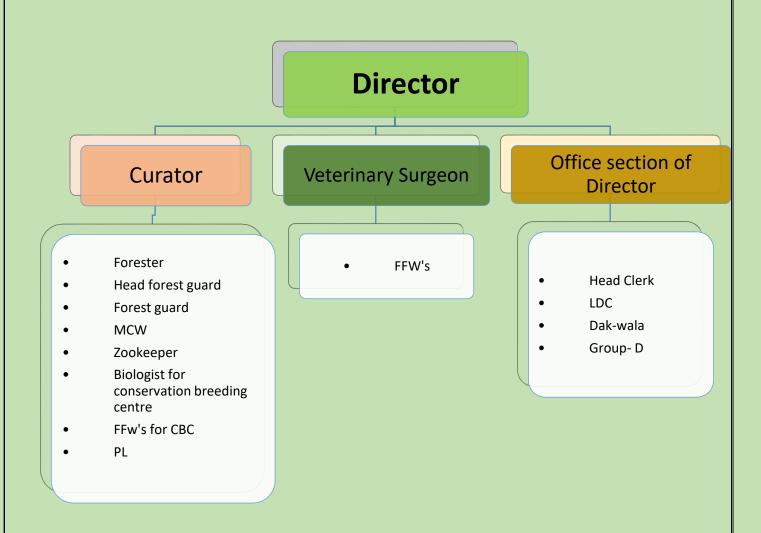
"Zoo Operator" means the person who has ultimate control over the affairs of the zoos provided that\_\_\_\_\_

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\*

SL NO.	Category of Post	Total No. Of person working	No. of posts Vacant	Remarks
1	Director ( Rank of DCF)	1(ACF)	0	DCF Post
2	Veterinary Surgeon	1	1	
3	Curator	1	0	ACF Post
4	Forest Ranger	0	1	
5	Forester	3	5	
	Head Forest Guard	2	2	
6	Forest Guard	2	3	
7	Veterinary Asstt.Surgeon	1	1	
8	Veterinary Assistant	0	3	
9	Pathologist	0	1	
10	X-ray technician	0	1	
11	Education Officer	0	1	
12	Education Assistant	0	1	
13	Biologist	0	2	
14	Zoo head keeper	0	1	
15	Zoo Keeper/Forest Farm Worker	61	38	
16	Attendant	0	11	
15	Security Personnel	0	15	
18	Ticket Booking Clerk	0	3	
19	Mason	0	1	
20	Carpenter	0	1	
21	Welder	0	1	
22	Electrician	0	1	
23	Pump operator	0	2	
24	Sweeper	0	22	
25	Permanent Labour	13	0	
26	Head Clerk	1	0	
27	UDC	0	0	
28	LDC	5	0	
29	Driver	1	0	
30	Dakwala	1	0	
31	MCW	2	0	
32	CCACC	0	0	
Grand	l Total	100	113	

<sup>\*</sup>Please give abovementioned information in respect of all zoo personnel, from the Officer incharge up to the Animal Keeper.

#### 9. Capacity Building of zoo personnel

Sl.No.	Name and designation	Subject	Period of	Name of the
	of the zoo personnel	matter of	Training	Institution where
		Training		the Training
				attended
1	Bharat Chandra Shil,	Zoo keepers	03.02.2020 to	Guwahati Zoo,
	FFW, Sepahijala Zoo	training	08.02.2020	Assam
		program		
2	Raju Das, PL,	Zoo keepers	03.02.2020 to	Guwahati Zoo,
	Sepahijala Zoo	training	08.02.2020	Assam
		program		

## 10. Zoo Advisory Committee -

- a. Date of constitution- NIL
- b. Members- NIL
- c. Dates on which Meetings held during the year- NIL

### 11. Health Advisory Committee- a.

- **a. Date of constitution-** 3<sup>rd</sup> May, 2018 (New Committee of HAC constituted after abolishing old Committee.
- b. Members-
  - 1. HOD, Teaching Veterinary Clinical Complex.
  - 2. HOD, Surgery.
  - 3. HOD, Medicine.
  - 4. HOD, Animal reproduction and Gynaecology.
  - 5. HOD, Animal Nutrition.
  - 6. HOD, Pathology.
- c. Dates on which Meetings held during the year:

## Health advisory Committee meeting hold on 28/02/2020 at Sepahijala Zoo Library, Sepahijala Zoological Park: List of participants:

i. The Head of the Deptt. TVC C, Vety. College, R.K. Nagar	- Member			
ii. The Head of the Deptt. Vety. Surgery, Vety. College, R.K. Nagar	- Member			
iii. The Head of the Deptt. Vety, Medicine, Vety, College, R.K. Nagar	- Member			
iv. The Head of the Deptt. ARG, Very. College, R.K. Nagar	- Member			
v. The Head of the Deptt. Animal Nutrition, Vety, College, R.K. Nagar	- Member			
vi. The Head of the Deptt. Vety, Pathology, Vety. College, R.K. Nagar	- Member			
vii. The District Forest Officer, Sepahijala - Spl Invitee				
vii. The Superintendent of Vety. Hospital. Bishalgarh	- Spl Invitee			
ix. The In charge, V. D Charilam	- Spl Invitee			
x. Dr. Arurava Sarkar, VO, VD, Bishramganj	- Spl Invitee			
xi. Shri, Chiranjib Debnath, Biologist(CBC), Sepahijala Zoological Park	- Spl Invitee			
xii. Dr. Swarupmay Majumdar, I/c. Zoo Hospital, Sepahijala Zoo	- M.S			
xiii. Shri Zinda Debbarma, Curator, Sepahijala Zoological Park	- Member			

## Health advisory Committee meeting hold on 18/12/2018 at Sepahijala Zoo Library, Sepahijala Zoological Park: List of participants:

i. The Head of the Deptt. Very, Medicine, Vety, College, R.K. Nagar - Member ii. Dr. Sabyasacji Bhattachargee, - Member iii. Dr. Kanika Kalai - Member iv. Dr. Rajib Das, - Member v. Shri V. Darlong, Curator, Sepahijala Zoological Park - Spl Invitee vi. Shri, Chiranjib Debnath, Biologist(CBC), Sepahijala Zoological Park - Spl Invitee vii. Dr. Swarupmay Majumdar, I/c, FVH, Sepahijala Zoological Park - M.S viii. Shri A. K. Sen, Director, Sepahijala Zoological Park - Chairman

### 12. Statement of income and expenditure of the Zoo:

SL No.	Financial Year	Total Income( Rs. in Lakhs)	Remarks
1	2019-2020	3129950	Deposited
			to state
			Treasury

## Total fund received and expenditure:

Sl. No.	Scheme	Amount Received (Rs. in lakhs)	Expenditure (Rs. In lakhs)	Balance fund (Rs. In lakhs)	Remarks
1	State Plan- Ration	250.00	250.00	0.00	Animal Feeds for Zoo Animals
2	State Plan- MW	9.20	9.20	0.00	Development Activities
3	S/Plan Scheme-1	3.40	3.40	0.00	OE, P. Oil, SS & Mat, TE etc
4	CAMPA	29.82	29.82	0.00	Fencing & Others
5	CZA fund	6.63	6.63	0.00	For Procurement of Veterinary Equipments
6	CZA fund	28.96	27.76	1.20	Salary of Biologist & Zoo Keepers & others for CBC works
7	CZA fund	125.34	125.34	0.00	Construction of enclosures
8	CSS-PE	1.72	1.22	0.50	Rescue Team, P. Oil etc.
Gran	d Total	455.068	453.638	1.70	

## 13. Daily feed Schedule of animals:

Feed formulation for Compound Ration of Emu as per guidelines of IVRI & CZA

Sl. No.	Ingredients	Quantity Percentage
1	Wheat Grain	20%
2	Wheat Bran	12%
3	Yellow Maize	30%
4	Ground Nut Cake (G.N.C)	25%
5	Rice Bran	10%
6	Mineral Mixture	2%
7	Common salt	1%
8	Total	100%

# Feed formulation for Compound Ration of **Spotted deer, Sambar, Barking Deer, Hog deer, Black Buck, Hippopotamus, Elephant, Rhinoceros** as per guidelines of IVRI & CZA

Sl. No.	Ingredients	Quantity Percentage
	Wheat Grain	19%
2	Wheat Bran	14%
3	Yellow Maize	25%
4	Ground Nut Cake (G.N.C)	14%
5	Mustered Oil Cake (M.O.C)	10%
6	Rice Bran	15%
7	Mineral Mixture	2%
8	Common Iodized Salt	1%
9	Total	100%

## Feeding Schedule of Sepahijala Zoo Animal's as per guidelines of IVRI & CZA

Sl.	Species	Feed Items with quantity/day/individual	Day of
No.			fasting
1	Himalayan Black Bear	Chapa Banana- 06 Nos.	Not
	(Ursus thibetanus)	Apple- 250 gm	applicable
		Grapes- 100 gm	
		Vegetable- 01 kg	
		Gomati toned milk- 500 ml	
		Wheat flour- 01 kg	
		Boiled egg- 01 Nos.	
		Fresh dead fish- 300 gm (Wednesday)	
		Green leaves- 01 kg	
		Local poultry fowl- 1.125 kg (Avg.)	
		(on last Friday of each month)	

		Sugarcane- 02 kg (Dec-Feb) Honey- 500 gm (January) Jackfruit- 02 kg (June-August) Black berry- 500 gm (June-July) Sweet potato- 300 gm (Feb-Mar)	
2	Deer Barking (Kakar) (Muntiacus muntjak)	Compound Ration:- 01 Kg Black Gram:- 200 Kg Green Vegetable:- 250 Gm Green Grass:- 02 Kg	Not applicable
3	Binturong (Arctictis binturong)	Chapa Banana: - 06 Nos. Apple: - 200 Gm Grapes:- 100 Gm Green Vegetable:- 700 Gm Boiled Egg:- 01 No. (Weekly 06 days) Dressed Poultry Meat:- 200 Gm (Weekly once) Bengal Gram:- 100 Gm Local country fowl:- AVG. 850 GM (On last Friday of each month)	Not applicable
4	Black Buck (Krishna Mriga) (Antilope cervicapra)	Deer Ration:- 500 Gm Soaked Gram:- 250 Gm Green Fodder:- 02 Kg	Not applicable
5	Capped Langur (Trachypithecus pileatus)	Chapa Banana: - 08 Nos. Apple:- 100 Gm Grapes:- 100 Gm Green Vegetable (Carat, Bean etc.) :- 250 Gm Bangle Gram:- 100 Gm Bread:- 50 Gm Fodder & Leaves:-01 Kg	Not applicable
6	Clouded Leopard (Neofelis nebulosa)	Local country fowl:- Avg. 1.5 Kg (on every alternate day)	Every alternate day
7	Civet Himalayan Palm / Masked ( <i>Paguma larvata</i> )	Live local Poultry Bird:-Avg. 0.6 Kg (On last Friday of each month)	Not applicable
8	Civet Common Palm - Cat Toddy (Paradoxurus hermaphroditus)	Dressed Poultry Meat:- 300 Gm (Weekly once. (No egg on that day) Chapa Banana: - 05 Nos. (Weekly 06 days) Apple:- 50 Gm (Weekly 06 days) Boiled egg:- 01 No.(Weekly 06 days) Grapes:-100 Gm (Weekly 06 days)	Not applicable
9	Crocodile Marsh (Mugger ) (Crocodylus palustris)	She Goat Meat/Dress Poultry Meat:- 01 Kg (Meat and live fish on alternate date) Alive Fish:- 01 Kg	Not applicable
10	Eagle Fishing (Haliaeetus leucoryphus)	Fresh Dead Fish:- 0.3 Kg (03 days weekly) Dressed Poultry Meat:- 0.3 Kg (04 days	Not applicable

		weekly)	
11	Indian Elephant (Elephas maximus)	Chapa Banana: - 25 Nos. Bengal Gram:- 04 Kg Wheat Flour:- 06 Kg Weekly 03 Days Paddy/Compound Ration:-08 Kg(Weekly Once) Rice:- 06 Kg (Weekly 03 Days) Banana Plant:- 300 Kg Green Mug:- 04 Kg 12 Kg 384.3 Kg Molasses:- 500 Gm (Except December-February) Common Salt: 150 Gm Sugarcane:- 10 Kg (December-February) Green Leaves: 50 Kg Hay: 50 Kg	Not applicable
12	Emu (Dromaius novaehollandiae)	Chapa Banana: - 04 Nos. Bread:- 250 Gm Cabbage:- 100 Gm Palak Shak/Papaya:- 400 Gm Bengal Gram:- 100 Gm Compound Ration:- 600 Gm	Not applicable
13	Fishing Cat (Prionailurus viverrinus)	Live local Poultry bird: - Avg. 0.625 Kg (On last Friday of each month) Dressed poultry meat: - 01 Kg (Consecutive 02 days and 01 day gap)	1 day fasting after 2 days feeding
14	Vulture Himalayan Griffon (Gyps himalayensis)	Dress Poultry meat:- 0.5 Kg (Only Flesh)	Not applicable
15	Hippopotamus (Hippopotamus amphibius)	Compound Ration:- 10 Kg Potato:- 02 Kg ChapaBanana:- 2.5 Kg (40 Nos.) Wheat Bhusa/Paddy Bhusa/Paddy Staw:-12 Kg Sugarcane:- 12 Kg (Seasonal) Brinjal/Mixed Vegetable:- 10 Kg Cucumber:- 2.5 Kg Green grass:- 175 Kg	Not applicable
16	Hog Deer (Axis porcinus)	Compound Ration:- 500 Gm Soaked Gram:- 250 Gm Green Fodder:- 02 Kg	Not applicable
17	Hollock Gibbon (Bunopithecus hoolock)	Chapa Banana: - 10 Nos. Apple: - 150 Gm Green Vegetable (Carat, bean etc.):- 250 Gm Boiled Egg: - 02 Nos. Grapes:- 100 gm	Not applicable
18	Hornbill Indian Pied (Anthracoceros malabaricus)	Chapa Banana; - 03 Nos. Apple:- 50 Gm Grapes:- 50 Gm Boiled Rice:- 50 Gm Insect/ Earthworm/Small Prawn:- 50 Gm	Not applicable
19	Peafowl (Pavo cristatus)	Paddy:-50 Gm Wheat: - 50 Gm Chapa Banana: - 02 Nos.	Not applicable

		Apple:- 200 Gm Bangle Gram:- 50 Gm Mustard Seed:- 20 Gm Dry Fish Meal:- 20 Gm Rice:- 50 Gm	
20	Jackal (Canis aureus)	Grapes:- 100 Gm  Live local Poultry Bird:- Avg. 0.875 Kg (On last Friday of each month)  Beef:- 01 Kg (80% Flesh & 20% Bone) She Goat meat:- 01 Kg	1 day fasting after 2 days feeding
21	Jungle Cat (Felis chaus)	Live local Poultry bird:- Avg. 0.625 Kg (On last Friday of each month) Dressed poultry meat:- 0.5 Kg (Consecutive 02 days and 01 day gap)	1 day fasting after 2 days feeding
22	Leopard Cat (Prionailurus bengalensis)	Live local Poultry Bird:- Avg. 0.6 Kg (On last Friday of each month) Dressed Poultry Meat:- 0.4 Kg (Consecutive 02 days and 01 day gap)	1 day fasting after 2 days feeding
23	Leopard ( Panther) (Panthera pardus)	Live local Poultry Bird:- Avg. 1.125 Kg (On last Friday of each month) Beef:- 03 Kg (90 % Flesh & 10 % Bone Weekly 06 days)	Friday of week
24	Lion Indian (Panthera leo persica)	Live Local Bird: - Avg. 1.375 Kg (Only on last Friday of each month) Beef: -09 Kg (90% flesh & 10 % bone, Weekly 06 days)	Friday of week
25	Rhesus Macaque (Macaca mulatta)	Chapa Banana: - 06 Nos. Apple:- 100 Gm Grapes:- 100 Gm Vegetable (Carat, Bean etc.):- 250 Gm Bengal Gram:- 100 Gm Bread:- 50 Gm	Not Applicable
26	Monitor Water Lizard (Varanus salvator)	Bread. 30 Gin	Not Applicable
27	Monitor Lizard / Common Indian (Varanus bengalensis)	Poultry Meat 150 Gm	Not Applicable
28	Owl Brown Fish (Ketupa zeylonensis eschena)	Fish Medium Size:- 150 Gm Dressed Poultry Meat:- 150 Gm	Not Applicable
29	Pelican Rosy / White (Pelecanus onocrotalus)	Big Fish (Size 200-500 gm of each) Preferably Mrigal and Raghu:- 01 Kg	Not Applicable
30	Macaque Pig Tailed (Macaca leonina)  Heron Pond (Ardeola grayii)	Chapa Banana: - 7 Nos.  Apple:- 100 gm Grapes:- 50 Gm Green Vegetable (Carat, Bean):-250 Gm Bangle Gram:- 100 Gm Bread:- 50 Gm Fodder & Leaves:- 01 Kg  Small Fish & Prawn @ 70% and Snail and	Not Applicable
31	Heron Fond (Araeota grayti)	Sman rish & riawh @ 70% and Shan and	Not

		Molasses @ 30%:- 200 Gm	Applicable
32	Porcupine Indian (Hystrix indica)	Chapa Banana:- 05 Nos. Apple:- 100 Gm Green Vegetable:- 150 Gm Bengal Gram:- 100 Gm Arum Root:-100 Gm (Seasonal)	Not Applicable
33	Python Indian -Rock (Python molurus)	Live local Poultry bird:- 01 No. of 01 Kg	Not Applicable
34	Fowl Jungle Red (Gallus gallus)	Paddy:- 100 Gm Wheat:- 50 Gm Dry Fish Meal:- 10 Gm Mustard Seed:- 20 Gm Rice:- 50 Gm	Not Applicable
35	Deer Sambar (Rusa unicolor)	Compound Ration:- 01 Kg Soaked Bengal Gram:- 500 Gm Green Vegetable:- 800 Gm Green Fodder:- 07 Kg Fodder & Leaves:-01 Kg	Not Applicable
36	Loris Slow (Nycticebus bengalensis)	Chapa Banana: - 02 Nos. Apple: - 50 Gm Egg:- 02 Nos. Grapes:- 50 Gm	Not Applicable
37	Monkey Spectacled Leaf (Trachypithecus phayrei)	Chapa Banana 7 Nos. Apple 100 Gm Grapes 100 Gm Vegetable 250 Gm Bangle Gram 100 Gm Bread 50 Gm	Not Applicable
38	Spotted Deer (Axis axis)	Compound Ration:- 01 Kg Black Gram:- 200 Gm Green Grass:- 05 Kg	Not Applicable
39	Stork Adjutant (lesser) (Leptoptilos javanicus)	Medium size Fish @ 50-100 Gm each) 500 Gm	Not Applicable
40	Tortoise elongated (Indotestuda elongata)		Not Applicable
41	Turtle Fresh Water/ Indian Soft-shelled/Indian Flap shell Turtle (Lissemys punctata punctata)	Chapa Banana: - 01 No. Rice:- 25 Gm Chopped Vegetable:- 50 Gm	Not Applicable
42	Turtle Peacock marked Soft-shelled (Nilssonia hurum)	Dressed poultry meat:- 500 gm	Not Applicable
43	Black Soft-shell Turtle (Nilssonia nigricans)		Not Applicable
44	Turtle Spotted Black/Pond (Geoclemys hamiltonii)		Not Applicable
45	Turtle Indian Roofed (Pangshura tecta)		Not Applicable

46	Vulture White Backed – Bengal (Gyps bengalensis)	Dressed poultry meat:- 500 gm	Not Applicable
47	Teal Lesser Whistling (Dendrocygn javanica)	Small fish & Prawn @ 70% and 30% & Snail and Molasses @70% & 30%:- 200 Gm	Not Applicable
48	Ibis White (Threskiornis melanocephalus)	Small fish & Prawn @ 70% and 30% & Snail and Molasses @ 70% & 30%:- 200 Gm	Not Applicable
49	Serow (Capricornis sumatraensis)	Compound Ration:- 01 Kg Black Gram:- 200 Gm Green Grass:- 05 Kg	Not Applicable
50	Eagle Crested Serpent (Spilornis cheela)	Dressed poultry meat:- 500 gm	Not Applicable
51	Eagle Fishing ( <i>Haliaeetus</i> leucoryphus)		
52	Common Langur (Semnopithecus entellus)	Chapa Banana: )8 nos. Apple:-100gm, Bengal gram:- 100gm. Grapes:- 100gm, Vegetables:- 250gm, Green Leaves:- 1kg.	Not Applicable
53	Silver Pheasant (Lophura nycthemera)	Paddy: - 50 Gm Wheat:- 50 Gm. Chapa Banana:- 01 nos. Apple:- 50 Gm. Boiled Egg:- 01 nos. Dry fish meal:- 10 Gm.	Not Applicable
54	Tiger Bengal (Panthera tigris)	Beef (90% Flesh & 10% Bone):- 6.5 Kg (Weekly 06 days) Poultry Meat :-2.5 Kg Live local Poultry bird:- 01 No 1.75 Kg (On last Friday of each month)	Friday of each week

## 14. Vaccination Schedule of animals

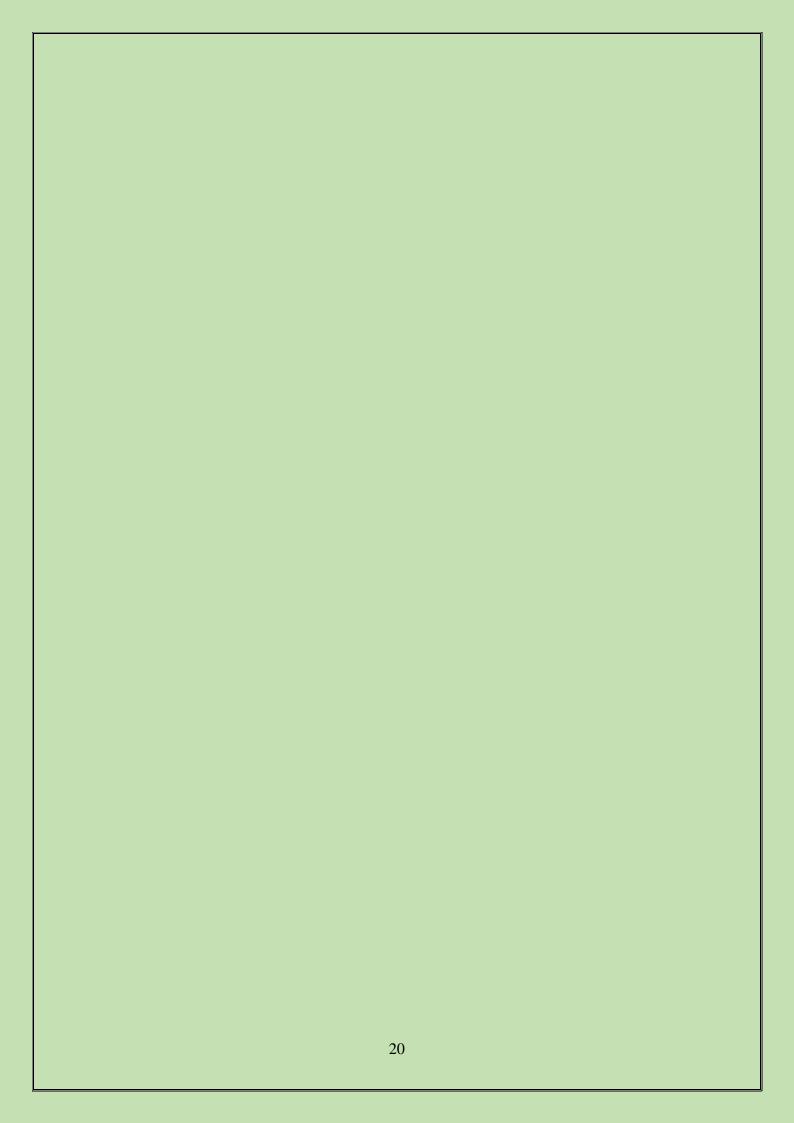
Sl.No.	Species	Disease	Name of the	Periodicity	Remarks
		vaccinated for	Vaccine and		
			dosage/		
			quantity used		
1	All Lesser cats	Feline	Feligen	Once in a	
		panleucopenia	CRT,	year	
		Feline rhinotracheitis	1 dose/animal, SC/IM		
		Feline calcivirus			

## 15. De-worming Schedule of animals

Sl.No.	Species	Drug used	Month
1	All Zoo	Albendazole	Once in 3 months (Feb-May-Aug-
	animals	Fenbendazole	Nov)
		Ivermectine	
		Piperazine	
		Praziquantel	
		Pyrental pamoate	

## 16. Disinfection Schedule

Sl.No.	Species	Type of	Disinfectant used and method	Frequency of
		enclosure		disinfection
1	All Zoo	All	1% potassium Permanganet solution	Daily
	animals	enclosure	as foot bath dip at Zoo entrance and	
			at enclosure entrance to reduce entry	
			of germs on daily basis is practiced.	
			All the utensils, water pots etc are	Weekly
			cleaned in a solution of 1%	
			Khorsolin Th ® on weekly basis.	
			0.5% Khorsolin Th solution (250ml	Monthly
			Khorsolin in 50 liter water) used as a	
			house spray once a month.	
			All the water storage are cleaned once in 15 days	Fortnightly
			Application of quicklime with	Once in 3
			Bleaching powder on pavements is	months
			carried out once in 3 months.	
			Pits specially for depositing the waste material, fecal material, food etc are	Frequently
			made at specific areas and are in use,	



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

Sl No	Name	DESIGNATION	DATE	FINDINGS OF
				HEALTH CHECKUP
1	Akbar Khan	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
2	Jogesh Debbarma	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
3	Dulal Das	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
4	Dijendra Marak	Zoo Keepe	28/09/2018	Negative for Zoonotic Disease
5	Pradip Bhowmik	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
6	Kohilya Marak	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
7	Abdul Hasem	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
8	Nimai Debnath	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
9	Krishna Chandra Shil	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
10	Nibash Marak	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
11	Nripendra Bhowmik	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
12	Akash Mia	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
13	Abdul Hakim	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
14	Abu Taher	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
15	Parimal Deb	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
16	Bidhu marak	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
17	Kshudeja Begam	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
18	Rajesh Deb	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
19	Ayub Nabi	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
20	Tajul Islam	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
21	Gita Sukladas	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
22	Manik Saha	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
23	Abdul Rashid	Zoo Keeper	28/09/2018	Negative for Zoonotic

				Disease
24	Sishu Khan	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
25	Hajera Begam	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
26	Meena Deb	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
27	Saidul Islam	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
28	Samshu Mia	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
29	Tulsi Deb	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
30	Sishu Mia	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
31	Humayun Kabir	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
32	Tajul Islam	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
33	Abul Husain	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
34	Jakir Husain	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
35	Akmat Ali	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
36	Ali Ashraf	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
37	Bharat Chandra Shil	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
38	Nitya Kumar Deb	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
39	Satya Ranjan Das	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
40	Farid Khan	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
41	Sadhan Deb	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
42	Debendra Das	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
43	Abdul Harej	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
44	Manoranjan Mallick	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
45	Abu Mia	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
46	Babul Debnath	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
47	Nurul Islam	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease

48	Lakhi Debnath	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
49	Faruk Mia	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
50	Nishu Deb	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
51	Pradip Das	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
52	Abdul Sattar	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
53	Chand Mia	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
54	Kajal Deb	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
55	Manik Debnath	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
56	Abdul Kader	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
58	Kishan Debbarma	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
59	Nagendra Debbarma	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
60	Anil Das	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
61	Manir Mia	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
62	Debendra Sinha	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
63	Raju Das	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
64	Thakurdan Debnath	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease
65	Jakkir Hussain.	Zoo Keeper	28/09/2018	Negative for Zoonotic Disease

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

Sl	Work	Amount (in rupees)	Funding agency
No.			
1	Segregation boundary in to the Deer park, Sepahijala Zoo.	25.74 Lakh	CAMPA

## 19. Education and Awareness programmes during the year:

Sl. No.	Date	Program	Number of participants
1	12/08/2019	Workshop on NLC	20 Nos
2	02/11/2019	Educational Tour	110 Nos
3	06/12/2019	Educational Tour	208 Nos
4	10/12/2019	Educational Tour	83 Nos
5	11/01/2020	Educational Tour	135 Nos
6	08/02/2020	Participation in hornbill festival	435 Nos









**Photos of Zoo Education & Awareness Programs** 

#### 20. Important Events and happenings:

#### 21. Seasonal special arrangements for upkeep of animals:

The following winter and summer arrangements are made in Sepahijala Zoological Park during the year.

#### **Winter Arrangments**

#### Birds Enclosure:

Agro net and clean gunny bag are hanged around the wire mesh from outside especially during the month of November to February First Week during night ime.

Bamboo pole in horizontal placing are also provided for the bird enclosure.

#### Bear Enclosures:

Paddy Straw are provided inside the enclosure and night shelter areas to keep themwarm Supplementary diet like natural honey are provided during the winter season.

#### Crocodile enclosure:-

In order to ensure proper sunlight to the animals and provide ideal day time basking shady tree branches are pruned and fresh sand bed is prepared within the enclosure.

All the moated enclosures are cleaned and any stagnant water, silt accumulated are removed to keep the area dry and clean. The moat is also treated with lime.

## **Summer Arrangements**

All carnivores' enclosures are provided with running water round the clock.

Shed are provided above the water tank to keep the water cool and clean specially in crocodile and monitor lizard enclosure.

Temporary shed are provided in primates and herbivore enclosures to protect from intense heat and rainfall during summer season.

#### Herbivore Enclosure:

Water tank are provided with running water facilities and temporary shed are made in all the enclosure housing hervibore animals.

Seasonal local fruits rich in mineral and vitamin are supplied to the animals specially during summer season.

During the out break of COVID-19 precautionary measure were undertaken to maintain proper Hygiene. Bleaching Powder, Lime were regularly laid on the footpath, Khorsolin were also regularly sprayed in all enclosures housing carnivores animal. Every morning the keepers were subjected to intense monitoring regarding their health before getting into work. Temperatures recording of keepers were done by thermal Screening machine on daily basis before entering the Zoo premises. Hand wash, double layer face Musk, hand gloves,hand

sanitizer were provided to all the keepers and employees of Sepahijala Zoological Park. Health awareness camps were also organized Keeping in view with the Containment of COVID-19.

## 22. Research Work carried out and publications:

Sl	Area	Status
no.		
1	Study on CBC specimens	Will be completed on 30/06/2020

## Successful breeding of Indian Flap-shell turtle at Sepahijala Zoo:



#### 23. Conservation Breeding Programme of the Zoo-

Central Zoo Authority, Govt. Of India identified Sepahijala Zoological Park as Coordinating Zoo for taking up Conservation Breeding Programme in respect of four Species-

- 1. Spectacle Langur (Trachypithecus phayrei)
- 2. Clouded Leopard (Neofelis nebulosa)
- 3. Binturong (Archtictis binturong)
- 4. Pig-tailed Macaque (Macaca leonine)

The CZA has provided towards construction of CB enclosures one for Clouded leopard (Rs.13.37) Two for Binturong (Rs.23.19) one for spectacle langur (Rs. 13.71 lakhs),one for Pig tailed macaque (Rs.13.71) and project house (Rs.5.27) with total financial involvement of Rs.69.30 lakhs and the construction has been completed during 2008-09. The CZA Team evaluated Conservation Breeding Project at Sepahijala Zoo 30<sup>th</sup> January,2011 and also visited by CZA representative to CB enclosures by Shri B.S. Bonal, IFS, Member Secretary, CZA & Dr. P.C. Tyagi, IFS, WII, Dehradun on 10<sup>th</sup> & 11<sup>th</sup> June,2014. The last visit from the representative of CZA to the CBC enclosures was by Dr. D.N. Singh, Member Secretary, CZA on 15<sup>th</sup>,March,2018.

Status of Animals at Conservation Breeding Centre during the year 2017-18

SL	Category	Male	Femal	Uns	Total
No.			e	ex	
1	Clouded Leopard	4	3	0	7
2	Spectacled Langur	2	4	11	17
3	Pig tailed Macaque	4	6	8	18
4	Binturong	1	1	0	2









## 24. Animal acquisition / transfer / exchange during the year

A.	Animals arriv	ring in the Zoo			
	H.NO.	Species	Number (M:F)	From	Date of arrival
				which Zoo	in the zoo
	Nil	Nil	Nil	Nil	Nil
B.	Animals goin	g from the zoo			
	H.NO.	Species	Number (M:F)	Going to	Date of
				which Zoo	deposition
					from the zoo
	Nil	Nil	Nil	Nil	Nil

## 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:	Received from	Date of Submission of Report to the CWLW / CZA	Action	taken
		F:U:T)			Date and Place of rehabilitation in their habitat	Reasons for housing in the zoo, if not released in their habitat
1	16.04.19	Leopard Cat, Juvenile, 1 Nos.	Bishalgarh, Sepahijala, Tripura		Died on 20.04.19	
2	21.04.19	Barking deer, Male, 1 Nos.	Sepahijala Wildlife Sanctuary		Died on 23.04.19	
3	13.05.19	Slow loris, Unsex, 1 Nos.	Charilam, Sepahijala, Tripura		Released to Zoo enclosure number 32 on	

				13.06.19	
4	17.05.19	Barking	Charilam,	Died on	
		deer,	Sepahijala,	17.05.19	
		Female, 1	Tripura		
		nos.			
5	21.05.19	Spotted	Hollycross	Released to	
		deer,	school,	deer	
		Male, 1	Agartala,	enclosure of	
		nos.	Tripura	Sepahijala	
				Zoo on	
				21.6.19	
6	25.05.19	Barking	Sepahijala	Died on	
		deer,	Wildlife	25.05.19	
		Female, 1	Sanctuary		
	12.06.10	nos.	G 1	D 1	
7	13.06.19	Indian	Sadar,	Released to	
		Soft shell	Tripura	Amritsagar on 20.06.19	
		turtle,		on 20.06.19	
		Unsex, 3			
8	25.07.19	nos, Barking	Bagma,	Died on	
0	23.07.17	deer,	Sepahijala,	08.08.19	
		Male, 1	Tripura	00.00.17	
		nos.	Tiipuiu		
9	26.07.2019	Pit viper	Slow loris	Released at	
		•	enclosure,	Sepahijala	
			Sepahijala	Wildlife	
			Zoo	Sanctuary on	
				26.07.2019	
10	30.07.2020	Burmese	Sepahijala	Released at	
		python	Zoo	Sepahijala	
				Wildlife	
				Sanctuary on	
				30.07.2019	
11	25.08.19	Turtle,	Sadar,	Released to	
		Unsex, 3	Tripura	Amritsagar	
10	10.00.10	nos	G 1	on 28.08.19	
12	10.09.19	Hill	Sadar,	Died on	
		Mayna,	Tripura	21.10.19	
		Unsex, 3			
12	01 10 10	nos	Codor	Diador	
13	01.10.19	Leopard	Sadar,	Died on	
		cat,	Tripura	07.10.19,	

		Unsex, 3		10.10.19 &	
		nos.		21.10.19	
14	21.10.19	Eagle,	Sadar,	21110115	Due to
	21.10.19	Unsex, 1	Tripura		injury is not
		nos.	Impuru		able to walk
		nos.			or fly
					properly
					and remains
					in zoo
					hospital.
15	05.11.19	Turtle,	Sadar,	Released to	позриш.
	03.11.17	Unsex, 39	Tripura	deer park	
		nos.	Tiipura	lake on	
		1105.		05.11.19	
16	19.11.19	Palm	Pecharthal,	Released to	
10	17.11.17	Civet,	North	zoo enclosure	
		Unsex, 1	Tripura,	on 19.12.19	
		nos.	Tripura, Tripura.	011 17.12.17	
17	22.11.19	Leopard	Udaipur,	Died on	
17	22.11.19	cat,	Gomti,	30.11.19	
		Unsex,	Tripura.	30.11.19	
		Male,	Tripura.		
18	30.12.19	Barking	Sepahijala	Died on	
10	30.12.17	deer,	Wildlife	30.12.19	
		Female, 1	Sanctuary	30.12.17	
		nos	as accident		
		1105	case		
19	26.01.2020	Leopard	Laxmitilla,	Died on	
17	20.01.2020	cat, Male,	Tripura	05.02.2020	
		1 nos.	Tiputu	03.02.2020	
20	03.02.20	Elongated Elongated	Damchera,	Released to	
20	03.02.20	tortoise,	North	Sepahijala	
		Unsex, 1	Tripura,	Wildlife	
		nos.	Tripura,	Sanctuary on	
		1105.	Tipulu	03.02.20	
21	14.02.20	Jackal,	Sadar,	Released to	
		Unsex, 1	Tripura	zoo enclosure	
		nos		on 08.05.20	
22	29.02.20	Flap shell		Released to	
		turtle,		Amritsagar	
		Unsex, 2		on 29.02.20	
		nos.			
23	13.03.20	Barking	Sepahijala	Died on	

deer,	Wildlife	13.03.20 due	
Male, 1	Sanctuary	to injury	
nos.			





**Rescued Burmese Python** 

**Rescued Pit Viper** 

## **26.** Annual Inventory of animals

Form – II

[See Rule 11(1)]

Part - A

Inventory Report for the Year: 2018-19

## Endangered Species\*

ē	Ni	N. S. Harris S.	Op	Opening stock as on	tock 8	18 On		7	3			17.		-		-	4	0.5	غ ا	4		Closing Balance as on	g Balaı	ice as	0.00
<u> </u>	Animai Name	Scientific Name	ij.	01.0	01.04.2018			BIFTE	SI	•	Acquisition	ISILI	u <sub>0</sub>	-17	dsır	Disposai			Dearn	=		3	31.03.2019	61	
N0.	Bird		M	F	n	I	M	Į.	n I	T	M F	n	I	W	F	n	L	M	H	n	T ]	M	F	n	L
1	Oriental Pied Hornbill	Anthracoceros albirostris	2	2	0	4	0	0	0	0 0	0 (	0	0	0	0	0	0	_	0	0	0	2	2	0	4
2	White-rumped vulture	Gyps bengalensis	3	0	0	3	0	0	0	0 0	0 (	0	0	0	0	0	0	0	0	0	0	3	0	0	3
3	Himalayan Griffon Vulture	Gyps himalayansis	1	1	0	2	0	0	0	0 0	0 (	0	0	0	0	0	0	0	0	0	0	1	1	0	2
4	Indian Peafowl	Pavo cristatus	2	0	0	2	0	0	0	0 0	0 (	0	0	0	0	0	0	0	0	0	0	2	0	0	2
		Total of birds	8	3	0	11	0	0	0	0 0	0 (	0	0	0	0	0	0	1	0	0	0	8	3	0	11
SI. No.	Mammals		M	F	U	T	M	124	n 1	T	M F	n	I	W	F	U	T	M	[ <del>T</del> ]	n		M	F	n	T
1	Asian Black Bear	Ursus thibetanus	11	01	0	21	0	0	) 0	0 0	0 (	0	0	0	0	0	0	2	_	0	0	6	6	0	18
7	Binturong	Arctictis binturong	3	1	0	4	0	0	0	0 0	0 (	0	0	0	0	0	0	0	0	0	0	3	1	0	4
3	Jungle Cat	Felis chaus	0	1	0	Ι	0	0	0	0 0	0 (	0	0	0	0	0	0	0	0	0	0	0	1	0	_
4	Leopard Cat	Prionailurus bengalensis	3	9	9	18	0	0	0 (	0 0	0 (	0	0	0	0	0	0	_	0	0	0	3	9	6	17
9		Paradoxurus hermaphroditus	2	1	0	3	0	0	0	0 0	0 (	0	0	0	0	0	0	2	0	0	0	0		0	-
9	Western Hoolock Gibbon	Hoolock hoolock	0	I	0	1	0	0	0	0 0	0 (	0	0	0	0	0	0	0	0	0	0	0	1	0	_
7	Capped Langur	Trachypithecus pileatus	3	2	0	5	0	0	0	0 0	0 (	0	0	0	0	0	0	_	0	0	1	3	2	0	4
8	Spectacled Langur	Trachypithecus phayrei	4	10	9	23	0	0	0	0 0	0 (	0	0	0	0	0	0	2	2	0	4	2	8	6	61
6	Common Leopard	Panthera pardus	1	1	0	2	0	0	0	0 0	0 (	0	0	0	0	0	0	_	0	0	0	0	1	0	_
10	Clouded Leopard	Neofelis nebulosa	9	4	0	10	0	0	0	0 0	0 (	0	0	0	0	0	0	0	0	0	0	. 9	4	0	10
11	Northern pig-tailed macaque	Macaca leonina	5	8	10	23	0	0	0	0 0	0 (	0	0	0	0	0	0	0	0	0	0	2	8	10	23
12	Asiatic Lion	Panthera leo persica	2	2	0	4	0	0	0 (	0 0	0 (	0	0	0	0	0	0	_	0	0	0	2	2	0	4
13	Golden Jackal	Canis aureus	0	1	2	3	0	0	0	0 0	0 (	0	0	0	0	0	0	0	0	0	0	0		2	3
14	Common Langur	Semnopithecus entellus	1	0	0	-	0	0	0	0 0	0 (	0	0	0	0	0	0	0	0	0	0	1	0	0	I
15	Rhesus Macaque	Macaca mulatta	3	3	0	9	0	0	0	0 0	0 (	0	0	0	0	0	0	0	0	0	0	3	3	0	9
16	Black Buck	Antilope cervicapra	-	3	2	9	0	0	0	3 0	0 (	0	0	0	0	0	0	0	_	1	0	1		5	7

17	Fishing Cat	Prionailurus viverrinus	2	4	3	6	0	0	<u>-</u>	0	0	0	0	0	0	0	0	_	0	0	_	9200	4	4		
18	Bengal Slow Loris	Nycticebus bengalensis	4	1	0	5	0	0	0	0 0	0	0	0	0	0	0	0	0	-	0	-	4	0	0	4	
19	Masked Palm civet	Paguma larvata	0	1	0	1	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	_	
20	Red Serow	Capricornis rubidus	1	0	0	I	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0		0	0	_	
21	Crab Eating Mongoose	Herpestes urva	0	0	1	I	0	0	0	0 0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
22	Hog Deer	Axis porcinus	0	1	0	1	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
		Total Mammals	25	61	36	149	0	0	) 0	0 0	1	-	2	0	0	0	0	7	7	0	1 4	43 :	55 3	39	135	
SI. No.	Reptiles/ Amphibians		M	F	n	Т	M	<u>F</u>	u 1	T M	I F	n	T	M	H	n	T	M	H	U ]	T	M	F I	n	Т	
-	Marsh crocodile	Crocodylus palustris	2	0	0	2	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	
7	Burmese python	Python bivittatus	1	2	0	3	0	0	0 0	0 (	0	0	0	0	0	0	0	-1	0	0	1	0	2 (	0	2	
3	Water Monitor Lizard	Varanus salvata	0	1	0	1	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	_	
4	Monitor Lizard/Common Indian Lizard	Varanus bengalensis	1	0	0	1	0	0	0 0	0 0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
v.	Indian flap shell turtle	Lissemys punctata	5	4	0	6	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	5	4	0	6	
9	Peacock soft shell turtle	Nilssonia hurum	2	3	0	5	0	0	0 0	0 (	0	0	0	0	0	0	0	0	0	0	0	2	3 (	0	5	
7	Spotted pond turtle	Geoclemys hamiltonii	1	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
8	Indian roofed turtle	Pangshura tecta	1	1	0	2	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0	0	0	1	)   1	0	2	
	Total of R	Total of Reptiles/ Amphibians	13	11	0	23	0	0	0	0 0	0	0	0	0	0	0	0	2	0	0	2 1	12	11	0	23	
	Invertebrate		M	F	n	T	M	H	n 1	T M	I F	n	T	M	H	n	I	M	H	U 1	T	M	F	n	T	
		Total Invertebrate																								
		Total Animals	81	77	35	193	0	0	0	0 0	1	-	0	0	0	0	0	∞	3	0	1 7	73	74 3	36	183	
	Curator 2. Debbarma  Sepanijala Zoological Park	abbarma szological Park																	Ö j	Director	irector Bhattacharje	oe-2	Director  (J. Bhattacharjee, TFS)	-		

(J. Bhattacharjee, TFS) Director Sepahijala Zoological Park

 $\label{eq:Part-B} Part-B$  Other than Endangered Species

			O	Onening stock as on	o doc	000									3.0	4					Clo	Closing Ralance as	ne a	000
SI.N	Animal Name	Scientific Name	1	01.04.2018	018			Births	ıs	¥	Acquisition	isiti	u <sub>0</sub>	-	Disposal	sal		D	Death	_		31.03.2019	010	100
0.	Bird		M	Ŧ	Ω	T	M	F	U T	M	[ F	n	Ι	M	F	n	T	M F	F D	JT	M .	F	n	T
1	Red Jungle Fowl	Gallus gallus	1	5	0	9	0	0	0 0	0	0	0	0	0	0	0	0	0 0	0 (	0 (	1	5	0	9
2	Grey-headed Fish Eagle	Ichthyophaga ichthyaetus	1	0	0	1	0	0	0 0	0	0	0	0	0	0	0	0	0 0	0 0	0 (	1	0	0	1
3	Spotted Dove	Spilopelia chinensis	1	0	0	1	0	0	0 0	0	0	0	0	0	0	0	) 0	0 0	0 (	0 (	1	0	0	1
4	Pond Heron	Ardeola sp.	1	Ι	0	2	0	0	0 0	0	0	0	0	0	0	0	) 0	0 0	0 (	0 (	-	ı	0	2
5	Indian White Ibis	Threskiornis melanocephalus	0	I	0	I	0	0	0 0	0	0	0	0	0	0	0	0	0 0	0 (	0 (	0	_	0	-
9	Rosy Pelican	Pelecanus onocrotalus	2	1	0	3	0	0	0 0	0	0	0	0	0	0	0	0	0 0	0 0	0 (	2	1	0	3
7	Lesser Adjutant Stork	Leptoptilos javanicus	1	1	0	2	0	0	0 0	0	0	0	0	0	0	0	0	0 0	0 0	0 (	1	1	0	2
∞	Lesser Whistling Teal	Dendrocygna javanica	1	-	0	2	0	0	0 0	0	0	0	0	0	0	0	0	0 0	0 0	0	-	1	0	2
6	Brown Fish Owl	Ketupa zeylonensis	1	1	0	2	0	0	0 0	0	0	0	0	0	0	0	0	0 0	0 0	0 (	-	-	0	2
10	Creasted Serpent Eagle	Spilornis cheela	2	1	0	3	0	0	0 0	0	0	0	0	0	0	0	0	0 0	0	0	2	1	0	3
Ξ	Emu	Dromaius novaehollandiae	1	1	0	2	0	0	0 0	0	0	0	0	0	0	0	0	0 0	0 (	0 (	1	I	0	2
12	Silver Pheasant	Lophura nycthemera	1	1	0	2	0	0	0 0	0	0	0	0	0	0	0	0	0 1	0 (	0 (	1	I	0	2
		Total of birds	13	14	0	27	0	0	0 0	0	0	0	0	0	0	0 (	0 (	0 0	0 (	0 (	18	17	0	27
SI.N o.	Mammals		M	দ	Ω	T	M	<u> </u>	U	M	H	n	I	M	F	n	T	M		U	M	H	n	I
_	Barking Deer	Muntiacus muntjak	4	1	0	5	0	0	0 0	0	0	0	0	0	0	0	0	0 0	0	5	2	1	0	3
2	Spotted Deer	Axis Axis	132	9/1	0	308	0	0	0 0	0	0	9	0	0	0	0	7 0	4 1	0 1	1	128	175	9	309
3	Indian Porcupine	Hystrix indica	2	2	0	4	0	0	0 0	0	0	0	0	-	0	0	1	0 0	0 (	0 (	1	2	0	3
5	Sambar	Rusa unicolor	3	1	0	4	0	0	0 0	0	0	0	0	0	0	0	0 (	0 0	0 (	0 (	3	I	0	4
9	Hippopotamus	Hippopotamous amphibius	1	1	0	2	0	0	0 0	0	0	0	0	0	0	0	0	2 0	0 (	) 2	1	I	0	2
		Total Mammals	142	181	0	323	0	0	0 0	0	1	-	2	1	0	0	1 4	4 4	0	1	135	180	0	321
SI.N	Reptiles/ Amphibians	ians	M	Ā	n	I	M	F	UT	M	F	n	I	M	F	n	T	M F	100	UT	M .	F	n	I

0.																			(a)	4.) <del></del>			0	
1	Elongated Tortoise	Indotestudo elongata	2	I	0	3	0	0	0	0	0	0 0	0	0	0	0	0	2	0	0	2 0	1	0	1
	Total of	Total of Reptiles/ Amphibians	2	1	0	3	0	0	0	0	0	0 0	0		0 0	0	0	2	0	0	2 0	1	0	-
NS	SN Invertebrate		M	F	n	T	M	F	n	T 1	M 1	F U	I	M	F	n	T	M	F	n	T M	F	n	I
1				92					Q: 80	8 8												0 0		
		Total Invertebrate																				- 3		
		Total Animals 159 198	159	198	0	351	0	0	0	0 0	0	1 1 2 1 0	2	1	0	0	0 1 6	9	0	0	6 153	200	0	351

A) 05-05-2026.
Director

(J. Bhattacharjee, TFS) Director Sepahijata Zoological Park

Curator Z. Debbarma
Sepanijala Zoological Park

## 27. Mortality of animals

Sl.No.	Animal Name	Scientific Name	Sex &	Date of	Reason of Death
B1.1 (0.	(with	Selentific Traine	tentative age	Death	as per the Post-
	individual				mortem report
	identification				
	mark, if any)				
1	Common	Paradoxurus	Male, 15	04-4-19	Multiple organ
	Palm Civet	hermaphrodites	years		failure
2	Silver	Lophura	Female,	13-4-19	Enteritis &
	Pheasant	nycthemera	Adult		dehydration
2				15 4 10	shock
3	Spotted Deer	Axis axis	Male,6 yers	15-4-19	Infighting
4	Leopard Cat	Prionailurus	Female, 6	15-5-19	Septicaemia
	Ecopuru cut	bengalensis	years		Берисиенни
5	Fishing Cat	Prionailurus	Male, 5 years	24-5-19	Renal failure
	Fishing Cat	viverrinus	iviale, 5 years		Reliai failule
6	Spectacled	Trachypithecus	Female, 24	25-5-19	Volvulus &
	langur	phayrei	years		gastroenteritis
7	Spectacled	Trachypithecus	Female, 11	23-6-19	II . C1 . 1
	langur	phayrei	years		Heat Shock
8	Spectacled	Trachypithecus	Female, 20	29-6-19	
	langur	phayrei	years		Heat Shock
9	Bengal Slow	Nycticebus	Female, 21	29-7-19	Cardiac
	loris	bengalensis	years	_,,	tamponade
10		Rusa unicolor	Male, 11	20-9-19	-
10	Sambar deer	Rusa unicolor	years	20 7 17	Infighting
11	Spotted Deer	Axis axis	Male, 5 years	20-9-19	Infighting
12	Burmese	Python bivittatus		21-9-19	Hepatitis &
12	Python	- 1 y	Male, Adult		gastroenteritis
13	· ·	Antilope cervicapra	Female, 2		Fibrinous
	Black Buck		years		peritonitis
14	Silver	Lophura	Male, 11	26-9-19	Septicaemia
	Pheasant	nycthemera	years		Sepucaenna
15	Common	Panthera pardus	Male, 13	18-11-	Renal failure
	Leopard		years	19	
16		Antilope cervicapra	Female, 6	7-12-19	Hepatitis &
	Black Buck		months		Renal
17		Dai441		07.12	insufficiency
17	Parakeet	Psittacula sp	Unsexed, Adult	07-12- 19	Nephrotis
18		Antilope cervicapra		11-12-	Multiple organ
10	Black Buck	Timope cervicupia	Male, Adult	11-12-	failure
19	Common	Paradoxurus		17-12-	
	Palm Civet	hermaphrodites	Male, Adult	19	Infighting
20		Rusa unicolor		08-01-	
20	Sambar deer	Tasa unicolor	Male, Adult	20	Infighting

21	Small Indian Civet	Viverricula indica	Male, Adult	14-01- 20	Multiple organ failure
22	<b>Spotted Deer</b>	Axis axis	Male, Adult	17-01-20	Infighting
23	Capped Langur	Trachypithecus pileatus	Male,Adult	21-01-20	Hepatic cirrhosis & acute pneumonia
24	Bengal Slow loris	Nycticebus bengalensis	Male,Adult	22-01-20	Septicaemia
25	<b>Spotted Deer</b>	Axis axis	Male, Adult	26-01-20	Tympanitis
26	Asiatic lion	Panthera leo	Male, Adult	19-02-19	Multiple organ failure
27	<b>Spotted Deer</b>	Axis axis	Male, Adult	05-02-20	Infighting injury
28	Sambar deer	Rusa unicolor	Male, Adult.	08-02-20	Infighting injury
29	Python	Python bivittatus	Unsex, Adult	24-02-20	Gastroenteritis
30	Spectacled langur	Trachypithecus phayrei	Female, Adult	05-03-20	Septicaemia
31	Leopard Cat	Prionailurus bengalensis	Female, Adult	08-03-20	Septicaemia

## 28. Status of the 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
	i. Generai	Requirement			
1	10.1(30	There are moated island for housing primates in the zoo. It was advice to take steps for remodeling of this primate island by dressing the inner side of the moats to make more area available in the Island. Only one side of the island should be opened to the visitors. The three sides can be camouflaged by high hedges or creating barrier so that visitors are not on all the sides cornering the animal housed in the island.	1 year		Action Taken for remodelling of primate islands. High hedges will be planted during June-July months.`
2	10.1(7)	A waste disposal plan for the zoo should be prepared. Which should include the solid waste disposal and liquid waste disposal and drainage. The disposal of the waste should be environment friendly with minimum	1 year		A Plan will be prepared in consultation with Bishalgarh Municipal

		stress on the environment		council as well as other consultants by July, 2020.
3	10.1 (8)	The lions housed in front of the leaf monkeys should be relocated	1 year	Already relocation of leaf monkey has been done in Primate Section.
4		The fence along the boundary of the zoo should be repaired and maintained regularly	Immediately and regularly	Partially maintenance done & remaining part will be done periodically under MGNREGA Scheme during 2020- 21after getting approval from DM & Collector, Sepahijala.
2	2. Administ	rative and Staffing Pattern		
5	10.2(2)	The zoo should have adequate scientific and technical staffs to support the officer-in-charge of the zoo in carryi9ng out the responsibilities of housing, upkeep and health care of zoo animals, research and visitor education by posting Education officer and Biologist.	1 year	Presently Curator is posted and 1(one) Project Biologist for CBC is being engaged & NLC staffs are being engaged for education purpose & compliance of animal data sheet.
	_	ent & Planning		
6	10.3(1)	Preparation of Zoo Master Plan	Immediately	Amendment

		and its Approval by CZA		version of master plan will be submitted within July, 2020.
7	10.3(3)	All pucca building including the visitor facilities should be planned and located in such a manner that the natural landscape of the zoo has not been masked and the cleanliness and hygiene of the zoo is not affected due to such animal enclosures/structure.	1 year	Initiatives had been taken by giving naturalistic appearance to public amenities like Visitor's shed, washrooms etc.
,	4. An <b>imal h</b>	ousing, display of animals and an	imal enclosures	
8	10.4(1)	All animals of the Zoo should be displayed in nature immersing (naturalistic) enclosures.	1 year	While Construction of new enclosures it will be taken into consideration and there is proposal to transfer caged animals in moated enclosures.
9	10.4(2)	There are many caged enclosures in the zoo. It will be appropriate to <b>construct open top enclosures</b> for all these animals like leopard, Binturong, Leaf monkey, hoolock gibbon etc moats should be created on visitor side only	1 year	Since the Zoo is within the Sanctuary and rhesus macaque are continuously entering inside the open top enclosure & taking animals feed which ultimately affects the health & management of the animal.

				However open top enclosure for clouded Leopard has been constructed.
10	10.4(2)	The porcupine enclosures should be demolished since the same does not meet CZA"s requirement.	1 year	Proposal for new enclosure is being considered.
11	10.4(2)	The Leopard Cat, Jungle cat and large Indian civet cat should be provided at least 30% of the enclosure area as Kuccha and Elevated wooden platform and wooden logs to meet the behavioural requirement of the species.		Action Taken
11	10.4(2)	Enclosures for <b>Indian pied horn</b> bill do not meet its requirement. The area of the aviary should be extended.	1 year	Action Taken
12	10.4(3)	For the safety of animals and visitors, the zoo should not allow any animal houses to be visible to the visitor. The same should be screened immediately. The houses should have appropriate locking system and locks.	1 year	Action has been taken in some enclosures with bamboo screen remaining enclosures also will be provided with the same.
13	10.4(3)	The animal houses of the CBC should be made safe and secure for the animals and animal"s keepers.	1 year	Keeper gallery was constructed as safety measure.
14	10.4(6)	All enclosures should be enriched particularly enclosures for common lizards, crocodile and turtles. Sand for basking, submerged water body and place	1 year	Some initiative has been taken in existing

		for basking should be provided. The same should be modified keeping in view the requirement of animals. To simulate the conditions, vegetation should be planted inside the enclosures. The enclosure should also be provided wooden logs as environmental enrichment.		enclosures to enrich with bamboo poles, wooden plank etc. & 11 nos. platform have been provided in enclosures of lesser cats.
15	10.4(9)	The zoo should plant hedge between standoff barrier and the paddock wall in all animal enclosures.	Immediately	Hedge plantation is being done in main section. Remaining will be completed by mid-July'20.
16	10.4(9	The zoo should provide warning signage at the animal Enclosures	Immediately	It has been provided in most of the animal enclosures.
17	10.4(9)	The grills provided on the visitor's side in the Himalayan Black bear enclosures should be removed and suitably designed stand-off barrier and adequate warning signs should be provided for keeping visitor safe distance from the animal enclosures. Similar initiatives should be taken for all other animal enclosures which have not been provided with standoff barrier.	1 year	For creation of new standoff barrier in Himalayan Black Bear enclosure proposal initiated under CAMPA Scheme.
18	10.4(10)	Creation of <b>new signage and</b> replacemement of old signage by new signage.	1 year	Old signages mostly removed and replaced with new signages. Work will be completed by June'20.
4	5. Upkeep a	nd Health Care of Animals		

19	10.5(1)	There should be footpath of adequate size with propoer disinfectant at entry and exit points of all animal houses and they should be used and maintained prpoerly	Immediately	Action taken to rectify the cracks in the footpath at entry & exit points and other animal premises and the zoo hospital is adequately supplying disinfectants for the purpose and tracking it on daily basis.
20	10.5(2)	The meat handlers entering the facility should use clean gloves and disinfected boots	Immediately	Action taken to purchase gum boots, gloves and the meat handelers are made aware about the importance of using clean gloves and disinfected boots
21	10.5(2)(3)	The zoo should have a sufficient size <b>functioning freezer</b> in the meat processing facility for storage of meat product and to keep cold until it fed to the animals.	Immediately	At Present we do not have such large freezers for meat storage. Once the new meat house is constructed, it may be installed there.
22	10.5(2)	There should be covered drainage system to prevent wastes and water from the meat preparation facility from draining onto the ground surrounding the facility to avoid	Immediately	Action Taken

		carry of pathogens around since the facility is in the protected area and the wildlife of the PA may become exposed to the waste.		
23	10.5(2)	The Food and water samples should be tested periodically for microbiological, toxicological and any other contaminants at recognized laboratory.	Immediately	Action Taken by testing the sample at laboratory of veterinary college, R.K.Nagar, Agartala. Report reflects no contamination.
24	10.5(2)(3)	The Zoo should make arrangement for recording in writing, the detailed observation of the biological behavior, population dynamics and veterinary care of the animals exhibited in the zoo. The data base may be exchanged with the other zoos as well as the Central Zoo Authority.	Immediately	Record maintained properly at zoo Hospital.
25	10.5(2)	Creation of meat house free from fly and pest free.	Immediately	At present as meat house is situated near to the kitchen and store, a new meat house is required to construct away from these two structures giving importance to being fly proof and pest free.
6. V	eterinary an	d infrastructure facilities		
26	10.6(1)	The zoo should have independent quarantine and	Immediately	Proposal for new

		isolation ward at appropriate location so that it functions independently.		quarantine & isolation ward has been initiated under CAMPA fund.
27	10.6(1)b	The zoo should have a <b>full flagged veterinary unit</b> with all basic diagnostic facilities, pharmacy, diagnostic and treatment room, comprehensive range of drugs, operation theatre and in-patient wards. At present, it is not up to the mark at all.	1 year	Proposal for up gradation of veterinary facilities including maintenance of diagnostic facilities, procurement of drugs etc will be taken up shortly.
28	10.6(1)(g)	The Zoo should have arrangement of reference laboratory support and rapid transportation of diagnostic samples to nearest veterinary institution equipped with requisite facilities.	1 year	Action taken with collaboration with veterinary hospital, R.K.Nagar, Agartala West Tripura.
29	10.6(3)	Provision for squeeze case for small and large animals should be made	1 year	Zoo already have squeeze cage for all types of animals and they are in working condition.
30	10.6(3)	Sick animals room needs proper ventilation and enrichment.	1 year	The Sick animal room or the inpatient facility may need to be constructed keeping in view for more space, better

				flooring and ventilation with proper enrichment.
31	10.6(5)	The zoo should post lab. Assistant and Compounder to assist the Veterinary officer.	1 year	Presently there is no Lab Assistant and compounder available to help the veterinary Officer & may be posted on deputation. Proposal in this regard has already been initiated to the Director, ARDD
7. A	 .cquisition a	nd breeding of animals		
32	10.9(4)	The Zoo should acquire mates for single animals (Spotted dove, Fishing eagle, Peafowl, White backed vulture, Himalayan palm civet, Hog deer, Hollock gibbon, Carb eating mongoose, serow, Bengal Tiger, Common monitor lizard, Water monitor lizard, Black spotted turtle etc) on priority basis.	1 year	Action will be taken by initiating exchange of animals with other Zoos subject to availability of these animals in surplus.
33	10.9(6)	The Zoo should prepare Conservation Breeding Plan for the Species taken up under conseravation breeding programme.		Under preparation by Project Biologist.
34	10.9(8)	With a view to prevent inbreeding and the loss of heterozygosity the zoo should maintain the animal history cards  Identification marks for management, transfer or exchange		Maintained in Zoo Hospital, a sample of animal history book is also enclosed herewith.

		animals with other zoos.	
35	10.9(9)	The Zoo should limit the number of animals of each species within the limits set by the prposed animal collection plan	Segregation fencing in spotted deer will be constructed this year to limit the number of spotted deer inside the Zoo.
8. R	esearch Activ	rities	
36	10(10)	The zoo should implement a research plan and conduct research works on different aspects of captive wild animals for effective management.	This aspect is looking after by Project Biologist of CBC. Successful breeding of Indian flapshell turtle in turtle enclosure at reptile section has been done under his technical supervision.
9. E	ducation an	d outreach activities	
37	10(10)	The Zoo should have appropriate signage and interpretation facilities, Souvenir shops etc for carrying out conservation education, outreach and awareness programs	Presently Conservation education, outreach and awareness programme are being looked after by Project Biologist of CBC and NLC staff.

10. V	Visitor facilit	ies	10. Visitor facilities			
38	10.12(1)	The Zoo should have adequate civic facilities for visitors at appropriate and convenient places in the Zoo including physically disadvantaged persons.		r is in eket for		
39	10.12(3)	The Zoo should make arrangements for providing access to the physically challenged persons for viewing wild animals at animal enclosures and at the civic facilities.	Zoo Tic Counter physically challenged persons. Th are ra provided wherever	iat ket for		

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

Sl. No.	A. Mammals	B. Birds	C. Reptiles
1	Leopard cat	Jungle fowl	Monocle Cobra
2	Small Indian civet	Wood pecker	Rat Snake
3	Wild cat	Indian roller	Burmese python
4	Large Indian Civet	Green barbet	Red tailed pit viper
5	Wild Boar	Spotted dove	Monitor lizard
6	Porcupine	Bulbul	Banded Krait
7	Mongoose	Drongo	Copper headed trinket snake
8	Palm civet	Oriental pied Hornbill	Common wolf snake
9	Spectacled langur	Parakeet	Ornamental flying snake
10	Capped langur	Tailor birds	Striped keelback
11	Slow loris	Jacana	Bronze back tree snake
12	Pig tailed macaque	Golden Oriole	Red necked keelback
13	Rhesus macaque	Little Cormorant	
14	Barking deer	Grey Heron	
15		Little Egret	
16		Common teal	

17	Common Buzzard	
18	Lawping	
19	Greater Couckoo	
20	Jungle Owlet	
21	White Throated kingfisher	
22	Barbet	

## Gimps of some renovation work carried out during this year at zoo:







