

SANJAY GANDHI BIOLOGICAL PARK, PATNA

Annual Report for the year
2017-18



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1. Report of the Officer-in-charge

Sanjay Gandhi Biological Park is the only Biological Park in the State of Bihar where animals of about 110 species are housed including Indian one horned Rhinoceros, Tiger, Leopard, Clouded Leopard, Hippopotamus, Crocodile, Elephant, Himalayan black bear, Jackal, Black bucks, Spotted deer, Peafowl, Hill myna, Gharial, Python, Indian Rhinoceros, Chimpanzee, Giraffe, Zebra, Emu, and White peacock.

The Park is currently having more than 300 species of trees, herbs and shrubs. Plant exhibits including a nursery for medicinal plants, an orchid house, a fern house, a glass house, and a rose garden. The Park also includes an Aquarium where about 35 species of fishes are housed. A Nocturnal House has been constructed for the nocturnal animals.

The Central Zoo Authority has approved the Master Plan of the Zoo for future development which will be executed in phased manner. A Rhino Conservation & Breeding Centre is being constructed with the prior approval and funding from the Central Zoo Authority.

A Zoo Education Centre has been construction for awareness, education among the people especially children about wildlife. The zoo is very sensitive about the facilities for visitors, public conveniences and other amenities also.

2. History of the Zoo

The Park was first established as a **Botanical garden** in 1969. The then Hon'ble **Governor of Bihar**, Sri **Nityanand Kanoongo**, provided almost 34 acres of land from the **Governor** House campus for the garden. In 1972, 58.2 acres of land of Public Works Department and 60.75 acres land of **Revenue Department** was transferred to the **Forest Department** to expand the park. Since 1973, this park is being developed as a Biological park, combining a **botanical garden** with a **zoo**. The land acquired from the Public Works Department and the Revenue Department has been declared as **Protected Forest** by the State Government on 8 March 1983. In the year 1980, it was named as 'Sanjay Gandhi Biological Park'.

This is the only Biological Park in the State of Bihar where animals of about 110 species are housed including Tiger, Leopard, Clouded Leopard, Hippopotamus, Crocodile, Elephant, Himalayan black bear, Jackal, Black bucks, Spotted deer, Peafowl, Hill myna, Gharial, Python, Indian Rhinoceros, Chimpanzee, Giraffe, Zebra, Emu, and White peacock.

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house, a glass house, and a rose garden. The Park also includes an Aquarium where about 35 species of fishes are housed.

3. Vision

The vision of the Park is to educate and generate awareness about the fauna & flora among the people especially children who are the future of the country.

4. Mission

To save and protect wildlife through conservation, research, education as well as to provide better facility to the rescued animals. Breeding of animals especially endangered species and to release them in their natural habitat for maintaining the ecological balance.

5. Objective

The main objective of the zoos shall be to complement and strengthen the national efforts in conservation of the rich biodiversity of the country, particularly the wild fauna. This objective can be achieved through the following protocol :-

- a. Conservation of endangered species.
- b. To inspire amongst zoo visitors empathy for wild animals, and understanding and awareness about the need for conservation of natural resources and for maintaining the ecological balance.
- c. Providing opportunities for scientific studies useful for conservation.
- d. Besides the aforesaid objectives, the zoos shall continue to function as rescue centres for orphaned wild animals.

6. About us

S.No.	Particulars	Information
Basic Information about the Zoo		
1	Name of the Zoo	Sanjay Gandhi Biological Park, Patna
2	Year of Establishment	1972
3	Address of the Zoo	Sanjay Gandhi Biological Park, P.O. G.P.O. Patna- 800 001
4	State	Bihar
5	Telephone Number	0612-2217455
6	Fax Number	-
7	E-mail address	patnazoo@yahoo. com
8	Website	www.zoopatna.com
9	Distance from nearest	Airport: 2 Kms.
		Railway Station: 6 Kms.
		Bus Stand: 8 Kms.
10	Recognition Valid upto (Date)	30 th April, 2018
11	Category of zoo	'A'
12	Area (in Hectares)	153.00 Acres
13	Number of Visitors (Financial Year)	Adult : 19,31,568
		Children : 2,80,122
		Student : 81,020
		Total Indian : 22,92,710
		Total Foreigners : -
		Total Visitors: 22,92,710

S.No.	Particulars	Information
14	Visitors' Facilities Available in Zoo	<ol style="list-style-type: none"> 1. Purified water 2. Wheel chair to disabled person 3. Pram for small child. 4. Toilet 5. Clock room 6. Restaurant 7. Battery Operated Vehicle 8. Visitor's shed 9. First Aid 10. Children's Park 11. Library 12. Guide Map
15	Weekly Closure Day of the Zoo	Monday
Management Personnel of the zoo		
16	Name with designation of the Officer in-charge	Shri Amit Kumar, IFS Director, Sanjay Gandhi Biological Park, Patna
	Name of the Veterinary Officer	<ol style="list-style-type: none"> 1. Dr. Ram Kumar Pandey 2. Dr. Samrendra Bahadur Singh
	Name of the Curator	-
	Name of the Biologist	-
	Name of the Education Officer	-
	Name of the Compounder/ Lab Assistant	Shri Maksudul Hassan, Compounder
Owner / Operator of the Zoo		
17	*Name of the Operator	Principal Secretary, Deptt. of Environment & Forests, Govt. of Bihar
18	Address of the Operator	Sinchani Bhawan, Patna.
19	Contact details/Phone number of Operator	0612-2217713/ Mob. 09473191443

S.No.	Particulars	Information
20	E-mail address of Operator	patnazoo@yahoo.com

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

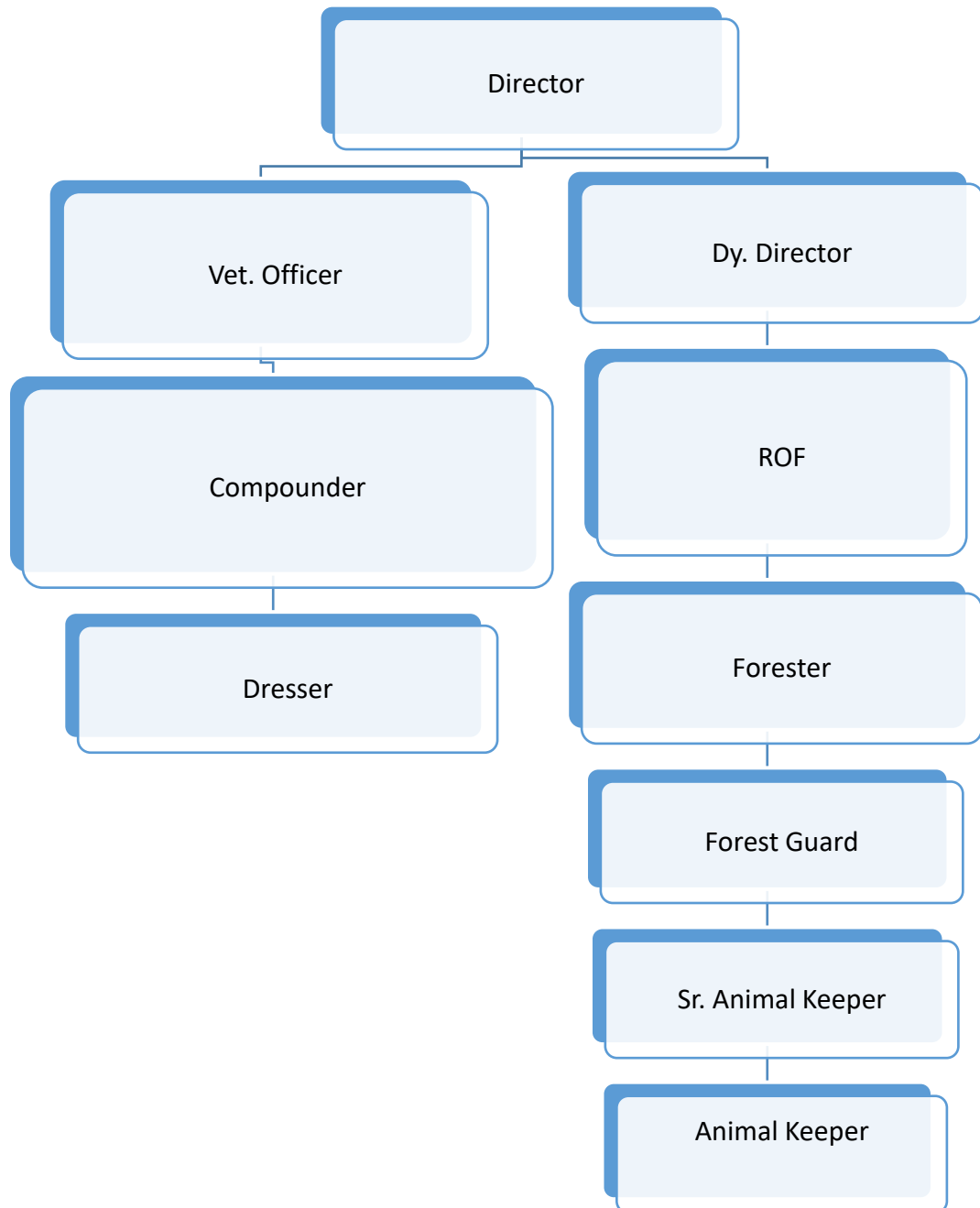
“Zoo Operator” means the person who has ultimate control over the affairs of the zoos provided that_____

I. in the case of a firm or other association of individuals, any one of the individual partners or members thereof; or

II. in the case of a company, any director, manager, secretary or other officer, who is in-charge of and responsible to the company for the affairs of the zoo; or

III. In case of zoo owned or controlled by the Central Government or any State Government or Union Territory Administration or any Trust or Society funded by the Central Government or a State Government or a Union Territory Administration, the Secretary of the concerned Department of that Government, or as the case may be the Union Territory Administration, shall be deemed to be the Zoo Operator.

7. Organizational Chart



8. Human Resources

Manpower of the Zoo*

Sl.No.	Designation	No. of sanctioned Post	No. of Post held	No. of Vacancy	Names of the incumbent
1	Director	1	1	0	Sri Amit Kumar
2	Dy. Director	1	1	0	Sri J.K. Singh
3	Vet. Officer	2	2	0	1 Dr. R.K. Pandey, 2 Dr. S.B. Singh
4	ROF	2	2	0	1 Sri Manoj Kumar, 2 Sri K.K.Himanshu
5	Head Clerk	1	0	1	-
6	Stenographer	1	0	1	-
7	Clerk	7	3	4	1 Sri N.K. Sharma, 2 Sri S.K. Srivastawa, 3 Smt. Kalawati Devi
8	Forester	5	5	0	1 Sri Rampati Razak, 2 Sri Rajaram Mandal, 3 Sri Arun Kumar, 4 Sri Jang Bahadur Ram, 5 Sri Surendra Singh
9	Compounder	2	1	1	Sri Maksudul Hassan
10	Driver	5	2	3	1 Sri Awadh Kishore Singh, 2 Sri Mahboob Alam
11	Forest Guard	16	1	15	Sri Jitendra Kr. Mahto
12	Senior Animal Keeper	3	0	3	-
13	Animal Keeper	64	40	24	1 Sri Rajendra Gope 2 Sri Parmeshwar Ram 3 Sri Prabhu Dayal Rai 4 Sri Shatrughan Paswan 5 Sri Kishun Raut 6 Sri Raudi Ram 7 Sri Chandraket Singh 8 Sri Ashok Kumar 9 Sri Suresh Prasad 10 Sri Subodh Prasad 11 Sri Chandradeo Singh 12 Sri Jagat Kishor Mahto 13 Sri Mukteshwar Singh 14 Sri Baijnath Paswan 15 Sri Bashiruddin 16 Sri Binda Rai 17 Sri Ram Prasad 18 Sri Qaisar Abbas 19 Sri Dinanath Paswan 20 Sri Musaffir Yadav 21 Sri Dipu Mahto 22 Sri Dinanath Prasad

					23 Sri Dinesh Kumar 24 Sri Murari Prasad 25 Sri Rawan Kr. Singh 26 Sri Naresh Mochi 27 Sri Rajendra Singh 28 Sri Rajendra Prasad 29 Sri Rabindra Nath Singh 30 Sri Ramesh Paswan 31 Sri Shiv Prasad 32 Sri Dasai Mahto 33 Sri Shakir Hussain 34 Sri Vijay Prasad 35 Sri Mahesh Jha 36 Sri Krishna Kumar Srivastav 37 Sri Abhimanyu Pandey 38 Sri Vishek Kumar 39 Sri Devnandan Bind 40 Sri Vikram Kumar
14	Mali	15	6	9	1 Sri Panchu Das 2 Sri Ram Binod Singh 3 Sri Shyam Sundar Prasad 4 Sri Brijnandan Rajak 5 Sri Budhan Choudhary 6 Sri Sahbir Ram
15	Pump Operator	2	1	1	Sri Umesh Prasad
16	Plumber	1	1	0	Sri Ramashray Ram
17	Museum Keeper	1	0	1	-
18	Electrician	1	0	1	-
19	Mahawat	3	2	1	1 Sri Ravindra Prasad 2 Sri Jawahar Rai
20	Chowkidar	3	2	1	1 Sri Bilat Thakur 2 Sri Ram Govind Ram
21	Peon	4	3	1	1 Sri Bhim Ram 2 Sri Rakesh Kumar Jha 3 Smt. Kabutari Devi
22	Sweeper	7	4	3	1 Sri Raja Ram 2 Sri Prem Ram 3 Sri Telesphor Topo 4 Sri Rajnandan Munda
23	Baira	2	2	0	1 Sri Arun Kumar 2 Sri Pramod Kumar
24	Cook	3	2	1	1 Sri Vishun Raut 2 Sri Sushil Singh
25	Thela Chalak	1	1	0	Sri Munshi Ram
26	Sapera	1	1	0	Sri Madan Sharma
27	Dresser	1	1	0	Sri Dinesh Jha
28	Aquarium Attendant	3	2	1	1 Sri Rajnandan Sharma 2 Sri Bachcha Pd. Singh
29	Carpenter-cum-Weilder	1	0	1	-
Total		159	86	73	

*Please give abovementioned information in respect of all zoo personnel, from the Officer in-charge upto the Animal Keeper.

9. Capacity Building of zoo personnel

Sl.No.	Name and designation of the zoo personnel	Subject matter of Training	Period of Training	Name of the Institution where the Training attended
1	Sri Kamaljeet Singh, IFS Director, SGBP, Patna	Ecosystem Services- Valuation and Policy Issues”	20-24 November, 2017	Centre for Forest and Natural Resource Management Studies (CEFNARM), Dullapally, Hyderabad
2	-do-	“Vision 2030 of the Zoos in India”	18-21 December, 2017	Mysore Zoological Garden.
3	Dr. Ram Kumar Pandey, Veterinary Officer.	Capacity Building of Indian Zoo Veterinarians on Animal Health Management in Captivity	16-19 September 2017.	National Zoological Park, New Delhi

10. Zoo Advisory Committee – ----

a. Date of constitution

b. Members

c. Dates on which Meetings held during the year

11. Health Advisory Committee–

a. Date of constitution : - 07- 01-2005

b. Members :-

- 1) Dr. Ali Ahmed Khan (President)
- 2) Principal, Bihar Veterinary College, Patna
- 3) Dr. B.B. Verma Retd. Principal, Bihar Veterinary College, Patna
- 4) Dr. Lala Naresh Prasad, Retd. H.O.D, Pathology, Bihar Veterinary College, Patna
- 5) Dr. Samant Ray, H.O.D., Parasitology, Bihar Veterinary College, Patna
- 6) Director, I.A.H.P, Patna
- 7) Dr. Badri Prasad (Homeopath)

c. Dates on which Meetings held during the year

- 1) 17.07.2017 2) 19.02.2018

12. Statement of income and expenditure of the Zoo

Year	Total Revenue (Rs.)	Total Expenditure
2017-18	8,74,49,569/-	11,76,59,159/-

13. Daily feed Schedule of animals

Diet Chart of Sanjay Gandhi Biological Park, Patna							
Sl.No.	Name of animals	Feed Item	Quantity (per animal)				
			Winter		Summer		Fasting
			Per Day	Weekly	Per Day	Weekly	Every Monday
01	Lion	Beef (Buffalo)	11.000		8.000		
		Chicken	7.500		7.000		4.200
02	Tiger	Beef (Buffalo)	15.000		11.000		
		Chicken	0.000		0.000		1.000
	Tiger (cub)	Chicken	2.500		2.000		1.500
03	Bear	Cucumber	0.150		0.150		0.150
		Apple	0.400		0.700		0.400
		Banana	0.750		0.750		0.750
		Chana	0.075		0.150		
		Gur	0.700		0.700		
		Milk	3.000		2.500		0.750
		Atta Roti	1.000		0.750		0.750
		Badam	0.150		0.750		
		Rice	0.350		0.300		
		Papaya	0.150		0.350		
		Carrot	0.100				
		Chyawanprash	0.030				
		Egg	2				
		Honey		0.100		0.100	
04	Leopard	Beef (Buffalo)	0.800		0.200		
		Chicken	2.000		2.000		1.150

05	Chimpanzee	Milk	0.750		0.750		0.750
		Rice	0.125		0.125		0.125
		Gur	0.075		0.075		0.075
		Banana	1.250		1.000		1.250
		Apple	0.750		0.500		0.750
		Pomegranate	0.750		1.000		1.000
		Onion	0.100		0.100		0.100
		Chana	0.050		0.050		0.050
		French Bean	0.100		0.100		0.100
		Egg	2				
		Chyawanprash	0.030				
		Daav			2		
		Mango			0.750		
		06	Hyena	Beef (Buffalo)	1.000		1.000
Chicken	1.000				1.000		1.000
07	Wolf	Chicken	2.500		2.500		2.500
		Beef (Buffalo)	0.500		0.500		
08	Monkey	Chana	0.050		0.050		0.050
		Badam	0.050		0.050		0.050
		Banana	0.500		0.500		0.500
		Cucumber	0.100		0.100		0.100
		Sweet Potato	0.100				0.100
		Guava			0.100		
		Atta Roti	0.100		0.100		0.100
09	Hippopotamus	Deermesh	5.500		5.500		1.600
		Banana	2.000		2.000		0.600
		Bhusa	7.000		7.000		7.000
		Choker	20.000				20.000
		Sudan Grass			50.000		
		Brinjal	0.200	Tue	0.200		
			0.200	Fri	0.200		
		Pumpkin	0.200	Wed	0.200		
			0.200	Sat	0.200		
		Potato	0.200	Thu	0.200		
			0.200	Sun	0.200		
		10	Giraffe	Deermesh	1.000		0.800
Chana	2.000				1.800		
Wheat	1.000				0.600		
Choker	1.000				1.000		1.000
Moong	1.000				0.600		
Banana	7.000				7.000		2.500
Cucumber	2.000				2.000		2.000
Apple	3.000				3.000		3.000
Potato	0.600				0.600		0.600

		Cabbage	0.350		0.350		0.350
		Onion	0.150		0.150		0.150
11	Rhinoceros	Deermesh	7.000		7.000		1.500
		Chana	1.500		1.500		1.000
		Atta	1.000		1.000		1.000
		Wheat	1.400		1.400		1.000
		Gur	0.600		0.600		0.500
		Besan	0.500		0.500		0.500
		Moong	0.050		0.050		
		Banana	1.500		1.500		1.500
		Bhusa	11.000		11.000		11.000
		Choker	5.500				5.500
		Sudan Grass			50.000		
		Barseem Grass	50.000				
		12	Gaur	Deermesh	2.500		2.500
Bhusa	10.000				10.000		10.000
Gur	0.500				0.500		0.500
Salt	0.150				0.150		0.150
Banana	0.500				0.500		0.500
Choker	2.000						2.000
Sudan Grass					30.000		
13	Zebra	Deermesh	1.000		1.000		1.000
		Chana	1.500		1.500		1.500
		Wheat	1.000		1.000		1.000
		Moong	0.250		0.250		0.250
		Gur	0.500		0.500		0.500
		Bhusa	5.000		5.000		5.000
		Choker	3.000				3.000
		Sudan Grass			10.000		
14	Elephant	Deermesh	3.750		3.750		
		Paddy	12.500		12.500		12.500
		Banana	5.000		5.000		2.500
		Cucumber	2.500		2.500		2.500
		Atta Roti	2.000		2.000		2.000
		Sugarcane	25.000				25.000
		Sudan Grass			100.00		
		Banana Thumb			30.000		
		Bamboo leaf	10.000				
15	Vulture	Beef (Buffalo)	1.000		1.000		

16	Emu	Chana	0.200		0.200		
		Moong	0.070		0.070		
		Banana	2.350		2.350		0.200
		Onion	0.060		0.060		
		Garlic	0.020		0.020		
		Spinach	0.300		0.300		
		Egg	1				
17	Ghariyal	Rehu			1.500	Sun	
					1.500	Thu	
18	Jackle	Beef (Buffalo)	0.500		0.500		
19	Cassowary	Banana	2.000		2.000		
		Chana Sattu	0.250		0.250		
		Spinach	0.500		0.500		
20	Ostrich	Banana	1.250		1.250		0.250
		Wheat	0.150		0.150		
		Bajra	0.075		0.075		
		Chana	0.250		0.250		0.250
		Moong	0.150		0.150		0.150
		Maize	0.250		0.250		
		Atta Roti	0.200		0.200		
		Poultry feed	0.375		0.375		0.375
		Onion	0.150		0.150		
		Garlic	0.025		0.025		
		Spinach	0.500		0.500		
		Tomato	0.125		0.125		
21	Peafowl	Bajra	0.050		0.050		
		Wheat	0.150		0.150		
		Paddy seed	0.050		0.050		
		Onion	0.125		0.125		
		Garlic	0.025		0.025		
		Spinach	0.250		0.250		
22	Rosy Pelican	Rehu	1.500				
23	Sarus Crane	Maize Darra	0.100				
		Poultry feed	0.750				
24	Deer Hog	Deermesh	0.600		0.600		0.600
		Bhusa	0.150		0.150		0.150
		Chokar	0.175		0.175		
		Chana	0.175		0.175		
		Wheat	0.060		0.060		

25	Deer Barking	Deermesh	0.600		0.600		0.600
		Bhusa	0.150		0.150		0.150
		Chokar	0.175		0.175		
		Chana	0.175		0.175		
		Wheat	0.060		0.060		
26	Deer Spotted	Deermesh	0.400		0.400		
		Bhusa	0.700		0.700		0.700
		Chokar	0.300		0.300		
27	Deer Swamp	Deermesh	1.200		1.200		
		Bhusa	0.300		0.300		0.300
		Chokar	0.700		0.700		0.700
		Gur	0.030		0.030		0.030
28	Sambhar Deer	Deermesh	1.100		1.100		
		Bhusa	1.700		1.700		1.700
		Chokar	1.000		1.000		
		Gur	0.030		0.030		
29	Black Buck	Deermesh	0.450		0.450		
		Bhusa	0.500		0.500		0.500
		Chokar	0.250		0.250		
30	Deer Sangai	Deermesh	2.000		2.000		2.000
		Chana	1.250		1.250		1.250
		Gur	0.250		0.250		0.250
31	Black Swan	Banana	0.500		0.500		0.500
		Chana	0.100		0.100		
		Wheat	0.150		0.150		
		Moong	0.150		0.150		
		Spinach	0.500		0.500		
32	Otter	Rehu	3.000		3.000		
33	Muggar	Beef (Buffalo)				1.500 (twice in a week)	
34	Sand boa	Chick	1	Thu	1	Thu	
			1	Sun	1	Sun	
35	Cobra	Guinea pig	5	Thu	5	Thu	
			5	Sun	5	Sun	
		Chick	2	Thu	2	Thu	
			2	Sun	2	Sun	
36	Python	Cockerel	1.000	Thu	1.000	Thu	
			1.000	Sun	1.000	Sun	
37	Russell Viper	Guinea pig	10	Thu	10	Thu	
			10	Sun	10	Sun	

38	Rat Snake	Chick	3	Thu	3	Thu	
			3	Sun	3	Sun	
39	Goh	Rehu	0.250	Thu	0.250	Thu	
			0.250	Sun	0.250	Sun	
40	Hill Myna	Chana Sattu	0.075		0.075		0.020
		Banana	0.200		0.200		0.050
41	Haril	Chana Sattu	0.040		0.040		0.010
		Banana	1.000		1.000		0.125
42	Dhanesh	Chana Sattu	0.100		0.100		0.030
		Banana	2.500		2.500		0.750
43	Small Birds (Budgeriger, Cockatiel, Love Bird)	Paddy seed	0.100		0.100		
		Kauni	0.425		0.425		
		Bajra	0.225		0.225		
		Chinna	0.200		0.200		
44	Birds (Illiger's Macaw, Scarlet Macaw, Cockatoo)	Chana	0.500		0.500		
		Badam	1.100		1.100		
		Apple	1.500		1.500		1.500
		Papaya	1.250		1.250		
		Chilli	0.125		0.125		0.125
		French Been	0.250		0.250		0.250
		Sugarcane	1.000		1.000		1.000
45	(Kalij Pheasant, Silver Pheasant, White Peafowl)	Maize Darra	0.400		0.4		
		Bajra	0.100		0.100		
		Paddy seed	0.500		0.500		
		Kauni	0.100		0.100		0.100
		Wheat	0.750		0.750		
		Poultry feed	0.750		0.750		
		Birdmesh	0.500		0.500		
		Onion	0.350		0.350		
		Garlic	0.100		0.100		
		Spinach	1.000		1.000		
		Egg	2		2		
		Green Salad					4.000
		46	Buzzard	Day ond Chick	2		2
47	Owl	Day ond Chick	2		2		2
48	Kite	Beef (Buffalo)	0.200		0.200		0.200
49	Golden Cat	Chicken	1.000		1.000		1.000
50	Leopard Cat	Chicken	1.000		1.000		1.000
51	Jungle Cat	Chicken	1.000		1.000		1.000

52	Sahil	Banana	1.000		1.000	
		Cucumber	0.300		0.300	
		Chana	0.060		0.060	
		Badam	0.125		0.125	
		Apple	0.300		0.300	
		Sweet Potato	0.300		0.300	
		Potato	0.190		0.190	
		Atta Roti	0.125		0.125	
53	Civet Cat	Banana	0.750		0.750	
		Apple	0.250		0.250	

14. Vaccination Schedule of animals

Sl.No.	Species	Disease vaccinated for	Drug	Periodicity	Quantity & Variation
01	Feline (Big Cat)	Feline rhinotracheitis virus, Feline calici virus, Panleucopenia virus	Feligen CRP	Annually	1 does per adult
		Trypanosoma (Surra)	2. Antitryps =Triquin		0.25 ml per 10 kg body wt.
02	Elephant	Tetnus	1. Tet-vac	Annually	2 ml per adult
		Foot & Mouth disease	2. FMD Vaccine		2 ml per adult

15. De-worming Schedule of animals

Sl.No.	Species	Drug used	Periodicity	Quantity & Variation
01	Lion (adult)	Fenbendazole	Quarterly	1.5 gm for three days
02	Tiger (adult)	Fenbendazole	Quarterly	1.5 gm for three days
03	Leopard (adult)	Fenbendazole	Quarterly	750 mg per for 3 days
04	Birds (Companion birds)	Worm out Gel 20 gm/L praziquantel 20 gm/L oxfendazole	Quarterly	2 ml in 160 ml water 5 mg per kg body wet
05	Ungulates	Fenbendazole/Ivermectin	Quarterly	Fenbendazole -5 mg/kg body wt. Ivermectin - 1 mg / 5 kg body

				wt.
06	Rhinoceros	Fenbendazole	Quarterly	9 gm per adult
07	Elephant	Fenbendazole	Quarterly	12 gm per adult
08	Bison (adult)	Fenbendazole/Ivermectin / Albendazole	Quarterly	Fenbendazole - 3 gm Ivermectin. - 100 mg Albendazole - 3 gm
09	Giraffe (adult)	Fenbendazole	Quarterly	2.5-3 gm per adult
10	Hippo	Fenbendazole	Quarterly	8 gm per adult
11	Jungle Cat	Fantas Plus Fenbendazole - 150 mg Praziquantel - 50 mg	Quarterly	1/2 tab. for 3 days
12	Leopard Cat	Fantas Plus Fenbendazole - 150 mg Praziquantel - 50 mg	Quarterly	1/2 tab. for 3 days
13	Sahil	Mebex Mebendazole - 100 mg	Quarterly	1/2 tab. per adult
14.	Fishing Cat	Fantas Plus Fenbendazole - 150 mg Praziquantel - 50 mg	Quarterly	1 tab. per adult
15.	Indian Fox	Fantas Plus Fenbendazole - 150 mg Praziquantel - 50 mg	Quarterly	1/2 tab. for 3 days
16	Zebra	Fenbendazole/Ivermectin	Quarterly	Fenbedazole - 1.5 gm Ivermectin - 80 mg
17	Cassowary	Mebex Mebendazole - 100 mg	Quarterly	150 mg
18	Emu	Mebex Mebendazole - 100 mg	Quarterly	150 mg
19	Ostrich	Mebex Mebendazole - 100 mg	Quarterly	200 mg per adult
20	Rosy Pelican	Mebex Mebendazole - 100 mg	Quarterly	100 mg per bird
21	Sloth bear	Fenbendazole/Ivermectin	Quarterly	1.5 gm per adult / 50 mg per adult
22	Himalayan Bear	Fenbendazole/Ivermectin	Quarterly	1.5 gm per adult / 60 mg per adult
23	Chimpanzee	Albendazole	Quarterly	400 mg for per adult
24	Hyena	Fantas Plus Fenbendazole - 150 mg Praziquantel - 50 mg	Quarterly	2 tab. per adult for 3 days

25	Wolf	Fantas Plus Fenbendazole - 150 mg Praziquantel - 50 mg	Quarterly	2 tab. per adult for 3 days
26	Squirrel	Ivermectin	Quarterly	1-2 mg
27	Jackle	Fantas Plus Fenbendazole - 150 mg Praziquantel - 50 mg	Quarterly	2 tab. for 3 days
28	Monkey & Langoor	Albendazole	Quarterly	5-7 mg per kg body wt.
29	Peafowl & Pheasant	Albendazole	Quarterly	5 mg per kg body wt.

Note :- Faecal sample for examination on 2nd week of March, June, September , December and subsequent deworming done on 3rd week of the month. After deworming adjunct medication is followed.

16. Disinfection Schedule

Sl.No.	Species	Drug	Periodicity	Quantity & Variation
01	Ungulates	Turning of soil and lime treatment	Quarterly	As needed
		Moat cleaning	Every Monday	
02	Birds	Kohrsolin-TH	fortnightly	100 ml per 10 litre of water as spray for regular disinfection
		Turning of soil and lime treatment	Quarterly	As needed
03	Feline , Canidae	Nighthouse disinfection by blow gun firing followed by turmeric powder spray.	Every Monday	As needed
		Outdoor enclouser- soil and lime treatment	Quarterly	As needed

Note :- As per requirement disinfection is performed before the schedule time.

17. Health Check-up of employees for zoonotic diseases

Sl.No.	Name	Designation	Date of Health Check up	Findings of Health Check up
Nil				

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

Sl No.	Work done
1	Renovation of Toy Train Platform
2	Establishment of Boring near Canteen
3	Construction of Stand of Barrier near Chimpanzee Cage
4	Construction of Shed near Giraffe Cage
5	Construction of Feeding chamber in Sambhar Cage
6	Construction of Shed near Nocturnal House
7	Fixation of Guide Map
8	Renovation of Sitting Umbrella near Children Park
9	Repairing work of concertina coil fence in parking
10	Re-location of hording near Gate no. 1
11	Renovation of Sitting Umbrella near Aquarium
12	Renovation of sitting Umbrella in front of fern house
13	Construction of Nala near Canteen
14	Construction of Concertina coil fence over vermi compost shed
15	Construction of Travis in Rhino enclosure
16	Renovation and Construction of Monkey cage
17	Installation of Boring near Gate no. 2
18	Installation of Boring near Giraffe cage
19	Installation of Boring near Rose Garden
20	Purchase of materials for Rhino Conservation Breeding Centre

19. Education and Awareness programmes during the year

A Zoo Education Centre has been established in the Park where wildlife awareness activities are being carried out, especially among the school children by film show related to wildlife three days in a week.

20. Important Events and happenings

Following events were organised during the year:-

1. Tiger Day (29 July 2017)



2. Rhino Day (22 September 2017)



3. Wildlife Week (02 – 09 October 2017)



4. Sparrow Day (20 March 2018)



21. Seasonal special arrangements for upkeep of animals

Diet control (addition and deletion of food items as per seasonal requirement) together with husbandry practices (Introduction of coolers, fans and room heaters, covering of windows and open spaces, trimming of large trees for proper sunbath are some activities done as per seasonal requirements) are under practice as seasonal special arrangements for upkeep of animals.

22. Research Work carried out and publications

Patna Zoo is in process to sign a memorandum of understanding with Patna Veterinary College to carry out research work on the wild animals kept at Zoo. A book based on the control of 'Man-Elephant Conflict' has been published.

23. Conservation Breeding Programme of the Zoo

Captive breeding of Greater one-horned rhinoceros in Sanjay Gandhi Biological Park has helped it to acquire global recognition. First pair of the pachyderm was brought to the park in 1979 and its breeding started in 1988. The park houses the highest number of individuals of the species in captivity after San Diego Zoo, California, U.S.A.

Breeding of endangered and rare animals is prime focus of the park. The park is one of the best breeding centres of the Greater One-horned Rhinoceros in the world. Breeding of the species started way back in 1988. The park witnessed the birth of two calves in 2011 and three calves in 2013. At present the zoo houses 12 rhinoceros (6 males and 6 females) of four different bloodlines. The following table Breeding Successfully enlists the species bred successfully in the park.

Breeding Successfully (Births in the last 5 years till 31.03.2018)		
Sl. No.	Species	No. of Births
1	Rhinoceros	7
2	Royal Bengal Tiger	3
3	White Tiger	6
4	Leopard Cat	2
5	Jungle Cat	11
6	Jackal	3
7	Slow Loris	1
8	Rhesus Macaque	2
9	Mascovy Duck	1
10	Black Buck	16
11	Swamp Deer	16
12	Barking Deer	12
13	Hog Deer	13
14	Spotted Deer	14
15	Sambhar Deer	15
16	Sloth Bear	2
17	Crocodile	5
18	Duck Mallard	1
19	Hyena	4
20	Silver Pheasant	2
21	Blue Bull	5
22	Giraffe	3

23	Pea Fowl	9
24	Langur Common	1
25	Asiatic Lion	2
26	Hippopotamus	1
27	Indian Rock Python	2

24. Animal acquisition / transfer / exchange during the year

A.	Animals arriving in the Zoo				
	H.NO.	Species	Number (M:F)	From which Zoo	Date of arrival in the zoo
		Kaleej Pheasant	1:0	Padmaja Naidu Himalayan Zoological Park, Darjeeling	14.12.2017
		Red Jungle Fowl	1:0	Padmaja Naidu Himalayan Zoological Park, Darjeeling	14.12.2017
	Golden Pheasant	3:3	Padmaja Naidu Himalayan Zoological Park, Darjeeling	14.12.2017	
B.	Animals going from the zoo				
	H.NO.	Species	Number (M:F)	Going to which Zoo	Date of deposition from the zoo
		Jungle cat	1:1	Padmaja Naidu Himalayan Zoological Park, Darjeeling	15.12.2017

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

1. Monkey & Langur	-	163
2. Bear	-	03
3. Snake	-	31
4. Goh	-	01
5. Owl	-	03
6. Porcupine	-	01
7. Jackal	-	02

26. Annual Inventory of animals

Form – II
[See Rule 11(1)]
Part – A

Inventory Report for the Year :

Endangered Species*

Sl. No.	Animal Name	Scientific Name	Stock as on 01.04.2017				During the Year												Stock as on 31.03.2018								
							Births			Acquisitions			Disposals			Deaths											
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T					
BIRDS																											
01	Buzzard	<i>Butastur teesa</i>	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	
02	Myna-Hill	<i>Gracula religiosa</i>	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	4	
03	Hornbill- Common Grey	<i>Tockus birostitis</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	
04	Hornbill-Indian pied	<i>Anthracoceros malabaricus</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	
05	Kite-Pariah/Black Kite	<i>Milvus migrans</i>	4	6	2	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	6	2	12	
06	Kite-Black Winged	<i>Elanus caeruleus</i>	1	3	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	4	
07	Peafowl	<i>Pavo cristatus</i>	4	12	0	16	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	3	9	0	12		
08	Peafowl-white	<i>Pavo cristatus</i>	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	
09	Pheasant Kaleej (Nepali)	<i>Lophura leucomelano</i>	0	3	0	3	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	1	1	0	0	2	
10	Red Jungle fowl	<i>Gallus gallus</i>	0	3	0	3	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	2	0	0	3	
11	Owl Eagle Forest	<i>Bubo nipalensis</i>	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
12	Vulture Himalayan Grffon	<i>Gyps himalayensis</i>	0	0	3	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	3	0	4	
13	Pheasant Grey Peacock	<i>Polyplectron bicalcaratum</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	
TOTAL BIRDS			13	38	6	57	0	0	0	3	0	0	0	0	0	0	1	7	0	15	31	6	52				
14	Bear-Himalayan Black	<i>Selenarctos thibetanus</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1
15	Bear- Sloth	<i>Melursus ursinus</i>	3	2	0	5	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	4	2	2	0	8	
16	Black Buck	<i>Antilope cervicapra</i>	21	26	12	59	0	0	5	1	0	0	0	0	0	6	1	0	0	0	16	25	17	0	0	58	
17	Cat Jungle	<i>Felis chaus</i>	6	5	0	11	2	0	0	0	0	0	1	1	0	4	0	0	0	0	3	4	0	0	0	7	
18	Cat Leopard	<i>Felis bengalensis</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	
19	Civet-Common Palm	<i>Paradoxurus hermaphroditus</i>	4	6	0	10	0	0	0	0	0	0	3	5	0	0	0	0	0	0	1	1	0	0	0	2	

20	Deer Brow-antlered (Sangai)	<i>Cervus eldi thamin</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
21	Deer Swamp (Barasingha)	<i>Cervus duvaucelli</i>	5	11	0	16	3	1	0	0	0	0	0	0	0	3	3	0	5	9	0	14	
22	Gaur Indian	<i>Bos frontalis gaurus</i>	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
23	Elephant-Indian	<i>Elephas maximus</i>	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	
24	Jackal	<i>Canis aureus</i>	4	5	3	12	0	0	0	0	1	0	0	0	0	0	0	0	4	6	3	13	
Sl. No.	Animal Name	Scientific Name	Stock as on 01.04.2017				During the Year												Stock as on 31.03.2018				
							Births			Acquisitions			Disposals			Deaths							
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T	
25	Langur-Common	<i>Presbytis entellus</i>	2	3	0	5	0	0	0	0	0	0	1	2	0	0	0	0	1	1	0	2	
26	Leopard / Panther	<i>Panthera pardus</i>	3	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	3	2	0	5	
27	Lion-Hybrid	<i>Panthera leo</i>	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
28	Lion Indian	<i>Panthera leo persica</i>	3	1	0	4	0	0	0	0	0	0	0	0	0	1	0	3	0	0	3		
29	Macaque-Assamese	<i>Macaca assamensis</i>	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
30	Macaque-Lion tailed	<i>Macaca silenus</i>	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
31	Macaque-Rhesus	<i>Macaca mulatta</i>	9	13	2	24	0	0	0	0	0	8	10	2	0	0	0	1	3	0	4		
32	Otter smooth Indian	<i>Lutra perspicillata</i>	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
33	Rhinoceros-Indian one horned	<i>Rhinoceros unicornis</i>	5	5	0	10	1	2	0	0	0	0	0	0	0	1	0	6	6	0	12		
34	Squirrel Gaint Malabar/Indian	<i>Ratufa indica</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1		
35	Tiger-Royal Bengal	<i>Panthera tigris tigris</i>	1	2	0	3	0	0	0	0	0	0	0	0	0	1	0	1	1	0	2		
36	Tiger-white	<i>Panthera tigris tigris</i>	1	3	0	4	0	0	0	0	0	0	0	0	0	0	0	1	3	0	4		
37	Wolf Indian	<i>Canis lupuspallipes</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2		
38	Indian Fox	<i>Vulpes bengalensis</i>	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1		
39	Fishing Cat	<i>Prionailurus viverrinus</i>	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2	0	0	2		
TOTAL MAMMALS			73	94	17	184	6	3	7	3	1	0	13	18	2	14	8	0	55	72	22	149	
REPTILES																							
40	Cobra-Indian	<i>Naja naja</i>	4	6	4	14	0	0	0	0	0	0	0	0	0	0	0	4	6	4	14		
41	Crocodile-Long snouted-Gharyial	<i>Gavialis gangeticus</i>	6	19	50	75	0	0	5	0	0	0	0	0	1	0	9	5	19	46	70		
42	Crocodile-Marsh-Muggar	<i>Crocodylus palustris</i>	1	1	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	
43	Monitor Water Lizard	<i>Varanus salvator</i>	2	5	0	7	0	0	0	0	0	1	4	0	0	0	0	1	1	0	2		
44	Python-Indian Rock	<i>Python molurus molurus</i>	4	3	12	19	0	0	0	0	0	0	0	0	1	1	0	3	2	12	17		
45	Snake Rat-Dhaman	<i>Ptyas mucosus</i>	0	0	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6		

46	Turtle- Indian soft-shelled	<i>Lissemys punctata</i>	35	25	250	310	0	0	0	0	0	0	0	0	0	0	0	0	35	25	250	310
47	Turtle- Ganges soft-shelled	<i>Aspideretes gangeticus</i>	5	8	8	21	0	0	0	0	0	0	0	0	0	0	0	0	5	8	8	21
48	Turtle- Three striped roof	<i>Batagur dhongoka</i>	1	3	0	4	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	4
TOTAL REPTILES			58	70	331	459	0	0	5	0	0	0	1	4	0	2	1	9	54	65	327	446
TOTAL ANIMALS			144	202	354	700	6	3	12	6	1	0	14	22	2	17	16	9	124	168	355	647

*Animals under Schedule I and Schedule II of the Wild Life (Protection) Act, 1972

Part – B

Other than Endangered Species

Sl. No.	Animal Name	Scientific Name	Stock as on 01.04.2017				During the Year												Stock as on 31.03.2018			
							Births			Acquisitions			Disposals			Deaths						
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
Other species																						
BIRDS																						
01	Budgeriger	<i>Melopsittacus undulatus</i>	7	26	45	78	0	0	0	0	0	0	0	0	0	0	0	0	7	26	45	78
02	Cassowary	<i>Casuarus casuarus</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
03	Cockatiel	<i>Nymphicus hollandicus</i>	1	4	20	25	0	0	0	0	0	0	0	0	0	0	0	0	1	4	20	25
04	Crane-Common	<i>Grus grus</i>	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
05	Crane-Sarus		1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
06	Duck-Brahmini	<i>Tadorna ferruginea</i>	4	6	0	10	0	0	0	0	0	0	0	0	0	2	0	4	4	0	8	
07	Emerald Dove	<i>Chakophaps indica</i>	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
08	Emu	<i>Dromaius novaehollandiae</i>	2	2	1	5	0	0	0	0	0	0	0	0	0	0	0	2	2	1	5	
09	Goose-Bar Headed	<i>Anser indicus</i>	5	6	0	11	0	0	0	0	0	0	0	0	0	2	0	5	4	0	9	
10	Heron-Night	<i>Nycticorax nycticorax</i>	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
11	Ibis-black	<i>Pseudibis papillosa</i>	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
12	Stork Adjutant (lesser)	<i>Leptoptilos javanicus</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1

13	Love Birds	<i>Agapornis</i>	2	5	17	24	0	0	0	0	0	0	0	0	0	0	0	2	5	17	24	
14	Duck Mallard	<i>Anas platyrhynchos</i>	2	5	3	10	0	0	1	0	0	0	0	0	0	0	0	2	5	4	11	
15	Moorhen	<i>Gallinula chloropus</i>	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	
16	Owl-Indian Great Horn	<i>Bubo bubo</i>	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	
17	Owl Barn	<i>Tyto alba</i>	0	0	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6	
18	Parakeet-Blossom Headed	<i>Psittacula cyanocephala</i>	0	0	18	18	0	0	0	0	0	0	0	0	0	0	0	0	0	18	18	
19	Pelican-Rosy/white	<i>Pelecanus onocrotalus</i>	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4	
20	Pheasant-Golden	<i>Chrysolophus pictus</i>	6	6	0	12	0	0	0	0	0	0	0	0	0	1	0	6	5	0	11	
21	Yellow-legged green Pigeon	<i>Treron phoenicoptera</i>	4	2	2	8	0	0	0	0	0	0	0	0	0	0	0	4	2	2	8	
22	Pheasant-Silver	<i>Lophura nycthemera</i>	2	5	18	25	0	0	0	0	0	0	0	0	2	0	0	0	5	18	23	
23	Pigeon-Common Green	<i>Treron phoenicoptera</i>	0	0	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	
24	Black Swan	<i>Cygnus atratus</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	
25	Ostrich	<i>Struthio camelus</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	
26	Duck Mandarin	<i>Aixgaleri culata</i>	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	
27	Medium sulpher crested Cockatoo	<i>Cacatua galerita elonora</i>	3	2	0	5	0	0	0	0	0	0	0	0	0	0	0	3	2	0	5	
28	Greater sulpher crested Cockatoo	<i>Cacatua galerita galerita</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	
29	Illiger's Macaw	<i>Primolium maracana</i>	0	0	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	
30	Scarlet Macaw	<i>Aro macao</i>	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	
31	Macaw Red & Green	<i>Spix's macaw</i>	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
Sl. No.	Animal Name	Scientific Name	Stock as on 01.04.2017				During the Year												Stock as on 31.03.2018			
			Births			Acquisitions			Disposals			Deaths										
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	T			
32	Finch Zebra	<i>Fringillidae</i>	0	0	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20	
	TOTAL BIRDS		51	76	181	308	0	0	1	0	0	1	0	0	0	2	5	0	49	71	183	303
MAMMALS																						
33	Deer-Barking	<i>Muntiacus muntjak</i>	3	11	6	20	0	0	4	0	0	0	0	0	2	1	0	1	10	10	21	
34	Deer-Hog	<i>Axis porcinus</i>	5	8	2	15	0	0	5	0	0	0	0	0	1	0	0	4	8	7	19	
35	Deer-Sambar	<i>Cervus unicolor</i>	18	24	3	45	0	0	1	0	0	0	0	0	2	0	18	22	4	44		
36	Deer-Spotted	<i>Axis axis</i>	21	29	16	66	0	0	3	0	0	0	0	0	3	1	0	18	28	19	65	

37	Hippopotamus	<i>Hippopotamus amphibius</i>	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3
38	Hyena-Stripped	<i>Hyaena hyaena</i>	3	1	0	4	0	0	2	0	0	0	0	0	0	0	0	2	3	1	0	4
39	Nilgai- Blue Bull	<i>Boselaphus tragocamelus</i>	3	4	1	8	0	0	2	1	0	0	0	0	0	0	0	0	4	4	3	11
40	Porcupine-Indian	<i>Hystrix indica</i>	6	4	5	15	0	0	0	0	0	2	0	0	0	3	0	0	3	4	7	14
41	Zebra Grant	<i>Equus quagga boehmi</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
42	Giraffe	<i>Giraffa camelopardalis</i>	1	2	0	3	0	2	0	0	0	0	0	0	0	0	0	0	1	4	0	5
43	Chimpanzee	<i>Pan troglodytes</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
	TOTAL MAMMALS		64	85	33	182	0	2	17	1	0	2	0	0	0	9	4	2	56	83	50	189
	REPTILES																					
44	Sand Boa	<i>Eryx johini</i>	0	0	13	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	13
45	Snake Water	<i>Enhydryis enhydryis</i>	0	0	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
46	Viper Russel's	<i>Viperarusselli</i>	0	0	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
	TOTAL REPTILES		0	0	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24

TOTAL BIRDS	64	114	187	365	0	0	1	3	0	1	0	0	0	3	12	0	64	102	189	355
TOTAL MAMMALS	137	179	50	366	6	5	24	4	1	2	13	18	2	23	12	2	111	155	72	338
TOTAL REPTILES	58	70	355	483	0	0	5	0	0	0	1	4	0	2	1	9	54	65	351	470
GRAND TOTAL	259	363	592	1214	6	5	30	7	1	3	14	22	2	28	25	11	229	322	612	1163

27. Mortality of animals

Sl.	Species	Scientific Name	Sex	No.	Date of death	Cause of death as diagnosed through P.M.
01	Deer Swamp	<i>Cervus duvaucelli</i>	F	01	08.04.17	Old Age
02	Cat Jungle	<i>Felis chaus</i>	M	01	11.04.17	Old Age
03	Black Buck	<i>Antilope cervicapara</i>	M	01	12.04.17	Gravious injury
04	Deer Barking	<i>Muntiacus muntjak</i>	M	01	21.04.17	Gravious injury
05	Deer Sambhar	<i>Cervus unicolor</i>	F	01	02.05.17	Shock
06	Deer Hog	<i>Axis porcinus</i>	M	01	13.05.17	Old age & Gravious injury
07	Black Buck	<i>Antilope cervicapara</i>	M	01	16.05.17	Septicemia
08	Deer Spotted (Fawn)	<i>Axis axis</i>	M	01	17.05.17	Mechanical Neumonia
09	Deer Swamp (Fawn)	<i>Cervus duvaucelli</i>	F	01	21.05.17	Mother Rejection
10	Black Buck	<i>Antilope cervicapara</i>	M	01	23.05.17	Died due to Gravious injury
11	Spotted Deer	<i>Axis axis</i>	F	01	28.05.17	Gravious injury
12	Black Buck	<i>Antilope cervicapara</i>	F	01	29.05.17	Septicemia
13	Pea Fowl	<i>Pavo cristatus</i>	F	01	01.06.17	Egg bould disease
14	Pea Fowl	<i>Pavo cristatus</i>	F	01	04.06.17	Egg bould disease
15	Deer Swamp	<i>Cervus duvaucelli</i>	F	01	08.06.17	Mother rejection
16	Deer Barking	<i>Muntiacus muntjak</i>	F	01	09.06.17	Gravious injury
17	Deer Spotted	<i>Axis axis</i>	M	01	15.06.17	Gravious injury
18	Deer Barking	<i>Muntiacus muntjak</i>	M	01	02.07.17	T.B.
19	Cat Jungle (Kitten)	<i>Felis chaus</i>	M	01	10.07.17	Canabolism
20	Cat Jungle (Kitten)	<i>Felis chaus</i>	M	01	10.07.17	Canabolism
21	Goose- Bar Headed	<i>Anser indicus</i>	F	01	18.07.17	Gravious injury
22	Tiger (Cub)	<i>Panthera tigris tigris</i>	F	01	20.07.17	N.S.H.
23	Pea Fowl	<i>Pavo cristatus</i>	F	01	23.07.17	Egg bould disease
24	Indian Lion	<i>Panthera leo persica</i>	F	01	25.07.17	Cardiac respiratory failure
25	Pheasant-Silver	<i>Lophura nycthemera</i>	M	01	02.08.17	Gravious injury
26	Pheasant Grey Peacock	<i>Polyplectron bicalcaratum</i>	F	01	09.08.17	Gravious injury
27	Cat Jungle	<i>Felis chaus</i>	M	01	12.08.17	Traumatic injury
28	Pheasant-Silver	<i>Lophura nycthemera</i>	M	01	17.08.17	Old Age
29	Black Buck	<i>Antilope cervicapara</i>	M	01	31.08.17	Lumber Paralysis
30	Goose- Bar Headed	<i>Anser indicus</i>	F	01	03.09.17	Old Age
31	Deer Swamp	<i>Cervus duvaucelli</i>	M	01	05.09.17	Gravious injury due to in fighting
32	Porcupine Indian	<i>Hystrix indica</i>	M	01	19.09.17	Old Age
33	Duck Brahmini	<i>Tadorna ferruginea</i>	F	01	22.09.17	Hepatitis
34	Pheasant-Golden	<i>Chrysolophus pictus</i>	F	01	04.10.17	Old Age
35	Hatchling of Crocodile	<i>Gavialis gangeticus</i>	U	01	06.10.17	Respiratory Failure
36	Hyena-Stripped	<i>Hyaena hyaena</i>	U	02	07.10.17	Canabolism
37	Black Buck	<i>Antilope cervicapara</i>	M	01	21.10.17	Died due to Infighting injury
38	Pea Fowl	<i>Pavo cristatus</i>	M	01	26.10.17	Pneumonia
39	Hatchling of Crocodile	<i>Gavialis gangeticus</i>	U	01	28.10.17	Respiratory Failure
40	Hatchling of Crocodile	<i>Gavialis gangeticus</i>	U	01	29.10.17	Respiratory Failure
41	Rhinoceros Calf	<i>Rhinoceros unicornis</i>	F	01	05.11.17	Mother's Rejection
42	Hatchling of Crocodile	<i>Gavialis gangeticus</i>	U	01	14.11.17	Asphyxia
43	Hatchling of Crocodile	<i>Gavialis gangeticus</i>	U	01	21.11.17	Died due to Stamped by adult crocodile
44	Macaque-Lion tailed	<i>Macaca silenus</i>	F	01	01.12.17	Old Age
45	Black Buck	<i>Antilope cervicapara</i>	M	01	10.12.17	Gravious injury due to infighting
46	Swamp Deer	<i>Cervus duvaucelli</i>	M	01	13.12.17	Tuberculosis
47	Porcupine Indian	<i>Hystrix indica</i>	M	01	15.01.18	Old age
48	Python-Indian Rock	<i>Python molurus molurus</i>	F	01	19.01.18	Hypothermia
49	Himalayan Bear	<i>Selenarctos thibetanus</i>	M	01	23.01.18	Old age
50	Crocodile-Marsh-Muggar	<i>Crocodylus palustris</i>	M	01	28.01.18	Cardio-respiratory failure

51	Pheasant Kaleej (Nepali)	<i>Lophura leucomelano</i>	F	01	03.02.18	Old Age
52	Crocodile (Juvenile)	<i>Gavialis gangeticus</i>	U	01	16.02.18	Cardiac respiratory failure
53	Swamp Deer	<i>Cervus duvaucelli</i>	M	01	19.02.18	T.B.
54	Crocodile (Juvenile)	<i>Gavialis gangeticus</i>	U	01	20.02.18	Cardiac respiratory failure
55	Duck Brahmini	<i>Tadorna ferruginea</i>	F	01	27.02.18	Old Age
56	Red Jungle Fowl	<i>Gallus gallus</i>	F	01	01.03.18	Old age
57	Porcupine Indian	<i>Hystrix indica</i>	M	01	03.03.18	Tumor in intestine
58	Crocodile	<i>Gavialis gangeticus</i>	U	01	11.03.18	Cardiac respiratory failure
59	Deer Sambhar	<i>Cervus unicolor</i>	F	01	12.03.18	Mother's rejection
60	Crocodile (Juvenile)	<i>Gavialis gangeticus</i>	U	01	15.03.18	Asphyxia
61	Deer Spotted	<i>Axis axis</i>	M	01	17.03.18	Old age
62	Pheasant Kaleej (Nepali)	<i>Lophura leucomelano</i>	F	01	18.03.18	Old age
63	Crocodile (Juvenile)	<i>Gavialis gangeticus</i>	M	01	21.03.18	Stampade
64	Python-Indian Rock	<i>Python molurus molurus</i>	M	01	22.03.18	Hepatitis

28. Compliance with conditions stipulated by the Central Zoo Authority

Sr. No	Norm No. under RZR, 2009	Condition Stipulated	Time Period to Comply	Since when pending	Status with regard to compliance of the conditions
Details enclosed as "Annexure- A"					

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

(1) Free Range Birds of Sanjay Gandhi Biological Park, Patna.

Sl. No.	Common Name	Sch-IV	Status	IUCN/WPA Status
1	Little Cormorant	<i>Phalacrocorax niger</i>	R*2	Sch-IV
2	Indian Pond Heron	<i>Ardeola grayi</i>	R*1	Sch-IV
3	Cattle Egret	<i>Bulbulcus ibis</i>	RA1	Sch-IV
4	Little Egret	<i>Egretta garzetta</i>	R*2	Sch-IV
5	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	RM3	Sch-IV
6	Black (Paharia) Kite	<i>Milvus migrans</i>	RM1	Sch.- I
7	Shikra	<i>Accipiter badius</i>	RM2	Sch.-I
8	Bronze-winged Jacana	<i>Metopidius indicus</i>	R*2	Sch.-IV
9	Red-wattled Lapwing	<i>Vanellus indicus</i>	R*A1	Sch-IV
10	Yellow-footed Green Pigeon	<i>Treron phoenicoptera</i>	R*2	Sch-IV
11	Eurasian Collared Dove	<i>Streptopelia decaocto</i>	R*A1	Sch-IV
12	Spotted Dove	<i>Streptopelia chinensis</i>	R*A1	Sch-IV
13	Alexandrine Parakeet	<i>Psittacula eupatria</i>	R*3	Sch-IV
14	Rose ringed Parakeet	<i>Psittacula krameri</i>	R1	Sch-IV

15	Common Hawk Cuckoo	<i>Hierococcyx (Cuculus) varius</i>	R*2	Sch-IV
16	Asian Koel (Koel)	<i>Eudynamys scolopacea</i>	R*1	Sch-IV
17	Greater Coucal	<i>Centropus sinensis</i>	R1	Sch-IV
18	Barn Owl	<i>Tyto alba</i>	R3-4	Sch-IV
19	Spotted Owlet	<i>Athene brama</i>	R1	Sch-IV
20	Asian Palm Swift	<i>Cypsiurus (parvus) batasiensis</i>	R2	Sch-IV
21	Common Kingfisher	<i>Alcedo atthis</i>	RM1	Sch-IV
22	Stork-billed Kingfisher	<i>Halcyon (Pelargopsis) capensis</i>	R3	Sch-IV
23	White-throated Kingfisher	<i>Halcyon symrnensis</i>	R*1	Sch-IV
24	Green Bee-eater	<i>Merops orientalis</i>	R*M1	Sch-IV
25	Common Hoopoe	<i>Upupa epops</i>	RBW2	Sch-IV
26	Blue-throated Barbet	<i>Megalaima asiatica</i>	R2	Sch-IV
27	Black-rumped Flameback	<i>Dinopium benghalense</i>	N1	Sch-IV
28	Brown Shrike	<i>Lanius cristatus</i>	W2	Sch-IV
29	Eurasian Golden oriole	<i>Oriolus oriolus</i>	RMP2	Sch-IV
30	Black-hooked Oriole	<i>Oriolus xanthornus</i>	R*2	Sch-IV
31	Black Drongo (King-Crow)	<i>Dicrurus (adsimillis) macrocercus</i>	R*A1	Sch-IV
32	Asian Pied Starling	<i>Sturnus contra</i>	R*2	Sch-IV
33	Common Myna	<i>Acridotheres tristis</i>	R1	Sch-IV
34	Rufous (Indian) Treepie	<i>Dendrocitta vagabunda</i>	R2	Sch-IV
35	House Crow	<i>Corvus splendens</i>	RA**1	Sch.-V
36	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	R1	Sch-IV
37	Red-vended Bulbul	<i>Pycnonotuse cafer</i>	R1	Sch-IV
38	Jungle Babbler	<i>Turdoides striatus</i>	E1	Sch-IV
39	Red-throated Flycatcher	<i>Ficedula (Muscicapa) parva</i>	WP1	Sch-IV
40	Common Tailorbird	<i>Orthotomus sutorius</i>	R1	Sch-IV
41	Blyth's Reed Warbler	<i>Acrocephalus dumetorum</i>	WP(B**?)1	Sch-IV
42	Oriental Magpie Robin	<i>Copsychus saularis</i>	RM1	Sch-IV
43	Olive-backed (Indian Tree) Pipit	<i>Anthus hodgisi</i>	MAW2	Sch-IV
44	White (Pied) Wagtail	<i>Motacilla alba</i>	S,W	Sch-IV
45	White-browed Wagtail	<i>Motacilla maderaspatensis</i>	E2	Sch-IV
46	Pale-billed Flowerpecker	<i>Dicaeum erythrorhynchos</i>	NA2	Sch-IV
47	Purple-rumped Sunbird	<i>Nectarinia zeylonica</i>	R2	Sch-IV
48	Purple Sunbird	<i>Nectarinia aslatica</i>	R*AM1	Sch-IV
49	House Sparrow	<i>Paser domesticus</i>	M1	Sch-IV

Symbols

- E Endemic to the Indian subcontinent (resident unless otherwise indicated)
 N Near endemic (resident unless otherwise indicated)
 R Resident
 B Breeder
 S Summer visitor
 A Altitudinal migrant
 M Migrants within the subcontinent (e.g. breeds in the Himalays & winters in
 P Passage migrant
 W Winter visitor
 * Subject to some (local) seasonal movement or nomadism
 ** Localised or patchily distributed (eg. B**= breeds locally)
 ? Status uncertain
- 1 Abundant or very common
 2 Common
 3 Fairly common
 4 Uncommon

(2) Free Range Mammals of Sanjay Gandhi Biological Park, Patna

Sl. No.	Name of species	Scientific Name
1	Jackal	<i>Canis aureus</i>
2	Ruddy Mongoose	<i>Herpestus smithii</i>
3	Civet – Common Palm	<i>Paradoxurus hermaphroditus</i>
4	Stripped Squirrel	<i>Funambulus palmarum</i>
5	Jungle Cat	<i>Felis chaus</i>
6	Indian Flying Fox	<i>Pteropus giganteus</i>

(3) Free Range Reptiles of Sanjay Gandhi Biological Park, Patna

Sl. No.	Name of species	Scientific Name
1	Cobra	<i>Naja naja</i>
2	Goh- common	<i>Varanus sylvestrus</i>
3	Bongarus Karait	<i>Bungarus caeruleus</i>
4	Rate snake	<i>Ptyas mucosus</i>
5	Water snake	<i>Enhydris enhydris</i>

Compliance Report of the CZA observations arises vide F.No. 19-51/92-CZA(37)(Vol.VI)(M)/4611 dated 09.04.2014 for renewal of recognition of Patna Zoo

Sl. No.	Relevant Schedule No.	Conditions	Action taken
1. General requirements			
1	1.1	New blood should be introduced in the population of various species housed in the zoo to maintain desired level of heterozygosity.	For new blood a male Giraffe was brought from Mysore Zoo in the year 2014-15. Exchange of Rhinoceros between Patna Zoo & Delhi Zoo has been approved by CZA. Action to transport these animals will be taken soon. In Previous years wolf, Bison, Black Swan , Saras Cranes, Khaleej & Golden pheasant, red Jungle Fowl etc were exchanged from other Zoo's.
2	1.3/4	The zoo should earmark a well defined visitor's route and enforce it through appropriate planting of hedge, shrubs and bamboo etc.	Implemented.
3	1.5	Two meter high parameter wall should be constructed along the boundary of the zoo with the golf course, planting of bamboo and creepers should also be done along the wall.	Wire mesh fencing has been done between Zoo & Golf Club for safety of the zoo.
4	1.7	They should provide an appropriate sized incinerator for disposal of non-biodegradable solid wastes.	Incinerator is being used for disposal of non-biodegradable solid wastes at site other than Zoo.
5	1.9	The zoo should remove the domesticated variety of pigeons from the display area.	Complied.
2. Administrative and Staffing Pattern			
1	2.2	Appropriately qualified persons should be put in place to carry out the functions of Curator, Biologist and Education Officer.	Proposal for creation of posts of Biologist and Zoo Education Officer has been submitted to the Government. Communication from Govt. is awaited.
3. Development and Planning			

2	3.6	<p>(i) The zoo should make sincere efforts to execute the collection plan approved by the Central Zoo Authority particularly acquire mates for single animals.</p> <p>(ii) The zoo should get a small rescue centre and small isolation and quarantine wards for animals of different species that are received as rescued animals.</p>	<p>We are in touch with other zoos of the country for mate of single animals and hope to get the mates very soon.</p> <p>Proposal has been submitted for rescue centre, isolation and quarantine ward. These will be constructed as soon as these schemes are sanctioned.</p>
4. Animal housing, display of animals and animal enclosures			
3	4.1	The zoo should make concerned efforts to nature immersing animal viewing facilities at exhibits of all important species at the zoo.	Nature immersing animal viewing facilities has been created at exhibit of the important species.
4	4.2	<p>(i) The zoo should provide properly designed enclosures for water birds (No. 3), Hill mynah, Green pigeon, Doves, Malabar pied horn bill, Malabar giant squirrel, Small cats and the Palm civet. The Hyena and Hippo enclosures also need to be improved in consultation with Central Zoo Authority.</p> <p>(ii) Barking deer enclosure which is covered from top looks quite dingy chain-link at the top of the exhibit to be removed.</p>	<p>Enclosures of Birds have been constructed. Hippo enclosure has been improved and Scheme for improvement of Hyena enclosure was submitted to CZA in 2016-17.</p> <p>The work will be taken up in future as per approved Master Plan.</p>
5	4.6	Behavioural enrichment in most of the enclosures is not naturalistic. The artificial fittings should be replaced with live trees, dead tree trunks and tree stumps.	Naturalistic enrichment in most of the enclosures has been done.
6	4.7	<p>(i) Extensive planting of suitable species of trees should be done to provide screening between adjacent enclosures to ensure that animals in one enclosure do not get the view of the animal in the other enclosure.</p> <p>(ii) Extensive planting of trees and bamboo should be done to ensure that no moats, animal feeding cells and chain-link fence are visible to the zoo visitors from the main visitors path.</p>	Phasewise improvement work will be carried out.
7	14-10-07	No exhibit should have animals viewing area in more than 20-25% of the periphery of the animal exhibit.	Complied.

8	4.9	All the animal exhibits should have appropriately designed G. I. Pipe standoff barriers with thick hedge of Duranta/Duddonia to prevent visitors from reaching the chain-link fence/parapet wall.	Complied.
9	4.10	All enclosures should have appropriately designed signage highlighting the ecological role and the biological behaviour of the species exhibited. Where ever possible interpretative signage should be provided to highlight the main behavioural attributes of the species.	Designing of Signages has been done and appropriate asthetic signages will be erected at all cages and important places within the Zoo.
5. Upkeep and Healthcare of animal			
10	5.1	(i) The partition wall in Hyena enclosure to be removed and the animals kept in social groups. (ii) The zoo has single/single sex animals of 14 species of which elephant is moved out. Mates for rest of the animals should be procured on priority basis. (iii) Food grains to be supplied to animals should be regularly screened for bacterial fungal and mould infection. (iv) The good grains bags should be so stacked in the store that ground moisture can not affect the quality of food grains.	Complied. Step has been taken to get the mates of single animals from other zoos. Complied. Complied.
11	5.4	The feeding cells of the ungulate enclosures are located at prominent locations within the paddock. These should be demolished and appropriately designed feeding cells and kraals should be constructed at the distal end of the paddock away from the animal viewing area. All kraals should be covered on top by chain-link.	The work will be taken up in new enclosures to be constructed as per guidelines of CZA and approved Master Plan.
12	5.6	The zoo should put in place a mechanism for recording the weight, taking blood samples and recording the clinical parameters of the animals of endangered species.	Stool test is being conducted regularly together with blood profile of animals as per requirement.

13	5.8	Detailed schedule for screening schedule for different species housed in the zoo should be prepared and displayed at the keepers gallery of all the exhibits. The date of carrying out the tests and outcome should also be recorded on this schedule.	Complied as per schedule.
14	5.9	Every zoo worker involved with handling of animals should be screened for zoonotic diseases particularly tuberculosis, brucellosis, E.coli, herpes and such other diseases as may be prevalent in the area once every six months.	Zoo workers are being screened for zoonotic diseases from time to time.
15	5.10	Animal history sheet and treatment cards should be maintained for the animals of endangered species in the format prescribed by the CZA.	Being followed.
16		Disinfectant food bath should be provided at the gate of feeding cells, hospital and food store.	Being followed.
17		Properly designed meat processing room should be constructed at a reasonable store from the food store with proper drainage facilities.	
6. Veterinary and infrastructure facilities			
18	6.1	The zoo hospital should have requisite number of impatient wards.	Impatient wards are available at the zoo hospital. Fore more wards the scheme is being prepared and will be constructed as soon as the scheme is sanctioned.
19	6.2	The zoo should have basic diagnostic facilities at the hospital laboratory and the same should be utilized for disease diagnosis.	In process.
20	6.3	(i) The zoo should get a postmortem room constructed at an appropriate site at the earliest. (ii) The construction work of the isolation wards and quarantine wards should be completed at the expeditiously.	In process.

21	6.5	The zoo should put in position a qualified Lab Assistant and the two compounders at the earliest.	Two posts of Vet. Compounder have been created in this zoo. One Vet. Compounder is working on this post. Another will be deployed very soon. Proposal for creation of the post of Lab Assistant has been submitted. After sanction of the post, deployment will be done.
22	6.6	The zoo should have formal MoU with the local veterinary college at the earliest for healthcare of zoo animals.	In process.
7. Post-mortem and disposal of carcasses of animals			
23	7	The report of the histo-pathological and microbial examination of viscera of dead animals should be linked and recorded on the post-mortem sheets to make the post-mortem report conclusive.	Being followed. Post-mortem sheets are being prepared.
8. Acquisition and Breeding of Animals			
24	9.6/7.8	The zoo should prepare a detailed conservation breeding plan for Indian Rhino with the help of a population biologist. All the Rhinos at the zoo marked by fitting transponders. The zoo should ensure regular exchange of animals with the participating zoos to safeguard against the inbreeding depression setting in the zoo populations.	Rhino Breeding & Conservation Centre will come in this Year. Rhino exchange with National Zoo, New Delhi is under process.
25	9.11	Gharial should be released in the wild following the IUCN guidelines.	Being followed. 30 gharials in three phases in year 2014 have been released in Gandak River of West Champaran in collaboration with WTI.
9. Research Activities			
26	10	The zoo should prepare a detailed zoo research plan and execute it with the help of the research officer. Research scholars and biological Assistants. MoU may be signed in this regard with eminent Biological Research Institutions.	In this regard Bihar Veterinary College, Patna has been consulted and MoU will be signed very soon.

10. Education and Outreach activities			
27	11 (a)	The zoo should prepare a detailed visitor education plan giving detailed strategy for sensitizing the visitors about the need for conservation of biodiversity particularly deployment of volunteers, zoo guides and involvement of academicians.	A Zoo Education Hall has been constructed where films related to conservation of biodiversity, nature and wildlife are being displayed among the visitors especially for school children. Efforts have been taken to deploy the volunteers, zoo guides and involvement of academicians which will be done very shortly.
28	11 (b)	Appropriately designed brochures and pamphlets should be published and made available to zoo visitors.	Complied. Brochures and Pamphlets have been published from time to time.
11 . Visitor facilities			
29	12 (3)	Provision of wheel chairs and ramps should be made to facilitate the handicapped persons to view various species of animals housed at the zoo.	Complied.
30	12 (1)	Provision of cloak room should be made at the zoo gate.	Complied.