



BONDLA ZOO, GOA

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ANNUAL REPORT
2022 - 2023



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01.REPORT OF THE OFFICER IN-CHARGE

Bondla Wildlife Sanctuary with an area of 7.95 Sq.km. is an area of outstanding natural beauty. Within the Sanctuary, is a small Zoo houses wild animals mostly found in Western Ghats region a part of Goa State.

This Annual Report gives in brief about the zoo collection, amenities and management practices of zoo, various events and activities organized during the year 22-23. Bondla zoo has been given facelift which resulted in steady increase in number of visitors to the Zoo in the past year. The sizeable number of students have visited zoo in last year and this year which has helped us educate and create awareness among them about ex situ conservation of wildlife.

The conservation education is main objectives of the zoo, hence zoo gives free entry to school students upto higher secondary level and also organizes guided walks in side zoo and also other environmental awareness programmes which are well responded to by schools. The various days like world tiger day, Sparrow day, World environment day and Yoga day were celebrated in Bondla zoo with participation of students and staff. The developmental works were taken up in careful manner, with priority of animal welfare followed by visitor safety and lastly recreation.

The zoo staff and senior supervisory staff has stressed on enrichment in animal enclosures which has resulted in positive environment for animals housed in zoo. The animals in captivity has also showed improved behaviour while on display and this gives positive feedback from visitors.

Shri. Anand S. Jadhav (IFS)
Deputy Conservator of Forest





02. HISTORY OF THE ZOO

The Bondla Zoo is the only Zoological Park present in the State of Goa. As per the records, the Zoo was set up way back to the year 1969 when an Animal Rescue Centre of Forest department was established at Bondla with the objective of rescue, recuperation and rehabilitation of wildlife in Goa. Later, as the number of rescued wild animals increased and thus further needed the handling and house keeping of rescued animals in more scientific manner giving it the shape of Zoo. Almost after a four decades in the year, Bondla zoo was accorded the status of 'Small Zoo' by the Central Zoo Authority.

03. VISION

- i) To develop the zoo as a centre for housing and display of the diverse and endangered animals and birds with emphasis on fauna belonging to the Konkan and Western ghats region considering the climatic condition suited to them.
- ii) To provide an excellent visitor experience.
- iii) To facilitate scientific management of the inmates.

04. MISSION

To achieve the distinction of being recognized as an outstanding zoo in the region; in the field of wildlife conservation, awareness, education and research by connecting people to wildlife and biodiversity conservation in Konkan region of Western ghats.

05. OBJECTIVE

- i) To promote Conservation breeding of different species found in the region with emphasis on endangered species like Gaur for preservation of faunal bio-diversity, encouraging animal exchange with other zoological parks and rehabilitation of rescued species in the wild with strict adherence to the guidelines and protocols.
- ii) To encourage education and experiences of local visitors and tourists to excite and inspire them to become environmentally responsible and take home messages about the Conservation needs in the face of accelerating loss of biodiversity.
- iii) To facilitate research and scientific study on animal behavior, enrichment, food, Nutrition and reproductive biology by experts, researchers on captive animals and birds.
- iv) To ensure modern and spacious housing of captive animals and birds with special emphasis on animal welfare, health care, ethical standards and excellence in standards of animal husbandry with emphasis on enclosure enrichments.





06. ABOUT US

Sr. No.	Particulars	Information
Basic Information about the Zoo		
1.	Name of the Zoo	Bondla Zoo, Goa
2.	Year of Establishment	1969
3.	Address of the Zoo	Bondla Usgao, North Goa 403407
4.	State	Goa
5.	Telephone Number	--
6.	Fax Number	0832-2422864
7.	E-mail address	dcfwlnorthforest.goa@nic.in rfobondla@gmail.com
8.	Website	--
9.	Distance from nearest	Airport: Dabolim Airport is 50 kms from Bondla.
		Railway Station: Alight at Margao Junction Railway Station. Margao is 42 kms from Bondla.
		Bus Stand: All buses using the National Highway 4A connecting Panaji to Belgaum pass through Tisk Usgao. There are no direct buses to Bondla. Auto-rickshaws or taxis can be taken from here. Nearest town Ponda is 24 kms away.
10.	Recognition Valid upto (Date)	22.03.2019
11.	Category of Zoo	Small Zoo
12.	Area (in Hectares)	30 Hectares
13.	Number of visitors (Financial Year 19-20)	<u>Indian</u> Adult: 66,985 nos.
		Children: 13,019 nos.
		<u>Foreigners</u> Adults: 0 Child: 0
		Free Entry: 13,962 nos. (School and College study trips)
		Total Visitors: : 93,966 nos.
14.	Visitors Facilities Available in Zoo	The Zoo provides basis visitor amenities like Resting shed, Public toilet, Canteen and Restaurant facilities in close vicinity. Main attraction for the visitors is the lawns and children play area.





		The canteen caters for non-alcoholic beverage, snacks, mineral water etc. The Restaurant provides breakfast, veg. and non-veg. meals on order. The vicinity of Zoo has spacious parking place and no parking fee is required to be paid. Physically disabled persons can avail wheel chair facility. Drinking water is provided in the Zoo. Bondla has collection of a large number of herbs, shrubs, flowering plants and ornamental plants. The visitors walk through the lush greenery and feel refreshed. Apart from the Zoo, there are Eco-cottages and Dormitories which are given to visitors on rent basis. The rents for accommodation are as under: Tourist cottages single occupancy – Rs.700/- (double occupancy) (Two adults & only a child below 12 years is allowed) – Rs.1000/- Extra charges for additional person – Rs.200/- Dormitory per bed (one person) – Rs.200/- Dormitory per bed (Students on educational tour) – Rs.100/-. Entry Fee Child/Students – Rs.30/- Zoo : Adults – Rs.100/- Sanctuary : Adults – Rs.100/- Motor Cycle/Scooter – Rs.50/- Three Wheelers – Rs.50/-. Car/4 Wheelers – Rs.100/- Stilt Camera – Rs.50/- Bus/ Truck- Rs.200/- Video camera 8mm Handy Cam – Rs.200/- Video Camera for filming Documentary/Advertisement etc. 16 mm & above – Rs.10,000/- per day per camera.
15.	Weekly Closure Day of the Zoo	Monday



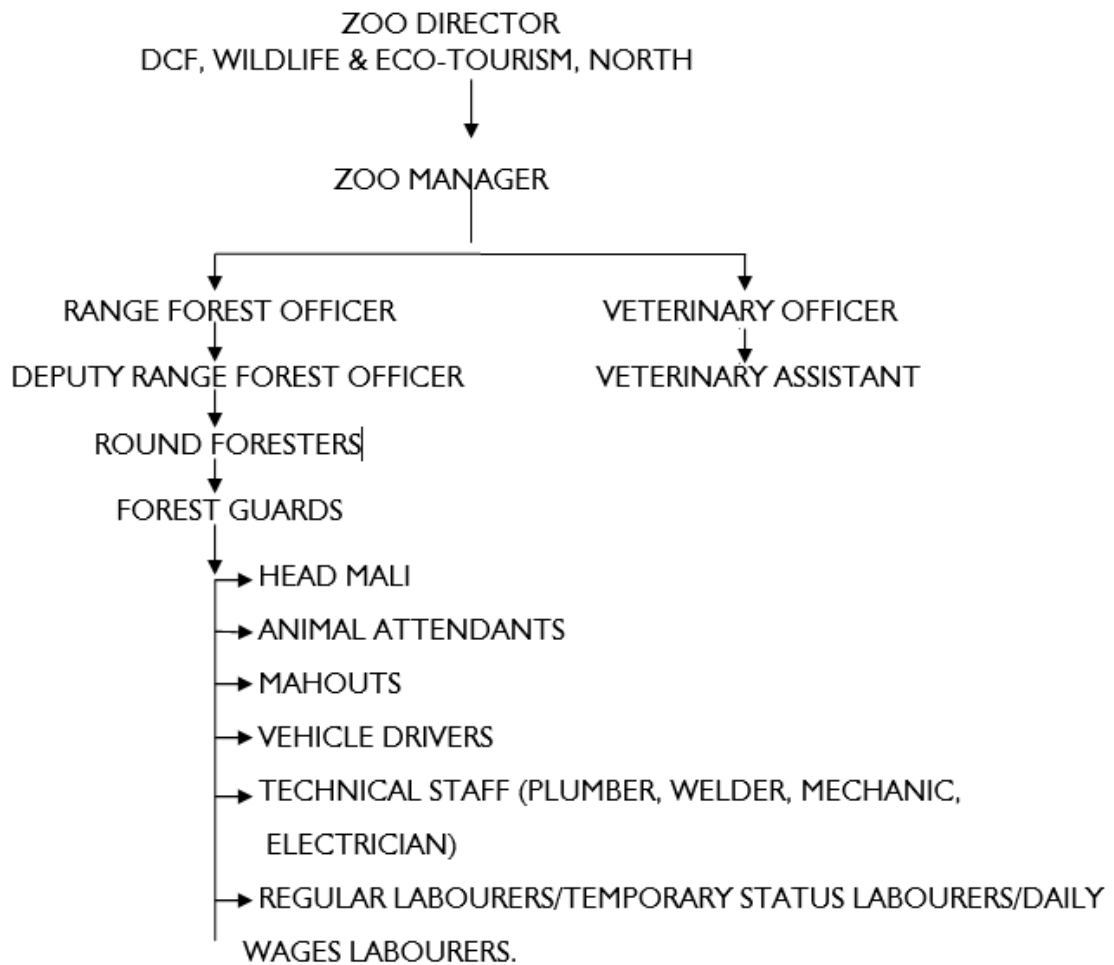


Management Personnel of the zoo		
16.	Name with designation of the Officer in-charge	Shri. Anand Jadhav, IFS Dy. Conservator of Forests.
	Name of the Veterinary Officer	Dr. Loveleen M. Vaz (On deputation from AH &VS)
	Name of the Curator/Zoo Manager	Shri. Paresh C. Porob
	Name of Asst. Curator/ Range Forest Officer	Shri. Vilas Gawas
	Name of the Education Officer	--
	Name of the Compounder/Lab Assistant	--
Owner/ Operator of the Zoo		
17.	Name of the Operator	Secretary Forests, Government of Goa, Secretariat Porvorim Goa
18.	Address of the Operator	Secretary Forests, Government of Goa, Secretariat Porvorim Goa
19.	Contact details/ Phone number of Operator	
20.	E-mail address of Operator	





07. ORGANIZATION CHART





08. HUMAN RESOURCES

MANPOWER OF THE ZOO

Sr. No.	Designation	Number of Sanctioned Posts	Names of the incumbent
1	Zoo Manager	01	Paresh Porob
2	Range Forest Officer	01	Vilas Gawas
3	Veterinary Assistant	01	Pravesh P. Naik
4	Round Forester	02	Suresh Khandeparkar
			Neetisha Varak
5	Forest Guard	08	Ramnath S. Mhalshekar
			Adam Khan
			Nitesh Varak
			Gulshan Naik
			Pragati Sawant
			Vaman Pilyekar
			Ramdas Kevankar
			Jailesh Gaonkar
6	Animal Attendant	00	-
7	Mahout	04	Duming Fernandes
			Mahabaleshwar Naik
			Noor Makandar
			Mohammed Afroz
8	Regular Labourer	17	Vishwanath S. Sangodkar
			Dynaneshwar G. Usgaonkar
			Nagesh B Khandeparkar
			Ashok K Naik
			Keshav Gaude
			Vinayak Falkar
			Rajendra C Naik
			Sulbha Gaonkar
			Vishanti Falkar
			Damodar Gaonkar
			Pandurang Gawas
			Netra Nanshikar
			Roshan Gawde
			Prema Ratate
			Vasanti Dessai
			Umakant Naik
			Chandrakant Aikar
09	Temporary Status Labourer	14	Sumitra Gawde
			Ramesh Y. Gawde
			Devidas Gawas
			Vilas Gaude
			Uddesh Gaonkar
			Ramakant Borkar
			Kishor Gawde
			Sarvesh Naik
			Siman Fernandes
			Arun Gaonkar





			Vinod Bavkar
			Santosh Gaonkar
			Deepa Bavkar
			Raghunath Gawas
10	Daily Wage Labourer	71	Upaso Chandrakant Gaonkar
			Siddhesh Ramnath Surlikar
			Lalita Krishnanath Sakhalkar
			Kamalakant Shablo Gavde
			Ranganath Govind Gawade
			Sadanand Arjun Gaonkar
			Baboni Naru Morlekar
			Vasudev Vaman Prabhu
			Prashanti Prashant Gaude
			Tanvi Tulshidas Gawade
			Milan Datta Naik
			Krishna Mahadev Sawant
			Anand Raghoba Melekar
			Krishna Putko Gaonkar
			Ajit Hono Palkar
			Mahesh Shinu Gaude
			Vishnudas Ganpat Prabhu
			Hanumant Pandurang Prabhu
			Satin Subhash Gosavi
			Anand Jana Gaude
			Gurudas Laximan Gaude
			Pragati Pramod Morlekar
			Ganesh Laxman Mhalshekar
			Ramdas Govind Gawas
			Kamalakant Laximan Salelkar
			Vishwanath Nakul Gawas
			Devidas Vishnu Gawas
			Sarvesh Atma Prabhu
			Prashant Keshav Gaude
			Sachin Baburao Gaonkar
			Premanand Tukaram Gawde
			Vasant Krishna Gawas
			Umeta Umesh Salgaonkar
			Raghalo Gaonkar
			Aarti Amar Naik
			Kishor Mahadev Sawant
			Rupesh Pandurang Tari
			Yoganand Kanta Mulgaonkar
			Dayanand Tulshidas Ambeskar
			Vishal Surendra Turi
			Hitesh Vishnu Gaonkar
			Naresh Nanda Naik
			Pritesh Ramdas Araundekar
			Vishal Tulshidas Naik
			Gokuldas Gopi Naik
			Tulshidas Soma Gaonkar
			Yash Nagesh Khandeparkar
			Suraj Gawade
			Suchendra Gawade
			Pramila Sunil Gaude
			Mahima Vaghekar
			Suresh Melekar





			Shreyash Usapkar
			Vishnu Chari
			Sudhan Vishwas Naik
			Rajat Gaonkar
			Ashish Yadav
			Jayendra Vishram Melekar
			Sachin Somnath Naik
			Kedar Naik
			Sharad Melekar
			Babuso Gawade
			Vighnesh Shivdas Naik
			Kalpana Satarkar
			Shravan Pilyekar
			Shubham Naik
			Bindiya Babu Verekar
			Pradeep V. Usapkar
			Pandurang Digambar Chari
			Mahadev Gaonkar
			Sanjay Gaude



**09. CAPACITY BUILDING OF ZOO PERSONNEL**

Sr. No.	Name and designation of the zoo personnel	Subject matter of Training	Period of Training	Name of the Institution where the Training attended
NIL				

10. Zoo Advisory Committee –

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

Being a small Zoo,
State has not
Constituted this
Committee

11. Health Advisory Committee –

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

Being a small Zoo,
State has not
Constituted this
Committee

12. STATEMENT OF INCOME AND EXPENDITURE OF THE ZOO (2019-2020)**REVENUE**

Sr. No.	Category	Amount
I	Entry Fee	55,02,870.00
	Total	₹55,02,870.00

EXPENDITURE

Sr. No.	Items	Amount
1	Milk	9,476.00
2	Fish	13,200.00
3	Fruits	3,23,211.00
4	Eggs	19,200.00
5	Broiler Chicken	2,96,983.00
6	Vegetables	10,25,388.00
7	Beef	8,76,458.00
8	Cattle Feed (High protein mesh)	6,21,077.00
9	Goa Bagayatdar Feed (Rice, Jaggery, Green peas etc.)	2,18,868.00
10	Other feed (Curd, Lemon, Maize fodder, Sunflower seeds, Honey, Emu feed etc.)	2,92,432.00
11	Zoo Medicines	3,75,183.00
12	Miscellaneous Expenditure	4,76,452.00
13	Wages	50,26,990.00
	Total	95,74,918.00





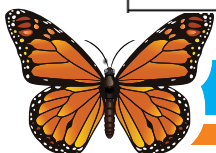
13. DAILY FEED SCHEDULE OF ANIMALS

Sr. No.	Species	Feed item	Quantity	Day of fasting
1	Leopard (05 individuals)	Beef	07 kgs	Monday
		Julie, Richie & Cherry	3.4 kgs	
		Anjali	500 ml	
		Additional once a week	Chicken	
2	Jackal (02 individuals)	Beef	01 kgs	Monday
3	Palm Civet (04 individuals)	Beef	0.5 kg	Monday
		Banana	08 nos.	
		Mixed fruit (Banana, Water melon, Apple, Grapes, Orange, Mango and Seasonal fruits etc.)	01 kg	
4	Sloth Bear (02 individuals.)	Rice	03 kgs	Monday (Partial due to Geriatricity)
		Coconut	02 nos.	
		Jaggery	02 kgs	
		Sooji rawa	02 kgs	
		Milk	1.5 litre	
		Eggs	08 nos.	
		Banana	12 nos.	
		Mixed fruit (Banana, Water melon, Apple, Grapes, Orange, Mango and seasonal fruits etc.)	2.5 kg	
		Honey	360ml	
5	Porcupine (04 individuals)	Groundnut	200 gms	Monday
		Green peas	0.5 kg	
		Chickpea	0.5 kg	
		Vegetables (Mix)	04 kgs	
		Banana	06 nos.	
6	Gaur (09 individuals)	Mixed fruit (Banana, Water melon, Apple, Grapes, Orange, Mango and seasonal fruits etc.)	02 kgs	Monday
		Green peas	0.5 kg	
		Chickpea	0.5 kg	
		High protein mesh	40 kgs	
		Fodder grass (Mixed fodder depending on availability like Maize, Sugarcane, Kadba kutti etc.)	210 kgs	





7	Spotted Deer (09 individuals)	High protein mesh	04 kgs	Monday
		Fodder grass (Mixed fodder depending on availability like Maize, Sugarcane etc.)	35 kgs	
		Vegetables (Mixed)	08 kgs	
8	Sambar (22 individuals)	High protein mesh	10 kgs	Monday
		Fodder grass (Mixed fodder depending on availability like Maize, Sugarcane, Kadba kutti etc.)	110 kgs	
		Vegetables (Mixed)	17.5 kgs	
9	Four Horned Antelope (03 individuals)	High protein mesh	01 kg	Monday
		Fodder grass (Mixed fodder depending on availability like Maize, Sugarcane etc.)	10 kgs	
		Vegetables (Mixed)	03 kgs	
10	Black Buck (12 individuals)	High protein	06 kgs	Monday
		Fodder grass (Mixed fodder depending on availability like Maize, Sugarcane etc.)	45 kgs	
		Vegetables (Mixed)	11.5 kgs	
11	Wild Pig (25 individuals)	Green peas	0.5 kg	Monday
		Chickpea	0.5 kg	
		High protein mesh	19 kgs	
12	Jungle Cat (02 individuals)	Chicken	0.5 kg	Monday
13	Peafowl (03 birds)	Bajra	0.5 kg	Monday
		Vegetables (Mixed)	03 kgs	
		Jowar	0.5 kg	





14	Pheasants (08 birds)	Moong	150 gms	Monday
		Jowar	150 gms	
		Bajra	150 gms	
		Vegetables (Mix)	1.5 kg	
		Eggs (Boiled)	02 nos.	
		Leafy vegetables	02 bundles	
		Mixed fruit (Banana, Water melon, Apple, Grapes, Orange, Mango and seasonal fruits etc.)	0.5 kg	
15	Emu (06 birds)	Emu feed	02 kg	Monday
		Banana	04 nos.	
		Vegetables (Mixed)	04.5 kgs	
16	Cockatiels (09 birds)	Moong	50 gms	Monday
		Bajra	100 gms	
		Eggs	02 nos.	
		Vegetables (Mixed)	500 gms	
		Leafy vegetables	01 bundle	
17	Crocodile (06 individuals)	Beef	1.5 kgs twice a week	Monday
18	Python (02 individuals)	Chicken	04 nos. (live) twice a month	Monday
19	King Cobra (02 individuals)	Rat snake	04 nos. (live) in a month	Monday
20	Snakes (21 individuals)	White Rats Country eggs	Thrice a month 01 no. rat for each snake. 16 nos. (Thrice a month) for Russell's Viper and Cobra.	Monday
21	Checkered keelback snake (02 individuals)	Fish	250 gms	Monday
22	Turtle (09 individuals)	Fish	250 gms	Monday
		Vegetables (Mixed)	02 kgs	





14. VACCINATION SCHEDULE OF ANIMALS



NAME OF ANIMAL	SPECIES	SEX	DATE	VACCINE
MANDU	LEOPARD	MALE	05.08.2022	Feligen – CRP (Feline Calicivirus, Rhinotracheitis virus, Panleukopenia virus)
				Anti-Rabies (Nobivac Rabies)
ANJALI	LEOPARD	FEMALE	06.08.2022	Feligen – CRP (Feline Calicivirus, Rhinotracheitis virus, Panleukopenia virus)
				Anti-Rabies (Nobivac Rabies)
JULIE	LEOPARD	FEMALE	10.08.2022	Feligen – CRP (Feline Calicivirus, Rhinotracheitis virus, Panleukopenia virus)
				Anti-Rabies (Nobivac Rabies)
RICHIE	LEOPARD	MALE	12.08.2022	Feligen – CRP (Feline Calicivirus, Rhinotracheitis virus, Panleukopenia virus)
				Anti-Rabies (Nobivac Rabies)
			15.08.2022	Feligen – CRP (Feline Calicivirus, Rhinotracheitis virus, Panleukopenia virus)
CHERRY	LEOPARD	FEMALE		Anti-Rabies (Nobivac Rabies)
--	JACKAL	MALE	15/09/2022	Canine Vanguard 514 (Canine Distemper- Adenovirus Type 2- Parainfluenza- Parvovirus, Leptospira Canicola- Grippytyphosa- Ictohemorrhagiae- Pomona Bacterin)
				Anti-Rabies (Nobivac Rabies)





15. DEWORMING SCHEDULE OF ANIMALS

SR NO.	SPECIES	DATE OF ADMINISTRATION	DRUG USED	TOTAL DRUG ADMINISTERED
1.	GAURS	26/06/2022	Fenbendazole	12 gms * 07 adults
			Fenbendazole	13.5 gms * 04 adults
				12 gms * 03 adults
				01 gm * 01 juvenile
2.	SAMBAR	28/06/2022	Fenbendazole	1.5 gms * 18 adults
				1.0 gms * 04 sub- adults
			Fenbendazole	1.5 gms * 18 adults
				1.0 gms * 06 sub- adults
3.	SPOTTED DEERS	28/06/2022	Pyrantel Embonate	504 mg * 09 adults
			Febantel	525 mg * 09 adults
			Praziquantel	50 mg * 13 adults
			Fenbendazole	1.5 gms * 09 adults
4.	BLACK BUCKS	28/06/2022	Pyrantel Palmoate	144 mg * 12 adults
			Fenbendazole	500 mg * 12 adults
			Pyrantel Palmoate	144 mg * 12 adults
			Fenbendazole	500 mg * 12 adults
5.	CIVET CATS	12/07/2022	Praziquantel	25 mg * 04 adults
			Pyrantel Palmoate	72 mg * 04 adults
			Fenbendazole	250 mg * 04 adults
			Praziquantel	25 mg * 04 adults
6.	JUNGLE CATS	12/07/2022	Pyrantel Palmoate	72 mg * 04 adults
			Fenbendazole	250 mg * 04 adults
			Praziquantel	25 mg * 02 adults
			Pyrantel Palmoate	72 mg * 02 adults
			Fenbendazole	250 mg * 02 adults
			Praziquantel	25 mg * 02 adults
			Pyrantel Palmoate	72 mg * 02 adults
			Fenbendazole	250 mg * 02 adults
7.	PORCUPINE	01/07/2022	Praziquantel	25 mg * 03 adults
			Pyrantel Palmoate	72 mg * 03 adults
			Fenbendazole	250 mg * 03 adults





			Praziquantel	25 mg * 03 adults
			Pyrantel Palmoate	72 mg * 03 adults
			Fenbendazole	250 mg * 03 adults
8.	FOUR HORNED ANTELOPE	28/06/2022	Praziquantel	50 mg * 03 adults
			Pyrantel Palmoate	144 mg * 03 adults
			Fenbendazole	500 mg * 03 adults
			Praziquantel	50 mg * 03 adults 15 mg * 01 juvenile
			Pyrantel Palmoate	144 mg * 03 adults 70 mg * 01 juvenile
			Fenbendazole	500 mg * 03 adults 200 mg * 01 juvenile
9.	EMU	28/06/2022	Praziquantel	87.5 mg * 02 adults
			Pyrantel Embonate	252 mg * 02 adults
			Febantel	262.5 mg * 02 adults
			Praziquantel	87.5 mg * 06 adults
			Pyrantel Embonate	252 mg * 06 adults
			Febantel	262.5 mg * 06 adults
10.	LEOPARDS	05/07/2022	Praziquantel	175 mg * 05 adults
			Pyrantel Embonate	504 mg * 05 adults
			Febantel	525 mg * 05 adults
			Praziquantel	175 mg * 05 adults
			Pyrantel Embonate	504 mg * 05 adults
			Febantel	525 mg * 05 adults
11.	JACKALS	05/07/2022	Praziquantel	50 mg * 02 adults
			Pyrantel Palmoate	144 mg * 02 adults
			Fenbendazole	500 mg * 02 adults
			Praziquantel	50 mg * 01 adult
			Pyrantel Palmoate	144 mg * 01 adult
			Fenbendazole	500 mg * 01 adult
12.	MUGGER CROCODILES	29/06/2022	Fenbendazole	03 gms * 03 adults
			Fenbendazole	03 gms * 03 adults
13.	CAIMAN CROCODILES	29/06/2022	Fenbendazole	1.5 gms * 02 adults
			Fenbendazole	1.5 gms * 02 adults
14.	PHEASANTS	30/08/2022	Fenbendazole	0.2 ml * 07 adults All birds sprayed with 0.25 % Fipronil





			Fenbendazole	0.2 ml * 07 adults All birds sprayed with 0.25 % Fipronil
15.	PEAFOWLS	30/08/2022	Fenbendazole	05 ml * 03 adults All birds sprayed with 0.25% Fipronil
			Fenbendazole	05 ml * 03 adults All birds sprayed with 0.25% Fipronil
16.	COCKATIELS	30/06/2022	Fenbendazole	05 ml * 08 adults in drinking water
			Fenbendazole	10 ml * 10 adults in drinking water
17.	SLOTH BEARS	28/06/2022	Praziquantel	350 mg * 02 adults
			Pyrantel Embonate	1008 mg * 02 adults
			Febantel	1050 mg * 02 adults
			Praziquantel	350 mg * 01 adult
			Pyrantel Embonate	1008 mg * 01 adult
			Febantel	1050 mg * 01 adult



OPPO F19
P.Porob





16. DISINFECTION SCHEDULE

DAILY

<u>AREA</u>	<u>DISINFECTANT</u>	<u>CONCENTRATION</u>
Zoo Entrance / Exit	KMnO ₄ (Footbath/ Dip)	10%
Entrance at all enclosures	KMnO ₄ (Footbath/ Dip)	05 %
Veterinary Hospital & Rescue Centre	KMnO ₄ (Footbath/ Dip)	15 %

FORTNIGHTLY

<u>AREA</u>	<u>DISINFECTANT</u>	<u>CONCENTRATION</u>
Carnivore Night Shelters	Glutaraldehyde (Korsolin – TH)	02 %
	Turmeric	05 %
Herbivore Night Shelters	Turmeric	02 %

BI- ANNUALLY

<u>AREA</u>	<u>DISINFECTANT</u>
All Zoo Night Shelters	Lime wash paint
All Zoo Enclosure chainlink/ Metal Bars	Fire gun blow torch after scrubbing





ENCLOSURES	DATE	FUMIGANT CONCENTRATIONS		
		DELTAMET HRIN	GLUTARALDEH YDE	IVERMECTI N
LEOPARD Rooms 1 & 2 (Mandu & Anjali)	04/06/2022	05%	10%	0.8%
Night Shelter towards Gaur enclosure & Squeeze Cage	04/06/2022	08%	12%	01%
Rooms 3 & 4 (Richie, Julie & Cherry) / Out Enclosure	04/06/2022	05%	10%	--
SLOTH BEAR 03 Night Shelters Out Enclosure	05/06/2022	08%	12%	01%
JACKAL 02 Night Shelters Out Enclosure	07/06/2022	03%	08%	0.8%
GAUR Night Shelters & Out Enclosure	08/06/2022	14%	15%	--
FORMER TIGER 03 Night Shelters, Squeeze Cage & Out Enclosure	08/06/2022	14%	15%	--
KING COBRA	10/06/2022	0.8%	02%	0.8%
SNAKE HOUSE All boxes Out Enclosure	10/06/2022	0.8%	02%	0.8%
PARAKEET	10/06/2022	All birds were sprayed with 0.25% fipronil		
MUGGERS / CAIMAN	10/06/2022	01%	03%	0.8%
PYTHON	10/06/2022	0.8%	02%	0.8%
FOUR HORNED ANTELOPES	12/06/2022	01%	03%	0.8%





SPECIAL DISINFECTION PROTOCOLS FOLLOWED FOR DISEASE OUTBREAK (Corona Virus; Covid-19 & Avian influenza/ Bird Flu) AT BONDLA ZOO & WILDLIFE SANCTUARY

(With effect from 15th March 2020 onwards)

Bio security Measures followed:-

1. Sanctuary and Zoo closed for Visitors/ Tourists until advised.
2. Restricted movement/ avoidance of cluster of labour/ staff, working in batches as advised.
3. All Zoo staff in contact with animals; face masks, gloves, head caps etc., maintain personal hygiene and washing of Zoo uniforms in disinfectant before leaving Zoo daily.
4. Carnivore enclosures: 01 labour exclusively for cleaning and removal of left over feed, urine, stool etc, 01 labour exclusively for feeding only.
5. Feed hygiene: All vegetables to be thoroughly washed in brine solution/ hot water. Since no availability of beef, chicken to be procured dressed; and blanched in hot boiling water for about 1-2 minutes before offering.
6. Addition of Immunity tonics, multivitamins and minerals to feed as advised.
7. Careful and strict monitoring of Zoo animals and reporting if sick or any sign of illness.
8. Careful and strict monitoring of Zoo staff and reporting if sick or any sign of illness.
9. Careful and strict monitoring of Sanctuary Avians and immediate reporting of sudden mass mortality.
10. Restricted entry of Rescue birds at Veterinary hospital/ Rescue Centre and if gravely injured, proper quarantine measures to be followed during course of treatment advised.
11. Additional disinfection protocols as follows:-

<u>AREA</u>	<u>DISINFECTANT</u>	<u>CONCENTRATION</u>
All Entry/ Exit gates, administrative offices, Zoo kitchen	<u>Sanitiser</u> Ethanol	80%
	Chlorhexidine Gluconate	0.50%
Zoo Entrance / Exit/ Vehicles	KMnO ₄ (Footbath/ Dip)	20%
Entrance at all enclosures	KMnO ₄ (Footbath/ Dip)	05 %
Veterinary Hospital and Rescue Centre	KMnO ₄ (Footbath/ Dip)	15 %





All Zoo roads, pathways, junctions, circles, garden area etc	Glutaraldehyde	05%
	Sodium hypochlorite	08%
All Zoo Night Shelters (Once every 10 days)	Sodium hypochlorite	06-08%
	Formalin	02%

17. HEALTH CHECK-UP OF EMPLOYEES FOR ZOO NOTIC DISEASES

Sr. No.	Names of the incumbent	Designation	Date of Health Check up	Findings of Health Check up
01	Pravesh Naik	Veterinary Assistant	11.11.2022	Fit
02	Suresh Khandeparkar	Round Forester	11.11.2022	Fit
03	Neetisha Varak	Round Forester	11.11.2022	Fit
04	Ramnath S. Mhalshekar	Forest Guard	11.11.2022	Fit
05	Adam Khan	Forest Guard	11.11.2022	Fit
06	Nitesh Varak	Forest Guard	11.11.2022	Fit
07	Gulshan Naik	Forest Guard	11.11.2022	Fit
08	Pragati Sawant	Forest Guard	11.11.2022	Fit
09	Vaman Pilyekar	Forest Guard	11.11.2022	Fit
10	Ramdas Kevankar	Forest Guard	11.11.2022	Fit
11	Jailesh Gaonkar	Forest Guard	11.11.2022	Fit
12	Duming Fernandes	Elephant Mahout	11.11.2022	Fit
13	Mahabaleshwar Naik	Elephant Mahout	11.11.2022	Fit
14	Noor Makandar	Elephant Mahout	11.11.2022	Fit
15	Mohammed Afroz	Elephant Mahout	11.11.2022	Fit
16	Vishwanath S. Sangodkar	Regular Labourer	11.11.2022	Fit
17	Dynaneshwar G. Usgaonkar	Regular Labourer	11.11.2022	Fit
18	Nagesh B Khandeparkar	Regular Labourer	11.11.2022	Fit
19	Ashok K Naik	Regular Labourer	11.11.2022	Fit
20	Keshav Gaude	Regular Labourer	11.11.2022	Fit
21	Vinayak Falkar	Regular Labourer	11.11.2022	Fit
22	Rajendra C Naik	Regular Labourer	11.11.2022	Fit
23	Sulbha Gaonkar	Regular Labourer	11.11.2022	Fit
24	Vishanti Falkar	Regular Labourer	11.11.2022	Fit
25	Damodar Gaonkar	Regular Labourer	11.11.2022	Fit
26	Pandurang Gawas	Regular Labourer	11.11.2022	Fit
27	Netra Nanshikar	Regular Labourer	11.11.2022	Fit
28	Roshan Gawde	Regular Labourer	11.11.2022	Fit
29	Prema Ratate	Regular Labourer	11.11.2022	Fit
30	Vasanti Dessai	Regular Labourer	11.11.2022	Fit
31	Umakant Naik	Regular Labourer	11.11.2022	Fit





32	Chandrakant Aikar	Regular Labourer	11.11.2022	Fit
33	Sumitra Gawde	TSL	11.11.2022	Fit
34	Ramesh Y. Gawde	TSL	11.11.2022	Fit
35	Devidas Gawas	TSL	11.11.2022	Fit
36	Vilas Gaude	TSL	11.11.2022	Fit
37	Uddesh Gaonkar	TSL	11.11.2022	Fit
38	Ramakant Borkar	TSL	11.11.2022	Fit
39	Kishor Gawde	TSL	11.11.2022	Fit
40	Sarvesh Naik	TSL	11.11.2022	Fit
41	Siman Fernandes	TSL	11.11.2022	Fit
42	Arun Gaonkar	TSL	11.11.2022	Fit
43	Vinod Bavkar	TSL	11.11.2022	Fit
44	Santosh Gaonkar	TSL	11.11.2022	Fit
45	Deepa Bavkar	TSL	11.11.2022	Fit
46	Raghunath Gawas	TSL	11.11.2022	Fit
47	Upaso Chandrakant Gaonkar	DWL	11.11.2022	Fit
48	Siddhesh Ramnath Surlikar	DWL	11.11.2022	Fit
49	Lalita Krishnanath Sakhalkar	DWL	11.11.2022	Fit
50	Kamalakant Shablo Gavde	DWL	11.11.2022	Fit
51	Ranganath Govind Gawade	DWL	11.11.2022	Fit
52	Sadanand Arjun Gaonkar	DWL	11.11.2022	Fit
53	Baboni Naru Morlekar	DWL	11.11.2022	Fit
54	Vasudev Vaman Prabhu	DWL	11.11.2022	Fit
55	Prashanti Prashant Gaude	DWL	11.11.2022	Fit
56	Tanvi Tulshidas Gawade	DWL	11.11.2022	Fit
57	Milan Datta Naik	DWL	11.11.2022	Fit
58	Krishna Mahadev Sawant	DWL	11.11.2022	Fit
59	Anand Raghoba Melekar	DWL	11.11.2022	Fit
60	Krishna Putko Gaonkar	DWL	11.11.2022	Fit
61	Ajit Hono Palkar	DWL	11.11.2022	Fit
62	Mahesh Shinu Gaude	DWL	11.11.2022	Fit
63	Vishnudas Ganpat Prabhu	DWL	11.11.2022	Fit
64	Hanumant Pandurang Prabhu	DWL	11.11.2022	Fit
65	Satin Subhash Gosavi	DWL	11.11.2022	Fit
66	Anand Jana Gaude	DWL	11.11.2022	Fit
67	Gurudas Laximan Gaude	DWL	11.11.2022	Fit
68	Pragati Pramod Morlekar	DWL	11.11.2022	Fit
69	Ganesh Laxman Mhalshekar	DWL	11.11.2022	Fit
70	Ramdas Govind Gawas	DWL	11.11.2022	Fit
71	Kamalakant Laximan Salelkar	DWL	11.11.2022	Fit
72	Vishwanath Nakul Gawas	DWL	11.11.2022	Fit
73	Devidas Vishnu Gawas	DWL	11.11.2022	Fit
74	Sarvesh Atma Prabhu	DWL	11.11.2022	Fit
75	Prashant Keshav Gaude	DWL	11.11.2022	Fit
76	Sachin Baburao Gaonkar	DWL	11.11.2022	Fit
77	Premanand Tukaram Gawde	DWL	11.11.2022	Fit





78	Vasant Krishna Gawas	DWL	11.11.2022	Fit
79	Umeta Umesh Salgaonkar	DWL	11.11.2022	Fit
80	Raghalo Gaonkar	DWL	11.11.2022	Fit
81	Aarti Amar Naik	DWL	11.11.2022	Fit
82	Kishor Mahadev Sawant	DWL	11.11.2022	Fit
83	Rupesh Pandurang Tari	DWL	11.11.2022	Fit
84	Yoganand Kanta Mulgaonkar	DWL	11.11.2022	Fit
85	Dayanand Tulshidas Ambeskar	DWL	11.11.2022	Fit
86	Vishal Surendra Turi	DWL	11.11.2022	Fit
87	Hitesh Vishnu Gaonkar	DWL	11.11.2022	Fit
88	Naresh Nanda Naik	DWL	11.11.2022	Fit
89	Pritesh Ramdas Araundekar	DWL	11.11.2022	Fit
90	Vishal Tulshidas Naik	DWL	11.11.2022	Fit
91	Gokuldas Gopi Naik	DWL	11.11.2022	Fit
92	Tulshidas Soma Gaonkar	DWL	11.11.2022	Fit
93	Yash Nagesh Khandeparkar	DWL	11.11.2022	Fit
94	Suraj Gawade	DWL	11.11.2022	Fit
95	Suchendra Gawade	DWL	11.11.2022	Fit
96	Pramila Sunil Gaude	DWL	11.11.2022	Fit
97	Mahima Vaghekar	DWL	11.11.2022	Fit
98	Suresh Melekar	DWL	11.11.2022	Fit
99	Shreyash Usapkar	DWL	11.11.2022	Fit
100	Vishnu Chari	DWL	11.11.2022	Fit
101	Sudhan Vishwas Naik	DWL	11.11.2022	Fit
102	Rajat Gaonkar	DWL	11.11.2022	Fit
103	Ashish Yadav	DWL	11.11.2022	Fit
104	Jayendra Vishram Melekar	DWL	11.11.2022	Fit
105	Sachin Somnath Naik	DWL	11.11.2022	Fit
106	Kedar Naik	DWL	11.11.2022	Fit
107	Sharad Melekar	DWL	11.11.2022	Fit
108	Babusio Gawade	DWL	11.11.2022	Fit
109	Vighnesh Shivdas Naik	DWL	11.11.2022	Fit
110	Kalpana Satarkar	DWL	11.11.2022	Fit
111	Shravan Pilyekar	DWL	11.11.2022	Fit
112	Shubham Naik	DWL	11.11.2022	Fit
113	Bindiya Babu Verekar	DWL	11.11.2022	Fit
114	Pradeep V. Usapkar	DWL	11.11.2022	Fit
115	Pandurang Digambar Chari	DWL	11.11.2022	Fit
116	Mahadev Gaonkar	DWL	11.11.2022	Fit
117	Sanjay Gaude	DWL	11.11.2022	Fit





18. DEVELOPMENT WORKS CARRIED OUT IN THE ZOO DURING THE YEAR 2022-2023



Sr. No.	Name of Works
1	Railing, pavers and water proofing work along with the installation of water pump for pond at Bondla Zoo.
2	Construction of benches for viewing point for Sloth Bear enclosure and gate for Tiger outdoor enclosure at Bondla Zoo
3	Construction of Pond near Zoo entrance at Bondla zoo
4	Enclosure for Barking Deer at Bondla Zoo.
5	plastering, painting and providing additional acrylic sheet for birds enclosure at Bondla Zoo
6	Construction of Gabion retaining wall for nallah near public toilet (20 mtrs.) at Bondla.
7	Ferrocement work for Jungle cat & Civet cat enclosure at Bondla Zoo
8	Ferrocement work for Blue & Golden Macaw enclosure at Bondla Zoo
9	Construction of Pond for Tiger outdoor enclosure at Bondla zoo
10	Construction of protection wall and waterproofing to pond of outdoor Tiger enclosure at Bondla Zoo
11	Constrctution of rain water gutter for Drainange in Bondla Zoo.
12	Procurement of new foot baths for animal enclosures.
13	Procurement of veterinary equipment's for Veterinary hospital Bondla Zoo
14	Construction visitor pathway near Chowsingha enclosure.
15	Construction of resting shed for visitors in Bondla zoo.
16	Renovation to leopard enclosure with kraal in Bondla zoo.





19. EDUCATION AND AWARENESS PROGRAMMES DURING THE YEAR 2022-2023

Sr. No.	Events	Number of participants
1	Drawing competition on DTD. 28/09/2022	46 Nos
2	Poster competition on 28/09/2022	48 Nos
3	Essay competition on 28/09/2022	27 Nos
4	Butterfly Monitoring 24/09/2022 & 25/09/2022	38 Nos
5	Session on reintroduction of Cheetah in India on 03/10/2022 & 22/10/2022	100 Nos
6	Nature walk activities were conducted at Bondla. 1.03/10/2022—Dragon Nature trail/Zoo visit 2.04/10/2022—Zoo Visit 3.06/10/2022—Zoo Visit 4.08/10/2022— Zoo Visit/Bird walk.	30 Nos 35 Nos 40 Nos 45 Nos

20. IMPORTANT EVENTS AND HAPPENINGS

- ❖ Organized Nature awareness camps for school students at Bondla Zoo.
- ❖ Valedictory function of Wildlife Week, 2019 and Prize distribution Ceremony held on 15/02/2020 at Bondla Zoo.
- ❖ Organized Wildlife Film show for students, parents and prize winners to create awareness about forest and wildlife at Nature Information Centre, Bondla.

21. SEASONAL SPECIAL ARRANGEMENTS FOR UPKEEP OF ANIMALS

- ❖ Provided Water-sprinkler in Gaur, Leopard, Sloth bear, King Cobra and Four Horned Antelope Enclosures to regulate body temperature and provide conducive environment to combat soaring temperatures during Summer Season.
- ❖ Additional Fan arrangement in King Cobra and Leopard Enclosures for cooling environment during Summer Season.
- ❖ Provision of Water-holding fruits like Watermelon etc. and juicy Vegetables like Cucumber etc. during Summer Season.
- ❖ Provision of shed net covering, dry hay, and gunny bags etc. in winter season for warmth and heat regulation.
- ❖ Change in diet according to Seasonal availability of local fruits and vegetables to all Zoo animals.
- ❖ Provision of salt-licks in herbivores; to increase thirst and water consumption during Winter Season.
- ❖ Inclusion of Sugarcane, Maize fodder etc. during Seasonal availability in Zoo herbivores.





22. RESEARCH WORK CARRIED OUT AND PUBLICATIONS

No research activities were carried out during year 2022-2023.

CONSERVATION BREEDING PROGRAMME OF THE ZOO

Bondla Zoo has been identified as the Participating Zoo for Breeding of Indian Gaur by CZA from the year 2007 and all individuals being housed at Bondla have been registered in the National Studbook by CZA.

23. ANIMAL ACQUISITION/ TRANSFER/ EXCHANGE DURING THE YEAR 2022-2023

A.	Animals arriving in the Zoo				
	H. No.	Species	Number (M:F)	From which Zoo	Date of arrival in the zoo
	NIL				
B.	Animals going from the zoo				
	H. No.	Species	Number (M:F)	Going to which Zoo	Date of deposition from the zoo
	NIL				

□

24. RESCUE AND REHABILITATION OF WILD ANIMALS CARRIED OUT BY THE ZOO

Sr. No	Date of Rescue	Species with number of animals rescued with their sex (M:F:U:T)	Received from	Date of Submission of Report to the CWLW/CZA	Action taken	
					Date and place of rehabilitation in their habitat	Reasons for housing in the zoo, if not released in their habitat
1	03.04.2022	King Cobra (<i>Ophiophagus hannah</i>)	Valpoi	01/06/2022	Bondla WLS, 03.04.2022	-
2	13.04.2023	Rat Snake (<i>Ptyas mucosa</i>)	Ponda	01/06/2022	Bondla WLS, 13.04.2022	-
3	03.06.2022	Female Langoor (<i>Semnopithecus</i>)	Ponda	09/07/2022	Bondla WLS, 21.06.2022	-
4	06.06.2022	Common Cobra (<i>Naja naja</i>)	Ponda	09/07/2022	Bondla WLS, 06.06.2022	-
5	08.06.2022	Peongolim	Valpoi	09/07/2022	Bondla WLS, 08.06.2022	-





6	09.06.2022	Eagle	Ponda	09/07/2022	-	Kept in rescue center left wing broken cannot take flight
7	18.06.2022	Wood owl	Panaji	09/07/2022	-	Wings broken kept in rescue center
8	20.06.2022	Crocodile	Ponda	09/07/2022	Death on 22.06.2022	Post mortem conducted and report submitted to Range office.
9	22.06.2022	Common Cobra (<i>Naja naja</i>)	Dharbandora	09/07/2022	Bondla WLS, 22.06.2022	-
10	29.07.2022	Cat Snake (<i>Boiga forsteri</i>)	Valpoi	22/08/2022	Bondla WLS, 29/07/2022	-
11	04.08.2022	Common Cobra (<i>Naja naja</i>)	Ponda range	03/10/2022	Bondla WLS, 04.08.2022	-
12	04.08.2022	Spotted Deer (<i>Axis axis</i>)	Keri range	03/10/2022	-	Bite by domestic dog back side of right leg minor injury, kept in Rescue Centre Bondla Wild life Sanctuary.
13.	23.08.2022	Rat Snake (<i>Ptyas mucosa</i>)	Ponda range	03/10/2022	Bondla WLS, 23.08.2022	-
14	29.08.2022	Indian Rock Python (<i>python molurus</i>)	Ponda range	03/10/2022	Bondla WLS, 29.08.2022	-
15	11.09.2022	Common Cobra (<i>Naja naja</i>)	Ponda range	07/10/2022	Bondla WLS, 11.09.2022	-
16	18.09.2022	Rat Snake (<i>Ptyas mucosa</i>)	Ponda Range	07/10/2022	Bondla WLS, 18.09.2022	-
17	01.10.2022	Common Cobra (<i>Naja naja</i>)	Valpoi range	18/01/2023	Bondla WLS, 01.10.2022.	-
18	02.10.2022	Indian Rock Python (<i>python molurus</i>)	Valpoi Range	18/01/2023	Bondla WLS, 02.10.2022	-





19	26.10.2022	Monitor Lizard (<i>Varanus</i>)	RFO, Sanguem Range	18/01/2023	-	Injured kept in Rescue Center at Bondla.
20	27.10.2022	Common Langur (<i>Semnopithecus entellus</i>)	RFO, Wildlife Campal Range.	18/01/2023	-	Injured kept in Rescue Center at Bondla.
21	01.11.2022	Common Cobra (<i>Naja naja</i>)	Valpoi range	18/01/2023	Bondla WLS, 01.11.2022.	-
22	03.11.2022	Bonnet Monkey (<i>Macaca radiata</i>)	Valpoi range	18/01/2023	-	Injured kept in Rescue Center at Bondla.
23	07.11.2022	Rose Ring Parakeet (<i>Psittacula krameria</i>)	-	18/01/2023	-	Kept in Rescue Center
24	16.11.2022	Rat Snake (<i>Ptyas mucosa</i>)	Valpoi range	18/01/2023	Bondla WLS, 16.11.2022.	-
25	23.11.2022	Russel Viper (<i>Daboia russelii</i>)	Ponda range	18/01/2023	Bondla WLS, 23.11.2022.	-
26	28.11.2022	Common Langur (<i>Semnopithecus entellus</i>)	RFO, Wildlife Campal Range.	18/01/2023	-	Injured kept in Rescue Center at Bondla.
27	03.12.2022	Rat Snake (<i>Ptyas mucosa</i>)	Valpoi range	18/01/2023	Bondla WLS, 03.12.2022.	-
28	18.12.2022	Rat Snake (<i>Ptyas mucosa</i>)	Valpoi range	18/01/2023	Bondla WLS, 18.12.2022.	-
29	18.01.2023	Peacock (<i>Pavo cristatus</i>)	Margao range	30/03/2023	-	Injured with Right leg fracture, kept in Rescue center, Bondla.
30	23.01.2023	Baby Langur (<i>Semnopithecus</i>)	Margao range	30/03/2023	-	No external injuries, kept in rescue center, Bondla.
31	01.02.2023	Rat Snake (<i>Ptyas mucosa</i>)	Valpoi range	30/03/2023	Bondla WLS, 01.02.2023	-





32	07.02.2023	Sand Boa (<i>Erycinae</i>)	Valpoi	30/03/2023	Bondla WLS, 07.02.2023	-
33	20.02.2023	Cat Snake (<i>Boiga forsteni</i>)	Valpoi	30/03/2023	Bondla WLS, 20.02.2023	-
34	28.02.2023	Mouse Deer (<i>Tragulidae</i>)	Keri Range	30/03/2023	-	Injured Mouse deer with cut mark on back and not standing kept in Rescue Center treatment given by Veterinary Doctor.
35	14.03.2023	Sand Boa (<i>Erycinae</i>)	Ponda range	13/04/2023	Bondla WLS, 14.03.2023	-
36	18.03.2023	Cat Snake (<i>Boiga forsteni</i>)	Valpoi	13/04/2023	Bondla WLS, 18.03.2023	-
37	28.03.2023	Juvenile Kite (<i>Milvus migrans</i>)	Margao.	13/04/2023	-	Kept in Rescue Center
38	28.03.2023	Plum Headed Parakeet (<i>Psittacula cyanocephala</i>)	Margao	13/04/2023	-	Kept in Rescue Center

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FORM – II

PART – A

Performa for Annually Inventory Report

Inventory Report for the Yearly: APRIL 2022 to MARCH 2023

Endangered Species*



SR NO	ANIMAL NAME	SCIENTIFIC NAME	OPENING STOCK AS ON 01/04/2022				BIRTHS				ACQUISITIONS				DISPOSALS				DEATHS				CLOSING STOCK AS ON 31/03/2023			
BIRDS			M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T
1.	Blue Peafowl	<i>Pavo cristatus</i>	2	1	0	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	0	3
TOTAL BIRDS			2	1	0	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	0	3
MAMMALS			M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T
1.	Tiger	<i>Panthera tigris</i>	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0
2.	Sloth Bear	<i>Melursus ursinus</i>	0	1	0	1	-	-	-	-	-	-	-	-	-	-	-	0	1	0	1	0	0	0	0	0
3.	Four horned Antelope	<i>Tetracerus quadricornis</i>	5	3	0	8	1	1	-	2	-	-	-	-	-	-	-	3	2	0	5	3	2	0	5	
4.	Civet palm	<i>Paradoxurus haemophrodites</i>	1	3	0	4	-	-	-	-	-	-	-	-	-	-	-	1	0	0	1	0	3	0	3	
5.	Gaur	<i>Bos gaurus</i>	5	4	0	9	1	1	0	2	-	-	-	-	-	-	-	1	0	0	1	5	5	0	1	0
6.	Jackal	<i>Canis aureus</i>	1	1	0	2	1	2	-	3	-	-	-	-	-	-	-	-	-	-	-	2	3	0	5	
7.	Leopard	<i>Panthera pardus</i>	2	3	0	5	-	-	-	-	-	-	-	-	-	-	-	0	1	0	1	2	2	0	4	
8.	Black Buck	<i>Antelope cervicapra</i>	7	6	0	13	-	-	-	-	-	-	-	-	-	-	-	3	1	0	4	4	5	0	9	





FORM – II

PART – B

Performa for Quarterly Inventory ReportInventory Report for the Quarter: **APRIL 2022 to MARCH 2023**

Other than Endangered Species*

SR NO.	ANIMAL NAME	SCIENTIFIC NAME	OPENING STOCK AS ON 01/04/2022				BIRTHS				ACQUISITIONS				DISPOSALS				DEATHS				CLOSING STOCK AS ON 31/03/2023			
BIRDS			M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T
1.	Silver Pheasant	<i>Lophura nycthemera</i>	1	2	0	3	-	-	-	-	-	-	-	-	-	-	-	-	0	1	0	1	1	1	0	2
2.	Ring Necked Pheasant	<i>Phasianus colchicus</i>	0	1	0	1	-	-	-	-	1	0	0	1	-	-	-	-	-	-	-	-	1	1	0	2
										*																
3.	Lady Amherst Pheasant	<i>Chrysolophus amherstiae</i>	1	0	0	1	-	-	-	-	0	1	0	1	-	-	-	-	-	-	-	-	1	1	0	2
											*															
4.	Cockatiels	<i>Nymphicus hollandicus</i>	3	3	4	10	-	-	-	-	-	-	-	-	-	-	-	-	0	1	1	2	3	2	3	8
5.	Emu	<i>Dromaius novaehollandiae</i>	0	1	4	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	1	4	5	
6.	Maca w	<i>Ara ararauna</i>	0	0	0	0	-	-	-	-	1	1	0	2	-	-	-	-	-	-	-	1	1	0	2	
										*	*															
TOTAL BIRDS			5	7	8	20																7	7	7	21	
MAMMALS			M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T
1	Deer Sambhar	<i>Cervus unicolor</i>	1	1	0	2	-	-	-	-	-	-	-	-	3	5	0	8	-	-	-	-	1	1	0	2
			1	5		6																1	5		6	





9.	Indian Elephant	<i>Elephas maximus</i>	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0		
10.	Jungle Cat	<i>Felis chaus</i>	1	2	0	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	0	3		
TOTAL MAMMALS			22	22	04	44															15	18	03	33		
REPTILES/ AMPHIBIANS			M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T
1.	Cheeked keelback	<i>Xenohopiscator</i>	0	2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	2	0	2		
2.	Common Cobra	<i>Nagajana</i>	2	1	0	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	0	3		
3.	King Cobra	<i>Ophiophagus hannah</i>	0	0	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	1	1		
4.	Crocodile Muggier	<i>Crocodylus palustris</i>	2	2	0	4	-	-	-	-	-	-	-	-	-	-	-	1	0	0	1	1	2	0	3	
5.	Flap shell Turtle	<i>Lissemys punctata</i>	0	0	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	2	2		
6.	Indian Rock Python	<i>Python molurus</i>	0	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	1	1	2		
7.	Rat snake	<i>Ptyas mucosus</i>	0	0	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	3	3		
8.	Russel I viper	<i>Vipera russelli</i>	1	0	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0	3	4		
TOTAL REPTILES/ AMPHIBIANS			5	6	10	21															4	6	10	20		

*Animals under Sch- I and Sch- II of Wild Life (Protection) Act, 1972





2	Spotted Deer	Axis axis	3	10	0	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	10	0	13		
3	Indian Porcupine	Hytrix indica	1	1	2	4	0	0	1	1	-	-	-	-	-	-	-	-	-	-	1	1	3	5		
4	Wild Boar	Sus scrofa	13	8	0	21	-	-	-	-	-	-	-	-	3	5	0	8	1	0	0	1	1	8	0	20
5.	Hippopotamus	Hippopotamus amphibious	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	
TOTAL MAMMALS			28	34	26	64															27	34	36	64		
REPTILES/ AMPHIBIANS			M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T
1.	Bronze back Tree snake	Dendrelaphis tristis	0	0	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	3	3		
2.	Forster's cat snake	Boiga foresti	0	0	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	2	2		
3	Sand Boa	Eryx conicus	4	1	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	0	5		
4	Trinket snake	Elaphe helena	0	1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	1	0	1		
5.	Indian Black Turtle	Melanochelys trijuga (trijuga)	2	4	0	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	0	6		
6.	Spectacled Caiman	Caiman crocodylus	0	1	0	1	-	-	-	-	-	-	-	-	-	-	-	0	1	0	1	0	0	0	0	
TOTAL REPTILES/ AMPHIBIANS			6	7	5	18															6	6	5	17		

Note: *Acquired on dated 28/01/2023: 1) 1 Nos. Male Ring necked pheasant, 2) 1 Nos. Female Lady Amherst pheasant, 3) 1 Nos. Male & 1 Nos. Female Macaw .





25.MORTALITY OF ANIMALS

Sr. No.	Animal Name (with individual identification mark, if any)	Scientific Name	Sex	Date of Death	Reason of Death
1	Silver Pheasant	<i>Lophura nycthemera</i>	Female	22.05.2022	Massive head trauma/ injury due to infight leading to hypovolemic shock & subsequent death.
2	Gaur	<i>Bos gaurus</i>	Male	22.06.2022	Massive penetrative punctured trauma to chest (left) & abdomen leading to traumatic soft tissue & organs, hemolytic shock & subsequent death.
3	Black buck	<i>Antelope cervicapra</i>	Female	06.07.2022	Multi organ semlity resulting in nutritional malabsertia debility and subsequent death.
4	Four Horned Antelope	<i>Tetracerus quadricornis</i>	Male	06.08.2022	Generalised internal soft tissue hemorrhage resulting from infight injuries resulting in trauma hypordemia & shock leading to subsequent death.
5	Four Horned Antelope	<i>Tetracerus quadricornis</i>	Female	18.08.2022	Abdominal soft tissue trauma due to fright & multiple puncture wounds leading to subsequent death
6	Cockatiel	<i>Nymphicus hollandicus</i>	Female	20.08.2022	Massive rupture of all abdominal organs due to blunt trauma either caused by fight or predator subsequently leading to death
7	Four Horned Antelope	<i>Tetracerus quadricornis</i>	Male	07.09.2022	Penetrative horn injuries to abdomen resulting in multi organ & soft tissue trauma due to in fight injuries resulting in secondary circulatory complication & subsequent death.
8	Black buck	<i>Antelope cervicapra</i>	Male	30.09.2022	Multi organ semlity resulting in nutritional malabsertia debility and subsequent death.
9	Black buck	<i>Antelope cervicapra</i>	Male	01.10.2022	Trauma to multiple soft tissue organs coupled with an emisting muscenlo skeletae fibrosis and possible renal condition.
10	Black buck	<i>Antelope cervicapra</i>	Male	08.12.2022	Multiple organ trauma coupled with an underlying hephorological cyst leading to generalised deterioration in herd & death.





11	Leopard	<i>Panthera pardus</i>	Female	02.10.2022	Severe hematometra, cystic ovaries syndrome & an active renal failure possibly due to Geriatricity & senility of multiple organs.
12	Mugger	<i>Crocodylus palustris</i>	Male	12.12.2022	Generalised puslutes evident of neoplastic origin along with underlying nephrotic lesions suggestive of senility /geriatricity.
13	Wild Boar	<i>Sus scrofa</i>	Male	20.12.2022	Primary paradiatic infection of nematode Ascaris seen migrating to various organs (liver lungs kidneys) leading to secondary suppurative pyelonephritis bronchopneumonia & wallapsed lungs (typical milky spots seen).
14	Spectacled Caiman	<i>Caimaninae</i>	Female	28.12.2022	The animal is suspected to have died due to cardio respiratory failure. The GIT was found to be impacted thereby causing intestinal stasis, inanition and death.
15	Sloth Bear	<i>Melursus ursinus</i>	Female	01.07.2023	The animal died due to cardiac failure. The stomach lesion of tumor caused the hepatitis, gastric ulceration and other metabolic changes.
16	Four Horned Antelope	<i>Tetracerus quadricornis</i>	Female	13.02.2023	Severe laminites due to bruising in hooves suspected of footrot (bacterial) to septicemia & death.
17	Four Horned Antelope	<i>Tetracerus quadricornis</i>	Male	15.02.2023	Results of sample examination revealed positive for bacterium in bacterium heerophorm responsible for footrot in ungulates.
18	Cockatiel	<i>Nymphicus hollandicus</i>	Male	07.03.2023	Antolytic changes of generalised congestion & cooked meat appearance suggestive to heat stress correlating to weather conditions
19	Civet cat	<i>Viverricula indica</i>	Male	18.03.2023	Large carcinoma of urinary bladder complicated with generalised degenerative changes in major organs owing to senility & self inflicted injuries, weakness & death.





26. Birth of Animals

Sr. No.	Animal Name (with individual identification mark, if any)	Scientific Name	Male	Female	Unknown	Date of Birth
1	Gaur	<i>Bos gaurus</i>		01	-	19/02/2023
2	Porcupine	<i>Hystrix indica</i>	-	-	01	08/04/2022
3	Jungle Cats	<i>Felis chaus</i>		01	-	01/04/2022
4	Four Horned Antelope	<i>Tetracerus quadricornis</i>		02	-	19/01/2023
5	Jackel	<i>Canis aureus</i>	01	02	-	06/01/2023

27. STATUS OF THE COMPLIANCE WITH CONDITIONS STIPULATED BY THE CENTRAL ZOO AUTHORITY

Letter No. F.No.19-28/92-CZA(78)(Vol.V)(PKR)/2892/2018 dated 09.04.2018.

Sr. No.	Norm No.	Condition stipulated	Time Period to Comply	Since when pending	Status with regard to compliance of the conditions
I. General requirements					
1	10.1(4)	The Zoo exists within the wildlife sanctuary and surrounded by deep forest, there is no need of having a pucca wall as perimeter barrier. However, 7-8 ft. high chain-link fencing should be erected as perimeter barrier all around Zoo area.	One year		Under compliance and the said work given to Public Work Department for execution under Capital Head.
2	10.1(2)	The giant squirrel enclosure should be enlarged	Immediately		Is in progress.
3	1.1(7)	The Zoo should provide a proper waste disposal system for treating both the solid and liquid wastes generated in the zoo. There should be waste disposal system having no adverse impact on the environment.	Immediately		Waste generated at zoo is segregated in solid and liquid separately. Liquid waste is disposed off in waste disposal





					pit while soild waste is stored and send to Goa Waste management corporation at Saligao.
2. Administrative and staffing Pattern					
4	10.2(2)	The zoo shall have an official with masters degree in Wildlife Sciences/Zoology as a full time Curator solely responsible for looking after the upkeep of animal and maintenance of animal enclosures. It is asmall Zoo. There should be one Curator and one Biologist. The Officer-in-charge of the zoo and the Curator are two separate posts.	One year		
3. Development and Planning					
5	10.3(1)	The zoo should prepare and get the Master Plan approved by the CZA.	Immediately		Already sent to CZA for approval.
6	10.3(3)	The pucca buildings including the visitor facilities needs to be properly camouflaged and located in such a manner that the natural landscape of the zoo have not been masked and the cleanliness and hygiene of the zoo is not been affected due to such animal enclosures/structures.	Immediately		Is in progress.
7	10.3(3)	The Spotted Deer enclosure should be made proper as per the CZA norms.			
8	1.3(6)	A collection plan of animals to be housed and displayed in the zoo should be prepared. The plan should be prepared keeping in view due regard to the availability of land, water, electricity and climatic condition of the area.	Immediately		Will be complied.
9	10.3(6)(d)	The zoo should submit information to the CZA about the rescued animal that	Immediately		Inventory report is submitted & Complied.
		pertains to an endangered species.			





4. Animal housing, display of animals and animal enclosures					
10	10.4(1 & 2)	The Zoo is situated within the Bondla Forests and has thick vegetation which acts as the nature immersing environment for the animals. The enclosures are large. The paddock areas are mostly desolate and rocky, generally devoid of ground vegetation, with sparse trees, Massive enrichment measures are required. The enclosures of Wild boars, Bison, Tiger, Leopard, Sloth Bear, Black Buck and Sambar needs to be improved.	One year		Under compliance and the said work given to Public Work Department for execution under Capital Head.
11	10.4(2)	The enclosures for snakes shall be designed to meet the biological requirements of the animals. The nocturnal species enclosures (porcupine and civets) shall be provided with darkened shade for animals privacy.	One year		Will be complied.
12	10.4(3)	The safety features both for visitors and animal keepers have to be upgraded as the night shelters are close to the visitor path and there is no proper animal keepers gallery in most of the enclosures. The Zoo requires a complete overhaul for the safety and security of the animals, animals keeper's and visitor's. There is ample space for the movement of animals except in few enclosures having surplus animals like Wild boar, Bison and leopard.	One year		Will be complied.
13	10.4(6)	Snakes, Civets & Crocodile enclosure requires species-specific enrichment including filling with sand for basking of crocodiles.	One year		Complied.
14	10.4(6)	a) The Zoo enclosures require drastic modification and	One year		Under compliance and





		improvement to enrich the paddock area and night shelters in order to comply with the standard of CZA. b) Wild boar, Tiger, Bison, Snakes and crocodiles enclosures need to be improved structural modification in night shelters.			the said work given to Public Work Department for execution under Capital Head.
15	10.4(8)	The zoo has constructed, without prior approval of the Central specifications prescribed by the CZA. It should be made as per the CZA norms. No enclosure for endangered species should be constructed without prior approval of the CZA.	One year		Will be complied in future.
16	10.4(9)	All the animal enclosure in the Zoo should be provided appropriate stand-off barriers and adequate warning signs for keeping the visitors at a safe distance from the animals.	One year		Complied.
17	10.4(9)	The zoo should plant hedge between the standoff barrier and the paddock wall.	One year		Complied.
18	10.4(10)	Every enclosure in the zoo should bear a sign board in bilingual language displaying scientific information about biology and behavior etc. of the animals exhibited in it.	One year		Is in progress.
5. Upkeep and healthcare of animal					
19	10.5(1)(g)	The zoo should has provision of secondary holding areas for safe movement of animals from primary enclosures for cleaning/ feeding/ medical procedures.	One year		Will be complied.
20	10.5(3)	The meat house should be made fly proof.	Immediately		-
21	10.5(3)	Zoo should install a freezer of adequate capacity for storage of meat products.	Immediately		Complied.
22	10.5(4)	The Store house for food should be made rodent proof and storage conditions of feed	Immediately		-





		items need improvement to make it damp proof.			
23	10.5(4)	All herbivores enclosure should have a provision of a small enclosure cum shelter where feed is to be provided to the animals.	One year		Will be complied.
24	10.5(4)	The Zoo should provide secondary holding areas for safe movement of carnivores from primary enclosure for cleaning/ feeding/medical procedures etc.	One year		Will be complied.
25	10.5(2)(3)	The zoo should have a sufficient size functioning freezer for storage of meat and to keep it cold until it is fed to the animals.	Immediately		Same at Sr. No.3.
6. Veterinary and Infrastructure Facilities					
26	10.6(3)	Zoo should have a post-mortem room for conducting post mortem as per the CZA Guidelines.	Immediately		Work has been proposed under CAMPA APO 2020-21.
27	10.6(5)	The Zoo should have one qualified lab assistant/ compounder to assist the Veterinarian in healthcare of the Zoo animals.	Immediately		Vet Assistant is already posted and proposal for Lab assistant will be submitted.
28	10.6(6)	Zoo should have a formal MoU on health care with the nearest veterinary institution and the MoU should contain names and contact details of person who will assist the Zoo in all aspects in health care management.	Immediately		Veterinary Officer of Animal Husbandry, Usgao- Goa and Dharbandora - Goa may be included for assisting the Zoo in all aspects in health care management. Also Doctor/Scientist assistance may be taken from ICAR, Old Goa.





9. Acquisition and breeding of animals.

29	10.9(9)	To safeguard against uncontrolled growth in the population of wild boar, chowsingha and sambar the zoo should implement appropriate population control measures.	Immediately		Doctor/Scientist assistance may be taken from ICAR, Old Goa or Veterinarian Officer from Animal Husbandry may be contacted for appropriate measures.
30	10.9(4)	The zoo should acquire mates for single animals (Tiger, Elephant, Hippopotamus, Keel back Checkered snake, Trinket snake, Peafowl and Lady Amherst Pheasants etc) on priority basis.	Immediately		-

10. Research Activities

31	10.10	The zoo should implement a research plan conduct research on the prioritized species and specific areas of concern.	One year		Will be complied.
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11. Education and Outreach Activities

32	10.11	The zoo should have appropriate signages and education and outreach activities for conservation education of the visitors of the zoo.	One year		-
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12. Visitor Facilities

33	10.12(1) and	The zoo should provide adequate civic facilities for visitors at appropriate and convenient places within the zoo including the physically disadvantaged persons.	Immediately		The works has been included in APO for the financial 2020-21.
34	10.12(3)	Appropriate arrangements should be made to provide access within the zoo to physically disadvantaged visitors including those in the wheel chair at all enclosures and civic facilities.	Immediately		The works has been included in APO for the financial 2020-21.





28. LIST OF FREE LIVING WILD ANIMALS WITHIN THE ZOO PREMISES

a. Mammals

Indian Gaur, Spotted Deer, Wild Pig, Palm Civet, Mongoose, Leopard, Common Langur, Bonnet Macaque, Sambar, Black Nape Hare, Giant squirrel, Three striped squirrel, Mouse Deer, Toddy Cat, Dhol etc.

b. Birds

Red Wattled Lapwing, Spotted Dove, Vernal Hanging Parrot, Asian Koel, Greater Coucal, Oriental Dwarf Kingfisher, White Throated Kingfisher, Bee Eater, Barbet, Malabar Grey Hornbill, Malabar Pied Hornbill, Wood pecker, Black Hooded Oriole, Lora, Racket Tail Drongo, Black Drongo, Shrike, Starling, Orange Headed Thrush, Minivet, Bulbul, Tickells Blue Flycatcher, Asian Paradise Flycatcher, Malabar Whistling Thrush, Sunbirds, White Rumped Shama, Oriental Magpie Robin etc.

c. Reptiles

Monitor Lizard, Indian Rock Python, Common Cobra, Indian Rat Snake, Russell's viper, Muggers, Common Cat Snake, Green Whip Snake, Bronze back Tree Snake, Flying Snake, Sand Boa, Bamboo Pit Viper etc.





29. Inmates of Bondla Zoo





30. Activities carried out at Bondla Zoo



CZA officials on Zoo Evaluation visit at Bondla Zoo.



Addressing higher secondary Students at Bondla Zoological Park on Ex Situ Conservatio.



Shri Parimal Rai IAS, Chief Secretary state of Goa alongwith Shri Santosh Kumar Chief Wildlife Warden, Goa on Visit to Bondla Zoological park.



Wildlife Week Celebration along with WCCB, Western region, in GVMS B.Ed College Ponda.





Wildlife week Celebration 2022 at Bondla Zoological park with College students.



Drawing Competition for students at Bondla Zoo



Wildlife Week Celebration for specially abled students at Bondla Zoo.





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