

Jawaharlal Nehru Biological Park

Bokaro, Jharkhand

ANNUAL REPORT FOR THE YEAR

2021-22



LIST OF CONTENTS

| | Page No. |
|---|----------|
| <u>Report of the Officer In-charge</u> | 4 |
| <u>History</u> | 5 |
| <u>Vision</u> | 5 |
| <u>Mission</u> | 5 |
| <u>Objective</u> | 6 |
| <u>Basic information</u> | 6 |
| <u>Organizational Chart</u> | 8 |
| <u>Human Resources</u> | 9 |
| <u>Capacity Building Of Zoo Personnel</u> | 9 |
| <u>Zoo Advisory Committee</u> | 10 |
| <u>Health Advisory Committee</u> | 10 |
| <u>Statement of Income & Expenditure</u> | 10 |
| <u>Daily Feed Schedule</u> | 10 |
| <u>Vaccination Schedule</u> | 13 |
| <u>De-worming Schedule</u> | 13 |
| <u>Disinfection Schedule</u> | 14 |
| <u>Health Check-up of Employees for Zoonotic Diseases</u> | 15 |
| <u>Development Works</u> | 15 |
| <u>Education and Awareness Programme</u> | 16 |

| | Page No. |
|---|----------|
| <u>Important Events and Happenings</u> | 16 |
| <u>Seasonal Special Arrangements</u> | 16 |
| <u>Research work carried out and publication</u> | 17 |
| <u>Conservation Breeding Programme</u> | 17 |
| <u>Animal acquisition/ transfer / exchange</u> | 17 |
| <u>Rescue and Rehabilitation</u> | 18 |
| <u>Annual Inventory of Animals</u> | 19 |
| <u>Mortality of Animals</u> | 21 |
| <u>Status of the Compliance with Conditions Stipulated by the CZA</u> | 21 |
| <u>Free Living Animals within the Zoo premises</u> | 24 |

REPORT OF THE OFFICER IN-CHARGE

It is an immense pleasure for me to present the Annual Report of Jawaharlal Nehru Biological Park, Bokaro for the yr. 2021-22.

JNB Park remained closed to visitors from 08.04.2021 to 30.06.2021 and 03.01.2022 to 28.02.2022 due to pandemic of Covid-19 as per guidelines of Govt. of Jharkhand. After improvement of situation, Govt. permitted to open park.

500 tree saplings were planted during this year to increase green coverage of park area.

I got the support of staff of JNB Park for team work and I extend my sincere thanks to the management of Bokaro Steel Plant.

HISTORY OF THE ZOO

Early in 1959, the existing area of JNB Park used to be a thick forest covered with trees of different varieties, such as Sakhua, Sagwan, Mahua, Arjun and Palas etc.

JAWAHARLAL NEHRU BIOLOGICAL PARK is the dream turned to reality, of the great Visionary, Sri S. R. Ramakrishnan, the then Managing Director of Bokaro Steel Plant who thought to utilize the abundant thick forest area in the city, Sector-IV, Bokaro Steel City of the Jharkhand State.

The park was named after a true lover of nature, Pandit Jawaharlal Nehru, the first Prime Minister of India. The Park is situated in the heart of Bokaro Steel City and spread over an area of 126.42 acres of land having minimal surface gradients (3%) in the Steel Township. The Park was opened for the public on 14-01-1989. It is owned and managed by SAIL/Bokaro Steel Plant.

Now-a-days it is an abode of rare and endangered species of wild life and colourful birds. The lush sylvan surrounding of the park has become a centre place of attraction for the resident of this industrial belt.

The park has come up to this stage due to the skill of Architects, Engineers of the BSL, Naturalists, NGOs and individual associates of the area.

VISION

The vision of JNB Park is to sensitize people for caring and conservation of wild flora and fauna.

MISSION

- I. Conservation and breeding of wild animals/birds of Chotanagpur region, Jharkhand and nearby states.
- II. Provide naturalistic enclosures to various animals for conservation and propagation of wildlife.

- III. As a zoo is a living laboratory, visitors, particularly students will learn habit, habitat, behavior, biology and other interesting information of wildlife at the shortest time which will be useful for protection and conservation of wildlife.

We intend to use state of the art technology for betterment of the Park and want to give a naturalistic habitat. Also, we intend to connect nationally with all Zoo communities.

OBJECTIVE

JNB Park is a condensed source of information about nature and wildlife and the objective of the park will be spreading of conservation, education and create awareness among visitors.

BASIC INFORMATION ABOUT THE ZOO

❖ BASIC INFORMATION

- Name of the Zoo : Jawaharlal Nehru Biological Park
- Year of Establishment : 1989
- Address of the Zoo : Sector - IV, Bokaro Steel City (827004)
- State : Jharkhand
- Telephone Number : 8986872622
- Fax Number :
- E-mail Address : jnbparkbokaro@gmail.com
- Website :
- Distance from nearest : Airport: Ranchi Airport - 130 km
Railway St. : Bokaro Steel City - 13 km
Bus Stand: Govt. Bus Stand, Bokaro - 6 km
- Recognition Valid upto: 19th August'2022
- Category of zoo : Medium Zoo
- Area (in hectares) : 51.160

- Number of visitors : Adult – 69476
(2021 – 22) Children – 73321
Total Visitors – 1,42,797
[JNB Park remain closed to visitors from 08.04.2021 to 30.06.2021 and 03.01.2022 to 28.02.2022 due to pandemic of COVID-19]
- Visitor's Facilities : Visitor circulation pathway
Available in Zoo Drinking water
Visitor sheds
Toilets (gents, ladies & handicapped)
Wheel chair
First aid
Guide maps
Interpretation centre, etc
- Weekly closure day : Monday

❖ **MANAGEMENT PERSONNEL OF THE ZOO**

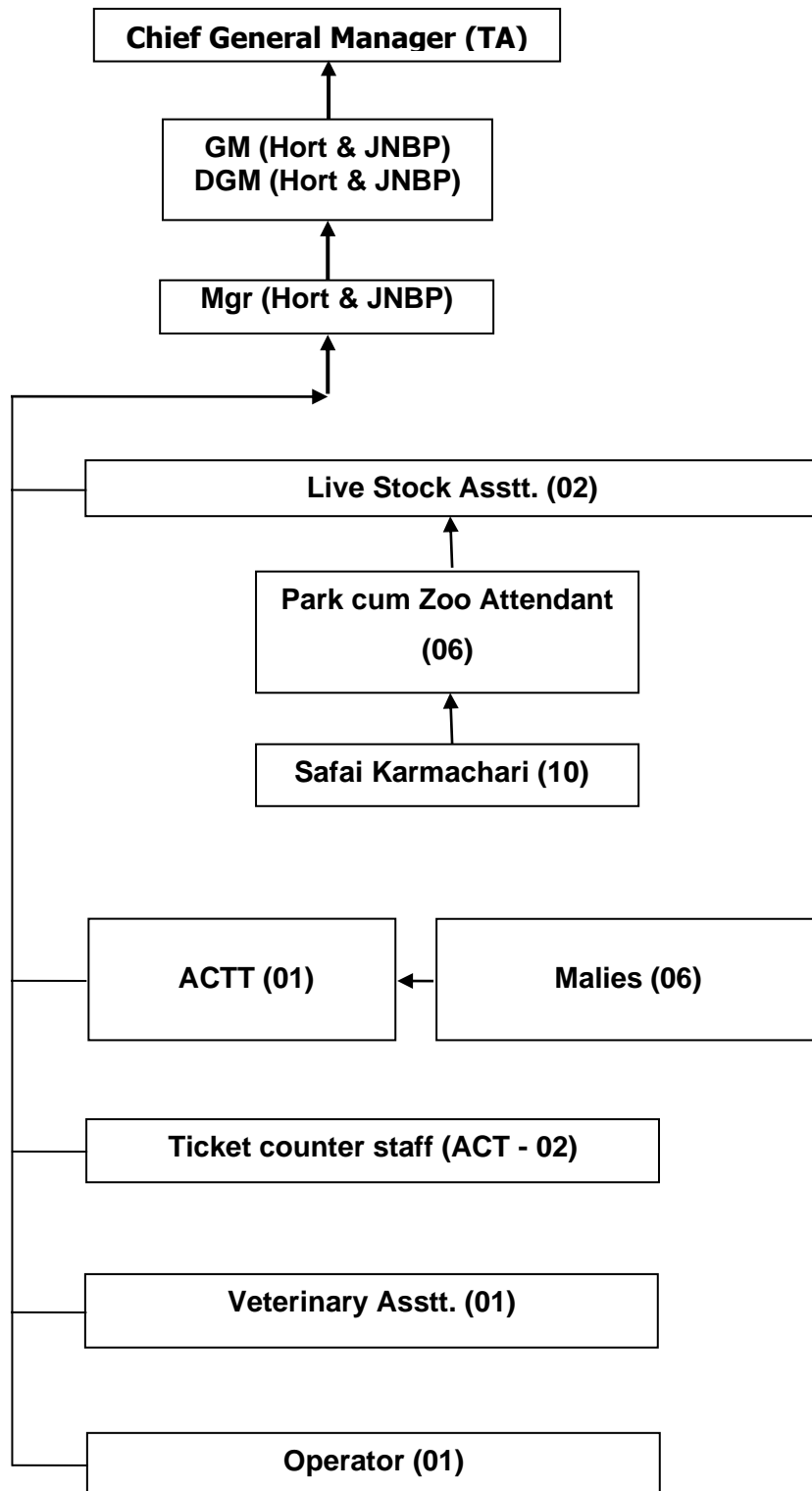
- Officer in – charge : Sri Samrendra Jha

❖ **OPERATOR OF THE ZOO**

- Name of Operator : CGM (TA), SAIL/BSL
- Address of Operator : SAIL, Bokaro Steel Plant,
Bokaro Steel City - 827001, Jharkhand
- Contact Details : Ph – (06542)242305
- E-mail Address : cgmtabsl@gmail.com



ORGANIZATIONAL CHART OF THE ZOO



HUMAN RESOURCES**MANPOWER OF THE ZOO**

| S N - | Designation | Employee Name | Email | Contact Number |
|-------------|---------------------------------------|---|---------------------------|----------------|
| 1 | Officer-in-Charge/Zoo Director | Sri Samrendra Jha | samrendraji1964@gmail.com | 8986872622 |
| 2 | Curator | Sri Amar Nath Ghosh | | |
| 3 | Veterinarian | Dr G Chakraborty | | |
| 4 | Biologist | Mr Sahil Shivam | | |
| 5 | Education Officer | Mr Sahil Shivam | | |
| 6 | Stockman / Compounder / Animal Keeper | Md M Beg, H Bauri, U Naik, Sk A Raffique, G Prasad, A Ansari, B Bara, B Manjhi, S K Ojha, Alisha, R Murmu | | |
| | | 01 Person for Assist in veterinary aid on outsourcing basis | | |
| | | 16 persons are working on outsourcing basis | | |
| 7 | Laboratory Assistant | | | |

CAPACITY BUILDING OF ZOO PERSONNEL

| Sl. No. | Name | Designation | Subject matter of training | Period of training | Name of the Institution where the Training attended |
|---------|------|-------------|----------------------------|--------------------|---|
| NA | NA | NA | NA | NA | NA |

ZOO ADVISORY COMMITTEE

- a. Date of Constitution : 2018
- b. Member Name : Designation
- Sri Samrendra Jha : DGM(Horticulture & JNB Park)
- Sri V K Singh : GM(TE - Civil)
- Sri Rajul Harkerni : GM(TE - Electrical)
- Sri A K Awinash : GM(TE - Water Supply)
- Sri S Tiwari : GM(TE - Public Health)
- c. Meetings : 02.04.2021 & 01.10.2021

HEALTH ADVISORY COMMITTEE

- a. Date of Constitution : 2018
- b. Member Name : Designation
- Dr Mukesh Sinha : District Animal Husbandry Officer, Bokaro
- Dr G Chakraborty : Veterinarian, JNB Park
- c. Meetings : 01.04.2021 & 02.10.2021

STATEMENT OF INCOME AND EXPENDITURE

Income (Rs.) : 21.37 lakhs

Expense (Rs.) : 157.50 lakhs

DAILY FEED SCHEDULE OF ANIMALS

| Sl No | Species | Feed item | Quantity (Unit - kg) | | Day of fasting |
|-------|--------------|----------------------|----------------------|--------|----------------|
| | | | Winter | Summer | |
| 1 | Barking Deer | Deer Mash | 0.500 | 0.500 | |
| | | Green Grass / Leaves | 2.500 | 2.500 | |
| 2 | Blackbuck | Deer Mash | 0.750 | 0.750 | |
| | | Green Grass / Leaves | 2.500 | 2.500 | |
| 3 | Budgerigar | Cheena Seed | 0.010 | 0.010 | |
| 4 | Cockatiel | Cheena Seed | 0.020 | 0.020 | |
| | | Palak / Genary saag | 0.025 | 0.025 | |

| | | | | |
|-----------------------|-----------------|-----------------------------|------------------|---------------|
| 5 | Emu | Apple / Mango | 0.150 | 0.150 |
| | | Banana (in nos) | 3.000 | 3.000 |
| | | Cabbage | 0.100 | 0.100 |
| | | Palak / Genary saag | 0.250 | 0.250 |
| | | Pulse Grain Mix | 0.500 | 0.500 |
| 6 | Him. Black Bear | Apple / Mango | 0.250 | 0.250 |
| | | Banana (in nos) | 10.000 | 10.000 |
| | | Black Urad Dal | 0.075 | 0.075 |
| | | Bread | 0.525 | 0.525 |
| | | Carrot / Cucumber | 0.750 | 0.750 |
| | | Honey (per year) | 1.500 | 1.500 |
| | | Milk (in ltr) | 1.000 | 1.000 |
| | | Potato | 0.500 | 0.500 |
| | | Pumpkin / Water Melon | 0.500 | 0.500 |
| | | Rice Usna | 0.750 | 0.750 |
| | | Sweet Potato / Barbati | 0.750 | 0.750 |
| 7 | Hippopotamus | Banana (in nos) | 22.000 | 22.000 |
| | | Cabbage | 1.000 | 1.000 |
| | | Carrot / Cucumber | 2.000 | 2.000 |
| | | Deer Mash | 10.000 | 10.000 |
| | | Kaddu | 1.000 | 1.000 |
| | | Kutti | 5.000 | 5.000 |
| | | Potato | 2.250 | 2.250 |
| | | Raddish | 0.500 | 0.500 |
| | | Tomato | 0.500 | 0.500 |
| | | Green Grass / Leaves | 35.000 | 35.000 |
| | | 8 | Indian Porcupine | Apple / Mango |
| Carrot / Cucumber | 0.150 | | | 0.150 |
| Gram Gota (Soaked) | 0.100 | | | 0.100 |
| Banana (in nos) | 2.000 | | | 2.000 |
| Pumpkin / Water Melon | 0.100 | | | 0.100 |
| 9 | Langur | Banana (in nos) | 4.000 | 4.000 |
| | | Bread | 0.050 | 0.050 |
| | | Brinjal | 0.100 | 0.100 |
| | | Carrot / Cucumber | 0.150 | 0.150 |
| | | Gram Gota (Soaked) | 0.075 | 0.075 |
| | | Kaddu | 0.050 | 0.050 |
| | | Ladies finger / French bean | 0.050 | 0.050 |
| | | Potato | 0.075 | 0.075 |
| | | Pumpkin / Water Melon | 0.075 | 0.075 |
| | | Raddish | 0.075 | 0.075 |

| | | | | | |
|----|--------------|-----------------------------|--------|--------|--------|
| | | Sweet Potato / Barbati | 0.150 | 0.150 | |
| 10 | Leopard | Chicken | 5.000 | 5.000 | Monday |
| 11 | Love bird | Palak / Genary saag | 0.025 | 0.025 | |
| | | Cheena Seed | 0.020 | 0.020 | |
| 12 | Monkey | Banana (in nos) | 3.000 | 3.000 | |
| | | Bread | 0.050 | 0.050 | |
| | | Brinjal | 0.075 | 0.075 | |
| | | Carrot / Cucumber | 0.100 | 0.100 | |
| | | Gram Gota (Soaked) | 0.050 | 0.050 | |
| | | Kaddu | 0.050 | 0.050 | |
| | | Ladies finger / French bean | 0.050 | 0.050 | |
| | | Potato | 0.050 | 0.050 | |
| | | Pumpkin / Water Melon | 0.050 | 0.050 | |
| | | Raddish | 0.050 | 0.050 | |
| | | Sweet Potato / Barbati | 0.100 | 0.100 | |
| 13 | Parakeet | Apple / Mango | 0.020 | 0.020 | |
| | | Banana (in nos) | 0.500 | 0.500 | |
| | | Chilli | 0.005 | 0.005 | |
| | | Gram Gota (Soaked) | 0.020 | 0.020 | |
| 14 | Peafowl | Garlic | 0.010 | 0.010 | |
| | | Onion | 0.025 | 0.025 | |
| | | Pulse Grain Mix | 0.100 | 0.100 | |
| | | Palak / Genary saag | 0.075 | 0.075 | |
| 15 | Pheasant | Garlic | 0.010 | 0.010 | |
| | | Palak / Genary saag | 0.100 | 0.100 | |
| | | Pulse Grain Mix | 0.075 | 0.075 | |
| 16 | Python | Live Chicken (per week) | 1.250 | 1.250 | |
| 17 | Rosy Pelican | Telopia fish | 1.250 | 1.250 | |
| 18 | Sambar | Deer Mash | 2.000 | 2.000 | |
| | | Kutti | 1.500 | 1.500 | |
| | | Green Grass / Leaves | 10.000 | 10.000 | |
| 19 | Spotted Deer | Deer Mash | 0.750 | 0.750 | |
| | | Green Grass / Leaves | 2.500 | 2.500 | |
| 20 | Tiger | Goat Meat | 10.000 | 10.000 | Monday |

VACCINATION SCHEDULE OF ANIMALS

| Sl No | Species | Disease Vaccinated for | Name of the vaccine | Dosage | Qty | Periodicity | Remarks | Month |
|-------|---------|------------------------|---------------------|------------|-----|-------------|---------|-------------------|
| 01 | Leopard | Trypanoso -miasis | Inj. Triquin | 1 ml SC | 1 | 06 months | | July & January |
| 02 | Tiger | Trypanoso -miasis | Inj. Triquin | 3 ml SC | 1 | 06 months | | July & January |

DE-WORMING SCHEDULE OF ANIMALS

| Sl No | Species | Drug used | Periodicity | Month |
|-------|-----------------------|--------------|-------------|-------------------|
| 01 | Hippopotamus | Fenbendazole | 06 months | May & November |
| 02. | Leopard | Fenbendazole | 06 months | May & November |
| 03. | Tiger | Fenbendazole | 06 months | May & November |
| 04. | Himalayan Black Bear | Fenbendazole | 06 months | May & November |
| 05. | Sambar | Fenbendazole | 06 months | May & November |
| 06. | Blackbuck | Albendazole | 06 months | May & November |
| 07. | Spotted deer | Albendazole | 06 months | May & November |
| 08. | Barking deer | Albendazole | 06 months | May & November |
| 09. | Monkey and Langur | Fenbendazole | 06 months | May & November |
| 10. | Peafowl & Other birds | Albendazole | 06 months | May & November |
| 11. | Python | Fenbendazole | Yearly | July |

DISINFECTATION SCHEDULE

| Sl. | Species | Type of enclosures | Disinfectant used | Disinfectant method | Frequency of disinfection |
|-----|----------------------|---------------------------------|------------------------|---------------------|---------------------------|
| 1. | Leopard | Night shelter rooms | Sodium bicarbonate | Water solution used | Once after 15 days |
| 2. | Tiger | Night shelter rooms | Sodium bicarbonate | Water solution used | Once after 15 days |
| 3. | Himalayan Black Bear | Night shelter rooms | Potassium permanganate | Water solution used | Once after 15 days |
| 4. | Monkey and Langur | Night shelter rooms | Potassium permanganate | Water solution used | Once after 15 days |
| 5. | Hippopotamus | Water moat | Potassium permanganate | Water solution used | Once after 15 days |
| 6. | Python | Room | Sodium bicarbonate | Water solution used | Once after 15 days |
| 7. | Blackbuck | Feeding platform & drinking pot | Potassium permanganate | Water solution used | Once after 15 days |
| 8. | Peafowl | Feeding platform & drinking pot | Potassium permanganate | Water solution used | Once after 15 days |

HEALTH CHECK-UP OF EMPLOYEES FOR ZOO NOTIC DISEASES

The employees of JNB Park have been screened against zoonotic diseases at Bokaro General Hospital, Bokaro.

| SI No | Name | Designation | Date of Health Check-up | Findings of Health Check-up |
|-------|------------------|-----------------|-------------------------|-----------------------------|
| 01 | Samrendra Jha | DGM | 10.05.2021 | Good Health |
| 02 | Dr G Chakraborty | Veterinarian | 10.05.2021 | Good Health |
| 03 | Amar Nath Ghosh | Mgr | 10.05.2021 | Good Health |
| 04 | Sahil Shivam | ACTT | 10.05.2021 | Good Health |
| 05 | Md M Beg | Live St. Asstt. | 17.05.2021 | Good Health |
| 06 | H Bauri | Live St. Asstt. | 17.05.2021 | Good Health |
| 07 | B Bara | P/Z Atten. | 17.05.2021 | Good Health |
| 08 | U Naik | P/Z Atten. | 24.05.2021 | Good Health |
| 09 | Sk A Raffique | P/Z Atten. | 24.05.2021 | Good Health |
| 10 | B Manjhi | P/Z Atten. | 24.05.2021 | Good Health |
| 11 | G Prasad | P/Z Atten. | 24.05.2021 | Good Health |
| 12 | A Ansari | P/Z Atten. | 31.05.2021 | Good Health |
| 13 | Alisha | ACT | 31.05.2021 | Good Health |
| 14 | R Murmu | ACT | 31.05.2021 | Good Health |

DEVELOPMENT WORKS CARRIED OUT IN THE ZOO DURING THE YEAR

Various development works were carried out at JNB Park during the year 2021-22 as per detailed below:

1. Aquarium's big overhead water tank was repaired.
2. Broken and rusted stand-off barriers replaced.
3. Damaged boundary wall of the park was repaired.

EDUCATION & AWARENESS PROGRAMME DURING THE YEAR

Efforts are being made for conservation of wildlife on global level. Laws are also being enacted for its protection. But the protection of wildlife is not just a matter of legislation, it requires creation of awareness in the mind of the masses about the role and importance of wildlife. Being a wildlife concern, JNB Park has always been making sincere efforts to generate the feeling of compassion towards wildlife in the mind of masses by conducting educational campaign and programme from time to time for the voiceless too. Educational programme and conservation awareness activities have always been given priority in our Park.

Wildlife Week has been celebrated on 07th October 2021 for achieving national effort towards conservation and education awareness. On this occasion, debate and quiz competition was held amongst BSL School students.

IMPORTANT EVENTS & HAPPENINGS

Acquisitions of 1 Himalayan Black Bear, 2 Porcupine and 3 Sambar deer from Bhagwan Birsa Biological Park, Ranchi in April'2021.

JNB Park remains closed to visitors from 08.04.2021 to 30.06.2021 and 03.01.2022 to 28.02.2022 due to pandemic of COVID-19.

SEASONAL SPECIAL ARRANGEMENTS FOR UPKEEP OF ANIMALS

During the winter season of the year care is taken for proper upkeep of animals. Curtains have been put on the windows of the enclosures of leopard, tigress and lioness. Room heaters are provided in the enclosures of carnivores. Straws are being provided in the enclosures of birds, python, deers, blackbucks, etc.

During summer, fiber sheet shed has been provided on the hippo water pool. Fans and coolers have been provided in the enclosures of carnivores. Water tank of hippo, himalayan black bear, tigress are being kept full round the clock. Succulent fruits and vegetables are being provided to primates and himalayan black bear.

Bird enclosure is covered with fiber sheet and wet gunny bag sheets are provided in the wall to protect birds from heat. Spraying of water is done in floors and display areas.

All animals are provided with electrolyte powder and Vit B complex during this period.

RESEARCH WORK CARRIED OUT AND PUBLICATIONS

CONSERVATION BREEDING PROGRAMME OF THE ZOO

08 Peafowl cheeks, 02 Blackbuck kids, 01 Barking deer fawn, 01 young Indian Porcupine and 01 Sambar deer fawn born during this year.

ANIMAL ACQUISITION / TRANSFER / EXCHANGE DURING THE YEAR

| A. Animals arriving in the Zoo | | | | | |
|--------------------------------|--------------------------------|----------------------|--------------|---------------------------------------|----------------------------|
| Sl No | H. No. | Species | Number (M:F) | From which Zoo | Date of arrival in the Zoo |
| 1 | Himalayan Black Bear enclosure | Himalayan Black Bear | 1:0 | Bhagwan Birsa Biological Park, Ranchi | 07.04.2021 |
| 2 | Sambar enclosure | Sambar Deer | 1:2 | Bhagwan Birsa Biological Park, Ranchi | 20.04.2021 |
| 3 | Porcupine enclosure | Indian Porcupine | 1:1 | Bhagwan Birsa Biological Park, Ranchi | 07.04.2021 |

| B. Animals going from the Zoo | | | | | |
|--------------------------------------|---------------|----------------|---------------------|---------------------------|--|
| Sl No | H. No. | Species | Number (M:F) | Going to which Zoo | Date of deposition from the Zoo |
| - | - | - | - | - | - |

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 |
| - | - | - | - | - | - | - |

ANNUAL INVENTORY OF ANIMALS**Part - A****Inventory Report for the year: 2021-22**

| Endangered Species (Schedule I and II) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------|---------------------------------|--------------------------------|-----------|----------|-----------|----------|----------|----------|--------------|----------|----------|-----------|----------|----------|----------|----------|----------|--------------------------------|----------|----------|-----------|-----------|-----------|------------|----------|----------|---|
| S. No. | ANIMAL NAME | SCIENTIFIC NAME | OPENING STOCK as on 01.04.2021 | | | | BIRTHS | | | ACQUISITIONS | | | DISPOSALS | | | DEATHS | | | CLOSING STOCK as on 31.03.2022 | | | | | | | | | |
| | | | M | F | U | T | M | F | U | M | F | U | M | F | U | M | F | U | M | F | U | T | | | | | | |
| AVES | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Indian Peafowl | <i>Pavo cristatus</i> | 3 | 2 | 0 | 5 | 2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 8 | 0 | 13 | | | | |
| Total Aves | | 1 | 3 | 2 | 0 | 5 | 2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 8 | 0 | 13 | | | | |
| MAMMALIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Blackbuck | <i>Antilope cervicapra</i> | 20 | 26 | 0 | 46 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 20 | 27 | 0 | 47 | | |
| 2 | Macaque Rhesus | <i>Macaca mulatta</i> | 11 | 6 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 6 | 0 | 17 | |
| 3 | Macaque Bonnet | <i>Macaca radiata</i> | 3 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | |
| 4 | Leopard (Panther) | <i>Panthera pardus</i> | 0 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | |
| 5 | Tiger Bengal | <i>Panthera tigris tigris</i> | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | |
| 6 | Bengal Hanuman Langur | <i>Semnopithecus entellus</i> | 10 | 4 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 4 | 0 | 14 | |
| 7 | Himalayan Black Bear | <i>Ursus thibetanus laniger</i> | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | |
| Total Mammalia | | 7 | 44 | 44 | 0 | 88 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 45 | 45 | 0 | 90 | | | |
| REPTILIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Python Indian - Rock | <i>Python molurus</i> | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 |
| Total Reptilia | | 1 | 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 | |
| Total of Endangered Species | | | 48 | 47 | 0 | 95 | 2 | 8 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 51 | 54 | 0 | 105 | | | |

| PART – B (Other than Endangered Species) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------------------|---------------------------------|--------------------------------|------------|----------|------------|----------|-----------|----------|--------------|----------|----------|-----------|----------|----------|----------|----------|----------|--------------------------------|------------|-----------|------------|-----------|----|---|----|---|
| S. No. | ANIMAL NAME | SCIENTIFIC NAME | OPENING STOCK as on 01.04.2021 | | | | BIRTHS | | | ACQUISITIONS | | | DISPOSALS | | | DEATHS | | | CLOSING STOCK as on 31.03.2022 | | | | | | | | |
| | | | M | F | U | T | M | F | U | M | F | U | M | F | U | M | F | U | M | F | U | T | | | | | |
| AVES | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Lovebird | <i>Agapornis roseicollis</i> | 4 | 4 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 8 | | | | |
| 2 | Lady Amherst's Pheasant | <i>Chrysolophus amherstiae</i> | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | | | | |
| 3 | Emu | <i>Dromaius novaehollandiae</i> | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 3 | | | | |
| 4 | Budgeriger | <i>Melopsittacus undulatus</i> | 30 | 30 | 0 | 60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 30 | 0 | 60 | | | | |
| 5 | Cockatiel | <i>Nymphicus hollandicus</i> | 4 | 4 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 8 | | | | |
| 6 | Great White Pelical | <i>Pelecanus onocrotalus</i> | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | | | | |
| 7 | Parakeet Alexandrine | <i>Psittacula eupatria</i> | 2 | 3 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 5 | | | | |
| 8 | Parakeet Rose Ring | <i>Psittacula krameri</i> | 2 | 3 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 5 | | | | |
| Total Aves | | 8 | 46 | 46 | 0 | 92 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46 | 46 | 0 | 92 | | | | |
| MAMMALIA | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Deer Spotted (Chital) | <i>Axis axis</i> | 28 | 25 | 0 | 53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 27 | 24 | 0 | 51 | |
| 2 | Nilgai - Blue Bull | <i>Boselaphus tragocamelus</i> | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 3 | Hippopotamus | <i>Hippopotamus amphibius</i> | 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 |
| 4 | Indian Crested Porcupine | <i>Hystrix indica</i> | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 4 | | | |
| 5 | Indian Muntjac | <i>Muntiacus muntjak</i> | 4 | 9 | 0 | 13 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 10 | 0 | 14 | | | | |
| 6 | Deer Sambar | <i>Rusa unicolor</i> | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 2 | 0 | 3 | | | | |
| Total Mammalia | | 6 | 35 | 36 | 0 | 71 | 0 | 3 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 0 | 35 | 38 | 0 | 73 | | | | |
| Total of Other than Endangered Species | | | 81 | 82 | 0 | 163 | 0 | 3 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 2 | 4 | 0 | 81 | 84 | 0 | 165 | | | | | |
| Grand Total | | | 129 | 129 | 0 | 258 | 2 | 11 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 2 | 5 | 0 | 132 | 138 | 0 | 270 | | | | | |

MORTALITY OF ANIMALS

| Sl. No. | Animal Name (with individual identification mark, if any) | Scientific Name | Sex | Date of Death | Reason of Death as per the Post-mortem report |
|---------|---|-------------------------|--------|---------------|---|
| 1 | Sambar Deer | Rusa unicolor | Female | 05-05-2021 | Old age |
| 2 | Sambar Deer | Rusa unicolor | Female | 21-01-2022 | Old age |
| 3 | Chital/ Spotted Deer | Axis axis | Female | 25-02-2022 | Old age |
| 4 | Chital/ Spotted Deer | Axis axis | Male | 22-02-2022 | Traumatic Injury |
| 5 | Nilgai | Boselaphus tragocamelus | Male | 06-01-2022 | Old age |
| 6 | Sambar Deer | Rusa unicolor | Female | 13-07-2021 | Heat stroke |
| 7 | Blackbuck | Antelope cervicapra | Female | 20-02-2022 | Shock due to dystocia. |

COMPLIANCE WITH CONDITIONS STIPULATED BY THE CENTRAL ZOO AUTHORITY

| Sl No | Norm No Under RZR, 2009 | Condition Stipulated | Time period to comply | Status with regard to compliance of the conditions |
|-------|---|---|-----------------------|--|
| | 1. General Requirements | | | |
| 1 | 10.1(8) | The lone tigress is very weak and with docked tail and hence should not be displayed to the visitors. | Immediately | The tigress is kept in non-display area. |
| | 2. Administration and staffing pattern | | | |
| 2 | 10.2(1) | No whole-time in-charge with power to take decision and ensuring financial | Immediately | Whole - time In-charge appointed. |

| | | | | |
|--|----------|--|--------------|--|
| | | resources “Whole time in-charge” of the zoo should be appointed in compliance with the Recognition of Rules, 2009. | | |
| 3 | 10.2(2) | Trained scientific and technical staff as per norms prescribed for a Medium zoo should be appointed. | One year | Proper scientific and technical staff posted. |
| 4 | 10.2(2) | It is not advisable to post the non-technical staff (Crane Operator / Senior Operatives) in the zoo for animal keeping and should be posted out of the zoo forthwith. Till such time, they are not posted out, they should not be allowed to handle any sensitive tasks related to the health, hygiene and feeding of the zoo animals. | Three months | Proposal sent for posting outside the park accordingly. |
| 4. Animal housing, display of animals and animal enclosures | | | | |
| 5 | 10.4(3) | Night shelters or feeding cells should be made rodent and snake proof. Gaps between the wall and door of Kraal as well as fence and floor in carnivore’s cells should be reduced to avoid accidental attack by the animals on keepers. | Six months | Night shelters have been repaired and made rodent and snake proof. |
| 6 | 10.4(9) | Some of the stand-off barriers are broken and badly rusted. These need to be immediately replaced. Some large hoardings are in dilapidated condition and not readable. Same should be replaced and also source of information may be mentioned. | One month | Broken stand - off barriers replaced. |
| 7 | 10.4(10) | Adequate number of signage’s with precise information and effective conservation message should be installed | Six months | Signage’s with information and conservation message installed. |
| 8 | 10.4(10) | An old building has been designated as | One year | One staff has been |

| | | | | |
|--|---------|--|--------------|---|
| | | interpretation centre but non-functional in want of staff and facility. Interpretation Centre should be started on priority with appointment of an Information Officer. | | entrusted to run interpretation centre. |
| 5. Upkeep and healthcare of animals | | | | |
| 9 | 10.9(4) | Several animals are single such as lioness, tigress, hippopotamus and Himalayan bear. These should either be paired or translocated to some other zoos with prior approval of the CZA. | One year | Himalayan bear has been paired after acquisition of one male bear from Ranchi Zoo. For hippo, JNB Park is in contact with various zoos. At present park is having no stock of Lion and Tiger. |
| 10 | 10.5(2) | Large cats are given goat meat instead of ideal buffalo meat. Necessary permission should be obtained from District Authority to get buffalo meat and in consultation with the Bhagwan Birsa Biological Park, Ranchi. | Three months | At this moment no licence has been issued to vendors to slaughter and supply buffalo meat at Bokaro Dist. |
| 11 | 10.5(2) | Periodically, random samples from feed and fodder are not sent to laboratory analysis for toxicological assessment. Similarly, meat samples are not sent for microbiological tests. This practice is essential for keeping quality check on feed and meat being supplied in zoo and should be introduced in the zoo. | Six months | Fresh and wholesome feed is being provided to zoo animals. |
| 12 | 10.5(3) | Leftover meat should be collected timely and disposed of by burning. The leftover greens may be used for composting in pit away from animal houses. | Immediately | Leftover meat / greens are disposed off properly as per guidelines. |
| 6. Veterinary and infrastructure facilities | | | | |
| 13 | 10.6(6) | The staff should be deputed to zoos identified as centres of excellence and | Six months | The staffs are being deputed time to time to |

| | | | | |
|--|----------|--|-------------|---|
| | | eminent institutions and organizations working in the field of wild animal healthcare for formal training to enhance their technical skill. | | eminent institutions for formal training to enhance their technical skill for animal health care. |
| 14 | 10.6(5) | The Lab Assistant and the Stockman / Compounder should be appointed in the zoo. | Six months | One trained staff had been engaged as compounder. |
| 7. Post-mortem and disposal of carcasses of animals | | | | |
| 15 | 10.7(4) | Post-mortem room should have better drainage, light and water facility. There should be cabin to store disinfectants, protective, coverings PM kit, sample collection bottles, etc. and footbath at the exist of PM hall. There should be provision of treating liquid waste before releasing to drainage. Adjacent to PM room, there should be carcasses disposal facility (oil-fired incinerator) of adequate capacity and conforming to CPCB norms. | Six months | Civil repair work completed for the same. |
| 12. Visitors facilities | | | | |
| 16 | 10.12(2) | Lifesaving emergency veterinary drugs should be available all times in zoo hospital. | Immediately | Lifesaving emergency veterinary drugs have been kept at zoo hospital. |

FREE LIVING ANIMALS WITHIN THE ZOO PREMISES

JNB Park has adopted broad taxonomic display of wild animal species of the area.

Free Ranging Category of Mammals, Birds and Reptiles :

- a. **Mammals** : In the free ranging category of Mammals, we find Jackals, foxes, mongoose abundantly moving around the Park area.

- b. **Birds** : Bird species of various types are generally found inside the park area. This includes little cormorant, crow pheasant, koel, water hen, king fisher, rose ring parakeet, hoopoe, owl, oriole, wood pecker, drongo, babbler, Indian Myna, Pahari Myna, Tree pie, Bulbul, Dove, Pigeon, Magpie Robin, Wagtail, Flower Pecker, etc excluding migratory birds.
- c. **Reptiles** : Reptiles like Pythons, Cobras, Dhamins, Kraits are seen frequently in the area.

