



ANNUAL REPORT

# **Jawaharlal Nehru Biological Park**

**Bokaro, Jharkhand**

**(2016-17)**

Operator of the Zoo



**Steel Authority of India Limited**

**Bokaro Steel Plant**

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## MESSAGE

The park entered into 29<sup>th</sup> year of its establishment. It is a great moment of pleasure to us that the Master Plan of Jawaharlal Nehru Biological Park, Bokaro Steel City has been approved by Central Zoo Authority and which has been communicated vide letter no – 19-14/92-CZA (Vol. IV)(44)(BKG)3122/2016 dated 01.12.2016.

During this year Dr Brij Kishore Gupta, Evaluation and Monitoring Officer, CZA visited park on 23.02.2017 and CZA has granted conditional renewal of recognition as a “Medium Category Zoo” for a period upto 21<sup>st</sup> March’2020 subject to the compliance of the various directives under the Recognition of Zoo Rules 2009, which has been communicated vide letter no – 19-4/92-CZA(44)(Vol. IV)(CZA)(BKS)/705/2017 dated 30.03.2017.

During this year 04 extra visitors shed was constructed. To augment the water storage facility, water storage tanks have been provided in various enclosures. Overhead water tank in Aquarium house is the main storage of Park which has been repaired during this year.

During this year, 3,85,473 no of visitors visited the park. Total revenue earned from all sources was Rs 42,92,393.00. Total no of animals/birds was 228 as on 31.03.2017. JNB Park have organized Educational programme like, Wild life Week, Environment Day & Animal Welfare Fortnight amongst BSL School children. Tree saplings were planted by VVIP’s and school children.

JNB Park ticket counter had become digitalized by introduction of 02 PoS machines from 23.12.2016. New Entry Fee of Park (Adult Rs 20.00 and Child Rs 10.00) had been introduced w.e.f. 25.12.2016.

**Raj Vir Singh**  
GM (TA), SAIL/BSL

**APPROVAL OF MASTER (LAYOUT AND MANAGEMENT)  
PLAN OF JNB PARK, BOKARO STEEL CITY :**

MASTER PLAN of a zoo is a comprehensive document giving detailed roadmap for 20 yrs regarding development, improvement and up-gradation of the facilities and infrastructure for proper zoo management with greater efficiency. Preparation and submission of Master Plan of JNB Park to CZA is a statutory requirement for recognition and running of the park.

It is a great moment of pleasure that the Master Plan of Jawaharlal Nehru Biological Park, Bokaro Steel City had been scrutinized and recommended for approval by the expert group on zoo designing of CZA in its 70<sup>th</sup> meeting held on 1<sup>st</sup> November'2016 for the period 2016-2036. The same had been approved by the Technical Committee of CZA in its 80<sup>th</sup> meeting held on 4<sup>th</sup> November'2016.

Subject to condition that -

- a) The responsibility of mobilizing the financial resources for implementation of the Master Plan will be the sole responsibility of the Steel Authority of India Limited or respective Zoo Operator, and
- b) The Steel Authority of India Limited or respective Zoo Operator should quantify the resources available for the implementation of Master Plan.

Which has been communicated vide letter no - 19-14/92-CZA(Vol. IV)(44)(BKG)/3122/2016 dated 01.12.2016.



GOVERNMENT OF INDIA  
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

**Central Zoo Authority**



F. No. 19-14/92-CZA(Vol. IV)(44)(BKG) / 3122/2016

Date: 01.12.2016

To,

The General Manager (TA)  
Bokaro Steel Plant  
Bokaro Steel City  
C/o Jawaharlal Nehru Biological Park  
Sector-4, Bokaro Steel City 827 001  
District Bokaro (Jharkhand)

**Sub: Approval of Master Plan of the Jawaharlal Nehru Biological Park, Bokaro Steel City, Jharkhand - regarding**

**Ref: Your office letter No. TA/D/BP/1007, dated 06.09.2016**


Sir,

With reference to above cited correspondence, it is to inform that the Master Plan of Jawaharlal Nehru Biological Park, Bokaro Steel City, Jharkhand submitted to Central Zoo Authority have been scrutinized and recommended for approval by the Expert Group on Zoo Designing of Central Zoo Authority in its 70<sup>th</sup> meeting held on 1<sup>st</sup> November, 2016. The same have been approved by the Technical Committee of Central Zoo Authority in its 80<sup>th</sup> meeting held on 4<sup>th</sup> November, 2016 subject to condition that:

- (a) the responsibility of mobilizing the financial resources for implementation of the Master Plan will be the sole responsibility of the Steel Authority of India Limited or respective Zoo Operator, and
- (b) the Steel Authority of India Limited or respective Zoo Operator should quantify the resources available for the implementation of Master Plan.


A signed and approved copy of the Master Plan of the Jawaharlal Nehru Biological Park, Bokaro Steel City, Jharkhand is enclosed with this letter for necessary action.

Yours faithfully

  
(Dr. D N Singh)  
Member Secretary

Copy for information to:-

The Chief Wildlife Warden, Government of Jharkhand, Government of Jharkhand, Doranda,  
P.O: Doranda, Ranchi- 834 002 (Jharkhand)

  
(Dr. D. N. Singh)  
Member Secretary

B-1 Wing, 6<sup>th</sup> Floor, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi-110003  
Tel.: 011-24367846, 24367847, 24367851, 24367852, Fax: 011-24367849  
E-mail: cza@nic.in Website: http://www.cza.nic.in

**VISIT OF Dr BRIJ KISHOR GUPTA, EVALUATION AND MONITORING OFFICER, CENTRAL ZOO AUTHORITY FOR EVALUATION AND RENEWAL OF RECOGNITION OF JAWAHARLAL NEHRU BIOLOGICAL PARK, BOKARO STEEL CITY :**

Dr Brij Kishore Gupta, Evaluation and Monitoring Officer, CZA visited JNB Park, Bokaro on 23.02.2017 and after inspection of various enclosures interacted with the officials and staff of JNB Park.

The evaluation report of the JNB Park, Bokaro Steel City as submitted by the evaluating officer was considered by the technical committee in its 82<sup>nd</sup> meeting held on 22<sup>nd</sup> March'2017. The technical Committee of the CZA has decided to grant conditional renewal of recognition as a "Medium Category Zoo" for a period upto 21<sup>st</sup> March'2020 subject to the compliance of the various directives under the recognition of zoo rules, 2009. Which has been communicated vide letter no - 19-14/92-CZA(44)(Vol. IV) (CZA) (BKS) /705/2017 dated 30.03.2017.



## HISTORY

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.

## JNB PARK AT A GLANCE

- Name of Zoo : Jawaharlal Nehru Biological Park
- Address : Sector - IV, Bokaro Steel City (827004)
- Contact details : Ph - (06542)287239  
Fax - (06542)240227  
E-mail - gc.jnbpark@gmail.com
- Operator of Zoo : SAIL/BSL
- Total area : 126.42 acres
- Opening of Park : 14-Jan-1989
- Zoo timing : 09.00 am to 05.00 pm
- Weekly closing day : Monday
- Stock as on 31-03-2017 : Mammals - 155 nos  
Reptiles - 03 nos  
Birds - 70 nos  
Total - 228 nos
- Fee & Rates :
  - Entry Fee : Adult : Rs 20.00 (above 12 yrs)  
Child : Rs 10.00 (between 05 to 12 yrs)
  - Camera's : Simple still camera : 10.00  
Handy cam : 50.00  
Digital rangefinder camera : 100.00  
Professional video camera : 200.00  
One day Album/ Film Shooting: 1000.00





## **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.

## **STRATEGY**

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.

## **THEME**

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

### **Free Ranging Category of Birds, Mammals and Reptiles :**

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.

In the free ranging category of animals, we find Jackals, foxes, mongoose abundantly moving around the Park area and also Reptiles like Pythons, Cobras, Dhamins, Kraits are seen frequently in the area.

## **VISITOR AMENITIES**

The ticket counter is located at the right side of main entrance gate. A public toilet is present on the left side area of park. Besides, there is provision of ladies toilet in two places (i) Near Aquarium (also for handicapped persons) and (ii) Near main office of park. About 11 nos. rain shelter sheds are existing in different locations of the park, in order to provide comfort to the visitors. A Toy Train Ticket counter cum passenger's shed has been constructed near Bird enclosure for visitors i.e. on starting point of toy train, 4 nos. of water tanks for providing hygienic drinking water to visitors have been installed in addition to many more drinking facility points for visitors. All around the road, proper signage for particular enclosures has been displayed to avoid

confusion. To avoid visitors getting disoriented and moving haphazardly in all direction, we have one main entrance having verandah, cemented pathway and pathway connecting sub-path way and also moorum laid sub path way, every turning well directed and showing direction to different animal homes minimises the visitors getting disoriented and moving haphazardly. Proper educative signage, also different species, tree, saving earth and display of different free ranging species are in the way which automatically give educative diet to visitors. Visitors shed at different location are being renovated for their rest with nearby drinking water facilities.

Park has taken care to provide all required facilities to the visitors e.g. drinking water points, shelters, toilet, benches, toy train, children park, wheel chair, first aid box, interpretation centre, etc.



## **EDUCATION & AWARENESS PROGRAMME**

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. In this direction following steps have been taken during this year.

### **❖ CELEBRATION OF WORLD ENVIRONMENT DAY**

World Environment Day was celebrated with great zeal and enthusiasm on 05 June 2016 with plantation of Mahogany tree saplings near tiger enclosure by BIRHOR TRIBES CHILDREN (adopted by BSL).

The children have a round of the park for awareness of flora and fauna.



### ❖ CELEBRATION OF WILDLIFE WEEK

As per guidelines of Central Zoo Authority, New Delhi, celebration of Wildlife Week has been held on 03/10/2016 for achieving national effort towards conservation and education awareness. On this occasion, 27 BSL School & 11 Kalyan Vidyalaya students participated. On this occasion, quiz and drawing competition was held amongst students of class 07 to 10. The programme was inaugurated by Sri J K Singh (Principal, BIV) – chief guest. Students were briefed about wild animals of park. As Zoo is a living laboratory, they were given knowledge of various trees and their importance, various animals / birds - their behavior and feeding habits. Drawing Competition started at 10.30 AM with the theme “Wild Animal with Their Habitat”. Quiz Competition started at 11.45 AM and this was conducted by Dr R Perween, Asstt. Mgr (JNB Park).

Prizes were distributed by Chief Guest Sri J K Singh (Principal, BIV) with support of Dr Gautam Chakraborty, AGM(TA-Hort).





**❖ CELEBRATION OF ANIMAL WELFARE FORTNIGHT**

Animal Welfare Fortnight was celebrated on 08<sup>th</sup> January 2017 at Jawaharlal Nehru Biological Park, Bokaro.

During this occasion different competitions were organized amongst the BIRHOR TRIBES CHILDREN (adopted by BSL). Apart from the above, a competition for aptitude test and care and management of animals/birds was also organized among the park attendants to improve their skill and dedication towards care and management of animals/birds.

Due to these small but effective activities in the field of education and awareness, it has gained tremendous popularity among school children and Nature lovers. The triumph of our Biological Park is directly related with visitor's concern & affection towards the animals and birds.





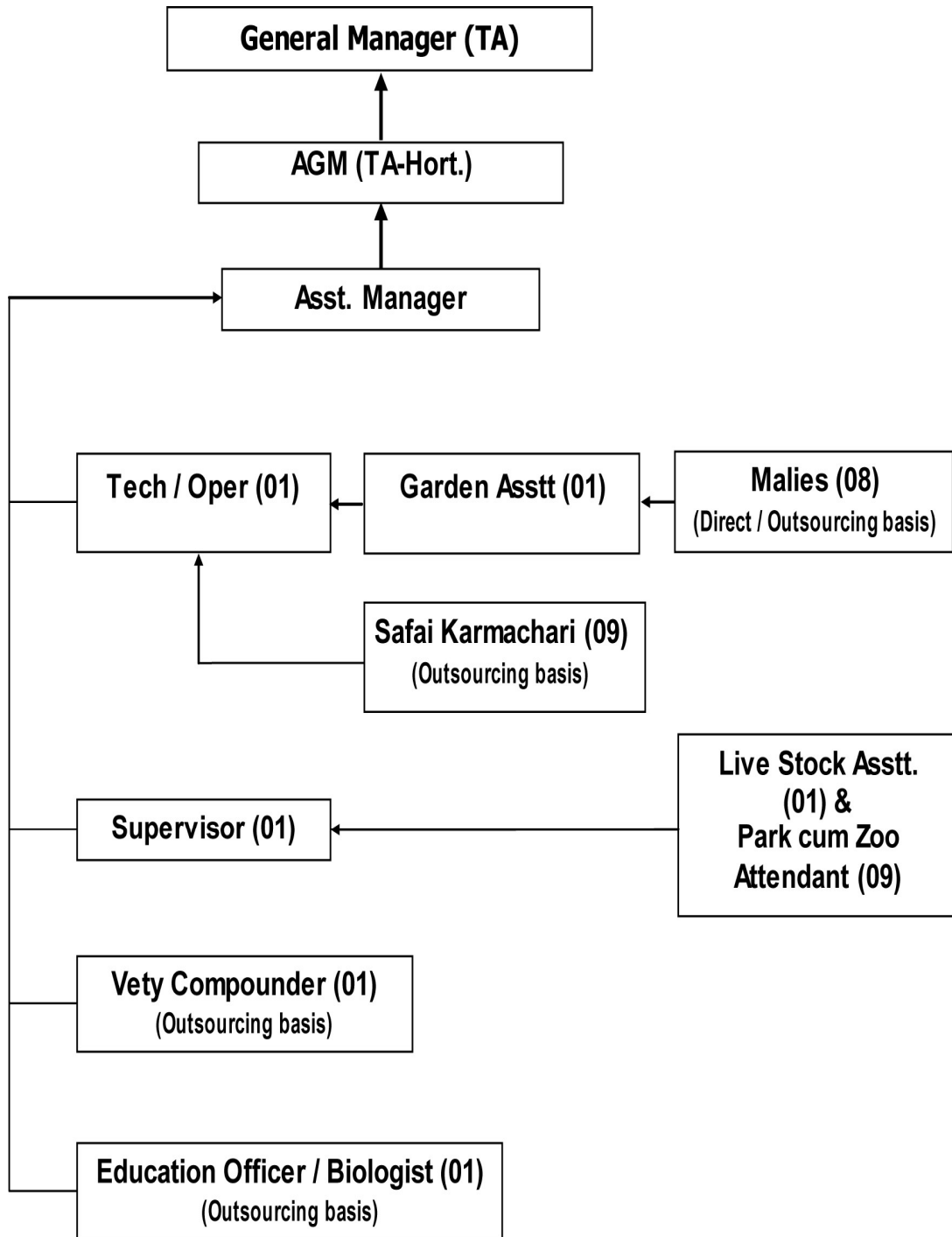


**ZOO PERSONNEL**

Name of Post	Post sanctioned	Post filled up (Direct / Outsourcing)
GM (TA)	One (01)	Direct
AGM (TA- Hort)	One (01)	Direct
Asstt. Mgr. JNB Park	One (01)	Direct
Supervisor	One (01)	Direct
Tech / Oper	One (01)	Direct
Vet. Compounder	One (01)	Outsourcing basis
Education Officer/ Biologist	One (01)	Outsourcing basis
Store Keeper	One (01)	Vacant
Garden Asstt.	One (01)	Direct
Office Asstt.	One (01)	Vacant
Live Stock Asstt.	One (01)	Direct
Pump Operator	One (01)	Vacant
Malies	Eight (08)	Direct / Outsourcing basis
Park-cum-Zoo Attendant	Nine (09)	Direct
Safai Karmchari	Nine (09)	Outsourcing basis
Driver	One (01)	Vacant

Note: Word 'Direct' refers to posts filled by promotion / placement from internal sources on superannuation basis.

**ADMINISTRATIVE CHART**



**ANIMAL HOUSE (ENCLOSURE)**

Out of 48 no. of enclosures/substructures, 18 nos. are open and 30 nos. closed cages / aviaries.

The table indicates the distribution of animal/bird enclosure:

Animal Section	Species	No. of Enclosures / substructures		No. of night cells
		Open	Closed	
Mammal	Tiger	2	-	6
	Lion	2	-	6
	Leopard	-	1	6
	Hyena	2	-	4
	H. Black Bear	1	-	6
	Indian Palm civet	-	1	2
	Herbivores	7	-	9
	Primates	-	6	12
	Porcupine	1	-	1
Birds	Pheasants and other birds	-	20	-
	Emu	1	1	1
	Emu	1	1	-
Reptiles	Mugger	1	-	-
	Gharial	1	-	-
	Python	-	1	-
	<b>Total</b>	<b>18</b>	<b>30</b>	<b>53</b>

**DISINFECTION / CLEANING SCHEDULE CHART**

Sl.	Name of enclosures	Activity	Date /days
1.	Lion Tiger & leopard enclosure	a) Cleaning of cells with Haldi Powder	Daily
		b) Sterilization of cells with blow lamp	6 months in a year
		c) Cleaning of tiger moat	Monthly
		d) Bush cutting of enclosures	Daily
2.	Bear enclosure	a) Cleaning of cells with Haldi Powder	Daily
		b) Sterilization of cells with blow lamp	Every 6 month
		c) Bush cutting in enclosure area	Monthly
3.	Deer & Antelopes enclosure	a) Removal of dung from enclosure	Weekly
		b) Cleaning of cells, verandah	Daily
4.	Monkey, Langur enclosure	a) Cleaning of night shelters & cells	Weekly
		b) Sterilization of cells with blow lamp	6 months
5.	Birds & pheasant enclosure	a) Haldi Powder mixed with water spreading in cells	Weekly
		b) Turning of soil inside the cells	Once in a year
		c) Change of water from small ponds	Daily
6.	Hippo enclosure moat	a) Change of water	Fortnightly
		b) Removal of dung spreading in moat and enclosure	Twice a month
7.	Crocodile Enclosure	Change of water	Continuous
8.	Emu enclosure	Removal of dung	Twice a month
9.	Roads/Paths of the zoo	Sweeping	Daily

## VERMICOMPOST

We have made four pits (dug nearby the area of Herbivores Enclosures [size 4x4x4 m]). 2ft of this pit has been filled with dried leaves branches and twigs. After that we filled the pit with animal wastes and residues from Herbivores enclosures and added earth work and lastly covered it with soil and water in it. Organic manure (vermicompost or vermicasts) formed due to biological process. Vermicompost is expected to be ready for us in four (04) months. The vermicompost have 40 micronutrients and trace minerals including N, P, K, Ca & Mg besides others. Vermicompost extracts remove toxins and harmful bacteria and fungi. We are utilizing this in flowering plants.



**BIRTHS, ACQUISITIONS & DISPOSAL**

SI No	Animal Name	Scientific Name	Births			Acquisitions			Disposals		
			M	F	U	M	F	U	M	F	U
<b>BIRD</b>											
1	Peafowl	Pavo cristatus	1	0	0	0	0	0	0	0	0
<b>TOTAL BIRDS</b>			<b>1</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>MAMMAL</b>											
2	Black Buck - Krishna Mrig	Antilope cervicapra	3	2	0	0	0	0	0	0	0
3	Langur Common	Semnopithecus entellus	2	1	0	0	0	0	0	0	0
4	Rhesus Macaque	Macaca mulatta	2	0	0	0	0	0	0	0	0
5	Deer Spotted - Chital	Axis axis	5	4	0	0	0	0	0	0	0
6	Deer Barking - Kakar	Muntiacus muntjak	2	2	0	0	0	0	0	0	0
<b>TOTAL MAMMAL</b>			<b>14</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>TOTAL ANIMALS/BIRDS</b>			<b>15</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**DEATH REPORT FOR THE YEAR 2016-17**

SL NO	ANIMAL/BIRD NAME	SEX	DATE OF DEATH	REASON OF DEATH
1	Nilgai - Blue Bull (Boselaphus tragocamelus)	Male	10.04.2016	Heat stroke
2	Black Buck - Krishna Mrig (Antilope cervicapra)	Male	11.04.2016	Infighting
3	Peafowl (Pavo cristatus)	Female	22.08.2016	Infighting
4	Black Buck - Krishna Mrig (Antilope cervicapra)	Male	04.09.2016	Infighting
5	Peafowl (Pavo cristatus)	Male	07.09.2016	Killed by predators
6	Deer Spotted - Chital (Axis axis)	Male	12.10.2016	Old age

7	Deer Barking – Kakar (Muntiacus muntjak)	Female	15.10.2016	Shock
8	Crocodile Marsh – Mugger (Crocodylus palustris)	Male	15.11.2016	Old age
9	Deer Spotted – Chital (Axis axis)	Male	25.11.2016	Infighting
10	Common / Grey Quail (Coturnix coturnix)	Male	25.12.2016	Diarrhoea
11	Pheasant Silver (Lophura nycthemera)	Male	27.12.2016	Old age
12	Common / Grey Quail (Coturnix coturnix)	Female	28.12.2016	Shock
13	Deer Spotted – Chital (Axis axis)	Female	12.01.2017	Old age
14	Deer Spotted – Chital (Axis axis)	Female	18.01.2017	Shock due to uterine prolapes
15	Langur Common (Semnopithecus entellus)	Male	20.02.2017	Old age
16	Black Buck - Krishna Mrig (Antilope cervicapra)	Male	12.03.2017	Old age
17	Deer Barking – Kakar (Muntiacus muntjak)	Female	15.03.2017	Old age
18	Cockatiel (Nymphicus hollandicus)	Male	30.03.2017	Killed by predators

## INVENTORY OF ANIMAL/BIRDS

Sl N	Animal Name	Scientific Name	Existing stock as on 31.03.2017			
			M	F	U	T
<b>BIRD</b>						
1	Peafowl	Pavo cristatus	4	4	0	8
2	Budgeriger	Melopsittacus undulatus	5	8	0	13
3	Cockatiel	Nymphicus hollandicus	2	4	0	6
4	Duck Brahminy (Ruddy Shelduck)	Tadorna ferruginea	1	1	0	2

5	Emu	Dromaius	5	2	0	7
6	Love Birds	Agapornis sps	5	4	0	9
7	Parakeet Alexandrine	Psittacula eupatria	3	3	0	6
8	Parakeet Rose Ring	Psittacula krameri	3	7	0	10
9	Pelican Rosy / White	Pelecanus onocrotalus	1	1	0	2
10	cockatoo Moluccan / Salmoncrested	Cacatua moluccensis	1	0	0	1
11	Common / Grey Quail	Coturnix coturnix	3	3	0	6
<b>TOTAL BIRDS :</b>			<b>33</b>	<b>37</b>	<b>0</b>	<b>70</b>
<b>MAMMAL</b>						
12	Bear Himalayan Black	Ursus thibetanus	1	1	0	2
13	Black Buck - Krishna Mrig	Antilope cervicapra	21	23	0	44
14	Civet Common Palm - Cat Toddy	Paradoxurus hemaphroditus	2	1	0	3
15	Langur Common	Semnopithecus entellus	7	3	0	10
16	Leopard - Panther	Panthera pardus	1	3	0	4
17	Macaque Bonnet	Macaca radiata	4	1	0	5
18	Rhesus Macaque	Macaca mulatta	15	5	0	20
19	Tiger Bengal	Panthera tigris tigris	0	1	0	1
20	Deer Sambar	Cervus unicolor	2	3	0	5
21	Deer Spotted - Chital	Axis axis	23	23	0	46
22	Hippopotamus	Hippopotamus amphibius	1	0	0	1
23	Lion Hybrid	Panthera leo	0	1	0	1
24	Nilgai - Blue Bull	Boselaphus tragocamelus	2	0	0	2
25	Hyaena Stripped	Hyaena hyaena	1	1	0	2
26	Porcupine Indian	Hystrix indica	1	0	0	1
27	Deer Barking - Kakar	Muntiacus muntjak	3	5	0	8
<b>TOTAL MAMMAL :</b>			<b>84</b>	<b>71</b>	<b>0</b>	<b>155</b>



REPTILE						
28	Python Indian Rock	Python molurus	1	2	0	3
<b>TOTAL REPTILE :</b>			<b>1</b>	<b>2</b>	<b>0</b>	<b>3</b>
<b>TOTAL ANIMALS :</b>			<b>118</b>	<b>110</b>	<b>0</b>	<b>228</b>

## VISITORS FLOW

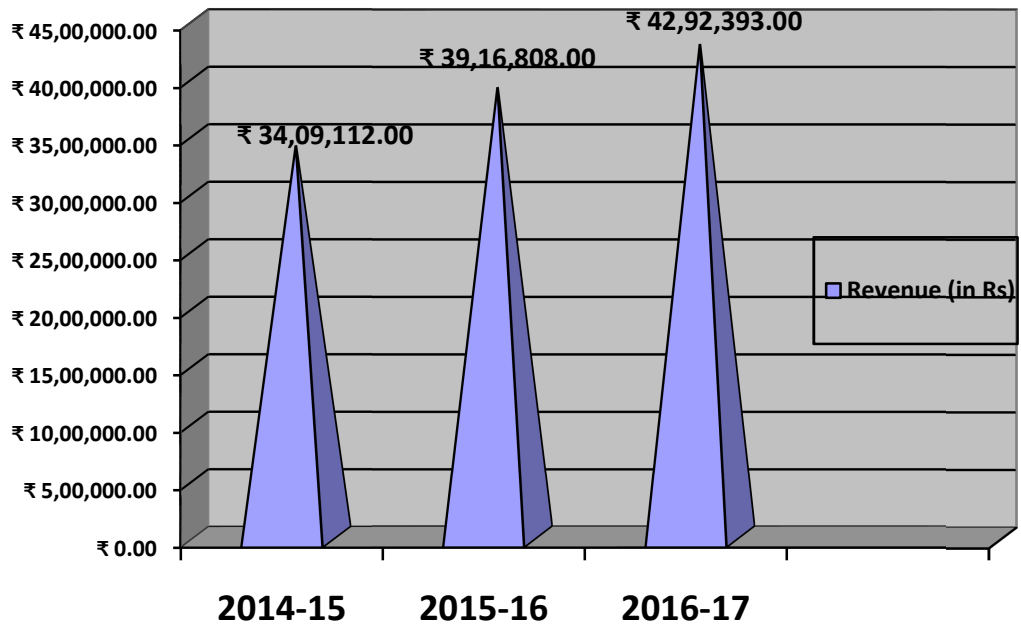
2016-17

MONTH	NO OF VISITORS		TOTAL VISITORS
	Adults	children	
Apr-16	10037	6036	16073
May-16	18004	15310	33314
Jun-16	14960	10948	25908
Jul-16	18550	13597	32147
Aug-16	18429	12001	30430
Sep-16	11102	5654	16756
Oct-16	16457	15617	32074
Nov-16	17120	11681	28801
Dec-16	24432	31125	55557
Jan-17	23946	43577	67523
Feb-17	11319	11662	22981
Mar-17	12872	11037	23909
<b>TOTAL</b>	<b>1,97,228</b>	<b>1,88,245</b>	<b>3,85,473</b>

**BUDGET, EXPENDITURE AND REVENUE EARNED****2016-17**

<b><u>Budget allocated</u></b>	
Administrative Head	1,82,184.00
Service Contracts (SCON)	1,00,00,000.00
<b>Total :</b>	<b>1,01,82,184.00</b>
<b><u>Expenditure &amp; Liability</u></b>	
Administrative Head	1,82,184.00
Service Contracts	97,60,588.00
<b>Total :</b>	<b>99,42,772.00</b>
<b>Rs Ninety Nine Lacs Forty Two Thousand Seven Hundred Seventy Two Only</b>	
<b><u>Revenue Earned from Different Sources</u></b>	
Sale of Entry & Camera Tickets	38,88,995.00
Income from Other sources	4,03,398.00
Toy Train	1,58,400.00
Parking Stand	1,34,994.00
Aquarium	1,10,004.00
<b>Total :</b>	<b>42,92,393.00</b>
<b>Rs Forty Two Lacs Ninety Two Thousand Three Hundred Ninety Three Only</b>	

**REVENUE GENERATED DURING LAST THREE YEARS :**



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**VIEW**  
 Media Media Media Media



The Prabhat khabar - 04/10/2016

Wildlife week celebration at  
 JNB Park, Bomaro steel city (Jharkhand)  
 on 03/10/2016

**STATUS REPORT OF RECOGNITION POINTS FOR RENEWAL OF RECOGNITION OF  
JAWAHARLAL NEHRU BIOLOGICAL PARK, BOKARO**

<b>Sl No</b>	<b>Norm No</b>	<b>Violation of Recognition of Zoo Rules, 2009</b>	<b>Action Taken</b>
<b>1. General Requirements</b>			
1	10.1(5)	The zoo should have pucca boundary wall of minimum 02 mts high on both sides to control intruders entering into the zoo on north-west side near Sector – 9 of park. The zoo may adopt placing concertina wire on boundary wall along with CCTV cameras for the safety of visitor and animals and may deploy security guards.	Boundary wall already exists. The repair work started at sector 9 areas to make 2 mts height to control intruders. Extra security guards also deployed.
2	10.1(9)	Failed to prevent breach of boundary wall by feral cattle and dogs and entry in to the zoo due to damaged boundary wall and unauthorized construction outside boundary wall.	Boundary wall repaired and entry of animals stopped.
3	10.1(9)	Housed Domestic pigeons and Guinea fowls, they should be removed from the zoo.	Pigeons and Guinea fowls removed from the zoo.
<b>2. Administration and staffing pattern</b>			
4	10.2(1)	Failed to appoint 'Whole time in – charge' for the zoo. The zoo should have full time Director / Officer – in – charge of the zoo with adequate administrative and financial powers. The designation of the present in – charge so called Assistant General Manager (Town Administration & Horticulture) should be changed accordingly.	Proposal sent for approval of higher management.
5	10.2(2)	The zoo should appoint Veterinary Officer, Curator and laboratory Assistant as mandatory under Recognition of Zoo Rules, 2009.	Proposed services will be taken on outsourcing basis.
<b>3. Development and Planning</b>			
6	10.3(7)	Failed to construct Isolation and Quarantine area.	Construction of isolation & quarantine area has been included in Annual Plan.
7	10.5(10)	All keepers in the zoo should write the Keepers Diary in the format as prescribed by the CZA and submit the same to their senior.	Keepers started writing in the format.
<b>4. Animal housing, display of animals and animal enclosures</b>			
8	10.4(2)	The enclosure housing the Rhesus macaques does not meet the minimum requirement with respect to its area and feeding and retiring cells as prescribed by the CZA. The zoo should modify the same, providing the enclosure with the area as prescribed by CZA. Prior approval of the design should have also got approved from CZA.	The house of Rhesus macaque will be made more naturalistic and as per minimum requirement.

<b>6. Veterinary and infrastructure facilities</b>			
9	10.6(1)	The zoo hospital should have all basic diagnostic facilities, comprehensive range of drugs, operation theatre and in-patient wards.	Zoo Hospital has the drugs and basic diagnostic facilities. Proposal for construction of operation theatre and in-patient ward has been taken.
<b>9. Acquisition and breeding of animals</b>			
10	10.9(4)	The zoo has been housing single Hippo, Lion and Whiter tiger. They should be paired within six months.	For pairing of animals, exchange proposal has been communicated.
11	10.9(8)	Failed to maintain Individual Animal History card for animals and the Herd Sheet for Herbivores.	Maintaining individual animal history card started.

**Other conditions based on recommendations by the evaluating officers are as follows:**

<b>Sl No</b>	<b>Norm No</b>	<b>Observation / recommendations of the evaluating officer</b>	<b>Action Taken</b>
<b>1. General Requirements</b>			
1	10.1(7)	The excess leaf litter generated in the zoo should not be burnt inside the zoo. It may be used for vermin-compost.	Vermicompost pits have been made and burning of leaf stopped.
<b>3. Development and Planning</b>			
2	10.3(4)	The viewing area for visitors in herbivore enclosures should not be more than 30% of the total area.	Viewing area of herbivores has been made 30% of the total area.
<b>4. Animal housing, display of animals and animal enclosures</b>			
3	10.4(1)	The iron angle and GI pipes provided as perch in all the aviaries should be replaced by wooden logs or bamboo.	Iron perch replaced by wooden logs.
4	10.4(10)	The signage opposite to the aviary should be removed as it disturbs the birds housed therein.	Signage removed.
5	10.4(1)	The aquarium housing various species of turtles along with exotic fishes and without providing any areas for bask should be removed and should be provided with appropriate housing.	Turtles removed.
6	10.4(3)	The electric poles with covered wiring and open switch boxes were seen. The same should be got repaired.	Electric switch boxes repaired.
7	10.4(3)	The broken chain-link mesh at Blackbuck enclosure due to falling of tree should be repaired. It should have been addressed promptly by zoo authorities.	Broken chain link repaired.
8	10.4(3)	The zoo should trim trees adjacent to boundary wall on both sides for the safety and security of animals.	Trees trimmed.
9	10.4(3)	Visitor's pathway in front of animal house of Leopard should be blocked.	Pathway in-front of leopard house blocked.

10	10.4(3)	All animal houses, particularly of those of large and small carnivores should be locked.	All animal houses locked.
11	10.4(2)	The kraal of lion should be of at least 100sq mts in size. At present all kraals of large carnivores are accessible to visitors which should not be allowed, by diverting the visitor path. The kraals should be screened by planting trees.	Kraal of lion enclosure screened by planting trees.
12	10.4(10)	Signage inside the zoo needs improvement. They should contain biological information of the species housed therein.	Biological information written on the signage.
13	10.4(2)	The water trough in White tiger enclosure should be saucer shaped.	Water trough in white tiger enclosure has been made saucer shaped.
14	10.4(3)	The zoo should not use Phenolic disinfectant.	Stopped use of phenolic disinfectant.
15	10.4(9)	The zoo should plant green hedge between the stand – off barrier and parapet wall. The stand – off barrier provided at Sambar and Hippo enclosures needs immediate repair.	Green hedge planted between stand – off barrier and parapet wall. Stand-off barrier at sambar and hippo enclosures repaired.
16	10.4(1)	The metal structure lying inside the Himalayan black bear enclosure should be replaced by wooden natural artefacts.	Wooden natural artefacts are being made in Himalayan black bear.
<b>5. Upkeep and healthcare of animals</b>			
17	10.5(2)	The animal feed store should be rodent proof.	Animal feed store had been made rodent proof.
18	10.5(3)	The cooking of food for Sloth bear and other animals should be done in the kitchen area rather cooking next to the animal exhibit.	Cooking of food for bear is being done in the kitchen area.
<b>9. Acquisition and breeding of animals</b>			
19	10.9(8)	Individual Animal History card for animals should be maintained. For the herbivores, the herd sheet should be maintained.	Individual animal history cards are being maintained.
<b>12. Visitors' facilities</b>			
20	10.12(2)	The zoo should keep anti snake venom at zoo.	Anti snake venom are arranged at Bokaro General Hospital of our steel plant which is adjacent to park.
21	10.12(3)	The zoo should make arrangements for providing access to the handicapped persons (Divyang) for viewing wild animals at various animal enclosures.	Arrangements are under construction for providing access to animal enclosures for handicapped persons.