

ANNUAL REPORT

2012-13.

JHARKHAND CHIRIYAGHAR PRADHIKARAN
(JHARKHAND ZOO AUTHORITY)

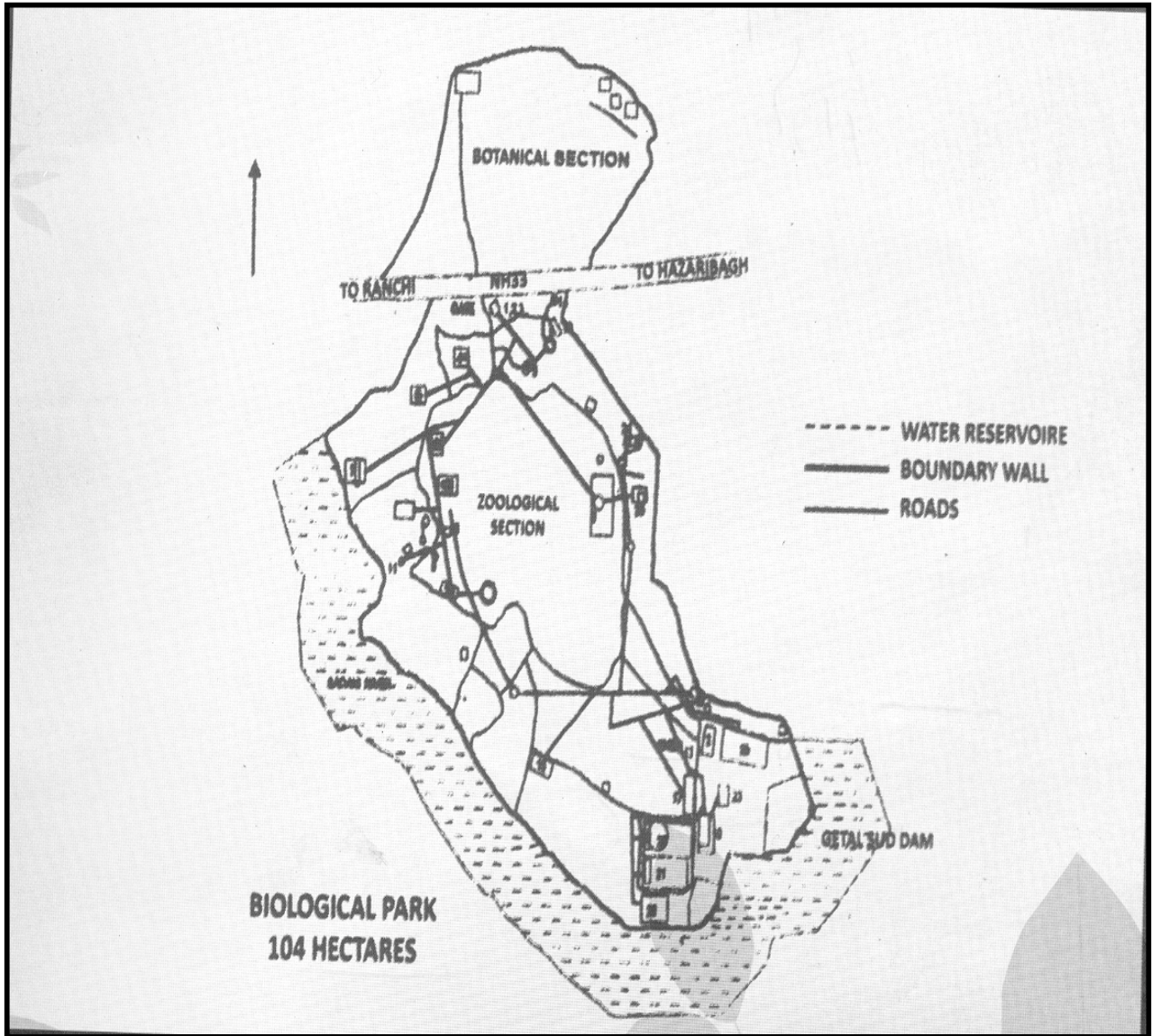
(Under The Department of Forests & Environment, Govt. of Jharkhand)
(Registered under the Society Registration Act, 1860 vide Registration number 143/2010-11)

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BHAGWAN BIRSA BIOLOGICAL PARK



Foreword

Bhagwan Birsa Biological Park, chakla, Ormanjhi, Ranchi has become one of the major zoos in the country. One major achievement during this financial year was that this zoo has been recognized by CZA as a medium zoo. Needless to say that previously it was recognized as a small zoo. The animal adoption scheme, introduced in the last financial year has now gained momentum this year. Another major achievement was that the CZA has allowed this zoo to retain the captive elephants kept here. Not only this, seeing the beautiful natural ambience of elephant enclosure, CZA has advised this zoo to develop an elephant care centre in the zoo. The development of the same is in the process. Although the Master Plan of this zoo has already been approved, yet some suggestions have been given by the CZA to improve the master layout plan. The same is being modified and shall get approved soon.

During the years to come, it is hoped that this zoo shall continue to grow and flourish further.

(A. K. Patra, IFS)
Chief Conservator of Forests and Director
Bhagwan Birsa Biological Park, Ranchi

1. INTRODUCTION :

The main objectives for constitution of this Pradhikaran (or the Authority) is management and development of Bhagwan Birsa Biological Park at Chakla, Ormanjhi, Ranchi, facilitation of linkage between *ex-situ* and *in-situ* management and conservation of flora & fauna, breeding and rearing of endangered faunal species with the object of saving them from extinction so as to enrich the depleted fauna, awareness and education in wildlife conservation through zoo-people interface and appropriate zoo-outreach programmes, rehabilitation and care of orphaned or injured or stray or sick animals rescued from the wild or from circuses/ derecognized zoos, acquisition of wild animals, receipt and management of funds from different sources etc.

Bhagwan Birsa Biological Park, Ranchi is one of the most beautiful and progressive zoos in India which covers 104 ha of area having mildly undulating topography with natural dry deciduous Sal forests & water bodies in and around it. It provides the wild animals of this zoo a natural habitat to live in peace and harmony with the nature. It is situated on the Ranchi-Ramgarah section of National Highway 33, on the outskirts of Ranchi and about 20 kms from it. It is fragmented by the NH in two unequal halves, the smaller part being the botanical section (23 Ha) while the larger one being the zoological section (81 Ha). This zoo was opened to the public on 26th January 1994. Most of the animals of this zoo live in open, large moated areas surrounded by natural vegetation providing them a feeling of living in their natural habitat.

2. Salient features :

Captive animals and birds as on 31.03.2013

Mammals	23 sps.	285 nos.
Birds	29 sps.	844 nos.
Reptiles	15 sps.	38 nos.

Total	67 sps	1167 nos
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- **Number of Animal Enclosures** : 39
- **Number of Visitors (2012-13)** : 443123
- **Zoo Holiday (closing day)** : Every Monday

- **Visiting Time (for visitors)** : 9 am to 4.30 pm during winter season.
(15 October to 15 February)
9 am to 5 pm during other seasons.
(from 16 February to 14 October)

➤ **Visitors Amenities :**

- Drinking water facility.
- Rest areas / sit outs / visitor sheds at convenient locations.
- First aid facility.
- Wheel chairs for physically challenged person.
- Signages.
- Toilets.
- Kiosks.
- Battery operated bus service.
- Information centre
- Guide maps.
- Canteen.

➤ **Admission Fees and Levy :**

Entry fee :

- **Adult** : Rs. 20/-
- **Children (age group of 3-12)** : Rs. 10/-
- **Handicapped person / child below 3 years of age** : Free
- **Group Ticket :-**
 - (a) For a group of every 10 to 24 Persons : Rs. 16/- per adult
Rs. 8/- per child
 - (a) For a group of every 25 and more Persons : Rs. 14/- per adult
Rs. 5/- per child

- **Photography :**

Still Camera	:	Rs. 10/-
Video Camera (for family use)	:	Rs. 150/-
Movie Camera (for commercial use)	:	Rs. 500/-
Advertisement and feature film	:	Rs. 1500/-

- **Parking :**

(i) Bus / Truck	:	Rs. 30/-
(ii) Car / Jeep	:	Rs. 20/-
(iii) Motor cycle / Scooter	:	Rs. 10/-
(iv) Bicycle	:	Rs. 2/-

- **Battery operated bus service :**

Per person / per trip of one hour	:	Rs. 30/-
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- **Boating :**

Paddle boat (2 seater)	:	Rs. 25/-
Paddle boat (4 seater)	:	Rs. 40/-

(Note : Per trip of 15 minutes)

- Special rate for entry on 31st December,

1 st and 2 nd January	:	Rs. 30/- per adult (No group ticket)
	:	Rs. 20/- per child (No group ticket)

Note : 1. On the occasion of Independence Day (15th August) / Republic day (26th January) / Children day (14th November) and Wildlife Week (From 2nd October to 8th October), the entry fee has been made free for students and minors.

2. For handicapped persons and children up to three year age, entry is free.

3. Zoo personnel as on 31.03.2013

Sl.No.	Name of post	Sanctioned strength	In position	Vacancy
1	Chief Conservator of Forests and Director	01	01	-
2	Asst. Conservator of Forests	01	01	-
3	Range Forest Officer	03	03	-
4	Veterinary Doctor	01	01	-
5	Head clerk	01	01	-
6	Assistants	02	02	-
7	Forester	02	02	-
8	Forest Guard	04	03	01
9	Compounder	01	-	01
10	Driver	02	01	01
11	Animal keeper-cum-Sweeper	24	-	24
12	Orderly / Peon	02	02	-
13	Chowkidar	06	01	05
14	Mali (Gardener)	05	-	05
15	Sweeper	02	-	02
Total		57	18	39

4. Visitors flow to the Park during last three years :

Year	No. of visitors
2010-11	330538
2011-12	423820
2012-13	443123

5. Receipts during the last three years :

The receipts from all sources, during last three years is as follows :-

Years	Receipts (in Rs.)
2010-11	4456373.00
2011-12	6726120.00
2012-13	9984020.00

6. Allotment and Expenditure during 2012-13 :

क्रम सं०	स्वीकृत कार्य विवरणी	व्यय हेतु स्वीकृत राशि (लाख रु०)	माह मार्च 2013 तक व्यय राशि	अभ्युक्ति
1	2	3	4	5
1	पदाधिकारियों/कर्मचारियों का भुगतान :-			
(i)	वेतन, जीवन-यापन भत्ता आदि (salary)	80.50	7920640.00	—
(ii)	यात्रा -व्यय	1.00	43141.00	—
(iii)	एल. टी. सी./एच. टी. सी.	0.75	-	—
(iv)	पदाधिकारियों/कर्मचारियों को वर्दी का भुगतान	0.30	26000.00	—
2	कार्यालय- व्यय	6.00	313056.00	—
3	मोटरगाड़ी	2.25	224360.00	—
4	दूरभाष (लैण्ड लाईन/मोबाईल)	1.00	98796.00	—
5	विद्युत व्यय (उर्जा-प्रभार)	15.00	930948.00	—
6	मशीन एवं उपकरण	9.00	37945.00	—
7	प्रचार-प्रसार	20.00	397905.00	झारखण्ड जैव विविधता पर प्रकाशित की जानेवाली पुस्तक इसे तैयार करने वाली समिति ने छपने के लिये नहीं दिया
8	मजदूरी	61.00	5774667.00	—
9	सामग्री एवं पूर्तियाँ	74.50	6844223.00	—
10	एक 14-सीटर, एक 11-सीटर, दो 6-सीटर एवं दो 4-सीटर बैट्री चालित वाहनों का क्रय	34.00	1224316.00	—
11	मछलीघर, बटरफ्लाई पार्क, वाटर पार्क एवं मोनोरेल का निर्माण (सभी अंश कार्य)	830.786	0.00	निविदा आमंत्रित करने हेतु निविदा डाक्यूमेंट की स्वीकृति की प्रक्रिया पूरी नहीं हुई थी।
12	नीलगाय इन्क्लोजर का सुदृढीकरण कार्य	1.167	0.00	—
13	वन्यप्राणी विषय पर फिल्म एवं साहित्य का क्रय	1.50	0.00	—
14	अबाध विद्युत आपूर्ति व्यवस्था का संधारण (जेनसेट्स परिचालन)	6.00	420407.00	—
15	हरा चारा उत्पादन एवं वितरण कार्य	5.87	581518.00	—

16	डोरण्डा वन विश्रामागार से सम्बन्धित कार्य :-			इस विषय को प्राधिकरण की कार्यकारिणी समिति की दिनांक की बैठक में स्थगित कर दिया गया ।
(i)	पी. सी. सी. सड़क का निर्माण	}	7.5	0.00
(ii)	एक आउटहाउस एवं शौचालय निर्माण			
17	कृष्णमृग इन्क्लोजर में दो शेड का निर्माण	1.254	0.00	सामग्री क्रय का प्रस्ताव कार्यकारिणी समिति के पास विचाराधीन है।
18	वर्तमान सांभर इन्क्लोजर में शेड निर्माण	1.132	0.00	सामग्री क्रय का प्रस्ताव कार्यकारिणी समिति के पास विचाराधीन है।
19	जैविक उद्यान वन विश्रामागार एवं उसके आउटहाउस/लेबर शेड/महाराजा गेट/बाउण्ड्रीवाल/ पक्की सड़क/क्वार्टरनाईन वार्ड/गोदाम/ सभी वन्यप्राणी इन्क्लोजर्स के रिटायरिंग सेल्स/सॉपघर/मगर एवं क्रोकोडाईल इन्क्लोजर/आहार- गोदाम-सह-किचेन/ सभी पेयजल प्वाईट्स की मरम्मति/ उन्नयन कार्य	32.00	75100.00	(अ) इस स्वीकृति के अंतर्गत अबतक निम्नलिखित कार्य संपादित हुए हैं :- (i) सॉपघर की मरम्मति एवं उन्नयन कार्य - 0.751 लाख रु0
20	बागवानी एवं सौंदर्यीकरण कार्य	13.78	1313504.00	-
21	वन्यप्राणी क्रय, आदान-प्रदान एवं ट्रान्सलोकेशन कार्य	12.00	35200.00	-
22	चीतल इन्क्लोजर में फीडिंग प्लेटफॉर्म के उपर शेड निर्माण	1.586	0.00	सामग्री क्रय का प्रस्ताव कार्यकारिणी समिति के पास विचाराधीन है।
23	वर्तमान सफेद कृष्णमृग इन्क्लोजर का सुदृढीकरण कार्य	1.167	0.00	सामग्री क्रय का प्रस्ताव कार्यकारिणी समिति के पास विचाराधीन है। तकनीकी स्वीकृति 1.155 लाख रु. का है।
24	हिप्पो इन्क्लोजर का सुदृढीकरण	4.75	0.00	दिनांक को कार्यकारिणी समिति की बैठक में इस कार्य को स्थगित कर दिया गया
25	वन्यप्राणी इन्क्लोजर्स इन्वायरमेंटल इनरिचमेंट कार्य	30.00	0.00	दिनांक 12.10.2013 को प्रशासी निकाय की बैठक में इस कार्य प्रयोजनार्थ किसी विशेषज्ञ एवं अनुभवी व्यक्ति की सेवायें अनुबन्ध के आधार पर प्राप्त करने एवं इस सम्बन्ध में प्रक्रिया की जानकारी प्राप्त करने का निर्णय हुआ।

26	वाक एराउण्ड एवियरी एवं पुरानी एवियरी का सुदृढीकरण कार्य	5.00	0.00	-
27	पेशेवर एवं कंसल्टेंसी सेवाये (कोर्ट केसेज से सम्बन्धित व्यय, चार्टर्ड एकाउन्टेन्ट आदि से सम्बन्धित)	1.00	26600.00	-
28	वानस्पतिक प्रभाग में एक डीप बोरिंग कार्य	2.501	0.00	-
29	सपही नदी साईड में झुक रहे चहारदीवारी को तोड़कर वहाँ नयी चहारदीवारी का निर्माण	3.50	0.00	कार्यकारिणी समिति स्थगित कर दिया है।
30	वन्यप्राणी एवं दर्शक व्यवस्था सम्बन्धी मौसमी, रूटीन एवं विविध कार्य	14.83	1481225.00	-
31	चीतल इन्क्लोजर के क्राल, पुराने शेड का सुदृढीकरण।	1.032	0.00	इस कार्य पर तकनीकि स्वीकृति 0.902 लाख रु. है। सामग्री क्रय का प्रस्ताव कार्यकारिणी समिति के पास विचाराधीन है।
32	स्टैण्ड ऑफ बैरियर्स निर्माण/नया लॉन एवं बाग घेरान/चेकर्ड-पेवर्ड टाइल्स पाथवे निर्माण/टिकट खिड़की वाले प्रवेश गेट पर वर्षा से बचाव हेतु छत का निर्माण /जू-अस्पताल आइसोलेशन वार्ड का विस्तार/दर्शक विश्राम बेंचेज का निर्माण/दो नये पेयजल प्वाईंटस का निर्माण/ पम्पहाउस का निर्माण		0.00	प्राक्कलन RFOS द्वारा दिये गये (माह फरवरी, 2013 में) परन्तु कार्यकारिणी समिति ने स्थगित कर दिया गया।
33	जैविक प्रभाग के लिये भव्य प्रवेश द्वार का निर्माण/एक फब्बारे का निर्माण	75.00	0.00	दिनांक 8 एवं 10.09.2012 को कार्यकारिणी समिति की बैठक में इस कार्य को स्थगित कर दिया गया।
34	नयी एवियरीज, लेपर्ड कैट इन्क्लोजर एवं डियर इन्क्लोजर का निर्माण तथा तेंदुआ इन्क्लोजर का विस्तार	125.00	0.00	दिनांक 12.10.2013 को प्रशासी निकाय की बैठक में इस कार्य प्रयोजनार्थ किसी विशेषज्ञ एवं अनुभवी व्यक्ति की सेवाये अनुबन्ध के आधार पर प्राप्त करने एवं इस सम्बन्ध में प्रक्रिया की जानकारी प्राप्त करने का निर्णय हुआ।

35	चिल्ड्रेन पार्क का विकास एवं अनुरक्षण कार्य	6.00	0.00	प्राक्कलन चाहिये।
36	लौण्डस्केपिंग एवं नये लॉन/ बाग का विकास	10.00	0.00	प्राक्कलन चाहिये।
37	बैट्री चालित वाहनों के लिये शेड निर्माण	5.00	0.00	इसकी आवश्यकता नहीं पड़ी। पुराना गैरेज काम आ गया।
38	लकड़बग्घा इन्क्लोजर के स्टैण्ड ऑफ बैरियर का सुदृढीकरण	5.00	0.00	प्राक्कलन चाहिये।
39	कृष्णमृग इन्क्लोजर में क्राल, पुराने शेड का सुदृढीकरण	0.925	0.00	इसपर Administrative sanction लेना छूट गया है- कार्यकारिणी समिति defunct है।
40	आहार-गोदाम-सह- किचेन का सुदृढीकरण	5.00	0.00	कार्यकारिणी समिति defunct है।
41	जू-किट की आपूर्ति	5.00	475414.00	-
42	डोरण्डा स्थित कम्यूनिटी भवन का वार्षिक रख-रखाव	5.00	447456.00	-
43	सोलर स्ट्रीट लाईट का क्रय, 50 पीस	0.47	47000.00	-
44	एक नयी गाड़ी (कार) का क्रय	9.00	662098.00	-
45	फॉरेस्ट ऑफिसर्स कॉलोनी/ डोरण्डा स्थित सामुदायिक भवन में पुराने पलोर टाइल्स को हटाकर नये टाइल्स लगाना, बिजली कार्य, जेनरेटर शेड एवं फूड कोर्ट (शेड) का निर्माण, लेबर शेड निर्माण, कैम्पस में पेवर्ड/ टाइल्स एवं लॉन कार्य, पानी एवं ड्रेनेज कार्य, रैम्प निर्माण, ट्रॉन्सफॉर्मर स्थापना, 103 KVa जेनसेट क्रय एवं स्थापना।	65.00	0.00	कार्यकारिणी समिति defunct है।
46	पुराने बैट्री बस के लिये नयी बैट्रीज का क्रय।	2.50	212644.00	कार्रवाई जारी है।
		1595.05	29614163.00	

7. Master Plan

Preparation of the Master Plan of this zoo had been a long pending issue. After several rounds of deliberations and going through various exercises, it was given shape in 2009-10. The Master Plan, alongwith the Master Layout Plan, was submitted to the Central Zoo Authority for approval. The Master Layout Plan was approved by the C.Z.A. vide their letter F.No. 19-109 / 92 – CZA (48) (Vol.V) (M) dated 11.02.2010. This is a 20 years Master Plan for long-term development of this zoo. The CZA has made some suggestions for revision of this Master Plan. This revision process is underway.

8. Ban on usage of plastic articles

Bhagwan Birsa Biological Park, Ranchi has banned usage of plastic covers / bags inside the zoo. Sufficient number of warning boards or signages prohibiting use of such articles inside the zoo have been put up at many places. Visitors are screened for plastic articles at the entrance gate.

9. Animal Adoption Scheme.

Like some other zoos in the country, this scheme was started in this zoo in the year 2010- 11but it became effective from year 2011-12 only. Wide publicity was given through news papers and also through letters. The result was quite encouraging and a good number of adoptors came forward to adopt the animals of this zoo, thus showing their keen interest to associate themselves to wildlife conservation. The adoptors included organizations as well as individuals including celebrity. The Jharkhand Zoo Authority expresses its sincere thanks and gratitude to all of them. A brief account of the animals under adoption during 2012-13 is given here under :-

SI. No.	Name of adopter	Animals adopted	Period
1.	Ms. Priyanka Chopra	Lioness Sundry	1 years
2.	Punjab National Bank Divisional Office, Bagrai Market, Ranchi.	All Indian Peacocks of this zoo.	5 years
3.	MECON Ltd, Ranchi	Leopards – Raja, Sita & Gita Tiger – Sugreeva	5 years

4.	RMD, SAIL, Ranchi	Elephants : Samrat, Lakhi & Ramu	5 years
5	Shri Ramesh Chakraborty Lalpur, Ranchi	Langur	1 years
6	Smt. Indira Chakraborty Lalpur, Ranchi	Hill mynah	1 years

The authority expects more adoptions in the years to come.

10. Zoo Education Programme

Bhagwan Birsa Biological Park conducted different types of zoo – education programmes like celebration of wildlife week, Biodiversity Conservation Day etc. during 2012-13.

During wildlife week (first week of October) this year, essay and painting competitions on various topics related to the subject of wildlife were organized involving students of many schools situated in the Ormanjhi Block. Prizes were distributed among winning students. Dr. D.K. Shrivastava, IFS, Regional Chief Conservator of Forests, Ranchi, was the Chief Guest on this occasion.

In order to strengthen and diversify the zoo education programme, a modern audio – visual public education centre - cum – library has been built in the zoo premises. It is a two storey building of architectural grandeur. The ground floor of the building has modern audio visual facility while the first floor has library facility. It is planned to show wildlife related films to the visitors. The theatre can also serve as a conference hall. The library on the first floor contain books & publications related with wildlife issues. The library has been inaugurated by Shri M.S. Dhoni, the captain of the Indian Cricket Team who is also the Brand Ambassador of Jharkhand Forest Deptt while the audiovisual center has been inaugurated by Shri Sudesh Mahto, the Deputy Chief Minister-cum- Minister, Deptt of Forests & Environment.

11. Snake House :

A snake house, recently built with proper arrangement of temperature and humidity regulation, was opened for public on after its inauguration by Shri Sudesh Mahto, Honble Minister, Forests & Environment, Govt of Jharkhand.

It consists of 15 cells which can house approximately 50 snakes of different species. The viewer side of each cell is made up of glass and each cell has been environmentally enriched. At present some so snakes of 12 different species are housing this snake park. This is our added attraction for zoo visitors especially children.

12. Cactus Garden :

A cactus garden has recently been created by the side of Audio – Visual center. As many as 60 species of cactus have been kept here. This is a place of special attraction for those who have some interest in cactus.

11. Feed Godown-cum-Kitchen

This facility catered well to the feed requirements of wild animals of the zoo in a very systematic manner. Different types of diets were prepared as per prescriptions of the competent body, in the kitchen every day and served to the wild animals of the park. The work of preparing of various diets for animals required, as usual, utmost care and expertise from the staff of the zoo. Feed materials were procured from open market through tender. However, green fodder was mostly produced internally in the fodder plot of the zoo. Due importance was given to the quality and quantity of the feed article supplied to the zoo.

12. Garden section

The zoo has around 5 acres of land under gardens or lawns at different places inside the zoo which was maintained and tended at regular intervals round the year. A big lawn-cum-garden by the side of the lake and another by the side of the audio- visual centre-cum-public library are centres of great attraction for visitors. Nearly 1000 potted plants were

also maintained, with perennial or season plants, flowering or otherwise, round the year. This facility has been developed to break the monotony of the visitors, make them feel fresh and proximity to the nature and also to encourage them to spend their leisure time in peace and tranquility. A small lawn-cum- garden has been prepared and maintained near the lion cage.

13. Animal Health Care :

For taking care of animal health requirements, there was a full-time experienced veterinarian and a trained compounder in the zoo. They regularly monitored the health of animals and took suitable preventive and curative measures. In need of external help, this was taken from Ranchi Veterinary Collage and also from local practicing private veterinarians or from other zoos.

➤ **Infrastructure for animal health care in the zoo.**

- (a) A well equipped operation theatre and pathological laboratory.
- (b) Isolation wards to facilitate treatment and nursing of sick / injured and orphan animals.
- (c) A quarantine ward to house the rescued and newly acquired animals having small and big cells with open / closed nurseries.
- (d) A well-equipped post-mortem room.
- (e) A wood – based incinerator, to dispose the carcass of animals by burning.

➤ **Prophylactic Protocol**

- (a) For control of endoparasitic load screening of faecal samples of all captive animals, birds and reptiles were done at regular intervals and deworming were done accordingly.
- (b) For control of blood protean disease, periodic screening of blood samples was done and inj. triquine (quiropyramine sulphate and quinopyramin chloride) was administered thrice a year.

- (c) To prevent from feline pandedukopenia and feline trichorhinitis in big cats vaccine Fel-o-Vax I/M was administered.

14. Birth of animals during 2012-13

Sl. No.	Species	01.04.2011 TO 31.03.2012					
		M	F	U	Date of Birth	No. of Animals	Remarks/Place of Birth
1	2	3	4	5	6		7
1	Sambhar	-	-	U	20.12.2012	4	
				U	25.12.2012		
				U	15.01.2012		
				U	24.01.2013		
2	Barking Deer	-	-	U	28.12.2012	2	
					31.12.2012		
3	Black Buck	-	-	U	05-02-2013		
4	Spotted Deer	-	-	U	15.04.2012	18	
				U	26.04.2012		
				U	24.05.2012		
				U	28.05.2012		
				U	28.09.2012		
				U	30.09.2012		
				U	25.10.2012		
				U	27.10.2012		
				U	02.11.2012		
				U	18.12.2012		
				U	18.01.2013		
				U	18.01.2013		
				U	20.01.2013		
				U	24.01.2013		
				U	27.01.2013		
				U	10.02.2013		
				U	15.02.2013		
				U	18.02.2013		
5.	Emu	-	-	U	28.03.2013	3	
				U	28.03.2013		
				U	28.03.2013		
6	Leopard Cat	-	-	U	02.06.2012	1	
7	Indian Peacock	-	-	U	06.06.2012	2	
				U	06.06.2012		
8	Cockatiel	-	-	U	20.10.2012	1	
9	Swan	-	-	U	20.10.2012	2	
					25.10.2012		
Total						33	

15. Death of animals during 2012-2013

SI. No.	Animal Name	Sex	Date of death	Reason of Death
i	ii	iii	iv	v
1	Nilgai	F	17.07.2012	Aute Heart failure due to cardiae tamponade.
2	Black buck	F	25.08.2012	Cardio respiratory failure due to old age & enteritis
3	Hyaena Stripped	F	10.09.2012	Death may be due to septicaemia
4	Black buck	F	17.09.2012	Due to pneumonia & old age.
5	Black buck	M	20.09.2012	Due to pneumonia & old age.
6	Black buck	F	19.10.2012	Due to Interstitial pneumonia.
7	Nilgai	M	20.10.2012	Cardio respiratory failure due to puncture of lung.
8	Red Japanese pheasant	F	25.10.2012	Cardio respiratory failure due to involvement of lungs, liver & kidney.
9	Deer Spotted	F	09.12.2012	Due to toxaemia & septicaemia with signs of nephritis & enteritis.
10	Mandrin duck	F	26.12.2012	Due to nephritis.
11	Nilgai	M	27.12.2012	Cardio respiratory failure due tympany.
12	Parrakeets (Nine)	M-3 F-6	29.12.202	Cardio respiratory failure due to inclement weather with involvement of respiratory tract.
13	Parrakeets (Four)	M-1 F-3	28.01.2013	Due to acute respiratory tract infection.
14	Parrakeets (Seven)	M-2 F-5	04.02.2013	Due to acute respiratory tract infection.
15	Deer Sambhar	M	14.02.2013	Cardio- respiratory failure due to haemorrhagic shock.
16	Black buck	F	24.02.2013	Cardio respiratory failure due to old age & pulmonary emphysema.

16. Rescue & Rehabilitation :

SI. No.	Species	Sex			No	Date	From where acquired
		M	F	U			
1	Leopard	M	-	-	1	31.03.2013	Village Harra (chanho Block).
2	Stripped Hyaena	-	F	-	1	25.07.2012	Bundu (near sonahatu).
3	Nilgai	M	-	-	1	09.11.2012	Tata Steel Zoological Park, Jamshedpur.
4	Spotted Deer	M	-	-	1	11.01.2013	Bero, Ranchi.
5	Sloth Bear	M	-	-	1	25.06.2012	Lapung, Ranchi.
6	Indian Peacock	-	-	U	3	31.3.2013	Ranchi East Forest Div.

17. Animal Exchange/Disposal During 2012 - 2013

In order to enhance animal diversity, following wild animals were exchanged between Deer Rehabilitation Centre, Silli, Ranchi & Bhagwan Birsa Biological Park, Ranchi in during 2012-13 under Animal Exchange Programme :

S. N.	Species	Sex			N o.	Date	From where	To Where	Remarks
		M	F	U					
1	Spotted Deer	2	3	-	5	18.12.2012	Bhagwan Birsa Biological Park, Ranchi	Deer Rehabilitation Centre, Silli, Ranchi	Disposal

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