

SANJAY GANDHI BIOLOGICAL PARK, PATNA

ANNUAL REPORT

2023-24



Sanjay Gandhi Biological Park, Patna

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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 94 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, Lion, 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 cactus 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 animal's 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 center's 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	1973
3	Address of the Zoo	Sanjay Gandhi Biological Park, P.O. G.P.O. Patna- 800 001
4	State	Bihar
5	Telephone Number	0612-2217758
6	Fax Number	-
7	E-mail address	patnazoobihar@gmail.com
8	Website	www.zoopatna.com
9	Distance from nearest	Airport: 2 Kms.
		Railway Station: 6 Kms.
		Bus Stand: 12 Kms.
10	Recognition Valid upto (Date)	28-09-2021
11	Category of zoo	'A'
12	Area (in Hectares)	153.00 Acres

S.No.	Particulars	Information	
13	Number of Visitors 2024-25 (Financial Year)	Adult :	18,58,868
		Adult Group:	74,951
		Children :	2,85,038
		Child Group:	84,431
		Total Indian :	23,03,293
		Total Foreigners :	0
		Total Visitors:	23,03,293
14	Visitors' Facilities Available in Zoo	<ol style="list-style-type: none"> 1. 3D Theatre 2. Drinking water fountain 3. Purified water 4. Wheel chair to disabled person 5. Pram for small child 6. Toilet 7. Cloak room 8. Restaurant 9. Battery Operated Vehicle 10. Special Battery Operated Vehicle for Divyangjan 11. Battery Operated Trackless toy train 12. Souvenir Shop 13. Fully Wi-Fi Campus 14. Advance Signage's (QR Code) 15. Visitor's shed 16. First Aid 17. Children's Park 18. Fully air-conditioned Library 19. Important section of Patna zoo is covered by CCTV 20. Guide Map 21. Improved paperless entry via phone-pe and online ticketing 22. Giant Selfie Stick 23. Touchscreen based information kiosks at 3D theatre 24. Jal-Udyan 25. Orchid/Fern house 	
15	Weekly Closure Day of the Zoo	Monday	

S.No.	Particulars	Information
Management Personnel of the zoo		
16	Name with designation of the Officer in-charge	Shri Satyajeet Kumar, <i>IFS</i> Director, Sanjay Gandhi Biological Park, Patna
	Name of the Veterinary Officer	1. Dr. Ram Kumar Pandey 2. Dr. Samrendra Bahadur Singh
	Name of the Curator	-
	Name of the Biologist	Shri Arif Siddiqui (on wages)
	Name of the Education Officer	-
	Name of the Compounder/ Lab Assistant	Shri Maksudul Hassan, Compounder (Retd.)
Owner / Operator of the Zoo		
17	*Name of the Operator	Principal Secretary, Deptt. of Environment, Forest & Climate change, Govt. of Bihar
18	Address of the Operator	Sinchai Bhawan, Patna.
19	Contact details/Phone number of Operator	Mob. 8986153174
20	E-mail address of Operator	patnazoobihar@gmail.com

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

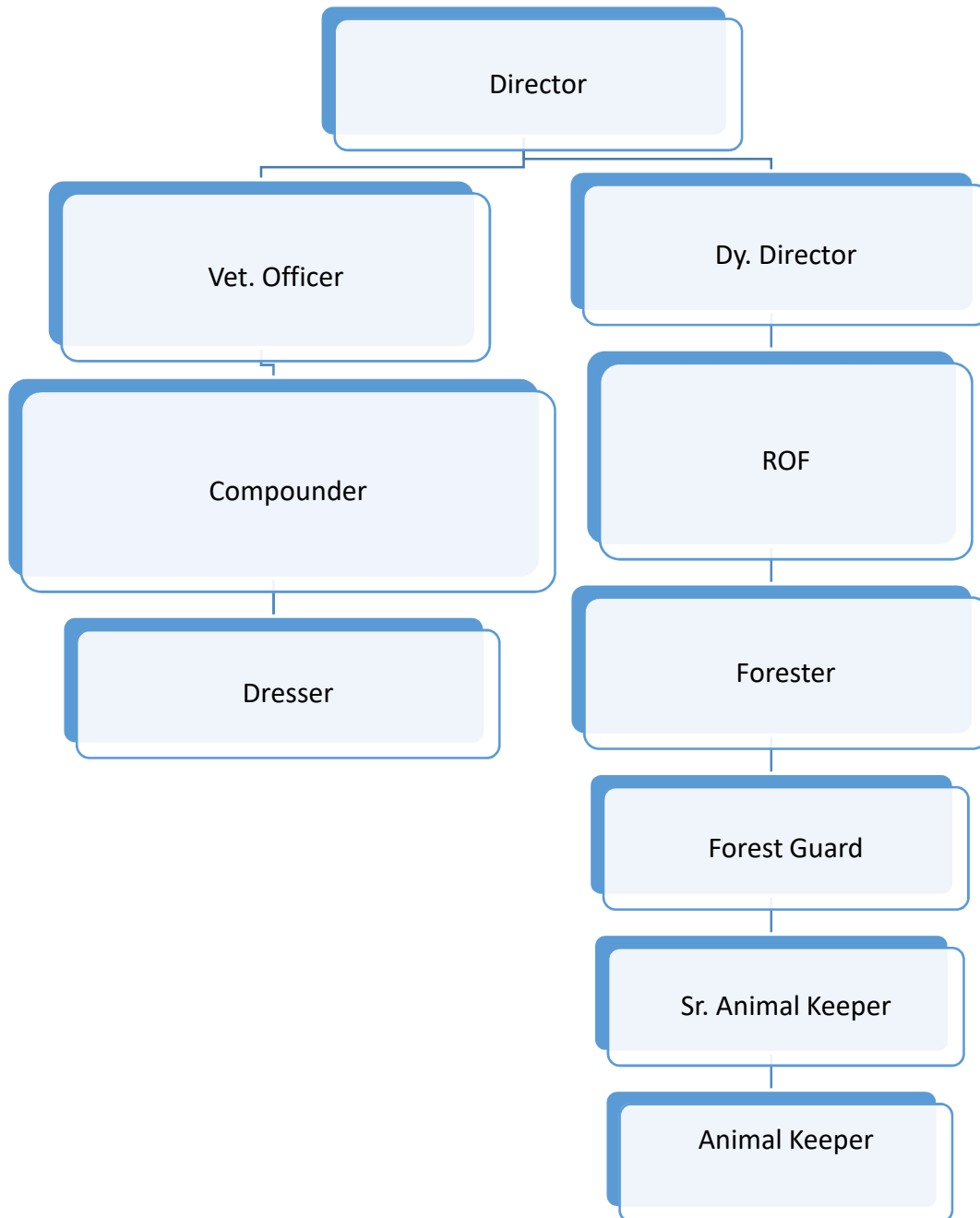
“Zoo Operator” means the person who has ultimate control over the affairs of the zoos provided that _____

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 Vacant Post	Names of the incumbent
1	Director	1	1	0	Shri Satyajeet Kumar, IFS
2	Dy. Director	1	0	0	-
3	Vet. Officer	2	2	0	Dr. Ram Kumar Pandey Dr. Samrendra Bahadur Singh
4	ROF	2	1	1	Shri Arvind Kr. Verma
5	Biologist	1	0	1	-
6	Zoo Education Officer	1	0	1	-
7	Asst. Nature Education Officer	1	0	1	-
8	Head Clerk	1	1	0	Shri Sanjay Kr. Sinha
9	Stenographer	1	0	1	-
10	UDC	2	2	0	1.Shri Shailendra Kumar Shrivastwa 2.Smt. Shruti Kumari
11	LDC	6	5	1	1.Shri Vivek Kr. Sharma 2.Shri Nikunj Kumar 3.Shri Suraj Kumar 4.Shri Vishwanath Kumar 5.Md. Islam Alam
12	Forester	5	4	1	1.Shri Arun Kumar 2.Shri Santosh Kumar 3.Mrs. Nutan Kumari 4.Ms. Nisha Bharti
13	Vet. Compounder	2	0	2	-
14	Driver	5	1	4	Shri Mahboob Alam
15	Forest Guard	16	14	2	1.Shri Amit Kumar 2.Shri Santosh Kumar 3.Shri Omprakash Kumar 4.Shri Ram Kumar 5.Shri Sumit Kumar 6.Shri Sanjeev Kr. Singh 7.Shri Sonu Kumar 8.Shri Rupesh Kumar 9.Shri Ajit Kumar

					10.Smt. Pratibha Rani 11.Smt. Meenakshi Kumari 12.Smt. Puja Kumari 13.Ms. Shila Kumari 14.Ms. Jyoti Kumari
16	Senior Animal Keeper	3	0	3	-
17	Animal Keeper	64	29	35	1.Shri Suresh Prasad 2.Shri Subodh Prasad 3.Shri Chandra Deo Singh 4.Shri Mukteshwar Singh 5.Shri Baijnath Paswan 6.Md. Basiruddin 7.Shri Binda Rai 8.Shri Dinanath Paswan 9.Shri Musafir Yadav 10.Shri Deepu Mahto 11.Shri Dinanath Prasad 12.Shri Murari Prasad 13.Shri Ravan Kr. Singh 14.Shri Rajendra Singh 15.Shri Rajendra Prasad 16.Shri Ramesh Paswan 17.Shri Vijay Prasad 18.Shri Mahesh Jha 19.Krishna Kr. Shrivastav 20.Shri Abhimanyu Pandey 21.Shri Vishek Kumar 22.Shri Devnandan Bind 23.Shri Vikram Kumar 24.Shri Kunj Bihari 25.Shri Raja Kumar 26.Shri Sunil Ram 27.Md. Ramjan 28.Shri Pawan Kumar 29.Shri Qaisar Abbas
18	Mali	15	3	12	1.Shri Ram Vinod Singh 2.Shri Brijnandan Rajak 3.Shri Sahbir Ram
19	Pump Operator	2	1	1	Shri Umesh Prasad
20	Plumber	1	1	0	Shri Ramashray Ram
21	Museum Keeper	1	0	1	-

22	Electrician	1	0	1	-
23	Mahawat	3	1	2	Shri Ravindra Prasad
24	Chowkidar	3	2	1	1.Shri Bilat Thakur 2.Shri Ram Govind Ram
25	Peon	4	4	0	1.Shri Birju Paswan 2.Shri Rakesh Kr. Jha 3.Shri Ujjwal Kumar 4.Smt. Kabutri Devi
26	Sweeper	7	2	5	1.Shri Telesphor Toppo 2.Shri Rajanand Munda
27	Baira	2	1	1	Shri Pramod Kumar
28	Cook	3	1	2	Shri Sushil Singh
29	Thela Chalak	1	1	0	Shri Munshi Ram
30	Sapera	1	1	0	Shri Madan Sharma
31	Dresser	1	1	0	Shri Dinesh Jha
32	Aquarium Attendant	3	2	1	1.Shri Rajnandan Sharma 2.Shri Bacha Prasad Singh
33	Carpenter-cum-Welder	1	0	1	-
34	3D Theatre Technician	3	0	3	-
35	Technician	1	0	1	-
36	Exhibition Assistant	1	0	1	-
37	Pashudhan Sahayak	2	0	2	-
38	Amin	1	0	1	-
Total		171	81	90	

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

*Note:- As on dated 31.03.2024

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	Shri Satyajeet Kumar, IFS, Director, Patna Zoo	“Building Competencies for Personal Excellence”	14-16 April, 2023	The Art of Living – BCPE Training Program sponsored by BIPARD, Bodh Gaya
2		“Human Wildlife Conflict Mitigation in India”	16-17 June, 2023	New Delhi

10. Zoo Advisory Committee –

- a. Date of constitution**
- b. Members**
- c. Dates on which Meetings held during the year**

11. Animal Health Advisory Committee–

- a. Date of constitution : - 07- 01-2005**
- b. Date of Re-constitution : - 31-07-2020**

c. Members :-

- (i) Dr. Ali Ahmad Khan, President, Animal Health Advisory Committee, Sanjay Gandhi Biological Park, Patna.
- (ii) Dean, Bihar Veterinary College, Patna.
- (iii) Director, Institute of Animal Health & Production, Bihar, Patna.
- (iv) Dr. K.P. Mallik, Retd. Sr. Scientist, I.V.R.I., Izzatnagar, Raebareilly.
- (v) Dr. Anup Rai, Retd. Animal Husbandary Officer, Patna.
- (vi) Dr. Alka Sharan, Retd. Director, Institute of Animal Health & Production, Bihar, Patna.
- (vii) Dr. Ajeet Kumar, Retd. Veterinary Officer, Sanjay Gandhi Biological Park, Patna.
- (viii) Dr. Ramesh Tiwary, Assistant Professor, Surgery & Radiology Department, Bihar Veterinary College, Patna.
- (ix) Dr. Gyandeo Singh, Assistant Professor, Surgery & Radiology Department Bihar Veterinary College, Patna.
- (x) Dr. Pallav Shekhar, Assistant Professor, Medicine Department, Bihar Veterinary College, Patna.
- (xi) Dr. Manoj Kumar, Assistant Professor, Microbiology Department, Bihar Veterinary College, Patna.
- (xii) Dr. Kaushal Kumar, Assistant Professor, Pathology Department, Bihar Veterinary College, Patna
- (xiii) Dr. Farid Ahmad Khan, (Homeopathic)
- (xiv) Veterinary Officer, Sanjay Gandhi Biological Park, Patna

Dates on which Meetings held during the year

(1) 03.04.2023

(2) 14.08.2023



12. Statement of income and expenditure of the Zoo

Year	Total Revenue	Total Expenditure
2023-24	9,97,42,441	20,60,75,091

13. Daily feed Schedule of animals

Animal Feed Chart (in kg/gm/piece per animal)

Species	Feed Item	Remarks
Royal Bengal Tiger	Beef with bone - 8 kg (Male)	1. Supplementation 3000 IU of Vitamin A and 150 IU of Vitamin E per Kg meat offered or 2 ml multi-vitamin PO. 2. In Carnivore animals Beef/Chicken may be increased 20% as per requirement in variation of season. 5 ml Vitamin B complex Supplementation 3000 IU of Vitamin A and 150 IU of Vitamin E per Kg meat offered or 2 ml multi-vitamin PO. Salt lick provided in sufficient amount in all enclosures.
	Beef with bone- 6 kg (Female)	
Lion Indian	Beef with bone - 6.750 kg (Male)	
	Beef with bone - 5 kg (Female)	
Indian Fox	Dressed chicken - 250 gm	
Cat Leopard	Dressed chicken - 250 gm	
Indian Palm Civet	Dressed Chicken -100 gm, Banana - 200 gm	
Otter smooth Indian	Fresh fish- 1-1.25 kg	
Cat Fishing	Dressed Chicken - 300 gm,	
	Fish - 250 gm	
Hyena-Stripped	Beef with bone - 2 -2.5 kg (Male)	
	Beef with bone- 2 kg (Female)	
Wolf Indian	Beef with bone - 2 -2.5 kg (Male)	
	Beef with bone - 2 kg (Female)	
Indian Jackal	Beef with bone - 1 kg (Male)	
	Beef with bone - 750 gm (Female)	
Cat Jungle	Dressed chicken - 250 gm	
Leopard	Beef with bone - 2.5 kg (Male)	
	Beef with bone - 2 kg (Female)	
Deer Swamp	Deer Mash - 750 gm-1.25 kg , Green Fodder - 8-12 kg, Wheat bhusa - 1-2 kg If green fodder is not available use Deer mash - 1.5 kg and Wheat bhusa - 2-3 kg.	
Manipur Deer (Sangai)	Deer Mash - 1.5 kg, Green Fodder - 4-5 kg, Soaked gram - 300 gm, Soaked moong - 300 gm, Jaggery - 75 gm, Banana - 300 gm, Carrot - 250 gm, Leaves & twigs - <i>Ad liv.</i>	
Deer Sāmbhar	Deer Mash - 1-1.75 kg, Green Fodder - 11-23 kg, Wheat bhusa - 2 kg If green fodder is not available use Deer mash - 2 kg and Wheat bhusa - 6 kg.	
Deer Spotted	Concentrate mixture - 500 gm & Cereal fodder (Maize/Sudan/ Oats/ Sorghum) - 2 kg, Wheat bhusa - 500 gm Leguminous fodder (Berseem/ Lobia) - 2 kg If green fodder is not available use Deer mash - 500 gm and Wheat bhusa - 500 gm	
Deer Hog/Deer Barking	Deer Mash 200-350 gm, Green fodder - 2.75-4.75 kg, Wheat bhusa - 250 gm, Soaked gram - 100 gm, Soaked	

	wheat - 50 gm If green fodder is not available use Deer mash - 300 gm, Wheat bhusa - 1 kg, Choker - 250 gm		
Black Buck	Deer Mash- 125-250 gm, Green fodder - 1.5-3.25 kg, Wheat bhusa - 300 gm If green fodder is not available use Deer mash - 300 gm and Wheat bhusa - 750 gm, Tree leaves - <i>Ad lib.</i>	Salt lick provided in sufficient amount in all enclosures.	
Blue Bull (Nilgai)	Deer Mash - 1.25 kg, Green fodder - 10 kg, Wheat bhusa- 2 kg If green fodder is not available use Deer mash - 2kg and Wheat bhusa - 6 kg		
One-horned Rhinoceros	Male - 3.5 kg concentrate & 60-70 kg roughages, Wheat bhusa - 10 kg, Soaked gram - 1.25 kg, Soaked wheat - 1.25 kg, Soaked moong - 250 gm, Jeggary - 750 gm, Banana - 1.5 kg Female - 2.5 kg concentrate & 60-70 kg roughages, Wheat bhusa - 8 kg, Soaked gram - 1.25 kg, Soaked wheat - 1.25 kg, Soaked moong - 250 gm, Jeggary - 750 gm, Banana - 1.5 kg		
Hippopotamus	Deer Mash - 4.5 kg, Pumpkin/brinjal/potato- 2.5 kg (alternately), Banana - 2.5 kg, Wheat husk - 5 kg, Green fodder - 60-70 kg If green grass not available use Choker - 3 kg		
Gaur Indian	Groundnut cake - 500 gm, Wheat bran - 3 kg, Horse gram - 1 kg, Green fodder - 15 kg, Leguminous fodder - 2 kg, Common salt - 20 gm		
Elephant Indian	Female - 5 kg concentrate & Green Fodder - 40-50 kg, Soaked paddy - 3 kg, Atta Roti - 2 kg, Paddy straw - 15 kg, Cucumber - 3 kg, Banana - 6 kg, Leaves & twigs - 15-20 kg, Banana stem (in summer) - <i>Ad lib.</i>		
Zebra Grant	Deer mash - 2.5 kg, Green fodder - 6 kg, Soaked gram - 750 gm, Soaked wheat - 750 gm, Jeggary - 100 gm, Mineral mixture - 50 gm, If green grass not available use Wheat bhusa - 6 kg, Deer mash - 2.5 kg		
Giraffe	Deer mash - 1 kg, Wheat bran - 3.5 kg, Bengal gram - 750 gm, Soaked wheat - 600 gm, Soaked moong - 1 kg, Crushed maize - 500 gm, Cut branches (assuming that only 1/3 is leaves, barks and buds, rest in inedible lignified materials) - 45 kg, Banana - 2.5 kg, Apple - 350 gm, Sweet Lime - 200 gm, Carrot - 1.5 kg, Onion - 1 kg, Cabbage - 1 kg, Sweet Potato -250 gm, Cucumber - 2.5 kg, Jaggery - 50 gm and common salt - 50 gm		
Chimpanzee	Rice & Curd – 125 gm & 400 gm or , Kheer - 200 rice in		Multi-Vitamin feed

	1.5 kg milk, Jaggery – 125 gm in rice & curd, Banana – 1.5 kg, Apple – 300 gm, Pomegranate – 1 kg, Onion – 100 gm, Water Melon (in summer) – 1 kg, Soaked gram – 50 gm, French Bean – 250 gm, Daav – 1 piece (Mar to Sep), Grapes – 500 gm, Egg (in winter) - 2 piece, Mango - 500 gm	supplement provided regularly.
Lion-tailed macaque	Soaked gram - 200 gm, Banana - 1 kg, Apple - 1.5 kg, Cucumber - 200 gm, Groundnut - 100 gm, Atta roti - 250 gm	
Langur-Common/ Rhesus Macaque	Roti- 150 gm, Sweet potato- 200 gm, Apple - 150 gm, Cucumber - 50 gm, Carrot - 100 gm, French bean - 200 gm, Guava - 200 gm, Banana - 250 gm	
Sloth Bear/ Himalayn Black Bear	Roti - 400-500 gm, Pulses - 200 gm, Green Vegetable (Spinach, beans, cabbage, and small amount of seasonal fruits) - 1.250 kg, Groundnut - 50 gm, Kheer - 300 gm rice in 1-1.25 gm milk, Jaggery - 100 gm, Honey - 15-20 gm & Mineral mixture - 30 gm	
Porcupine Indian	Banana- 150 gm, Spinach/leafy vegetables - 300 gm, Bengal gram - 50 gm, Carrot - 200 gm, Tapioca (Sweet Potato) - 300 gm Note :- Porcupine should be fed at least twice daily to maintain gut health. Usually hindgut fermentation is reduced after 12 hours of feeding.	
Cobra Indian	Guinea pig - 1 piece & Chicks - 2 piece Once in a week in Summer	
Monitor Water Lizard	Fish - 100 gm Twice a week in Summer	
Python-Indian Rock	Chicken weighing – 1.25-1.5 kg Once in 2 week	
Snake Rat-Dhaman	Chicks - 4 piece Once in a week in Summer	
Sand Boa	Chicks - 2-3 piece Once in a week in Summer	
Snake Water	Fish - 100 gm Once in a week in Summer	
Viper Russell's	Guinea pig - 1 piece/ Chicks - 2 piece Once a week in Summer	
Crocodile-Long snouted-Ghariyal	Fish - 2.5 - 3 kg twice a week in summer. Fasting in mid-winter & 1 kg once a week in rest of winter season.	If compelled to feed frozen fish, then add 25-30 mg thiamin and 1000 IU of vitamin E to each kg of feed.
Crocodile-Marsh-Mugger	Beef – 2.5 – 3 kg twice a week in summer. Fasting in mid-winter & 1 kg once a week in rest of winter season.	

Hornbill-Common Grey	Banana- 50 gm, Seasonal fruits (apple, pear, plum, etc.) - 100 gm, rice or roti - 20 gm, sattu/besan (grounded Bengal gram flour) - 20 gm	Multi-Vitamin & Liver Tonic/ Vitamin- A, D3, E & B12 added regularly in drinking water.
Hornbill-Indian pied	Banana - 50 gm, Apple/ Pear/ Plum/ Seasonal fruit - 100 gm, Rice or Roti - 20 gm, Sattu/Besan - 20 gm, CaCO3 - 0.5 gm	
Silver Pheasant, Golden Pheasant, Red Jungle Fowl, Pheasant Grey Peacock & Pheasant Lady Amherst	Maize Crushed – 20-25 gm, Millet – 10 gm, Paddy seed – 25 gm, Kauni – 5 gm, Wheat – 40 gm, Poultry feed – 25 gm, Bird Mash – 25 gm, Onion – 20 gm, Garlic – 5 gm, Spinach – 50 gm	
Pigeon Common Green	ChanaSattu - 50 gm, Banana - 75 gm	
Duck-Brahmini, Goose-Bar Headed, Duck Mallard, Emerald Dove, Duck Mandarin & Moorhen	Atta Roti – 25 gm, Paddy Seed – 25 gm, Wheat – 30 gm, Bird Mash – 25 gm, Maize Crushed – 5 gm, Poultry feed-25 gm, Millet – 10 gm, Kauni – 10 gm, Spinach – 15 gm	
Scarlet Macaw, Macaw Red & Green	Sugarcane – 200 gm, Soaked Gram – 30 gm, Apple – 150 gm, Cucumber – 20 gm, Papaya – 100 gm, Mango - 100 gm (as per availability), Water Melon – 200 gm, Groundnut – 100 gm, Green Chili – 2 piece	
Budgeriger	Kauni 7 gm, Cheena – 7 gm	
Cockatiel, Love Bird, Parakeet Blossom headed,	Cereal grains - 10 gm, Pulses seed - 5 gm, fruits like banana - 30 gm, other fruits & vegetables - 30 gm	
Finch Zebra	Cheena- 10 gm	
Crane Sarus	Maize Crush – 10 gm, Poultry feed – 20 gm, Fish – 500 gm, Wheat – 10 gm, Paddy seed – 10 gm, Onion – 10 gm, Spinach – 250 gm, Millet – 100 gm	
Crane-Common & Stork Adjutant (lesser)	Fish – 500 gm	
Heron-Night & Ibis-Black	Fish – 100 gm	
Kite-Black Winged Buzzard	Chicks – 2 piece	
Kite-Pariah/Black Kite	Beef (Keema) – 100gm	
Owl Eagle Forest	Chicks – 4 piece	
Buzzard	Chicks – 1 piece, Chicken (Keema) – 50gm	
Myna-Hill	Chana Sattu – 25 gm, Banana – 150 gm	

Peafowl	Green leafy vegetables - 100 gm, Coloured vegetables (carrot/ capsicum/ tomato) - 50 gm, Garlic - 5 gm, Onion - 50 gm, Boiled egg/insects - 25 gm, Bird Mash - 100 gm, Grain (Jowar-bajra) - 100 gm mixture	
Vulture Himalayan Griffon	Dressed Chicken – 1 kg Alternate day	
Emu	Soaked gram – 200 gm, Soaked Moong – 70 gm, Banana – 2.700 kg, Onion – 60 gm, Garlic – 20 gm, Spinach – 300 gm On Monday - Banana - 500 gm only	
Cassowary	Banana – 3 kg, Chana Sattu – 200 gm Spinach – 500 gm	
Ostrich	Banana – 1.750 kg, Soaked Wheat – 150 gm, Millet – 75 gm, Soaked Gram – 250 gm, Soaked Moong – 150 gm, Soaked Maize – 250 gm, Atta Roti – 200 gm, Poultry feed – 375 gm, Onion – 150 gm, Garlic – 25 gm, Spinach – 500 gm, Tomato – 125 gm, Papaya – 125 gm	
Pelican-Rosy /White	Fish - 750 gm @ 5 kg body weight Fish- 1-1.5 kg @ 10 kg body weight. Note :- Fresh fish has bright red gill, clear eyes and firm pliable body. If by any reason frozen fish is to be used, please ensure that it is thawed before feeding.	

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

15. De-worming Schedule of animals

Sl.No.	Species	Drug used	Periodicity	Quantity & Variation
01	Lion (adult)	Panacur bolus 1.5 gm (Fenbendazole) Or, Kiwof Plus XL (Praziquantel - 175 mg, Pyrantel Pamoate - 104 mg and Febantel - 525 mg)	Quarterly	Fenbendazole - 1.5 gm x 1 for three days Or, Kiwof Plus XL- 1 tab. for 35 kg body wt.
02	Tiger (adult)	Panacur bolus 1.5 gm (Fenbendazole) Or, Kiwof Plus XL (Praziquantel - 175 mg, Pyrantel Pamoate - 104 mg and Febantel - 525 mg)	Quarterly	Fenbendazole - 1.5 gm x 1 for three days Or, Kiwof Plus XL- 1 tab. for 35 kg body wt.
03	Leopard (adult)	Panacur bolus 1.5 gm (Fenbendazole) Or, Kiwof Plus XL (Praziquantel - 175 mg, Pyrantel Pamoate - 104 mg and Febantel - 525 mg)	Quarterly	Fenbendazole - 1.5 gm x 1 for three days Or, Kiwof Plus XL- 1 tab. for 35 kg body wt.
04	Birds (Companion birds)	Worm out Gel (praziquantel - 20 gm/L oxfendazole - 20 gm/L) Or, Albomar Suspension (Albendazole)	Quarterly	Wormout gel - 2 ml in 160 ml drinking water (5 mg per kg body weight) Or, Albomar Suspension - 1 ml in 100 ml drinking water
05	Ungulates	Fenbendazole/Ivermectin	Quarterly	Fenbendazole -5 mg/kg body wt. Ivermectin - 1 mg / 5 kg body wt.
06	Rhinoceros	Fenbendazole/Ivermectin	Quarterly	Fenbendazole - 9 gm per adult Ivermectin - 320 - 400 mg 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/Ivermectin	Quarterly	Fenbendazole -2.5-3 gm Ivermectin - 120-160 mg
10	Hippo (adult)	Fenbendazole/Albendazole	Quarterly	7.5-9 gm
11	Jungle Cat	Fantas Plus (Fenbendazole - 150 mg Praziquantel - 50 mg) Or, Kiwof Plus tab.	Quarterly	Fentas Plus - 1/2 tab. for 3 days Or, Kiwof Plus tab. - 1 tab. (for 10 kg body wt.)

		(Praziquantel - 50 mg, Pyrantel Pamoate - 144 mg and Febantel - 150 mg)		
12	Sahil	Mebex Mebendazole - 100 mg	Quarterly	1/2 tab. per adult
13.	Fishing Cat	Fantas Plus (Fenbendazole - 150 mg Praziquantel - 50 mg) Or, Kiwof Plus tab. (Praziquantel - 50 mg, Pyrantel Pamoate - 144 mg and Febantel - 150 mg)	Quarterly	Fentas Plus - 1/2 tab. for 3 days Or, Kiwof Plus tab. - 1 tab. (for 10 kg body wt.)
14.	Indian Fox	Fantas Plus (Fenbendazole - 150 mg Praziquantel - 50 mg) Or, Kiwof Plus tab. (Praziquantel - 50 mg, Pyrantel Pamoate - 144 mg and Febantel - 150 mg)	Quarterly	Fentas Plus - 1/2 tab. for 3 days Or, Kiwof Plus tab. - 1 tab. (for 10 kg body wt.)
15	Zebra	Fenbendazole/Ivermectin	Quarterly	Fenbedazole - 1.5 gm Ivermectin - 80 mg
16	Cassowary	Mebex Mebendazole - 100 mg	Quarterly	150 mg
17	Emu	Mebex Mebendazole - 100 mg	Quarterly	150 mg
18	Ostrich	Mebex Mebendazole - 100 mg	Quarterly	200 mg per adult
19	Rosy Pelican	Mebex Mebendazole - 100 mg	Quarterly	100 mg per bird
20	Sloth bear	Fenbendazole/Ivermectin	Quarterly	Fenbendazole - 1.5 gm per adult Or, Ivermectin - 40 mg per adult
21	Himalayan Bear	Fenbendazole/Ivermectin	Quarterly	Fenbendazole - 1.5 gm per adult Or, Ivermectin - 40 mg per adult
22	Chimpanzee	Albendazole	Quarterly	400 mg for per adult
23	Lion tailed macaque	Albendazole	Quarterly	200 mg for per adult
24	Hyena	Fantas Plus (Fenbendazole - 150 mg Praziquantel - 50 mg) Or, Kiwof Plus tab. (Praziquantel - 50 mg, Pyrantel Pamoate - 144 mg and Febantel - 150 mg)	Quarterly	Fentas Plus - 1/2 tab. for 3 days Or, Kiwof Plus tab. - 1 tab. (for 10 kg body wt.)

25	Wolf	Fantas Plus (Fenbendazole - 150 mg Praziquantel - 50 mg) Or, Kiwof Plus tab. (Praziquantel - 50 mg, Pyrantel Pamoate - 144 mg and Febantel - 150 mg)	Quarterly	Fentas Plus - 1/2 tab. for 3 days Or, Kiwof Plus tab. - 1 tab. (for 10 kg body wt.)
26	Jackal	Fantas Plus (Fenbendazole - 150 mg Praziquantel - 50 mg) Or, Kiwof Plus tab. (Praziquantel - 50 mg, Pyrantel Pamoate - 144 mg and Febantel - 150 mg)	Quarterly	Fantas Plus - 2 tab. for 3 days Or, Kiwof Plus tab. - 1 tab. (for 10 kg body wt.)
27	Monkey & Langur	Albendazole	Quarterly	5-7 mg per kg body wt.
28	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 Or, Virkon-S	Weekly/Fortnightly	Kohrsolin- TH - 100 ml per 10 litre of water as spray for regular disinfection or, Virkon-S - 3-4 gm per litre
		Turning of soil and lime treatment	Quarterly	As needed
03	Feline , Canidae	Nighthouse disinfection by blow gun firing followed by turmeric powder spray.	Weekly	As needed
		Outdoor enclosure- 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
1				

18. Development Works carried out in the zoo during the year (2023-24)

Sl. No.	Work done
1	Construction of Black Top Road (2.2 km)
2	Expansion & Renovation of Jal Udyan & Renovation of Shishu Udyan
3	Installation of Street Light from Gate no. 1 to Gate no. 2 via Director Residence
4	Construction of Small Cat Enclosure
5	Construction of Monitoring Room in Zoo Hospital
6	Construction of Post Mortem Room
7	Construction of Approach Path from Muggar Cage to Rhino Breeding & Conservation Centre.
8	Construction of Approach Path from Main Road to Elephant Enclosure
9	Construction of Baby Feeding Room

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. Apart from this following programmes were conducted time-to-time.

S.N	Programmes
1.	Expert talk on Birds/animals.
2.	Birds watching
3.	Nukadd Natak on Environment conservation.

20. Important Events and happenings in the zoo

Following events were organised during the year:-

(i) Patna Zoo 50th Establishment Day (22 June 2023)





(ii) International Tiger Day (29 July 2023)



(iii) National Conference of Zoo Biologists (5-7 August 2023)





(iv) Gangetic Dolphin Awareness, Sensitization Drive & Birds Identification, Monitoring & Conservation Week (17-21 August 2023)



(v) Aquatic Conclave on Otter, Turtle & Ghariyal in Bihar (3-4 September 2023)





(vi) World Rhino Day (20 September 2023)



(vii) Wildlife Week (2-8 October 2023)





(viii) World Sparrow Day (20 March 2024)



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. Apart from this various students from other Colleges/Universities taken their M.Sc/Ph.D research work focused on zoo animals & management.

Sl. No.	Research Work	Status
1	A Ph.D. research work on “Studies on Faecal Steroid Hormones to Monitor Health Status of Captive Large Herbivores in Patna Zoo” by Bibha Choubey, Department of Zoology, Patna University, Patna.	In progress

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 11 rhinoceros (7 males and 4 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 31.03.2024)							
SL.NO.	NAME OF ANIMALS	2019-20	2020-21	2021-22	2022-23	2023-24	TOTAL
1	Peafowl	0	3	0	2	0	5
2	Bear- Sloth	0	0	0	1	0	1
3	Black Buck	3	2	1	2	3	11
4	Cat Jungle	0	0	0	0	0	0
5	Deer Swamp (Barasingha)	1	4	1	2	1	9
6	Rhinoceros-Indian one horned	0	2	0	0	0	2
7	Tiger-Royal Bengal	0	0	0	2	0	2
8	Tiger-white	0	0	0	2	0	2
9	Finch Zebra	4	0	0	1	4	9
10	Budgerigar	0	2	0	1	0	3
11	Duck Mallard	26	6	6	0	26	64
12	Deer-Barking	0	6	2	2	0	10
13	Deer-Hog	4	4	3	4	4	19
14	Deer-Sambar	4	5	2	1	4	16
15	Deer-Spotted	2	2	4	8	2	18
16	Manipur Deer (Sangai)	0	0	0	2	0	2
17	Hippopotamus	0	0	0	0	0	0
18	Hyena-Stripped	0	3	0	0	0	3

19	Nilgai- Blue Bull	0	0	2	1	0	3
20	Giraffe	2	1	1	2	2	8
21	Emu	0	2	3	0	0	5
22	Indian Wolf	3	6	3	0	3	15
23	Gaur Indian	0	1	1	0	0	2
24	Cockatoo	0	1	1	1	0	3
25	Porcupine Indian	0	1	0	0	0	1
26	Red Jungle Fowl	0	4	2	3	0	9
27	Love bird	0	0	0	2	0	2
28	Night Heron	5	0	2	5	5	17
29	Hoolock Gibbon	1	0	0	0	1	2
30	Indian Rock Python	2	0	0	0	2	4
31	Ghariyal	0	0	0	0	0	0
Total		57	55	34	44	57	247

24. Animal acquisition / transfer / exchange during the year 2023-24

Sl. No.	Date	Species	Sex	No.	Acquisition From
01	29.06.2023	Hoolock Gibbon	M	01	Assam State Zoo, Guwahati, Assam
02	29.06.2023	Hoolock Gibbon	F	01	
03	29.06.2023	Black Panther	F	01	
04	29.06.2023	Rhinoceros-one horned	F	01	
05	01.08.2023	Royal Bengal Tiger	F	01	Valmiki Tiger Reserve, Bettiah, Bihar
06	21.05.2023	Smooth-coated Otter	M		Patna Forest Division
07	21.05.2023	Smooth-coated Otter	M		
08	21.05.2023	Smooth-coated Otter	F		
09	21.05.2023	Smooth-coated Otter	F		
10	25.04.2023	Indian Giant Squirrel (Malabar)	U		Rohtas Forest Division, Sasaram
11	25.04.2023	Grizzled Giant Squirrel	U		
12	25.04.2023	Grizzled Giant Squirrel	U		

Annual Disposal Report - 2023-24

Sl. No.	Date	Species	Sex	No.	Where Sent
01	01.05.2023	Tiger	F	01	Rajgir Zoo Safari, Nalanda
02	20.05.2023	Giraffe	F	01	Assam State Zoo, Guwahati

25. Rescue and Rehabilitation of wild animals carried out by the Zoo during 2023-24

Sl. No.	Name of Animals	No. of Rescue
1	Barasinga Deer	13
2	Barking Deer	9
3	Hog Deer	3
4	Black Buck	1
5	Nilgai	13
6	Civet Cat	1
7	Wild Cat	1
8	Monkey	19
9	Langur	1
10	Elephant	2
11	Monitor Lizard	4
12	Otter	3
13	Mongoose	1
14	White Peafowl	1
15	Vulture	1
16	Owl	2
17	Bat	1
18	Kite	1
19	Crocodile	2
20	Snake	171

26. Annual Inventory of animals

Form – II
[See Rule 11(1)]

Annual Inventory Report for the Year : 2023-24

PART - A (Endangered Species*)																								
Sl. No.	Animal Name	Scientific Name	Stock as on 01.04.2023				During the Year												Stock as on 31.03.2024					
							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	Oriental Pied Hornbill	<i>Anthracoceros albirostris</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
02	White-eyed Buzzard	<i>Butastur teesa</i>	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3
03	Black-winged Kite	<i>Elanus caeruleus</i>	1	1	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	3
04	Common Hill Myna	<i>Gracula religiosa</i>	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	4
05	Peafowl (leucistic) white	<i>Pavo cristatus</i>	1	2	0	3	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	1
06	Peafowl	<i>Pavo cristatus</i>	5	5	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	0	10
TOTAL BIRDS			9	15	1	25	0	0	0	0	0	0	0	0	0	0	2	0	0	9	13	1	23	
MAMMALS																								
01	Black Buck	<i>Antelope cervicapra</i>	8	10	0	18	1	0	2	0	0	0	0	0	0	1	1	0	0	8	9	2	19	
02	Indian Bison (Gaur)	<i>Bos gaurus</i>	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	
03	Indian Jackal	<i>Canis aureus indicus</i>	2	4	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	0	6	
04	Indian Wolf	<i>Canis lupus pallipes</i>	4	4	0	8	1	2	0	0	0	0	0	0	0	0	0	0	0	5	6	0	11	
05	Wild Dog (Dhole)	<i>Cuon alpinus alpinus</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	
06	Indian Elephant	<i>Elephas maximus</i>	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	
07	Jungle Cat	<i>Felis chaus</i>	3	3	0	6	0	0	0	0	0	0	0	0	0	0	1	0	0	3	2	0	5	
08	Indian Hog Deer	<i>Hyelaphus porcinus</i>	8	18	0	26	3	1	0	0	0	0	0	0	2	0	0	0	0	9	19	0	28	
09	Rhesus Macaque	<i>Macaca mulatta</i>	1	3	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	4	
10	Lion-tailed Macaque	<i>Macaca silenus</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	
11	Smooth-coated Otter	<i>Lutrogale perspicillata</i>	0	0	0	0	0	0	0	3	1	0	0	0	0	1	0	0	0	2	1	0	3	
12	Indian Giant Squirrel (Malabar)	<i>Ratufa indica</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	
13	Grizzled Giant Squirrel	<i>Ratufa macroura</i>	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	2	

14	Sloth Bear	<i>Melursus ursinus</i>	2	5	0	7	0	0	0	0	0	0	0	0	0	0	0	2	5	0	7	
15	Asiatic Lion	<i>Panthera leo persica</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	
16	Leopard / Panther	<i>Panthera pardus</i>	2	1	0	3	0	0	0	0	0	0	0	0	0	1	0	2	0	0	2	
17	Black Panther	<i>Panthera pardus</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	
18	Tiger (leucistic/white)	<i>Panthera tigris tigris</i>	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	
Sl. No.	Animal Name	Scientific Name	Stock as on				During the Year												Stock as on			
			01.04.2023				Births			Acquisitions			Disposals			Deaths			31.03.2024			
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
19	Bengal Tiger	<i>Panthera tigris tigris</i>	2	3	0	5	0	0	0	0	1	0	0	1	0	0	1	0	2	2	0	4
20	Asian Plam Civet	<i>Paradoxurus hermaphroditus</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
21	Fishing Cat	<i>Prionailurus viverrinus</i>	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	
22	Indian Rhinoceros (Greater one-horned Rhino)	<i>Rhinoceros unicornis</i>	8	5	0	13	0	0	0	0	1	0	0	0	0	0	0	8	6	0	14	
23	Deer Swamp (Barasingha)	<i>Rucervus duvaucelii</i>	3	7	0	10	1	0	0	0	0	0	0	0	1	2	0	3	5	0	8	
24	Eld's Deer (Brown-antlered Deer)	<i>Rucervus eldii</i>	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	
25	Bengal Hanuman Langur	<i>Semnopithecus entellus</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	
26	Himalayan Black Bear	<i>Ursus thibetanus laniger</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	
27	Hoolock Gibbon	<i>Hoolock hoolock</i>	0	0	0	0	1	0	0	1	1	0	0	0	0	1	0	1	1	0	2	
28	Fox Common	<i>Vulpes bengalensis</i>	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
TOTAL MAMMALS			53	78	0	131	7	3	2	4	5	3	0	1	0	6	6	0	58	79	5	142
REPTILES																						
01	Marsh Crocodile	<i>Crocodylus palustris</i>	0	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	
02	Russell's Viper	<i>Daboia russelii</i>	0	0	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	
03	Checkered Keelback (Snake Water)	<i>Fowlea piscator</i>	0	0	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	
04	Ghariyal (Crocodile-Long snouted)	<i>Gavialis gangeticus</i>	6	26	18	50	0	0	0	0	0	0	0	0	0	0	0	6	26	18	50	

05	Indian flapshell turtle	<i>Lissemys punctata</i>	35	25	250	310	0	0	0	0	0	0	0	0	0	0	0	0	35	25	250	310
06	Reticulated Python	<i>Malayopython reticulatus</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
07	Spectacled Cobra	<i>Naja naja</i>	4	6	4	14	0	0	0	0	0	0	0	0	0	0	0	0	4	6	4	14
08	Indian Softshell Turtle, Ganges Softshell Turtle	<i>Nilssonina gangetica</i>	5	8	8	21	0	0	0	0	0	0	0	0	0	0	0	0	5	8	8	21
09	Common Rat Snake	<i>Ptyas mucosa</i>	0	0	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
10	Indian Rock Python	<i>Python molurus</i>	6	6	4	16	0	0	2	0	0	0	0	0	0	1	0	0	6	5	6	17
11	Asian Water Monitor	<i>Varanus salvator</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
TOTAL REPTILES			58	74	301	433	0	0	2	0	0	0	0	0	0	1	0	58	73	303	434	
TOTAL ANIMALS			120	167	302	589	7	3	4	4	5	3	0	1	0	6	9	0	125	165	309	599

PART - B (Other than Endangered Species*)

Sl. No.	Animal Name	Scientific Name	Stock as on 01.04.2023				During the Year												Stock as on 31.03.2024			
							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	Love Birds/Peach-faced lovebird	<i>Agapornis roseicollis</i>	5	4	9	18	0	0	0	0	0	0	0	0	0	4	2	0	1	2	9	12
02	Duck Mallard/Mallard	<i>Anas platyrhynchos</i>	14	12	0	26	11	4	11	0	0	0	0	0	0	0	0	1	25	16	10	51
03	Goose-Bar Headed	<i>Anser indicus</i>	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4
04	Green-winged Macaw, Red-and-green Macaw	<i>Ara chloropterus</i>	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
05	Scarlet Macaw	<i>Ara macao</i>	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
06	Owl Eagle Forest/Eurasian Eagle Owl	<i>Bubo bubo</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
07	Owl-Indian Great Horn	<i>Bubo virginianus</i>	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
08	Greater sulphur crested Cockatoo	<i>Cacatua galerita galerita</i>	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3
09	Medium sulphur crested Cockatoo	<i>Cacatua galerita eleonora</i>	3	2	0	5	0	0	0	0	0	0	0	0	1	0	0	0	2	2	0	4
10	Asian Emerald Dove	<i>Chakophaps indica</i>	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
11	Pheasant-Lady Amherst	<i>Chrysolophus amherstiae</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2

12	Pheasant-Golden	<i>Chrysolophus pictus</i>	6	2	0	8	0	0	0	0	0	0	0	0	0	1	0	0	5	2	0	7
13	Black Swan	<i>Cygnus atratus</i>	2	2	0	4	0	0	0	0	0	0	0	0	1	0	0	1	2	0	3	
14	Lesser Whistling Duck	<i>Dendrocygna javanica</i>	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	
15	Emu	<i>Dromaius novaehollandiae</i>	0	1	5	6	0	0	0	0	0	0	0	0	0	1	0	0	0	5	5	
16	Common Moorhen	<i>Gallinula chloropus</i>	3	1	0	4	0	0	0	0	0	0	0	0	0	1	0	3	0	0	3	
17	Red Jungle Fowl	<i>Gallus gallus</i>	5	3	3	11	0	0	0	0	0	0	0	0	0	0	0	5	3	3	11	
18	Crane-Common	<i>Grus grus</i>	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	
19	Vulture Himalayan Grffon	<i>Gyps himalayensis</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
20	Pheasant-Silver	<i>Lophura nycthemera</i>	5	6	0	11	0	0	0	0	0	0	0	0	1	3	0	4	3	0	7	
21	Budgerigar	<i>Melopsittacus undulatus</i>	7	25	44	76	0	0	0	0	0	0	0	0	1	1	8	6	24	36	66	
22	Black Kite/Kite Pariah	<i>Milvus migrans</i>	4	6	2	12	0	0	0	0	0	0	0	0	0	0	0	4	6	2	12	
23	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	2	0	9	11	0	0	5	0	0	0	0	0	0	0	0	2	0	14	16	
24	Cockatiel	<i>Nymphicus hollandicus</i>	0	3	8	11	0	0	0	0	0	0	0	0	0	0	0	0	3	8	11	
25	Indian Grey Hornbill	<i>Ocyceros birostris</i>	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
26	Pelican-Rosy/white	<i>Pelecanus onocrotalus</i>	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	
27	Illiger's Macaw/ Blue-winged Macaw	<i>Primolium maracana</i>	0	0	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8	
28	Red-naped Ibis/ Ibis-black	<i>Pseudibis papillosa</i>	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
29	Parakeet-Blossom Headed	<i>Psittacula roseata</i>	0	0	18	18	0	0	0	0	0	0	0	0	0	0	0	0	0	18	18	
Sl. No.	Animal Name	Scientific Name	Stock as on 01.04.2023				During the Year												Stock as on 31.03.2024			
							Births			Acquisitions			Disposals			Deaths						
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
30	Ostrich	<i>Struthio camelus</i>	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	
31	Duck-Brahmini/ Ruddy Shelduck	<i>Tadorna ferruginea</i>	4	1	0	5	0	0	0	0	0	0	0	0	0	0	0	4	1	0	5	
32	Zebra Finch	<i>Taeniopygia guttata</i>	3	0	10	13	0	0	4	0	0	0	0	0	1	0	1	2	0	13	15	
33	Green Pigeon	<i>Treron</i>	4	1	5	10	0	0	0	0	0	0	0	0	0	0	0	4	1	5	10	
34	Common Barn Owl	<i>Tyto alba</i>	0	0	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6	
	TOTAL BIRDS		77	78	140	295	11	4	20	0	0	0	0	0	10	8	10	78	74	150	302	
MAMMALS																						

01	Deer-Spotted	<i>Axis axis</i>	24	55	0	79	0	0	2	0	0	0	0	0	2	3	0	22	52	2	76	
02	Nilgai- Blue Bull	<i>Boselaphus tragocamelus</i>	3	8	0	11	0	0	0	0	0	0	0	0	0	0	0	3	8	0	11	
03	Zebra Grant	<i>Equus quagga boehmi</i>	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
04	Giraffe	<i>Giraffa camelopardalis</i>	2	4	0	6	2	0	0	0	0	0	1	0	1	0	0	3	3	0	6	
05	Hippopotamus	<i>Hippopotamus amphibius</i>	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4	
06	Hyena-Stripped	<i>Hyaena hyaena</i>	2	5	0	7	0	0	0	0	0	0	0	0	0	0	0	2	5	0	7	
07	Porcupine-Indian	<i>Hystrix indica</i>	5	5	3	13	0	0	0	0	0	0	0	0	0	0	0	5	5	3	13	
08	Deer-Barking/Indian Muntjak	<i>Muntiacus muntjak</i>	8	13	0	21	0	0	0	0	0	0	0	0	4	3	0	4	10	0	14	
09	Chimpanzee	<i>Pan troglodytes</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	
10	Deer-Sambar	<i>Rusa unicolor</i>	13	30	0	43	0	4	0	0	0	0	0	0	1	0	0	12	34	0	46	
	TOTAL MAMMALS		60	124	3	187	2	4	2	0	0	0	0	1	0	8	6	0	54	121	5	180
	REPTILES																					
01	Three striped Roof Turtle	<i>Batagur dhongoka</i>	1	3	0	4	0	0	0	0	0	0	0	0	0	0	0	1	3	0	4	
02	Common Sand Boa	<i>Gongylophis conicus</i>	0	0	13	13	0	0	0	0	0	0	0	0	0	0	0	0	0	13	13	
	TOTAL REPTILES		1	3	13	17	0	0	0	0	0	0	0	0	0	0	0	1	3	13	17	
	TOTAL BIRDS		86	93	141	320	11	4	20	0	0	0	0	0	10	10	10	87	87	151	325	
	TOTAL MAMMALS		113	202	3	318	9	7	4	4	5	3	0	2	0	14	12	0	112	200	10	322
	TOTAL REPTILES		59	77	314	450	0	0	2	0	0	0	0	0	0	1	0	59	76	316	451	
	GRAND TOTAL		258	372	458	1088	20	11	26	4	5	3	0	2	0	24	23	10	258	363	477	1098

27.Mortality of animals

Animal Death Report 2023-24

Sl. No.	Species	Scientific name	Date	Sex	No.	Cause of death
01	Peafowl (White)	<i>Pavo cristatus</i>	15.04.2023	F	01	Lesions suggestive of heat stress
02	Barking Deer	<i>Muntiacus muntjak</i>	19.04.2023	M	01	Gravious injury associated with septicemia
03	Barking Deer	<i>Muntiacus muntjak</i>	16.05.2023	M	01	Gravious injury
04	Silver Pheasant	<i>Lophura nycthemera</i>	21.05.2023	F	01	Old age
05	Spotted Deer	<i>Axis axis</i>	24.05.2023	F	01	Gravious injury
06	Swamp Deer	<i>Rucervus duvaucelii</i>	26.05.2023	F	01	Stress
07	Barking Deer	<i>Muntiacus muntjak</i>	27.05.2023	F	01	Gravious injury associated with septicemia
08	Indian Rock Python	<i>Python molurus</i>	08.06.2023	F	01	Hyperthermia
09	Barking Deer	<i>Muntiacus muntjak</i>	13.06.2023	M	01	Gravious injury associated with septicemia
10	Finch Zebra	<i>Taeniopygia guttata</i>	16.06.2023	U	01	Lesions suggestive of Heat Stress
11	Budgerigar	<i>Melopsittacus undulatus</i>	16.06.2023	U	01	Lesions suggestive of Heat Stress
12	Budgerigar	<i>Melopsittacus undulatus</i>	16.06.2023	U	01	Lesions suggestive of Heat Stress
13	Budgerigar	<i>Melopsittacus undulatus</i>	16.06.2023	U	01	Lesions suggestive of Heat Stress
14	Finch Zebra	<i>Taeniopygia guttata</i>	18.06.2023	M	01	Lesions suggestive of heat stress associated with old age
15	Moorhen	<i>Gallinula chloropus</i>	18.06.2023	F	01	Lesions suggestive of Heat Stress
16	Love bird	<i>Agapornis roseicollis</i>	20.06.2023	M	01	Hyperthermia in old age
17	Leopard	<i>Panthera pardus</i>	24.06.2023	F	01	Old age
18	Budgerigar	<i>Melopsittacus undulatus</i>	01.07.2023	U	01	Old age
19	Black Buck	<i>Antilope cervicapra</i>	03.07.2023	F	01	Cardiac respiratory failure
20	Love Bird	<i>Agapornis roseicollis</i>	09.07.2023	M	01	Old age
21	Budgerigar	<i>Melopsittacus undulatus</i>	10.07.2023	U	01	Enteritis associated with old age
22	Budgerigar	<i>Melopsittacus undulatus</i>	10.07.2023	U	01	Enteritis associated with old age
23	Budgerigar	<i>Melopsittacus undulatus</i>	14.07.2023	U	01	Old age
24	Budgerigar	<i>Melopsittacus undulatus</i>	15.07.2023	U	01	Old age
25	Love Bird	<i>Agapornis roseicollis</i>	15.07.2023	M	01	Old age
26	Budgerigar	<i>Melopsittacus undulatus</i>	23.07.2023	F	01	Old age
27	Love bird	<i>Agapornis roseicollis</i>	10.08.2023	M	01	Old age
28	Royal Bengal Tiger	<i>Panthera tigris tigris</i>	14.08.2023	F	01	Cardio-respiratory failure & geriatric lesions
29	Duck Mallard	<i>Anas platyrhynchos</i>	15.08.2023	U	01	Eaten by predator
30	Silver Pheasant	<i>Lophura nycthemera</i>	18.08.2023	M	01	Old age
31	Hog Deer	<i>Hyelaphus porcinus</i>	20.08.2023	M	01	Gravious injury
32	Love Bird	<i>Agapornis roseicollis</i>	23.08.2023	F	01	Old age
33	Spotted Deer	<i>Axis axis</i>	28.08.2023	F	01	Gravious injury
34	Barking Deer	<i>Muntiacus muntjak</i>	05.09.2023	F	01	Gravious injury
35	Peafowl (White)	<i>Pavo cristatus</i>	06.09.2023	F	01	Old age
36	Medium sulphur crested cockatoo	<i>Cacatua galerita leonora</i>	07.09.2023	M	01	Infighting in stress
37	Love Bird	<i>Agapornis roseicollis</i>	11.09.2023	F	01	Old age
38	Hog Deer	<i>Hyelaphus porcinus</i>	20.09.2023	M	01	Cardiac respiratory failure
39	Budgerigar	<i>Melopsittacus undulatus</i>	27.09.2023	M	01	Old age
40	Golden Pheasant	<i>Chrysolophus pictus</i>	29.09.2023	M	01	Old age
41	Barking Deer	<i>Muntiacus muntjak</i>	04.10.2023	F	01	Old age
42	Barking Deer	<i>Muntiacus muntjak</i>	05.10.2023	M	01	Gravious injury
43	Spotted Deer	<i>Axis axis</i>	10.10.2023	M	01	Gravious injury
44	Smooth-coated Otter	<i>Lutrogale perspicillata</i>	17.10.2023	M	01	Old age
45	Spotted Deer	<i>Axis axis</i>	24.10.2023	F	01	Anaemia
46	Silver Pheasant	<i>Lophura nycthemera</i>	30.10.2023	F	01	Old age

47	Swamp Deer	<i>Rucervus duvaucelii</i>	11.11.2023	F	01	Old age
48	Giraffe (calf)	<i>Giraffa camelopardalis</i>	29.11.2023	M	01	Still birth
49	Deer Sambar	<i>Rusa unicolor</i>	29.12.2023	M	01	Gravious injury
50	Emu	<i>Dromaius novaehollandiae</i>	09.01.2024	F	01	Old age
51	Spotted Deer	<i>Axis axis</i>	15.01.2024	M	01	Old age associated with Hypothermia
52	Jungle Cat	<i>Felis chaus</i>	19.01.2024	F	01	Old age associated with Hypothermia
53	Black Swan	<i>Cygnus atratus</i>	26.01.2024	M	01	Gravious injury
54	Hoolock Gibbon	<i>Hoolock hoolock</i>	27.01.2024	M	01	Hemangiosarcoma
55	Black Buck	<i>Antelope cervicapra</i>	10.03.2024	M	01	Old age
56	Swamp Deer	<i>Rucervus duvaucelii</i>	22.03.2024	M	01	Cardiac respiratory failure
57	Silver Pheasant	<i>Lophura nycthemera</i>	24.03.2024	F	01	Old age

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) macrocerus</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 sylvestris</i>
3	Bongarus Karait	<i>Bungarus caeruleus</i>
4	Rate snake	<i>Ptyas mucosus</i>

5	Water snake	<i>Enhydris enhydris</i>
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Compliance Report of the CZA observations arises vide F.No. 19-51/92-CZA(37)(Vol.VIII)(NS)/4738/2018 dated 05.11.2018 for renewal of recognition of Patna Zoo

Sl. No.	Relevant Schedule No.	Conditions	Action taken
1. General requirements			
1	10.1(6)	Proper drainage should be provided in all of the animal enclosures for liquid waste and storm water.	Proper drainage has been provided in maximum number of animal enclosures for liquid waste and storm water. Action is being taken for providing drainage system in rest of the enclosures.
2. Administrative and Staffing Pattern			
2	10.2(2)	Appropriately qualified persons should be put in place to carry out the functions of Biologist.	One post of Biologist has been sanctioned. Mr. Arif Siddiqui has been hired to work as Biologist on contract basis, who had worked as Biologist in VTR, Bettiah.
3	10.2(2)	Appropriately qualified persons should be put in place to carry out the functions of Education Officer.	One post of Zoo Education Officer has been sanctioned. Action is being taken to deploy the suitable person.
4	10.2(2)	The zoo should post an official with a Master's degree in Wildlife Science/Zoology as a full time Curator, solely responsible for looking after the upkeep of animals and maintenance of animal enclosures.	Mr. Anand Kumar, M.Sc. (Zoology) who is posted as Range Officer of Forests, Zoological Range in this zoo, is solely responsible for looking after the upkeep of animals and maintenance of animal enclosures.
5	10.2(3)	In case of the scientific and technical posts to be filled up by direct recruitment, the Recruitment Rule for such posts should provide for their career progression including the benefit of flexible complementing scheme for their promotions.	At the time of deployment of suitable person, recruitment Rules will be followed.

3. Development and Planning			
6	10.3(1)	The toy train track which is operating inside the Park should be suitably aligned and modified with provision of electric/battery operated locomotive and adequate interpreting facilities.	Steps are being taken to follow the guidelines. Presently it is non-operative.
7	10.3(1)	The water bodies inside the zoo should be properly maintained to attract free living water birds.	To attract free living water birds, the water bodies inside the zoo are being maintained.
8	10.3(3)	The existing post-mortem room, located very near to the hospital, should be dismantled, and constructed away from the hospital and display area.	Complied.
9	10.3(6)	The zoo should prepare a Collection Plan of animals to be housed and displayed.	Complied.
10	10.3(6)	The zoo should make sincere efforts to execute the Collection Plan approved by the Central Zoo Authority particularly acquire mates for single animals.	Efforts are being taken to execute the Collection Plan approved by the Central Zoo Authority particularly to acquire mates for single animals.
11	10.3(6)	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.	In process.
12	10.3(6)	If the rescued animal pertains to an endangered species, a report should be sent to the Central Zoo Authority.	Reports are being submitted to Chief Wildlife Warden, Bihar
4. Animal housing, display of animals and animal enclosures			
13	10.4(1)	The zoo should make concerned efforts to nature immersing animal viewing facilities at exhibits of all species at the zoo.	Nature immersing animal viewing facilities has been provided in most of the important species.
14	10.4(2)	Appropriately designed open, natural enclosures should be constructed for monkeys (Assamese, Stump tailed and Rhesus)	Complied

15	10.4(2) & 10.4(8)	The zoo should construct a moated open-air enclosure for Jackals. Prior approval of the design should be taken before construction.	Complied.
16	10.4(2)	Barking deer enclosure which is covered from top looks quite dingy chain-link at the top of the exhibit to be removed.	Complied.
17	10.4(6)	The artificial artifacts like concrete structure should be replaced.	Actions are being taken to comply the guidelines of CZA.
18	10.4(9)	Viewing area of the visitors to the animal enclosures should be confined to one side only.	In most of the animal enclosures, viewing area of the visitors has been confined to one side only.
19	10.4(10)	The Zoo Operator should ensure that every enclosure in the zoo should bear a signboard displaying scientific information regarding the animals exhibited in it.	Complied.
5. Upkeep and Healthcare of animal			
20	10.5(1)	There should be provision of footbath of adequate size with proper disinfectant at entry and exist points of all animal houses.	Complied.
21	10.5(1)	The zoo should have a sufficient size functional freezer in the meat processing facility for storage of meat products and to keep cold until it is fed.	Complied.
22	10.5(1)	The partition wall in Hyena enclosure should be removed and the animals should be kept in viable social groups.	A new Hyena enclosure has been constructed as per approved Master Layout Plan. Hyenas are being kept in viable social groups.
23	10.5(1)	The zoo has single/single sex animals. Mates for single sex animals should be procured on priority basis.	Action is being taken to get mates for single sex animals from other zoos.
24	10.5(2)	Properly designed meat processing room should be constructed at a reasonable distance from the food store with proper drainage facilities.	Complied.
25	10.5(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	Complied.

		constructed at the end of the paddock away from the animal viewing area. All kraals should be covered on top by chain-link.	
26	10.5(8)	The zoo should have formal linkages through an MoU on healthcare, preventive, health management, surgical interventions, clinical tests, disease diagnosis and consultation in treatment and management during the period of convalescence.	Complied. MoU with the Bihar Veterinary College, Patna has been signed.
6. Veterinary and infrastructure facilities			
27	10.6(3)	The zoo should have basic dental instruments.	In process
28	10.6(3)	The zoo should construct a quarantine/isolation ward, away from the hospital/post-mortem room and display area.	In process
29	10.6(5)	The zoo should post one qualified Lab. Assistant to assist the Sr. Veterinary Officer/Veterinary Officer.	The post of Technician has been sanctioned which will be filled up soon with appropriate qualified person.
30	10.6(6)	The zoo should have formal MoU with the local veterinary college at the earliest for healthcare of zoo animals with following objectives <ul style="list-style-type: none"> a) Assistance in scientific diagnosis of diseases of serious nature and advice on the effective remedial treatment. b) Training and upgrading technical skills of animal health staff. c) Development of protocols for preventive medicines and vaccination. 	Complied.
7. Post-mortem and disposal of carcasses of animals			
31	10.7(1)	The zoo should have a modern post mortem room, equipped with sufficient light and post mortem equipment.	Complied

32	10.7(2)	The zoo veterinarian should have specialized knowledge and skills in wildlife pathology. He should be deputed for such skill development.	The Veterinarians posted in this zoo are being sent for skill development training from time to time.
9. Acquisition and Breeding of Animals			
33	10.9(1)	The zoo shall keep in collection only such numbers and species for which appropriate housing facility exists. The Zoo Operator shall be responsible for ensuring that the number of animals of any species does not go beyond the carrying capacity of the enclosures available in the zoo and housing standards are not compromised for keeping the excessive numbers. The animals like Rhesus macaque, Sambar, Spotted deer and Blackbuck are over populated. Necessary efforts should be initiated for the decongestion.	Observation made by the CZA is being followed. Excess of animals were shifted to the newly constructed Rajgir Zoo Safari.
34	10.9(4)	The zoo should acquire mates for single and unpaired animals on priority basis and in the event of the zoo failing to find a mate for single and unpaired animal within a period of six months, the unpaired or single animal should be transferred or exchanged or given on breeding loan to any other zoo in accordance with the norms specified by the Central Zoo Authority in this regard.	We are in touch with other zoos to get mates for single sex animals.
35	10.9(4)	The zoo should provide mates for the Gaur, Zebra, Leopard Cat, Fishing Cat, Cassowary, Manipur Deer, Otter, Lion (Asiatic) etc.	Mates for single sex animals e.g. Zebra, Gaur etc. have been procured. We are in touch with other zoos for getting mates for other single sex animals.
36	10.9(6)	The zoo should construct the Conservation Breeding Facility in off display area of the zoo for the Indian Rhino.	Complied.
37	10.9(6)	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 should be marked with transponders. The zoo should ensure	The construction of Rhino Conservation and Breeding Centre has been completed. Proper care is being taken to avoid inbreeding.

		regular exchange of animals with the participating zoos to safeguard against the inbreeding depression setting in the zoo populations.	
10. Research Activities			
38	10.10(1)	The zoo should prepare a detailed zoo research plan for the zoo and execute it with the help of the Research Officer, Research Scholars and Biological Assistants. MoU should be signed in this regard with eminent Biological Research Institutions.	MoU has been signed with the Bihar Veterinary College, Patna.