

# Jawaharlal Nehru Biological Park

Bokaro, Jharkhand

ANNUAL REPORT FOR THE YEAR

**2022-23**



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## **REPORT OF THE OFFICER IN-CHARGE**

I feel immense pleasure to present the Annual Report of Jawaharlal Nehru Park, Bokaro for the year 2022-23. During this year under the guidance of CGM (TA), various developmental activities were initiated at JNB Park.

Repair of park aquarium building and 10 tower lights were installed inside the park for proper lighting, which will help in watch and ward duty by security staff. During this year, various Educational and Awareness Programme were carried out in the park on the occasion of World Environment Day, Wildlife Week, etc.

Park gives high priority for cleanliness and maintenance of greenery throughout the year. About 500 tree saplings were planted during this year.

I acknowledge the hard work put in by the dedicated team of JNB Park 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](mailto: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: 19<sup>th</sup> August'2022
- Category of zoo : Medium Zoo
- Area (in hectares) : 51.160

- Number of visitors : Adult - 1,46,720  
(2022 - 23) Children - 1,56,309  
Total Visitors - 3,03,029
- 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

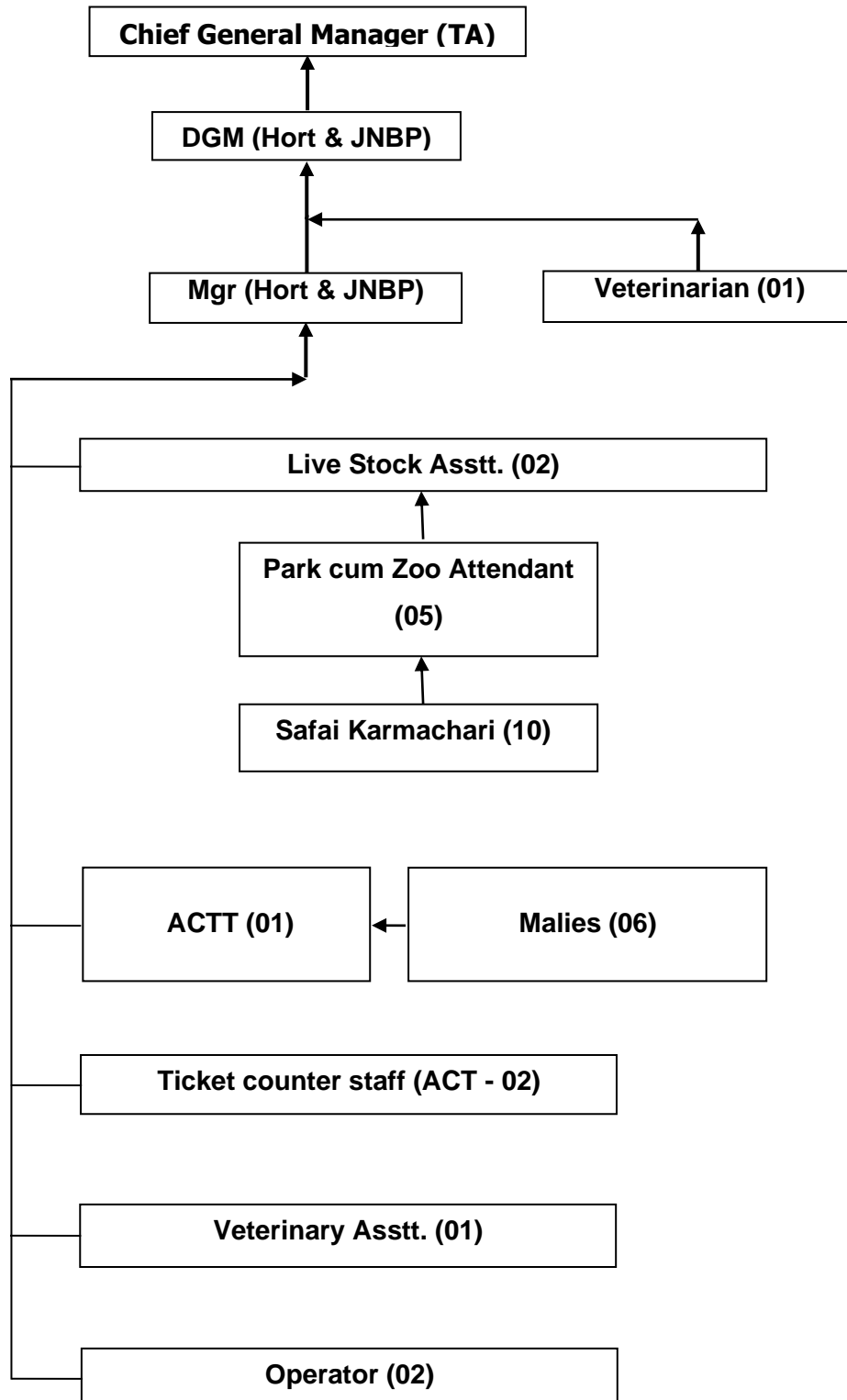
- Officer in - charge : Sri Samrendra Jha

#### ❖ 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**

<b>S N -</b>	<b>Designation</b>	<b>Employee Name</b>	<b>Email</b>	<b>Contact Number</b>
1	Officer-in-Charge/Zoo Director	Sri Samrendra Jha	samrendraji 1964@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, R P Ravidas, 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**

<b>Sl. No.</b>	<b>Name</b>	<b>Designation</b>	<b>Subject matter of training</b>	<b>Period of training</b>	<b>Name of the Institution where the Training attended</b>
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)
- Md Tasneem Salam : GM(TE - Public Health)
- c. Meetings : 04.04.2022 & 03.10.2022

**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 : 05.04.2022 & 04.10.2022

**STATEMENT OF INCOME AND EXPENDITURE**

Income (Rs.) : 45.58 lakhs

Expense (Rs.) : 153 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

**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.	Himalayan Black Bear	Fenbendazole	06 months	May & November
04.	Sambar	Fenbendazole	06 months	May & November
05.	Blackbuck	Albendazole	06 months	May & November
06.	Spotted deer	Albendazole	06 months	May & November
07.	Barking deer	Albendazole	06 months	May & November
08.	Monkey and Langur	Fenbendazole	06 months	May & November
09.	Peafowl & Other birds	Albendazole	06 months	May & November
10.	Python	Fenbendazole	Yearly	July

**DISINFECTATION SCHEDULE**

<b>Sl.</b>	<b>Species</b>	<b>Type of enclosures</b>	<b>Disinfectant used</b>	<b>Disinfectant method</b>	<b>Frequency of disinfection</b>
1.	Leopard	Night shelter rooms	Sodium bicarbonate	Water solution used	Once after 15 days
2.	Himalayan Black Bear	Night shelter rooms	Potassium permanganate	Water solution used	Once after 15 days
3.	Monkey and Langur	Night shelter rooms	Potassium permanganate	Water solution used	Once after 15 days
4.	Hippopotamus	Water moat	Potassium permanganate	Water solution used	Once after 15 days
5.	Python	Room	Sodium bicarbonate	Water solution used	Once after 15 days
6.	Blackbuck	Feeding platform & drinking pot	Potassium permanganate	Water solution used	Once after 15 days
7.	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	11.05.2022	Good Health
02	Dr G Chakraborty	Veterinarian	11.05.2022	Good Health
03	Amar Nath Ghosh	Mgr	11.05.2022	Good Health
04	Sahil Shivam	ACTT	11.05.2022	Good Health
05	Md M Beg	Live St. Asstt.	25.05.2022	Good Health
06	H Bauri	Live St. Asstt.	18.05.2022	Good Health
07	B Bara	P/Z Atten.	18.05.2022	Good Health
08	Sk A Raffique	P/Z Atten.	18.05.2022	Good Health
09	B Manjhi	P/Z Atten.	18.05.2022	Good Health
10	G Prasad	P/Z Atten.	18.05.2022	Good Health
11	A Ansari	P/Z Atten.	25.05.2022	Good Health
12	Alisha	ACT	25.05.2022	Good Health
13	R Murmu	ACT	25.05.2022	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. Post -mortem room was repaired as per specifications.
2. Renovation work of the aquarium building is in progress.
3. Damaged boundary wall of the park was repaired.

4. Under the new lighting arrangement in the park, 10 high mask tower lights were installed.

## **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.

**World Environment Day** was celebrated with great zeal and enthusiasms on 05<sup>th</sup> June 2022. Tree plantation, up-rooting of parthenium, special cleaning programme of enclosures, interaction with the visitors were arranged.

**Wildlife Week** has been celebrated on 07<sup>th</sup> October 2022 for achieving national effort towards conservation and education awareness. On this occasion, BSL School students participated. On this occasion, debate and quiz competition was held amongst students of class 08 & 09. Students are briefed about park.

## **IMPORTANT EVENTS & HAPPENINGS**

A massive tree plantation drive was undertaken by JNB Park under the guidance of CGM (TA). About 500 tree saplings of various species were planted inside the JNB Park in the year 2022-23 before the onset of monsoon to make the Bokaro Steel City green and clean.

## **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**

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## **CONSERVATION BREEDING PROGRAMME OF THE ZOO**

06 Blackbuck kids, 05 young Alexandrine Parakeet and 03 Rose - ringed Parakeet born during this year.

## **ANIMAL ACQUISITION / TRANSFER / EXCHANGE DURING THE YEAR**

<b>A. Animals arriving in the Zoo</b>					
<b>Sl No</b>	<b>H. No.</b>	<b>Species</b>	<b>Number (M:F)</b>	<b>From which Zoo</b>	<b>Date of arrival in the Zoo</b>
-	-	-	-	-	-

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

## RESCUE AND REHABILITATION OF WILD ANIMALS CARRIED OUT BY THE ZOO

<b>Sl No</b>	<b>Date of Rescue</b>	<b>Species with number of animals rescued with their sex (M:F:U:T)</b>	<b>Received from</b>	<b>Date of Submission of Report to the CWLW/ CZA</b>	<b>Action taken</b>	
					<b>Date and place of rehabilitation in their habitat</b>	<b>Reasons for housing in the zoo, if not released in their habitat</b>
-	-	-	-	-	-	-

**ANNUAL INVENTORY OF ANIMALS****Part - A****Inventory Report for the year: 2022-23**

Endangered Species (Schedule I and II)																						
S. No.	ANIMAL NAME	SCIENTIFIC NAME	OPENING STOCK as on 01.04.2022				BIRTHS			ACQUISITIONS			DISPOSALS			DEATHS			CLOSING STOCK as on 31.03.2023			
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
<b>AVES</b>																						
1	Indian Peafowl	<i>Pavo cristatus</i>	5	8	0	13	0	0	0	0	0	0	0	0	0	2	1	0	3	7	0	10
<b>Total Aves</b>		<b>1</b>	<b>5</b>	<b>8</b>	<b>0</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>7</b>	<b>0</b>	<b>10</b>
<b>MAMMALIA</b>																						
1	Blackbuck	<i>Antilope cervicapra</i>	20	27	0	47	1	5	0	0	0	0	0	0	0	1	0	0	21	31	0	52
2	Macaque Rhesus	<i>Macaca mulatta</i>	11	6	0	17	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	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	5	0	5
5	Tiger Bengal	<i>Panthera tigris tigris</i>	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
6	Bengal Hanuman Langur	<i>Semnopithecus entellus</i>	10	4	0	14	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>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
<b>Total Mammalia</b>		<b>7</b>	<b>45</b>	<b>45</b>	<b>0</b>	<b>90</b>	<b>1</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>46</b>	<b>48</b>	<b>0</b>	<b>94</b>
<b>REPTILIA</b>																						
1	Python Indian - Rock	<i>Python molurus</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
<b>Total Reptilia</b>		<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>2</b>
<b>Total of Endangered Species</b>			<b>51</b>	<b>54</b>	<b>0</b>	<b>105</b>	<b>1</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>50</b>	<b>56</b>	<b>0</b>	<b>106</b>	

PART – B (Other than Endangered Species)																									
S. No.	ANIMAL NAME	SCIENTIFIC NAME	OPENING STOCK as on 01.04.2022				BIRTHS			ACQUISITIONS			DISPOSALS			DEATHS			CLOSING STOCK as on 31.03.2023						
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T			
<b>AVES</b>																									
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	0	0	0	0		
3	Emu	<i>Dromaius novaehollandiae</i>	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	2	
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	4	1	0	0	0	0	0	0	0	0	0	0	0	6	4	0	10		
8	Parakeet Rose Ring	<i>Psittacula krameri</i>	2	3	0	5	2	1	0	0	0	0	0	0	0	0	0	0	0	4	4	0	8		
<b>Total Aves</b>		<b>8</b>	<b>46</b>	<b>46</b>	<b>0</b>	<b>92</b>	<b>6</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>51</b>	<b>47</b>	<b>0</b>	<b>98</b>
<b>MAMMALIA</b>																									
1	Deer Spotted (Chital)	<i>Axis axis</i>	27	24	0	51	0	0	0	0	0	0	0	0	0	0	0	0	0	27	24	0	51		
2	Hippopotamus	<i>Hippopotamus amphibius</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
3	Indian Crested Porcupine	<i>Hystrix indica</i>	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4		
4	Indian Muntjac	<i>Muntiacus muntjak</i>	4	10	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	4	10	0	14		
5	Deer Sambar	<i>Rusa unicolor</i>	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3		
<b>Total Mammalia</b>		<b>5</b>	<b>35</b>	<b>38</b>	<b>0</b>	<b>73</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35</b>	<b>38</b>	<b>0</b>	<b>73</b>		
<b>Total of Other than Endangered Species</b>			<b>81</b>	<b>84</b>	<b>0</b>	<b>165</b>	<b>6</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>86</b>	<b>85</b>	<b>0</b>	<b>171</b>
<b>Grand Total</b>			<b>132</b>	<b>138</b>	<b>0</b>	<b>270</b>	<b>7</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>4</b>	<b>0</b>	<b>136</b>	<b>141</b>	<b>0</b>	<b>277</b>

## 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	Bengal Tiger	<i>Panthera tigris tigris</i>	Female	01-04-2022	Cardio-Respiratory failure as a result of pneumonia.
2	Indian Peafowl	<i>Pavo cristatus</i>	Female	14-06-2022	Peahen died due to enteritis.
3	Lady Amherst's Pheasant	<i>Chrysolophus amherstiae</i>	Male	12-07-2022	Old age
4	Emu	<i>Dromaius novachollandiae</i>	Female	07-11-2022	Old age
5	Indian Peafowl	<i>Pavo cristatus</i>	Male	12-02-2023	Peafowl died due to old age.
6	Blackbuck	<i>Antelope cervicapra</i>	Female	20-03-2023	Shock due to dystocia.
7	Indian Peafowl	<i>Pavo cristatus</i>	Male	21-03-2023	Due to enteritis

## 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
	<b>1. General Requirements</b>			
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.
	<b>2. Administration and staffing pattern</b>			

2	10.2(1)	No whole-time in-charge with power to take decision and ensuring financial resources “Whole time in-charge” of the zoo should be appointed in compliance with the Recognition of Rules, 2009.	Immediately	Whole - time In-charge appointed.
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.
<b>4. Animal housing, display of animals and animal enclosures</b>				
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 interpretation centre but non-functional in want of staff and facility. Interpretation Centre should be started on priority with appointment of an Information Officer.	One year	One staff has been entrusted to run interpretation centre.
<b>5. Upkeep and healthcare of animals</b>				
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.
<b>6. Veterinary and infrastructure facilities</b>				
13	10.6(6)	The staff should be deputed to zoos	Six months	The staffs are being

		identified as centres of excellence and eminent institutions and organizations working in the field of wild animal healthcare for formal training to enhance their technical skill.		deputed time to time to 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.
<b>7. Post-mortem and disposal of carcasses of animals</b>				
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.
<b>12. Visitors facilities</b>				
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.

