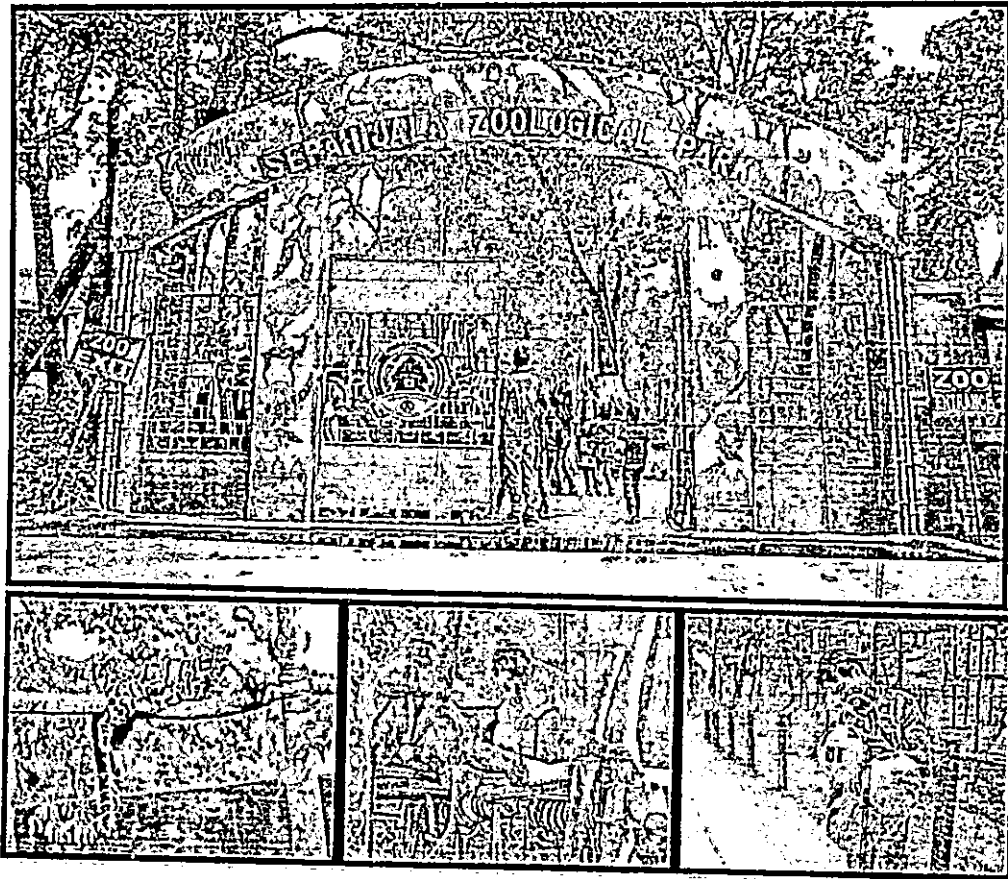
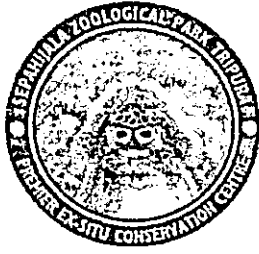


Central Zoo Authority  
केन्द्रीय चिड़ियाघर प्राधिकरण

## *Sepakijala Zoological Park*

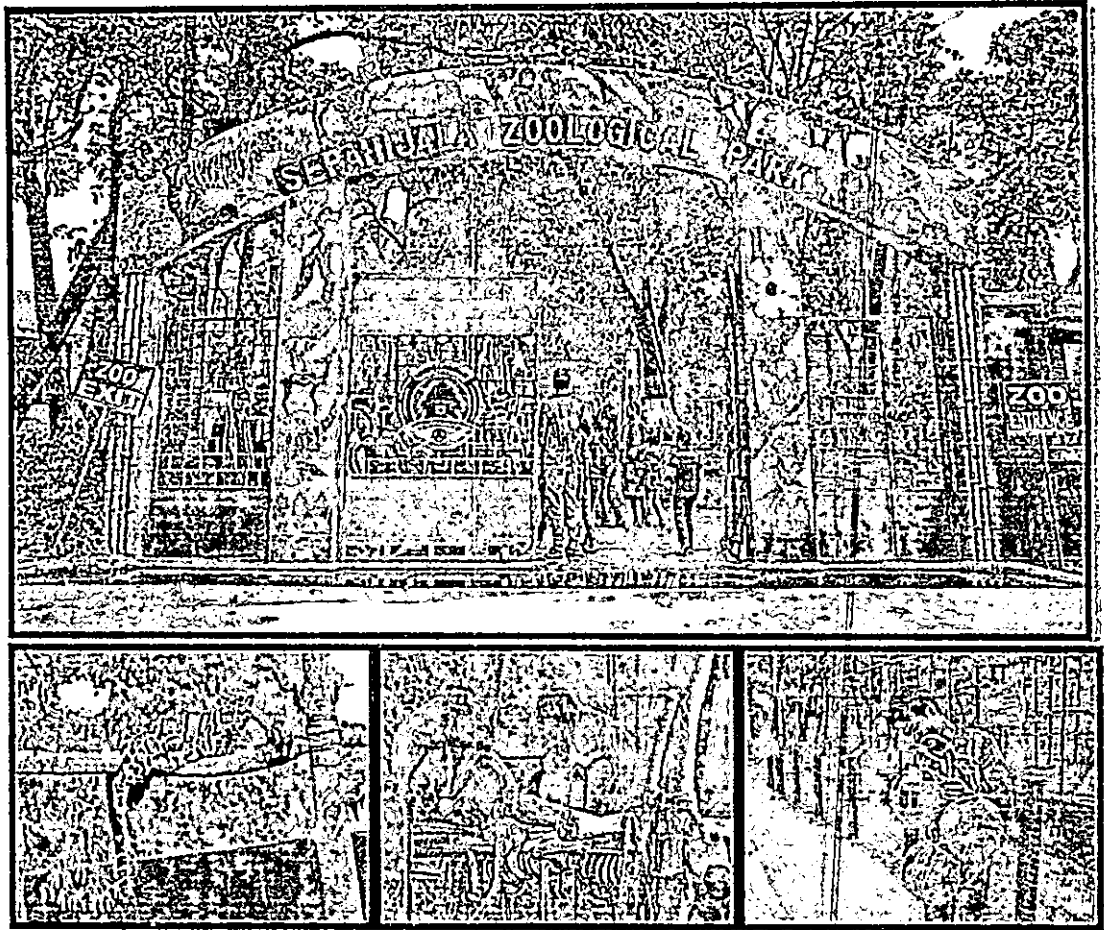


Annual Report for the year  
2020-2021



Central Zoo Authority  
केन्द्रीय चिड़ियाघर प्राधिकरण

## *Sepakijala Zoological Park*



Annual Report for the year  
2020-2021

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

### Director's Message:

The Sepahijala Zoological Park is probably the only Zoo in the country, which is situated in a sanctuary (Sepahijala Wildlife Sanctuary). It came into existence initially (in 1972) in the form of one mini deer park with six pair of spotted deers from Alipore Zoo, Kolkata and was developed slowly over the years by introduction of more animals as well as constructing animal housing for Ex-situ conservation & creation of awareness among the masses particularly the school children on the values of wildlife & necessity to conserve it.

It is also an important tourist destination in Tripura state attracting lakhs of nature lovers every year. 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.

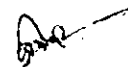
Zoo also taken up conservation breeding programs for the four species like spectacled langur, Clouded leopard, binturong and Pig tailed macaque. The project is funded by the Central Zoo Authority, MOEF &CC, New Delhi, India and we are very thankful for their contribution and constant guidance.

As far as, Sepahijala Zoological Park is concern, it is not only reproducing the endangered species so as to increase their population but also to generate empathy & awareness among the masses through mobile zoo education and zoo outreach programs. The Sepahijala Zoo tries to meet the curiosity of asking visitors & the foremost amongst them are legible, well designed labels put in front the animal enclosures. School students visiting zoos as a part of educational trips with prior intimation the management, are attended by the zoo officials and who explain the modern objective of zoo management to them.

Our conservation endeavors are not limited within the walls 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 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 despite of this covid-19 pandemic situation, 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.



**Biplab Datta, TFS  
Director  
Sepahijala Zoological Park**

2. History of the Zoo:

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  |
|--|--------------------------------|--|
| <b>Basic Information about the Zoo</b> |                                |  |
| 1                                      | Name of the Zoo                | Sepahijala Zoological Park   |
| 2                                      | Year of Establishment          | 1972 as Deer park  |
| 3                                      | Address of the Zoo             | Sepahijala Zoological Park<br>Bishalgarh, Sepahijala District, Tripura, Pin-<br>799102 |
| 4                                      | State                          | Tripura  |
| 5                                      | Telephone No.                  | Nil  |
| 6                                      | Fax Number                     | Nil  |
| 7                                      | E-mail address                 | <a href="mailto:directorsepahijalazoo@gmail.com">directorsepahijalazoo@gmail.com</a>   |
| 8                                      | Website                        | <a href="http://www.tripuraforest.co.in">www.tripuraforest.co.in</a>                   |
| 9                                      | Distance from nearest          | Airport: 29 km   |
|  |                                | Railway station: 8km from Bishalgarh murapara  |
|  |                                | Bus Stand:   |
| 10                                     | Recognition valid up to (date) | 21 <sup>st</sup> August, 2021  |
| 11                                     | Category of Zoo                | Medium Zoo   |
| 12                                     | Area (in Hectares)             | 68.00  |

| S.No.                                  | Particulars   | Information  |
|--|---|--|
| 13<br>14                               | Number of Visitors(Financial year 2020-21)<br>Visitors' facilities available in Zoo | Adult: 61416<br>Children: 17530<br>Total Foreigners : 22<br>Total Visitors: 78968 Nos.<br>Canteen, Drinking water tank, Rest shed , Wheel chair, Sitting benches, Battery operated vehicle, By-cycle for visitors, Baby care room, Visitor waiting room, Dustbins, Lavatories, Childrens corner, etc |
| 15                                     | Weekly Closure Day of the Zoo   | Friday   |
| <b>Management Personnel of the zoo</b> |   |  |
| 16                                     | Name with designation of the Officer in-charge                                      | Shri Biplab Datta, TFS, Assistant Conservator of Forests, Govt. of Tripura   |
|  | Name of the Veterinary Officer  | Dr. Keshab Debnath, Veterinary Officer.  |
|  | Name of the Curator   | Shri Satyabrata Mukherjee, Range Officer, Tripura<br>Forest Department   |
|  | Name of the Biologist   | Nil<br>Sri Chiranjib Debnath for Conservation Breeding Centre of Sepahijala, funded by CZA.  |
|  | Name of the Education Officer   | Nil  |
|  | Name of the Compounder/ Lab Assistant   | Nil  |
| <b>Owner / Operator of the Zoo</b>     |   |  |
| 17                                     | *Name of the Operator   | Sri Rameshwar Das, IFS, PCCF & Chief Wildlife Warden, Forest Department, Govt. of Tripura  |
| 18                                     | Address of the Operator   | Chief Wildlife Warden<br>Aranya Bhawan, Pandit Nehru Complex,<br>Gorkhabasti, P.O-Kunjaban<br>Agartala, Tripura-799006   |



| S.No. | Particulars                              | Information                                   |
|-------|--|---|
| 19    | Contact details/Phone number of Operator | 0381-2325616                                  |
| 20    | E-mail address of Operator               | chiefwildlife@gmail.com/Pccftripura@gmail.com |

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

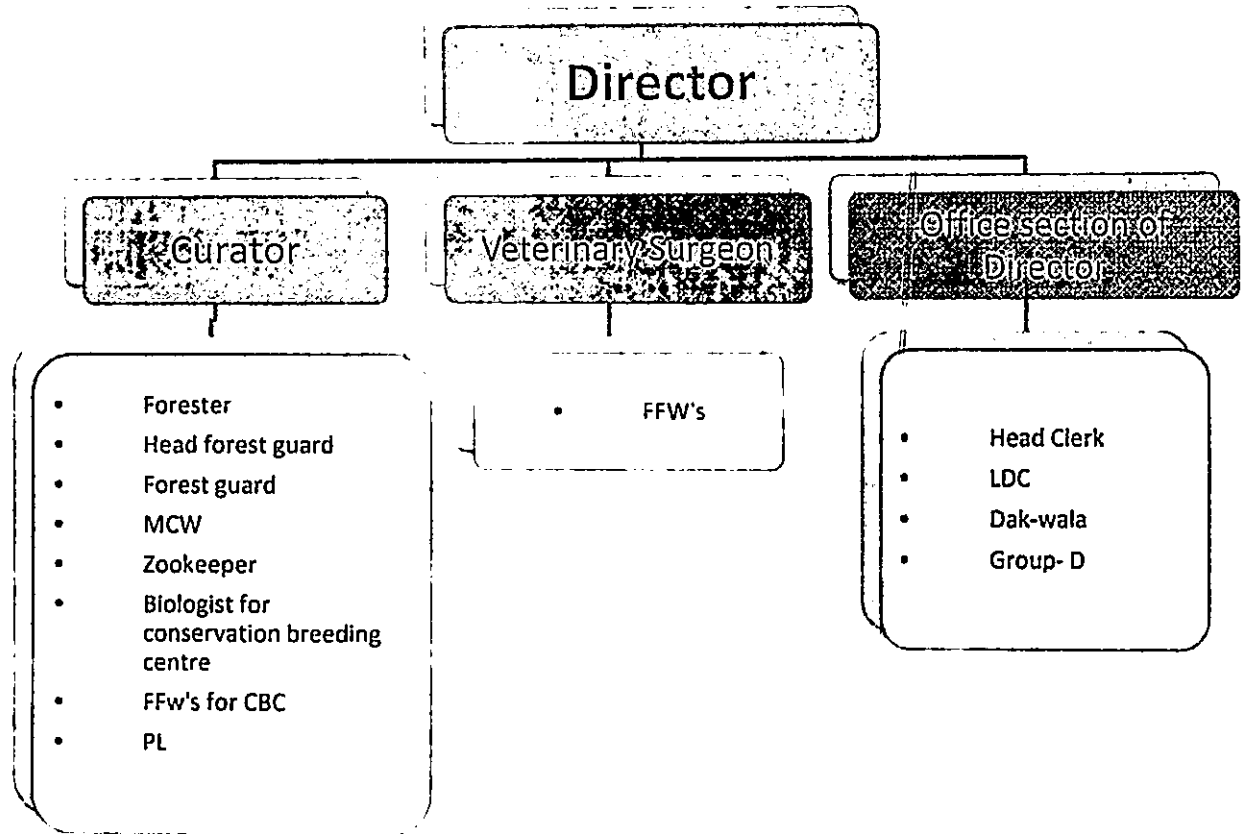
*"Zoo Operator" means the person who has ultimate control over the affairs of the zoos provided that \_\_\_\_\_*

*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                           | 0                   | DCF Post |
| 2      | Veterinary Surgeon            | 1                           | 1                   |          |
| 3      | Curator                       | 1                           | 0                   | ACF Post |
| 4      | Forest Ranger                 | 0                           | 1                   |          |
| 5      | Forester                      | 2                           | 4                   |          |
|        | Head Forest Guard             | 0                           | 4                   |          |
| 6      | Forest Guard                  | 5                           | 1                   |          |
| 7      | Veterinary Assit.Surgeon      | 0                           | 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                    | 0                           | 1                   |          |
| 27     | UDC                           | 0                           | 3                   |          |
| 28     | LDC                           | 4                           | 1                   |          |
| 29     | Driver                        | 1                           | 0                   |          |
| 30     | Dakayala                      | 1                           | 0                   |          |
| 31     | MCW                           | 2                           | 0                   |          |
| 32     | CCACC                         | 0                           | 0                   |          |
|        | Grand Total                   | 92                          | 122                 |          |

\*Please give abovementioned information in respect of all zoo personnel, from the Officer in-charge up to 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 |
|--------|---|----------------------------|--------------------|---|
|        | Nil                                       | Nil                        | Nil                | Nil   |

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 22/12/2020 at Abasarika, Sepahijala Zoological Park:

List of participants:

- i. The Head of the Deptt. TVCC, Vety. College, R.K. Nagar - Member
- ii. The Head of the Deptt. ARGO, Vety. College, R.K. Nagar - Member
- iii. The Head of the Deptt. Medicine, Vety, College, R.K. Nagar - Member
- iv. The Head of the Deptt. Vety, Pathology, Vety. College, R.K. Nagar - Member
- v. The In charge, V. D Charilam - Spl Invitee
- vi. The In charge, V. H, Bishalgarh - Spl Invitee
- vii. Shri, Chiranjib Debnath, Biologist(CBC) , Sepahijala Zoological Park - Spl Invitee
- viii. Dr. Keshab Debnath, V. H. Zoo Hospital, Sepahijala Zoo - Spl Invitee
- ix. Shri S. B Mukherjee, Curator, Sepahijala Zoological Park - Member
- x. Dr. Swarupmay Majumdar, I/c. Zoo Hospital, Sepahijala Zoo - M.S
- xi. Shri Biplab Datta, Director, Sepahijala Zoological Park - Chairman



Health advisory Committee meeting hold on 30/04/2021 at Sepahijala Zoo Library, Sepahijala Zoological Park:

List of participants:

- j. Dr. Joyabrata Roy, Asstt.Prof. Biochemistry, Vety. College, R.K. Nagar - Member  
 ii. Dr. Mritunjoy Kumar, Asstt.Prof. Vety, Medicine. Vety. College, R.K. Nagar - Member  
 iii. Dr. Prasanta Das, Asstt.Prof. ARGO, Vety. College, R.K. Nagar - Member  
 iv. Dr. Tapan Das, Asstt.Prof. Animal Nutrition, Vety, College, R.K. Nagar - Member  
 v. Shri, N. B Debnath, Office of the PCCF, Tripura - Spl Invitee  
 vi. Shri, Animesh Das, District Forest Officer, Sepahijala - Spl Invitee  
 vii. Dr. Rajib Das, VO, VH. Bishalgarh - Spl Invitee  
 viii. Shri, Chiranjib Debnath, Biologist(CBC) , Sepahijala Zoological Park - Spl Invitee  
 ix. Dr. Keshab Debnath, I/c. Zoo Hospital, Sepahijala Zoo - M.S  
 xi. Shri S. B Mukherjee, Curator, Sepahijala Zoological Park - Member  
 xii. Shri, Biplab Datta. 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      | 2020-21        | 1977350.00                  | 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       | 23-Ration  | 250.00                         | 250.00                     | 0.00                        | Animal Feed up to 15th January    |
| 2       | 21 S & Mat | 2.25                           | 2.25                       | 0.00                        | Covid-19, Store articles, etc     |
| 3       | 13 OE      | 0.90                           | 0.90                       | 0.00                        | Zoo Renewal Fee                   |
| 4       | 18-Poil    | 1.20                           | 1.20                       | 0.00                        | P.Oil for vehicles                |
| 5       | 27 -MW     | 12.97                          | 12.97                      | 0.00                        | Weeding, Maintenance of enclosure |
| 6       | 28-PS      | 1.50                           | 1.50                       | 0.00                        | Management of Zoo                 |
| 7       | 29-OS      | 4.32                           | 4.32                       | 0.00                        | Outsourcing fees for Mahouts      |
| 8       | 11-TE      | 0.90                           | 0.90                       | 0.50 (Refunded)             | Travelling Expenses               |

|             |           |        |        |      |  |
|-------------|-----------|--------|--------|------|--|
| 9           | CSS-PE    | 0.50   | 0.00   | 0.00 | Ex-Gratia                              |
| 10          | Ex-Gratia | 3.04   | 3.04   | 0.00 | Ex-Gratia                              |
| 11          | 03- OT    | 0.01   | 0.01   | 0.00 | Over Time                              |
| 12          | TBB       | 9.35   | 9.35   | 0.00 | Bio Diversity fund for Zoo Development |
| 13          | CAMPA     | 3.00   | 3.00   | 0.00 | Man animal conflict                    |
| 14          | TTDCL     | 0.90   | 0.90   | 0.00 | Promoting Eco-tourism                  |
| Grand Total |           | 290.34 | 290.34 |      |  |

### 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. No. | Species  | Feed Items with quantity/day/individual   | Day of fasting      |
|---------|--|---|---------------------|
| 1       | Himalayan Black Bear<br>( <i>Ursus thibetanus</i> )          | Chapa Banana- 06 Nos.<br>Apple- 250 gm<br>Grapes- 100 gm<br>Vegetable- 01 kg<br>Gomati toned milk- 500 ml<br>Wheat flour- 01 kg<br>Boiled egg- 01 Nos.<br>Fresh dead fish- 300 gm (Wednesday)<br>Green leaves- 01 kg<br>Local poultry fowl- 1.125 kg (Avg.)<br>(on last Friday of each month)<br>Sugarcane- 02 kg (Dec-Feb)<br>Honey- 500 gm (January)<br>Jackfruit- 02 kg (June-August)<br>Black berry- 500 gm (June-July)<br>Sweet potato- 300 gm (Feb-Mar) | Not applicable      |
| 2       | Deer Barking (Kakar)<br>( <i>Muntiacus muntjak</i> )         | Compound Ration:- 01 Kg<br>Black Gram:- 200 Kg<br>Green Vegetable:- 250 Gm<br>Green Grass:- 02 Kg   | Not applicable      |
| 3       | Binturong<br>( <i>Arctictis binturong</i> )                  | Chapa Banana: - 06 Nos.<br>Apple: - 200 Gm<br>Grapes:- 100 Gm<br>Green Vegetable:- 700 Gm<br>Boiled Egg:- 01 No. (Weekly 06 days)<br>Dressed Poultry Meat:- 200 Gm ( Weekly once)<br>Bengal Gram:- 100 Gm<br>Local country fowl:- AVG. 850 GM (On last Friday of each month)  | Not applicable      |
| 4       | Black Buck (Krishna Mriga)<br>( <i>Antelope cervicapra</i> ) | Deer Ration:- 500 Gm<br>Soaked Gram:- 250 Gm<br>Green Fodder:- 02 Kg  | Not applicable      |
| 5       | Capped Langur<br>( <i>Trachypithecus pileatus</i> )          | Chapa Banana: - 08 Nos.<br>Apple:- 100 Gm<br>Grapes:- 100 Gm<br>Green Vegetable (Carat. Bean etc.) :- 250 Gm<br>Bangle Gram:- 100 Gm<br>Bread:- 50 Gm<br>Fodder & Leaves:-01 Kg   | Not applicable      |
| 6       | Clouded Leopard<br>( <i>Neofelis nebulosa</i> )              | 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<br>Toddy ( <i>Paradoxurus<br/>hermaphroditus</i> ) | Dressed Poultry Meat:- 300 Gm (Weekly<br>once. (No egg on that day)<br>Chapa Banana: - 05 Nos. (Weekly 06 days)<br>Apple:- 50 Gm (Weekly 06 days)<br>Boiled egg:- 01 No.(Weekly 06 days)<br>Grapes:- 100 Gm (Weekly 06 days)  | Not<br>applicable                           |
| 9  | Crocodile Marsh (Mugger )<br>( <i>Crocodylus palustris</i> )               | She Goat Meat/Dress Poultry Meat:- 01 Kg<br>(Meat and live fish on alternate date)<br>Alive Fish:- 01 Kg  | Not<br>applicable                           |
| 10 | Eagle Fishing ( <i>Haliaeetus<br/>leucoryphus</i> )                        | Fresh Dead Fish:- 0.3 Kg (03 days weekly)<br>Dressed Poultry Meat:- 0.3 Kg (04 days<br>weekly)  | Not<br>applicable                           |
| 11 | Indian Elephant<br>( <i>Elephas maximus</i> )                              | Chapa Banana: - 25 Nos.<br>Bengal Gram:- 04 Kg<br>Wheat Flour:- 06 Kg Weekly 03 Days<br>Paddy/Compound Ration:-08 Kg(Weekly<br>Once)<br>Rice:- 06 Kg (Weekly 03 Days)<br>Banana Plant:- 300 Kg<br>Green Mug:- 04 Kg 12 Kg 384.3 Kg<br>Molasses:- 500 Gm (Except December-<br>February)<br>Common Salt: 150 Gm<br>Sugarcane:- 10 Kg (December-February)<br>Green Leaves: 50 Kg<br>Hay: 50 Kg | Not<br>applicable                           |
| 12 | Emu<br>( <i>Dromaius novaehollandiae</i> )                                 | Chapa Banana: - 04 Nos.<br>Bread:- 250 Gm<br>Cabbage:- 100 Gm<br>Palak Shak/Papaya:- 400 Gm<br>Bengal Gram:- 100 Gm<br>Compound Ration:- 600 Gm   | Not<br>applicable                           |
| 13 | Fishing Cat ( <i>Prionailurus<br/>viverrinus</i> )                         | Live local Poultry bird :- Avg. 0.625 Kg (On<br>last Friday of each month)<br>Dressed poultry meat:- 01 Kg (Consecutive 02<br>days and 01 day<br>gap)   | 1 day<br>fasting after<br>2 days<br>feeding |
| 14 | Vulture Himalayan Griffon<br>( <i>Gyps himalayensis</i> )                  | Dress Poultry meat:- 0.5 Kg (Only Flesh)  | Not<br>applicable                           |
| 15 | Hippopotamus<br>( <i>Hippopotamus amphibius</i> )                          | Compound Ration:- 10 Kg<br>Potato:- 02 Kg<br>ChapaBanana:- 2.5 Kg (40 Nos )<br>Wheat Bhusa/Paddy Bhusa/Paddy Staw:-12<br>Kg<br>Sugarcane:- 12 Kg (Seasonal)<br>Brinjal Mixed Vegetable:- 10 Kg<br>Cucumber:- 2.5 Kg<br>Green grass:- 175 Kg   | Not<br>applicable                           |
| 16 | Hog Deer ( <i>Axis porcinus</i> )  | Compound Ration:- 500 Gm<br>Soaked Gram:- 250 Gm<br>Green Fodder:- 02 Kg  | Not<br>applicable                           |
| 17 | Hollock Gibbon<br>( <i>Bunopithecus hoolock</i> )                          | Chapa Banana: - 10 Nos.<br>Apple: - 150 Gm  | Not<br>applicable                           |

|    |  |  |                                    |
|----|--|--|------------------------------------|
|    |  | Green Vegetable (Carat, bean etc.): - 250 Gm<br>Boiled Egg: - 02 Nos.<br>Grapes:- 100 gm   |                                    |
| 18 | Hornbill Indian Pied<br>( <i>Anthracoceros malabaricus</i> )     | Chapa Banana; - 03 Nos.<br>Apple:- 50 Gm<br>Grapes:- 50 Gm<br>Boiled Rice:- 50 Gm<br>Insect/ Earthworm/Small Prawn:- 50 Gm   | Not applicable                     |
| 19 | Peafowl<br>( <i>Pavo cristatus</i> )                             | Paddy:-50 Gm<br>Wheat: - 50 Gm<br>Chapa Banana: - 02 Nos.<br>Apple:- 200 Gm<br>Bangle Gram:- 50 Gm<br>Mustard Seed:- 20 Gm<br>Dry Fish Meal:- 20 Gm<br>Rice:- 50 Gm<br>Grapes:- 100 Gm | Not applicable                     |
| 20 | Jackal<br>( <i>Canis aureus</i> )                                | Live local Poultry Bird:- Avg. 0.875 Kg (On last Friday of each month)<br>Beef:- 01 Kg (80% Flesh & 20% Bone)<br>She Goat meat:- 01 Kg   | 1 day fasting after 2 days feeding |
| 21 | Jungle Cat ( <i>Felis chaus</i> )                                | Live local Poultry bird:- Avg. 0.625 Kg (On last Friday of each month)<br>Dressed poultry meat:- 0.5 Kg (Consecutive 02 days and 01 day gap)   | 1 day fasting after 2 days feeding |
| 22 | Leopard Cat<br>( <i>Prionailurus bengalensis</i> )               | Live local Poultry Bird:- Avg. 0.6 Kg (On last Friday of each month)<br>Dressed Poultry Meat:- 0.4 Kg (Consecutive 02 days and 01 day gap)   | 1 day fasting after 2 days feeding |
| 23 | Leopard ( Panther) ( <i>Panthera pardus</i> )                    | Live local Poultry Bird:- Avg. 1.125 Kg (On last Friday of each month)<br>Beef:- 03 Kg (90 % Flesh & 10 % Bone Weekly 06 days)   | Friday of week                     |
| 24 | Lion Indian<br>( <i>Panthera leo persica</i> )                   | Live Local Bird :- Avg. 1.375 Kg (Only on last Friday of each month)<br>Beef:-09 Kg ( 90% flesh & 10 % bone, Weekly 06 days)   | Friday of week                     |
| 25 | Rhesus Macaque ( <i>Macaca mulatta</i> )                         | Chapa Banana: - 06 Nos.<br>Apple:- 100 Gm<br>Grapes:- 100 Gm<br>Vegetable (Carat, Bean etc.): - 250 Gm<br>Bengal Gram:- 100 Gm<br>Bread:- 50 Gm  | Not Applicable                     |
| 26 | Monitor Water Lizard<br>( <i>Varanus salvator</i> )              |  | Not Applicable                     |
| 27 | Monitor Lizard / Common Indian<br>( <i>Varanus bengalensis</i> ) | Poultry Meat 150 Gm  | Not Applicable                     |
| 28 | Owl Brown Fish<br>( <i>Ketupa zeylonensis eschena</i> )          | Fish Medium Size:- 150 Gm<br>Dressed Poultry Meat:- 150 Gm   | Not Applicable                     |
| 29 | Pelican Rosy   | Big Fish (Size 200-500 gm of each)   | Not                                |

|    |   |   |                   |
|----|---|---|-------------------|
|    | / White<br>( <i>Pelecanus onocrotalus</i> )   | Preferably Mrigal and Raghu:- 01 Kg   | Applicable        |
| 30 | Macaque Pig Tailed<br>( <i>Macaca leonina</i> )   | Chapa Banana: - 7 Nos.<br>Apple:- 100 gm<br>Grapes:- 50 Gm<br>Green Vegetable (Carat, Bean):-250 Gm<br>Bangle Gram:- 100 Gm<br>Bread:- 50 Gm<br>Fodder & Leaves:- 01 Kg | Not<br>Applicable |
| 31 | Heron Pond ( <i>Ardeola grayii</i> )  | Small Fish & Prawn @ 70% and Snail and<br>Molasses @ 30%:- 200 Gm   | Not<br>Applicable |
| 32 | Porcupine Indian ( <i>Hystrix<br/>indica</i> )  | Chapa Banana:- 05 Nos.<br>Apple:- 100 Gm<br>Green Vegetable:- 150 Gm<br>Bengal Gram:- 100 Gm<br>Arum Root:-100 Gm (Seasonal)  | Not<br>Applicable |
| 33 | Python Indian -Rock<br>( <i>Python molurus</i> )  | Live local Poultry bird:- 01 No. of 01 Kg   | Not<br>Applicable |
| 34 | Fowl Jungle Red<br>( <i>Gallus gallus</i> )   | Paddy:- 100 Gm<br>Wheat:- 50 Gm<br>Dry Fish Meal:- 10 Gm<br>Mustard Seed:- 20 Gm<br>Rice:- 50 Gm  | Not<br>Applicable |
| 35 | Deer Sambar ( <i>Rusa unicolor</i> )  | Compound Ration:- 01 Kg<br>Soaked Bengal Gram:- 500 Gm<br>Green Vegetable:- 800 Gm<br>Green Fodder:- 07 Kg<br>Fodder & Leaves:-01 Kg                                    | Not<br>Applicable |
| 36 | Loris Slow<br>( <i>Nycticebus bengalensis</i> )   | Chapa Banana: - 02 Nos.<br>Apple: - 50 Gm<br>Egg:- 02 Nos.<br>Grapes:- 50 Gm  | Not<br>Applicable |
| 37 | Monkey<br>Spectacled Leaf<br>( <i>Trachypithecus phayrei</i> )  | Chapa Banana 7 Nos.<br>Apple 100 Gm<br>Grapes 100 Gm<br>Vegetable 250 Gm<br>Bangle Gram 100 Gm<br>Bread 50 Gm   | Not<br>Applicable |
| 38 | Spotted Deer ( <i>Axis axis</i> )   | Compound Ration:- 01 Kg<br>Black Gram:- 200 Gm<br>Green Grass:- 05 Kg   | Not<br>Applicable |
| 39 | Stork Adjutant (lesser)<br>( <i>Leptoptilos javanicus</i> )   | Medium size Fish @ 50-100 Gm each) 500<br>Gm  | Not<br>Applicable |
| 40 | Tortoise elongated<br>( <i>Indotestuda<br/>elongata</i> )   |   | Not<br>Applicable |
| 41 | Turtle Fresh Water/ Indian<br>Soft-shelled/Indian Flap<br>shell Turtle<br>( <i>Lissemys punctata punctata</i> ) | Chapa Banana: - 01 No.<br>Rice:- 25 Gm<br>Chopped Vegetable:- 50 Gm<br>Dressed poultry meat:- 500 gm  | Not<br>Applicable |
| 42 | Turtle Peacock<br>marked Soft-shelled<br>( <i>Nilssonina hurum</i> )  |   | Not<br>Applicable |

|    |  |   |                     |
|----|--|---|---------------------|
| 43 | Black Soft-shell Turtle<br>( <i>Nilssonina nigricans</i> )   |   | Not Applicable      |
| 44 | Turtle Spotted Black/Pond<br>( <i>Geoclemys hamiltonii</i> ) |   | Not Applicable      |
| 45 | Turtle Indian Roofed<br>( <i>Pangshura tecta</i> )           |   | Not Applicable      |
| 46 | Vulture White Backed - Bengal<br>( <i>Gyps bengalensis</i> ) | Dressed poultry meat:- 500 gm   | Not Applicable      |
| 47 | Teal Lesser Whistling<br>( <i>Dendrocygn javanica</i> )      | Small fish & Prawn @ 70% and 30% & Snail and Molasses @70% & 30%:- 200 Gm   | Not Applicable      |
| 48 | Ibis White ( <i>Threskiornis melanocephalus</i> )            | Small fish & Prawn @ 70% and 30% & Snail and Molasses @ 70% & 30%:- 200 Gm  | Not Applicable      |
| 49 | Serow ( <i>Capricornis sumatraensis</i> )                    | Compound Ration:- 01 Kg<br>Black Gram:- 200 Gm<br>Green Grass:- 05 Kg   | Not Applicable      |
| 50 | Eagle Crested Serpent ( <i>Spilornis cheela</i> )            | Dressed poultry meat:- 500 gm   | Not Applicable      |
| 51 | Eagle Fishing ( <i>Haliaeetus leucorhynchus</i> )            |   |                     |
| 52 | Common Langur<br>( <i>Semnopithecus entellus</i> )           | Chapa Banana: }8 nos. Apple:-100gm, Bengal gram:- 100gm. Grapes:- 100gm, Vegetables:- 250gm, Green Leaves:- 1kg.  | Not Applicable      |
| 53 | Silver Pheasant ( <i>Lophura nycthemera</i> )                | Paddy:- 50 Gm<br>Wheat:- 50 Gm.<br>Chapa Banana:- 01 nos.<br>Apple:- 50 Gm.<br>Boiled Egg:- 01 nos.<br>Dry fish meal:- 10 Gm.                               | Not Applicable      |
| 54 | Tiger Bengal ( <i>Panthera tigris</i> )                      | Beef (90% Flesh & 10% Bone):- 6.5 Kg<br>(Weekly 06 days)<br>Poultry Meat :-2.5 Kg<br>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 vaccinated for   | Name of the Vaccine and dosage/ quantity used | Periodicity    | Remarks |
|--------|-----------------|--|---|----------------|---------|
| 1      | All Lesser cats | Feline panleucopenia<br>Feline rhinotracheitis<br>Feline calicivirus | Feligen CRT,<br>1 dose/animal, SC/IM          | Once in a year |         |

15. De-worming Schedule of animals

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

16. Disinfection Schedule

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

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

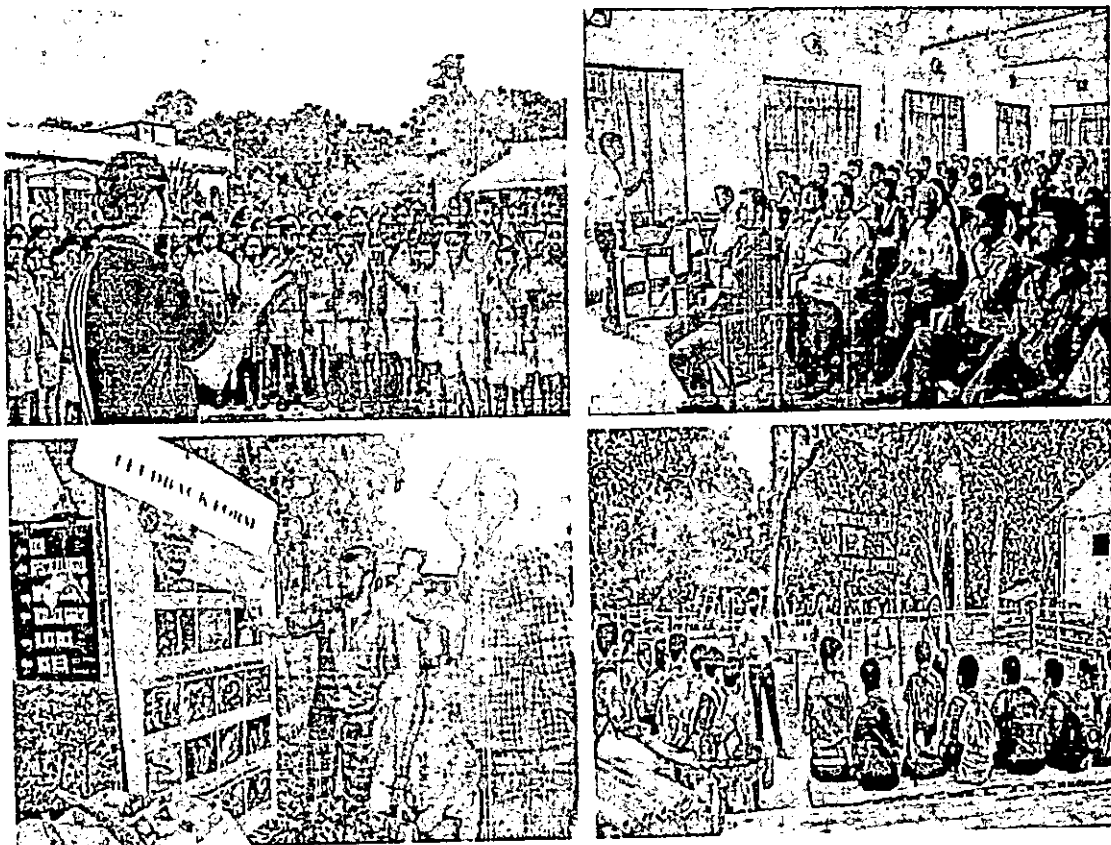
Due to unavailability of Doctors & Health Workers because of Covid-19 pandemic situation we were unable to conduct any such health camp. Soon we will organize a Health Check-up Camp for the employees.

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

| Sl No. | Work   | Amount (in rupees) | Funding agency                               |
|--------|--|--------------------|--|
| I      | 6 Nos. of sitting bench in various locations inside the Sepahijala Zoological Park | 90000.00           | Tripura Tourism Development Corporation Ltd. |

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

| Sl. No. | Date       | Program          | Number of participants |
|---------|------------|------------------|------------------------|
| 1       | 06/12/2020 | Educational Tour | 83 Nos                 |
| 2       | 13/12/2020 | Zoo Education    | 62Nos                  |
| 3       | 16/12/2020 | Zoo Education    | 35 Nos                 |
| 4       | 25/12/2020 | Educational Tour | 58 Nos                 |
| 5       | 03/01/2021 | Educational Tour | 120 Nos                |



**Photos of Zoo Education & Outreach 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 them warm. 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 herbivore 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. Animal feed were given with utmost care by thoroughly washing of fruits and vegetables and dipping meat in hot water (65 degree Celsius ) for ten minute before serving to animals.

### 22. Research Work carried out and publications:

| Sl. No. | Area   | Status    |
|---------|--|-----------|
| 1       | Captive breeding of Golden jackal in on display enclosure                            | Completed |
| 2       | Activity pattern of captive leopard cat  | Completed |
| 3       | A study on the breeding behaviour and filial cannibalism of captive Clouded Leopard. | Completed |

## Successful breeding of Golden Jackal 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-

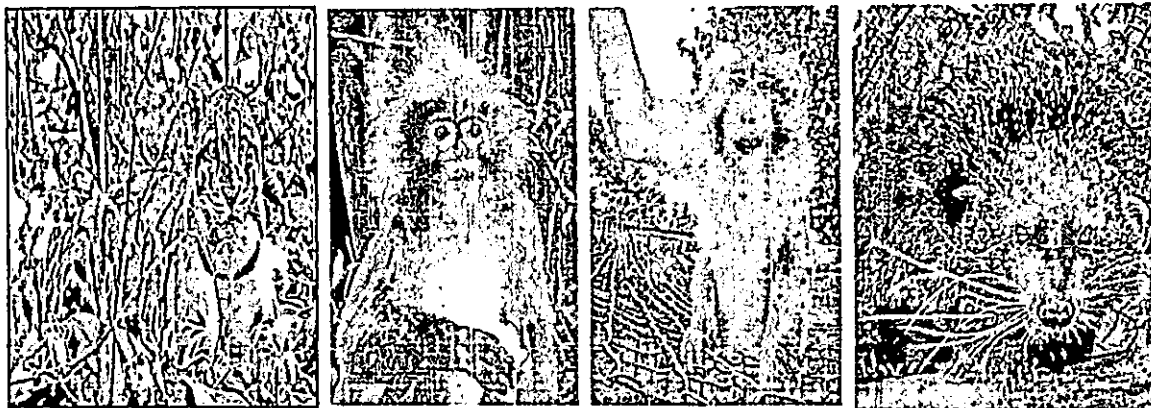
1. Spectacle Langur (*Trachypithecus phayrei*)
2. Clouded Leopard (*Neofelis nebulosa*)
3. Binturong (*Arctictis binturong*)
4. Pig-tailed Macaque (*Macaca leonine*)

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 2020-21**

| SL No. | Category           | Male | Femal e | Uns ex | Total |
|--------|--------------------|------|---------|--------|-------|
| 1      | Clouded Leopard    | 4    | 3       | 0      | 7     |
| 2      | Spectacled Langur  | 5    | 4       | 3      | 11    |
| 3      | Pig tailed Macaque | 4    | 6       | 8      | 18    |
| 4      | Binturong          | 1    | 1       | 0      | 2     |



**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      |
|    | Nil                         | Nil     | Nil          | Nil                | Nil                             |
| B. | Animals going from the zoo  |         |              |                    |                                 |
|    | H.NO.                       | Species | Number (M:F) | Going to which Zoo | Date of deposition from the zoo |
|    | Nil                         | Nil     | Nil          | Nil                | Nil                             |

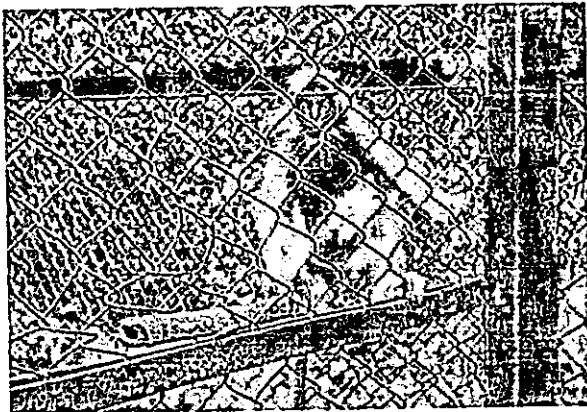
**25. Rescue and Rehabilitation of wild animals carried out by the Zoo**

| Sl. No. | Date of Rescue | Species with number of animals rescued with their sex (M: 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 |
| 1       | 20.04.2020     | Barking Deer (Female-1)  | Sepahijala Wildlife |  | Died on 21.04.2020                                |  |

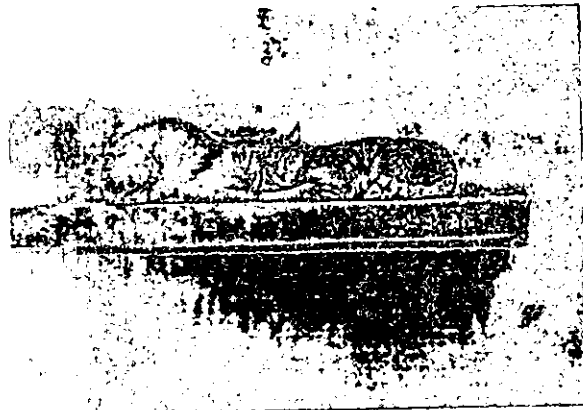
|    |            |                                     |   |  |
|----|------------|-------------------------------------|---|--|
| 2  | 07.05.2020 | Himalayan black bear ( 2 nos unsex) | Sanctuary Rescued from Karbok area.                     | Release to Zoo enclosure and after 1 female died on 03/11/2020 |
| 3  | 15/05/2020 | Wild cat (1 male)                   | Rescued from Sadar area.                                | Died on 17/05/2020   |
| 4  | 18/05/2020 | Wild cat (male 1)                   | Rescued from Sadar area.                                | Release to enclosure   |
| 5  | 19/05/2020 | Jackal ( sub adult 1)               | Handover by Sadar Div.                                  | Release to enclosure.  |
| 6  | 21/05/2020 | Wild cat (male 1 No.)               | Handover by Sadar Div.                                  | Release to enclosure   |
| 7  | 23/05/2020 | Rhesus macaque (MALE 1)             | Bishalgarh area. Rescued due to street accident.        | Died on 24/05/2020   |
| 8  | 23/05/2020 | Wild cat (male 1)                   | Handover by Sadar Div.                                  | Release to enclosure   |
| 9  | 24/05/2020 | Maynah (3 nos unsex)                | Sadar Div. court case related.                          | 2 nos died and 1 no. release to enclosure.                     |
| 10 | 24/05/2020 | Parrot(11 nos unsex)                | Sadar div. court case related.)                         | 3 nos died and 8 nos. release.                                 |
| 11 | 28/05/2020 | Indian python                       | Rescued Kalkalia. Bishalgarh area                       | Died on 26/01/2021.  |
| 12 | 28/05/2020 | Capped langur (male 1 no.)          | Rescued from S.W.L.S area due to electric shock.        | Died on 28/05/2020   |
| 13 | 11/06/2020 | Hoq Badjer (3 nos unsex cub)        | Rescued from Salema, Kamalpur.                          | Died 3 nos.  |
| 14 | 29/06/2020 | Slow loris (1 no. Male)             | From Sadar. Area.                                       | Release to Enclosure.  |
| 15 | 12/07/2020 | Fishing cat(1 no. male)             | Rescue from Gakulnagar, area Bishalgarh.                | Release to enclosure.  |
| 16 | 25/07/2020 | Jackal( 1 no. female)               | Rescued from Airport area.                              | Release to zoo enclosure.                                      |
| 17 | 25/07/2020 | Common palm civet.( 1 no. )         | Rescue from SWLS.                                       | Died on 26/07/2020   |
| 18 | 30/07/2020 | Leopard cat 1 no.                   | Rescued from Bishalgarh area by Forest protection unit. | Released to enclosure.   |
| 19 | 31/07/2020 | Himalayan palm civet( 1 no male)    | Rescue by Sadar staff from Barjalla area.               | Died on 01/04/2020   |
| 20 | 07/08/2020 | Leopard cat ( 1 no.0                | Rescued by Sadar staff.                                 | Died on 08/08/2020   |

|    |            |   |   |  |   |
|----|------------|---|---|--|---|
| 21 | 08/08/2020 | Slow lorries ( 1 no)                    | Rescue and handover by sadar staff.                         |  | Escape through the net of the cage.                   |
| 22 | 20/08/2020 | Parrot (1 no )                          | Rescue by sadar staff accordingly handover to zoo.          |  | Release to zoo enclosure.                             |
| 23 | 20/08/2020 | Manitor lizard (1 no)                   | Rescued from sadar area and handover to zoo by sadar staff. |  | Release to enclosure and after escape from enclosure. |
| 24 | 04/09/2020 | Eagle                                   | Rescued by Sadar staff.                                     |  | Release to enclosure after proper treatment.          |
| 25 | 07/09/2020 | Wild cat( 1 no male)                    | Rescued from airport area.                                  |  | Release to enclosure after proper treatment.          |
| 26 | 10/09/2020 | Rhesus monkey(1 no )                    | Rescued from sadar area.                                    |  | Release to SWLS area.                                 |
| 27 | 19/10/2020 | Rhesus monkey (1 no male adult)         | -do-  |  | Release to primate section with permission.           |
| 28 | 19/10/2020 | parrot                                  | -do-  |  | Release to aviary section.                            |
| 29 | 27/10/2020 | Turtles (3 nos )                        | Rescued from Maharajgag bazar by Sadar staff.               |  | Died 1 on and release to sanctuary.                   |
| 30 | 01/11/2020 | Capped langur ( 1 no. female and 1 cub) | From Bagafa area.   |  | Died on 10/11/2020 female mother.                     |
| 31 | 04/12/2020 | Hawk( 1 no)                             | Rescued by sadar staff.                                     |  | Died on 06/12/2020                                    |
| 32 | 20/12/2020 | Wildcat ( 1 no female)                  | -do-  |  | Release to zoo enclosure.                             |
| 33 | 21/12/2020 | Owl ( 1 no.)                            | -do-  |  | Died on 27/12/2020                                    |
| 34 | 06/01/2021 | Wild cat(1 no male)                     | Do  |  | Released to zoo enclosure                             |
| 35 | 13/01/2021 | Wild cat (male 1 no.)                   | -do-  |  | Died on 14/04/2021                                    |
| 36 | 14/01/2021 | Wildcat(1 no male)                      | Do-   |  | Released to zoo enclosure                             |
| 37 | 15/01/2021 | Wildcat (1 no male)                     | do  |  | -do-  |
| 38 | 20/01/2021 | Western water hen                       | -do-  |  | Died on 18/04/2021 and 24/04/2021                     |
| 39 | 27/01/2021 | Himalayan palm civet (1 no)             | Rescued by Vety. Staff of                                   |  | Died on 02/02/2021                                    |

|    |            |  |   |  |                               |
|----|------------|--|---|--|-------------------------------|
|    |            | male)                                  | zoo hospital<br>from Suryamani<br>nagar area.   |  |                               |
| 40 | 30/01/2021 | Wildcat (1 no.<br>male)                | From airport<br>area.                           |  | Died on<br>04/04/2021         |
| 41 | 31/01/2021 | Wild cat(male 1<br>no.)                | Handover by the<br>Sadar staff.<br>Forest.      |  | Died on<br>05/04/2021         |
| 42 | 31/01/2021 | Jackal ( 1 no<br>unsex)                | Airport area.                                   |  | Released to zoo<br>enclosure. |
| 43 | 01/02/2021 | Wildcat(1 no.<br>male)                 | Rescued by<br>Sadar staff.                      |  | Released to zoo<br>enclosure. |
| 44 | 07/02/2021 | Wild cat cubs 1<br>no unsex.           | -do-  |  | Died on<br>27/05/2021         |
| 45 | 12/02/2021 | Himalayan palm<br>civet(1 no male)     | -do-  |  | Died on<br>14/02/2021         |
| 46 | 15/02/2021 | Small Indian<br>civet( 1 no.<br>unsex) | do  |  | Died on<br>19/02/2021         |
| 47 | 05/03/2021 | Barking deer( 1<br>no female)          | Rescued by zoo<br>staff from<br>Golaghati area. |  | Died on<br>06/03/2021         |
| 48 | 06/03/2021 | Leopard cat( 1<br>no )                 | Teliamura area.                                 |  | Died on<br>07/03/2021         |
| 49 | 10/03/2021 | Wildcat ( 1 no.<br>male)               | Rescued by<br>Sadar staff.                      |  | Released to<br>wild.          |
| 50 | 18/03/2021 | Fishing cat ( 1<br>no male)            | Do  |  | Released to zoo<br>enclosure. |
| 52 | 20/03/2021 | Slow lorries( 1<br>no male)            | Rescued by zoo<br>staff.                        |  | Released to<br>wild.          |



Rescued Capped Langur



Rescued Jungle cat

Amended

FORM 11  
 Section 11 (1)  
 Preforum for Annual Inventory Report  
 Inventory Report for the Year 2020/21

Annual Inventory Report of Animals for the Year 2020/21

| Fundamental Species    | Animal Name | Scientific Name | Opening Stock on 01/01/2020  |    |    | Births |    |    | Acquisition |    |    | Disposed |    |    | Death |    |    | Closing Stock on 31/03/2021 |    |    |    |    |
|------------------------|-------------|-----------------|------------------------------|----|----|--------|----|----|-------------|----|----|----------|----|----|-------|----|----|-----------------------------|----|----|----|----|
|                        |             |                 | NI                           | FI | TI | NI     | FI | TI | NI          | FI | TI | NI       | FI | TI | NI    | FI | TI | NI                          | FI | TI |    |    |
| SN Bird                | [Blank]     | [Blank]         | 3                            | 0  | 0  | 0      | 0  | 0  | 0           | 0  | 0  | 0        | 0  | 0  | 0     | 0  | 0  | 0                           | 0  | 0  | 0  |    |
|                        |             |                 | Total of Birds               |    |    |        |    |    |             |    |    |          |    |    |       |    |    |                             |    |    |    |    |
|                        |             |                 | NI                           | FI | TI | NI     | FI | TI | NI          | FI | TI | NI       | FI | TI | NI    | FI | TI | NI                          | FI | TI | NI | FI |
| SN Mammals             | [Blank]     | [Blank]         | 2                            | 0  | 0  | 0      | 0  | 0  | 0           | 0  | 0  | 0        | 0  | 0  | 0     | 0  | 0  | 0                           | 0  | 0  | 0  | 0  |
|                        |             |                 | Total of Mammals             |    |    |        |    |    |             |    |    |          |    |    |       |    |    |                             |    |    |    |    |
|                        |             |                 | NI                           | FI | TI | NI     | FI | TI | NI          | FI | TI | NI       | FI | TI | NI    | FI | TI | NI                          | FI | TI | NI | FI |
| SN Reptiles/Amphibians | [Blank]     | [Blank]         | 1                            | 0  | 0  | 0      | 0  | 0  | 0           | 0  | 0  | 0        | 0  | 0  | 0     | 0  | 0  | 0                           | 0  | 0  | 0  | 0  |
|                        |             |                 | Total of Reptiles/Amphibians |    |    |        |    |    |             |    |    |          |    |    |       |    |    |                             |    |    |    |    |
|                        |             |                 | NI                           | FI | TI | NI     | FI | TI | NI          | FI | TI | NI       | FI | TI | NI    | FI | TI | NI                          | FI | TI | NI | FI |
| SN Invertebrate        | [Blank]     | [Blank]         | 0                            | 0  | 0  | 0      | 0  | 0  | 0           | 0  | 0  | 0        | 0  | 0  | 0     | 0  | 0  | 0                           | 0  | 0  | 0  | 0  |
|                        |             |                 | Total of Invertebrates       |    |    |        |    |    |             |    |    |          |    |    |       |    |    |                             |    |    |    |    |
|                        |             |                 | NI                           | FI | TI | NI     | FI | TI | NI          | FI | TI | NI       | FI | TI | NI    | FI | TI | NI                          | FI | TI | NI | FI |
| Grand Total            |             |                 | 6                            | 0  | 0  | 0      | 0  | 0  | 0           | 0  | 0  | 0        | 0  | 0  | 0     | 0  | 0  | 0                           | 0  | 0  | 0  | 0  |

Director (Animals)  
 Sepuluh Zoological Park  
 Sepuluh District

Director (B) Data (TS)  
 Director  
 Sepuluh Zoological Park  
 Indragiri



|                    |  | Males |     | Females |     | Total |   | Males |    | Females |   | Total |   | Males |   | Females |   | Total |   | Males |    | Females |     | Total |     |
|--------------------|--|-------|-----|---------|-----|-------|---|-------|----|---------|---|-------|---|-------|---|---------|---|-------|---|-------|----|---------|-----|-------|-----|
|                    |  | M     | F   | M       | F   | M     | F | M     | F  | M       | F | M     | F | M     | F | M       | F | M     | F | M     | F  | M       | F   | M     | F   |
| Total Mammals      |  | 157   | 227 | 43      | 447 | 2     | 1 | 10    | 13 | 5       | 4 | 0     | 9 | 0     | 9 | 0       | 0 | 3     | 9 | 0     | 12 | 180     | 222 | 51    | 460 |
| Total Invertebrate |  | 0     | 0   | 0       | 0   | 0     | 0 | 0     | 0  | 0       | 0 | 0     | 0 | 0     | 0 | 0       | 0 | 0     | 0 | 0     | 0  | 0       | 0   | 0     | 0   |
| Total Animals      |  | 205   | 254 | 43      | 502 | 2     | 1 | 10    | 13 | 5       | 4 | 0     | 9 | 0     | 9 | 0       | 0 | 3     | 9 | 0     | 12 | 180     | 222 | 51    | 460 |

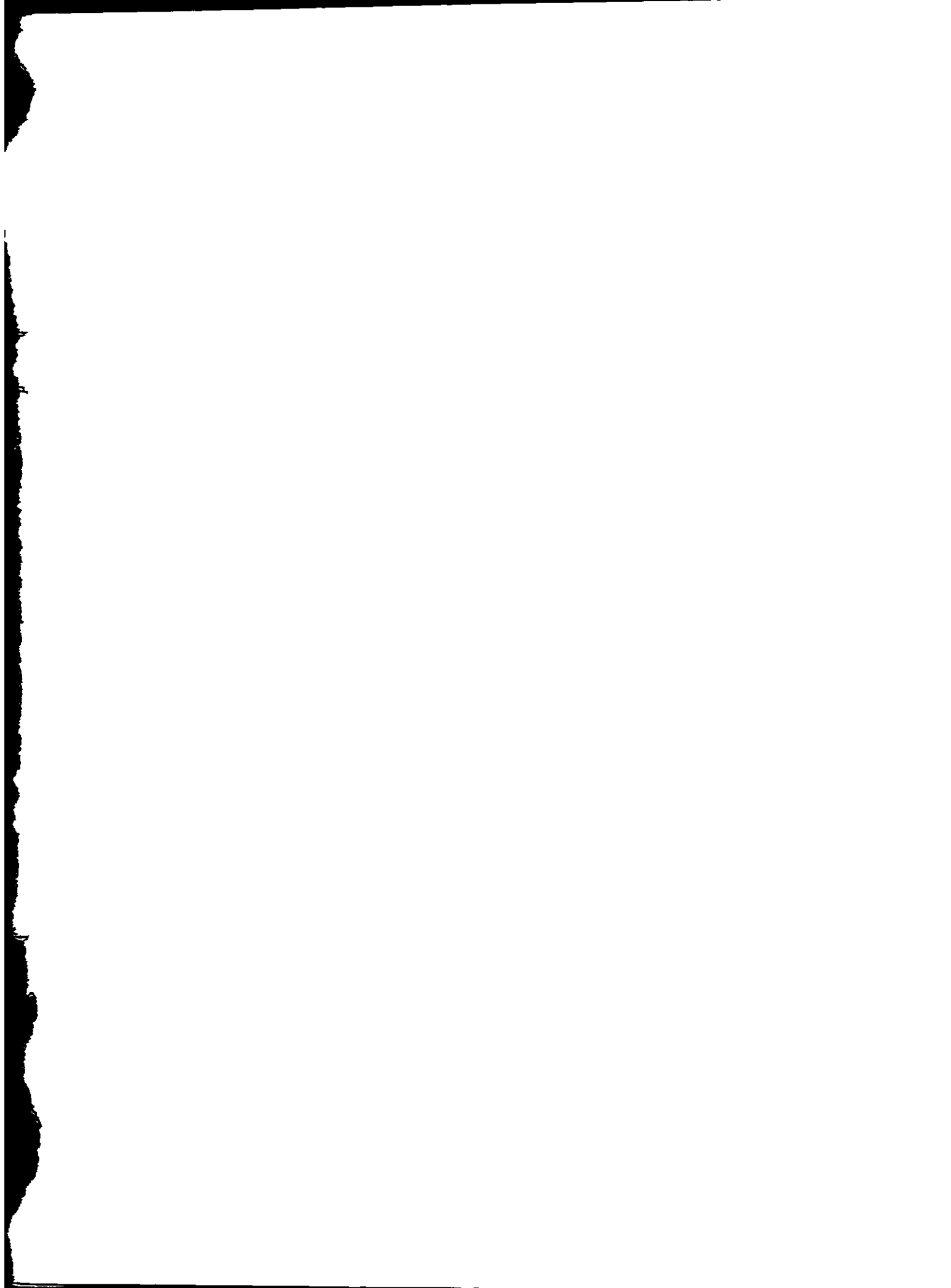
| SN | Reptiles/Amphibians       | Males |    | Females |    | Total |   | Males |   | Females |   | Total |   | Males |   | Females |   | Total |   |   |   |   |   |   |   |
|----|---------------------------|-------|----|---------|----|-------|---|-------|---|---------|---|-------|---|-------|---|---------|---|-------|---|---|---|---|---|---|---|
|    |                           | M     | F  | M       | F  | M     | F | M     | F | M       | F | M     | F | M     | F | M       | F | M     | F |   |   |   |   |   |   |
| 1  | Males crocodile           | 0     | 0  | 0       | 0  | 0     | 0 | 0     | 0 | 0       | 0 | 0     | 0 | 0     | 0 | 0       | 0 | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2  | Rhinoceros                | 0     | 0  | 0       | 0  | 0     | 0 | 0     | 0 | 0       | 0 | 0     | 0 | 0     | 0 | 0       | 0 | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3  | Water Monitor lizard      | 1     | 0  | 0       | 1  | 0     | 0 | 0     | 0 | 0       | 0 | 0     | 0 | 0     | 0 | 0       | 0 | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4  | Green tree monitor lizard | 1     | 0  | 0       | 1  | 0     | 0 | 0     | 0 | 0       | 0 | 0     | 0 | 0     | 0 | 0       | 0 | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5  | Asian Elephant            | 1     | 0  | 0       | 1  | 0     | 0 | 0     | 0 | 0       | 0 | 0     | 0 | 0     | 0 | 0       | 0 | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6  | Asian Elephant            | 1     | 0  | 0       | 1  | 0     | 0 | 0     | 0 | 0       | 0 | 0     | 0 | 0     | 0 | 0       | 0 | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7  | Asian Elephant            | 1     | 0  | 0       | 1  | 0     | 0 | 0     | 0 | 0       | 0 | 0     | 0 | 0     | 0 | 0       | 0 | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8  | Asian Elephant            | 1     | 0  | 0       | 1  | 0     | 0 | 0     | 0 | 0       | 0 | 0     | 0 | 0     | 0 | 0       | 0 | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9  | Asian Elephant            | 1     | 0  | 0       | 1  | 0     | 0 | 0     | 0 | 0       | 0 | 0     | 0 | 0     | 0 | 0       | 0 | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | Asian Elephant            | 1     | 0  | 0       | 1  | 0     | 0 | 0     | 0 | 0       | 0 | 0     | 0 | 0     | 0 | 0       | 0 | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 | Total Reptiles/Amphibians | 11    | 11 | 0       | 22 | 0     | 0 | 0     | 0 | 0       | 0 | 0     | 0 | 0     | 0 | 0       | 0 | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

*Signature*  
 Director  
 Sepahiyala Zoological Park  
 Sepahiyala District

*Signature*  
 Director  
 B. Datta, IFS  
 Sepahiyala Zoological Park  
 Tirunelveli







### 27. Mortality of animals

| Sl. No | Animal Name (with individual identification mark, if any) | Scientific Name                   | Sex & tentative age | Date of Death | Reason of Death as per the Post-mortem report                       |
|--------|---|-----------------------------------|---------------------|---------------|---|
| 1      | Emu   | <i>Dramaius nobachoniadtae</i>    | Female, adult       | 27/04/2020    | Hepatitis and organ failure.  |
| 2      | Leopard cat   | <i>Prionailurus bengalensis</i>   | Male, 1 yr.         | 04/05/2020    | Died due to traumatic shock as the neck fracture due to infighting. |
| 3      | Clouded leopard.  | <i>Neofelis nebulosa</i>          | Female, adult.      | 23/06/2020    | Anaemia Mesothelioma (Neoplasm),                                    |
| 4      | Jackal  | <i>Canis aureus</i>               | Female, adult       | 09/07/2020    | Cardiac arrest and failure.   |
| 5      | Indian pied hornbill                                      | <i>Anthracoceros malabaricus</i>  | adult               | 06/08/2020    | Septicaemia   |
| 6      | Indian rock python  | <i>Python bivittatus</i>          | Unsex, adult        | 09/08/2020    | Senility.   |
| 7      | Black buck.   | <i>Antelope cervicapra</i>        | Female, sub-adult   | 23/08.2020    | Bloat.  |
| 8      | Spotted deer  | <i>Axis axis</i>                  | Female, adult.      | 20/10/2020    | Pneumonia   |
| 9      | Eagle crested serpent                                     | <i>Spilornis cheela</i>           | Unsex, adult.       | 11/11/2020    | Pneumonia   |
| 10     | Wild cat.   | <i>Felis chaus</i>                | Female, adult       | 11/12/2020    | Pyometra  |
| 11     | Leopard cat   | <i>Prionailurus bengalensis</i>   | Female, adult       | 12/12/2020    | Pneumonia.  |
| 12     | Common palm civet   | <i>Paradoxurus hermaphrodites</i> | Male, adult         | 13/12/2020    | Died due to lung infection.   |
| 13     | Binturong   | <i>Arctictis binturong</i>        | Female, adult       | 15/12/2020    | Died due to multi organ failure                                     |
| 14     | Eagle (surplus)   | <i>Spilornis cheela</i>           | Unsex, adult        | 14/12/2020    | Died due to hepatic failure.  |
| 15     | Eagle (surplus)   | <i>Spilornis cheela</i>           | Unsex, adult        | 17/12/2020    | Died due to respiratory tract infection.                            |
| 16     | Pigtailed macaque   | <i>Macaca leonina</i>             | Male, adult         | 08/01/2021    | Multiple organ failure due to senility.                             |
| 17     | Common palm civet   | <i>Paradoxurus hermaphrodites</i> | Male, adult         | 02/02/2021    | Multiple organ failure.   |
| 18     | Leopard cat   | <i>Prionailurus bengalensis</i>   | Male, cub.          | 17/02/2021    | Died due to Hypothermia.  |
| 19     | Spotted deer  | <i>Axis axis</i>                  | Female, adult       | 19/02/2021    | Died due to septicaemia and internal bleeding.                      |
| 20     | Spectacled langur   | <i>Trachypithecus phayrei</i>     | Female, adult       | 13/03/2021    | Due to anaemia, ascites pulmonary infecting.                        |
| 21     | Spectacled langur   | <i>Trachypithecus phayrei</i>     | Female, adult       | 22/03/2021    | Multiple organs failure due to old age.                             |

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   |
|---|--------------------------|---|---------------------------|--------------------|--|
| <b>1. General Requirement</b>                 |                          |   |                           |                    |  |
| 1   | 10.1(3)                  | There are moated island for housing primates in the zoo. It was advice to take steps for re-modeling 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 crenting barrier so that visitors are not on all the sides cornering the animal housed in the island. | 1 year                    |                    | Action Taken for re-modelling of primate islands. High hedges have been planted during June - July 2020 but damaged by free ranging barking deer. High hedges have been planted during May - June 2021 with proper protection. |
| 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 stress on the environment   | 1 year                    |                    | A Plan in consulatation with Bishalgarh Municipal council as well as other consultants is in process. In addition, Pits have been dug up behind enclosures of carnivore animals.   |
| 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   | 10.1(9)                  | The fence along the boundary of the zoo should be repaired and maintained regularly   | Immediately and regularly |                    | Maintained   |
| <b>2. Administrative and Staffing Pattern</b> |                          |   |                           |                    |  |
| 5   | 10.2(2)                  | The zoo should have adequate scientific and technical staffs to support the officer-in-charge of the zoo in   | 1 year                    |                    | Presently Curator is posted and 1(one) Project Biologist for CBC has been engaged & NLC staff are being engaged for  |

|  |         |  |           |  |   |
|--|---------|--|-----------|--|---|
|  |         | carryi9ng out the responsibilities of housing, upkeep and health care of zoo animals, research and visitor education by posting Education officer and Biologist.   |           |  | educating purpose and compilation of animal data sheet.   |
| <b>3. Development &amp; Planning</b>                               |         |  |           |  |   |
| 6  | 10.3(1) | The Zoo should get the Master Plan approved by the CZA   | Immediate |  | Approved  |
| 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.  |
| <b>4. Animal housing, display of animals and animal enclosures</b> |         |  |           |  |   |
| 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 construct open top enclosures 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(3) | The porcupine enclosures should be demolished since the same does not meet CZA's requirement.  | 1 year    |  | Proposal for new enclosures has been sent to CZA.   |
| 11   | 10.4(4) | The Leopard Cat, Jungle cat and large Indian civet cat should be provided at   |           |  | Action Taken  |

|    |         |  |             |  |   |
|----|---------|--|-------------|--|---|
|    |         | least 30% of the enclosure area as Kuccha and Elevated wooden platform and wooden logs to meet the behavioural requirement of the species.   |             |  |   |
| 12 | 10.4(5) | Enclosures for Indian pied horn bill do not meet its requirement. The area of the aviary should be extended.   | 1 year      |  | Action Taken  |
| 13 | 10.4(6) | 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.             |
| 14 | 10.4(7) | 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.   |
| 15 | 10.4(8) | All enclosures should be enriched particularly enclosures for common lizards, crocodile and turtles. Sand for basking, submerged water body and place 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. | 1 year      |  | Species-specific enrichments have been provided in most of the enclosures of Zoo with locally available bio-degradable materials. |
| 16 | 10.4(9) | The zoo should plant hedge between standoff barrier  | Immediately |  | Hedge plantation has been done between stand of barrier and the paddock   |

|   |          |  |             |  |  |
|---|----------|--|-------------|--|--|
|   |          | and the paddock wall in all animal enclosures.   |             |  | wall in enclosures of lion, common leopard, slow loris, Binturung & Fishing cat.   |
| 17  | 10.4(10) | The zoo should provide warning signage at the animal Enclosures  | Immediately |  | Action Taken   |
| 18  | 10.4(11) | 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.  |
| 19  | 10.4(12) | The condition of signage is very bad in the zoo. They are old. The signages in the enclosures near the entrance of the zoo is some what better. In many of the enclosures there is no signage at all. The one line signage written as "diurnal" etc have been placed in many enclosures. The zoo should have proper signages explaining behaviour and biology of the species displayed in the enclosure. | 1 year      |  | Old signages mostly have been removed and replaced with new signages along with barcode facility.  |
| <b>5. Upkeep and Health Care of Animals</b> |          |  |             |  |  |
| 20  | 10.5(1)  | There should be footpath of adequate size with proper disinfectant at entry and exit points of all animal houses and they should be used and maintained properly   | 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. |

|    |         |  |             |  |   |
|----|---------|--|-------------|--|---|
| 21 | 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 handlers are made aware about the importance of using clean gloves and disinfected boots.               |
| 22 |         | The meat house should be fly proof and pest free and located at a reasonable distance from the feed store and kitchen  |             |  | Action taken  |
| 23 | 10.5(3) | The zoo should have a sufficient size functioning freezer 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. At Zoo freshly dressed meat is provided everyday to the animals. Hence freezer is not required. |
| 24 | 10.5(4) | 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 carry of pathogens around since the facility is in the protected area and the wildlife of the PA may become exposed to the waste. | Immediately |  | Action Taken  |
| 25 | 10.5(5) | 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 labrotary of Veterinary College, R.K nagar Agartala. Report reflects no contamination.                                    |
| 26 | 10.5(6) | 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  | Immediately |  | Record maintained properly at zoo Hospital.   |

|  |            |  |             |  |
|--|------------|--|-------------|--|
|  |            | the Central Zoo Authority.   |             |  |
| <b>6. Veterinary and infrastructure facilities</b> |            |  |             |  |
| 27   | 10.6(1)    | The zoo should have independent quarantine and isolation ward at appropriate location so that it functions independently.  | Immediately | Proposal for more quarantine & isolation ward has been initiated under CAMPA fund.   |
| 28   | 10.6(1)b   | The zoo should have a full flagged veterinary unit 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 upgradation of veterinary facilities including maintenance of diagnostic facilities, procurement of drugs etc have been taken up under CAMPA scheme.                                    |
| 29   | 10.6(1)(c) | 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.  |
| 30   | 10.6(2)    | 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.  |
| 31   | 10.6(3)    | Sick animals room needs proper ventilation and enrichment.   | 1 year      | Action taken.  |
| 32   | 10.6(4)    | 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. |
| <b>7. Acquisition and breeding of animals</b>      |            |  |             |  |
| 33   | 10.7(1)    | The Zoo should acquire mates for single animals (Spotted dove, Fishing eagle, Peafowl, White backed vulture,   | 1 year      | Action will be taken by initiating exchange of animals with other Zoos subject to availability of these animals in surplus.  |



|   |          |   |  |  |   |
|---|----------|---|--|--|---|
|   |          | 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.  |  |  |   |
| 34  | 10.7 (2) | The Zoo should prepare Conservation Breeding Plan for the Species taken up under conservation breeding programme.   |  |  | Action taken.   |
| 35  | 10.7(3)  | With a view to prevent inbreeding and the loss of heterozygosity the zoo should maintain the animal history cards & stud and herd book for all the animals of endangered species housed in the zoo and should put appropriate identification marks for management, transfer or exchange animals with other zoos.  |  |  | Maintained at Zoo Hospital.   |
| 36  | 10.7(4)  | The Zoo should limit the number of animals of each species within the limits set by the proposed animal collection plan of the zoo by implementing appropriate population control measures like segregation of sexes, vasectomy, tubectomy and implantation of pellets etc, with due consideration of the health and welfare of the animals and interest of their long term survival. |  |  | Number of animals are being maintained, but for lesser Cats, Himalayan Black Bear this is not possible due to rescue. |
| <b>8. Research Activities</b>               |          |   |  |  |   |
| 37  | 10.8     | The zoo should implement a research plan and conduct research works on different aspects of captive wild animals for effective management.  |  |  | Some works have been done, rest works are ongoing.  |
| <b>9. Education and outreach activities</b> |          |   |  |  |   |
| 38  | 10(9)    | The Zoo should have   |  |  | There are appropriate   |

|                               |          |   |  |  |   |
|-------------------------------|----------|---|--|--|---|
|                               |          | appropriate signage and interpretation facilities. Souvenir shops etc for carrying out conservation education, outreach and awareness programs                        |  |  | signage, species display board, barcode facility, warning signage, mobile Zoo education facility, preserved specimen of wild animals and other materials for education purpose. |
| <b>10. Visitor facilities</b> |          |   |  |  |   |
| 39                            | 10.10(1) | The Zoo should have adequate civic facilities for visitors at appropriate and convenient places in the Zoo including physically disadvantaged persons.                |  |  | Action taken.   |
| 40                            | 10.10(2) | 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. |  |  | Action taken. For physically challenged persons there are wheel chair, battery operated vehicle, ramp etc inside zoo complex.   |

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

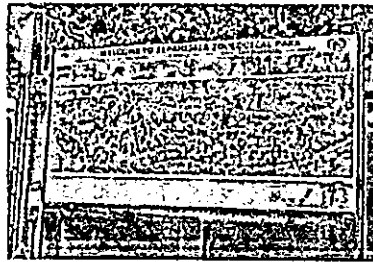
| Sl. No. | A. Mammals         | B. Birds               | C. Reptiles                 |
|---------|--------------------|------------------------|-----------------------------|
| 1       | Leopard cat        | Jungle fowl            | Monocle Cobra               |
| 2       | Small Indian civet | Wood 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       | Striped keel back snake     |
| 14      | Barking deer       | Grey Heron             | Common garden lizard        |
| 15      |                    | Little Egret           | Skink                       |

|    |  |                           |  |
|----|--|---------------------------|--|
| 16 |  | Common teal               |  |
| 17 |  | Common Buzzard            |  |
| 18 |  | Lawping                   |  |
| 19 |  | Greater Couckoo           |  |
| 20 |  | Jungle Owllet             |  |
| 21 |  | White Throated kingfisher |  |
| 22 |  | Barbet                    |  |
| 23 |  | Colored dove              |  |
| 24 |  | Common crow               |  |
| 26 |  | Barbed owl                |  |

**Gimps of some visitor's facilities available in the zoo:**



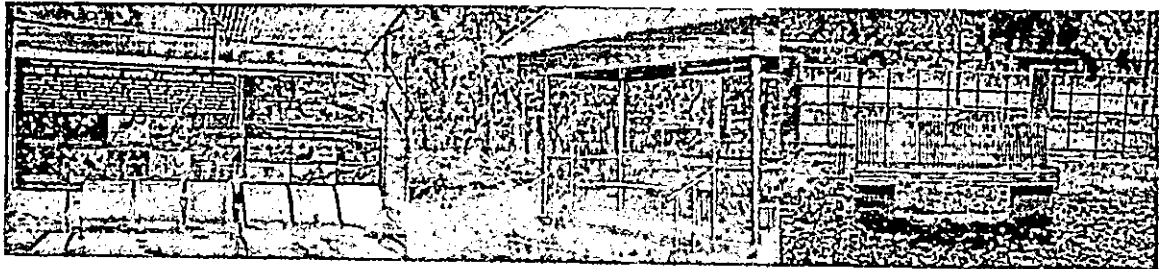
**Species display board with QR code**



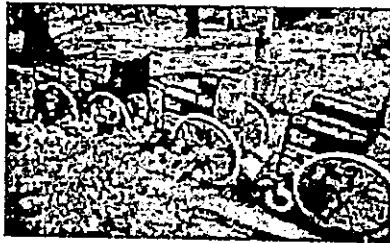
**3D zoo map**



**Lavatory complex**



**Sitting arrangement for visitors**



**Wheel chair for visitors**



**Battery operated vehicle for visitos**



**By-cycle for visitors**

