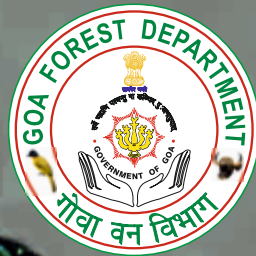


ANNUAL REPORT 2020 - 21



BONDLA
ZOO
GOA

CONTENTS

SR. NO.	SECTION	PAGE NUMBER
1.	Report of the Officer-in-charge	01
2.	History of the Zoo	02
3.	Vision	02
4.	Mission	02
5.	Objective	02
6.	About us	03-05
7.	Organization Chart	06
8.	Human Resources	07-08
9.	Capacity Building of the zoo personnel	09
10.	Zoo Advisory Committee	08
11.	Health Advisory Committee	08
12.	Statement of income and expenditure of the Zoo	09
13.	Daily feed Schedule of animals	10-12
14.	Vaccination Schedule of animals	13-15
15.	Health Check-up of employees for zoonotic diseases	16
16.	Development Works carried out in the zoo during the year	17
17.	Education and Awareness programmes during the year	17
18.	Important Events and happenings in the zoo	18
19.	Seasonal special arrangement for upkeep of animals	18
20.	Research Work carried out and publications	18
21.	Conservation Breeding Programme of the Zoo	18
22.	Animal acquisition/ transfer/ exchange during the year	18
23.	Rescue and Rehabilitation of the wild animals carried out by the zoo	19-22
24.	Annual Inventory of animals	23-25
25.	Mortality of animals	28
26.	Birth of animals	28
27.	List of free living wild animals within the zoo premises	29
28.	Specification Disinfection Protocol	29
29.	Inmates of Bondla Zoo / Veterinary Facilities	30
30.	Visitors Amenities	31

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 and few are exotic.

This Annual Report gives in brief various events and activities undertaken in the Zoo during the year gone by. Due to Pandemic zoo remained closed for some time which resulted in reduction in number of visitors to Zoo.

Bondla zoo has been attracting lot of public from state of Goa as well as other states like Maharashtra and karntaka. Zoo has also made efforts to create awareness among large numbers of students from schools and colleges from fringes areas of the zoo.

The zoo is in phase of upgradation and renovation lot of landscaping work has been taken up and renovation is also being done of old enclosures. It is also proposed to improve the veterinary facilities in zoo for inmates as well as rescued animals and steps in this regard has been also taken up. The new enclosures with modern concept is being also designed for Bondla zoo which will be executed after approval from competent authority. The zoo was also in preparatory stage of Masters plan for next twenty years, accordingly works are also prioritized in phase wise manner.

(Jabestin A., IFS)
Dy. Conservator of Forests,
Wildlife & Ecotourism (N)

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 behaviour, 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.

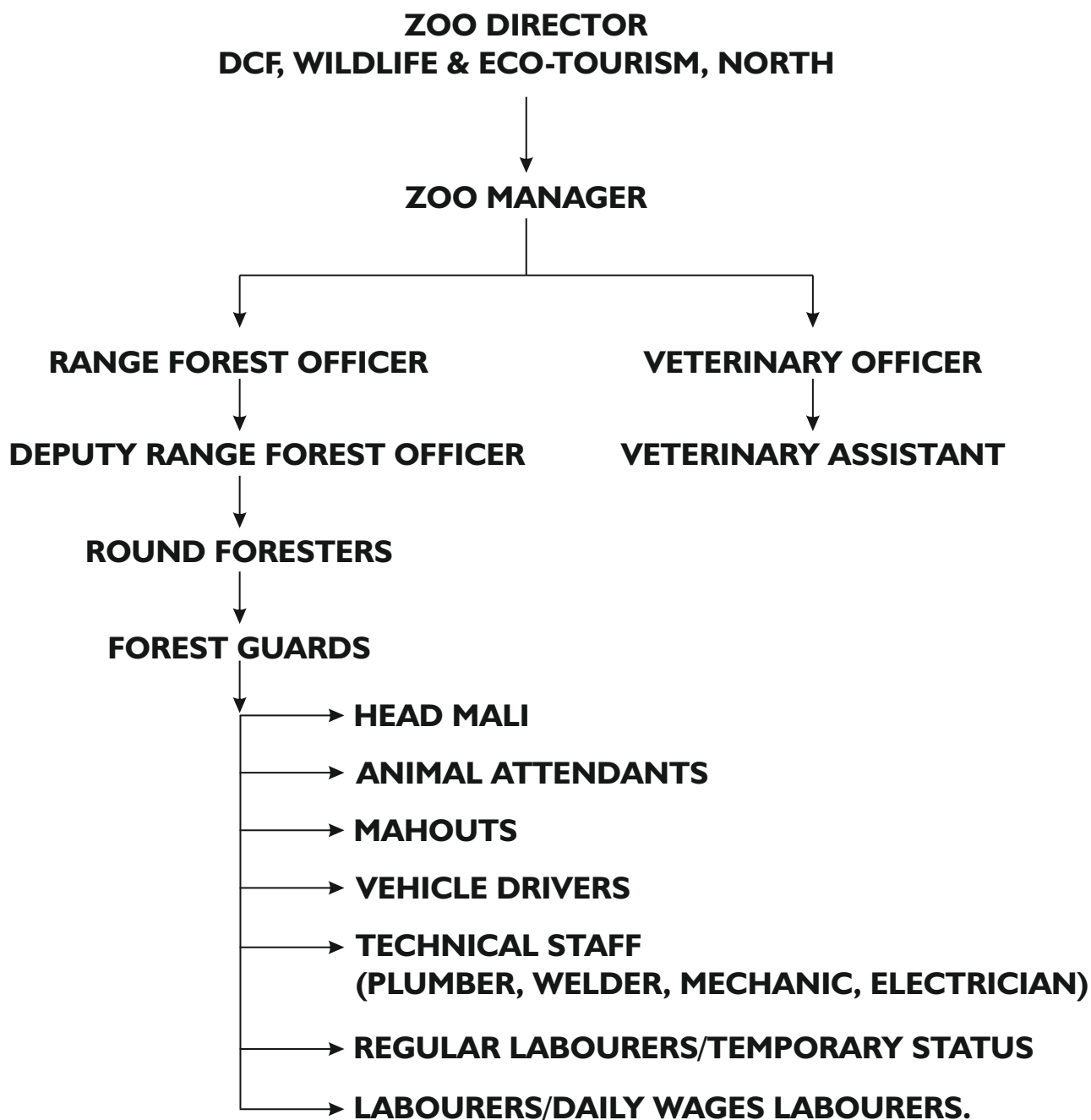
06 ABOUT US

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	
7	E-mail addressd	cfwlnorthforest.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)	
11	Category of Zoo	Small Zoo
12	Area (in Hectares)	30 Hectares
13	Number of visitors (Financial Year 20-21)	Indian Children: Adult:
		Foreigners Adults: Child:
		Free Entry: (School and College study trips)
		Total Visitors: 28,665 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

Sr. No.	Particulars	Information
		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.70/- 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. Jabestin A., IFS) Dy. Conservator of Forests.
Name of the Veterinary Officer		Dr. Loveleen M. Vaz (On Contract basis)
Name of the Curator / Zoo Manager		Shri. Paresh Porob
Name of Asst. Curator / Range Forest Officer		Shri. Sangam Gawas
Name of the Education Officer		
Name of the Compounder/Lab Assistant		

Sr. No.	Particulars	Information
Owner/ Operator of the Zoo		
17	Name of the Operator	Director/Dy. Conservator of Forests, Wildlife & Eco-Tourism (North) Division, Panaji-Goa
18	Address of the Operator	Dy. Conservator of Forests, Wildlife & Eco-Tourism (North) Division , Panaji-Goa
19	Contact details / Phone number of Operator	0832-2229701 (Office)
20	E-mail address of Operator	dcfwlnorthforest.goa@nic.in

07. ORGANIZATION CHART



08.HUMAN RESOURCES

MANPOWER OF THE ZOO

Sr. No.	Designation	Number of Sanctioned Posts	Names of Incumbent
1	Zoo Manager	01	Paresh Porob
2	Range Forest Officer	01	Sangam Gawas
3	Veterinary Officer (On Deputation)	01	Dr. Loveleen Maria Vaz
4	Veterinary Assistant	01	Pravesh P. Naik
5	Round Forester	01	
6	Forest Guard	02	Ramnath S. Mhalshekar
7	Animal Attendant	01	Ram Gaonkar
8	Mahout	04	Duming Fernandes
			Mahabaleshwar Naik
			Noor Makandar
			Mohammed Afroz
9	Head Mali	01	
10	Regular Labourer	06	Vishwanath S. Sangodkar
			Dynaneshwar G. Usgaonkar
			Rajendra C. Naik
			Damodar R. Gaonkar
			Manohar A. Gaude
			Sugandha S. Gaonkar
11	Temporary Status Labourer	13	Manohar B. Naik
			Ramesh Gawde
			Devidas A. Gawas
			Sarvesh S. Naik
			Vinod D. Bavkar
			Raghunath Gawas
			Vishram Nansekar
			Siman Fernandes
			Santosh Gaonkar
			Ramakant Borkar
			Uddesh Gaonkar
			Suhas Gaonkar
			Vilas S. Gaude

Sr. No.	Designation	Number of Sanctioned Posts	Names of Incumbent
12	Daily Wage Labourer	19	Ranganath Gawde
			Siddhesh Surlikar
			Anand Melekar
			Ajit Palkar
			Upaso Gaonkar
			Mahesh Gawde
			Satin Gosavi
			Kavita Nansekar
			Tanvi Gawde
			Kamalakant Gawde
			Kalidas Gawde
			Krishna P. Gaonkar
			Babani Morlekar
			Shashikala Gaonkar
			Lalita Sakhalkar
			Milan Naik
			Sarvesh Prabhu
			Mukund Borkar
			Devidas V. Gawas

09. CAPACITY BUILDING OF ZOO PERSONNEL

Sr. No.	Name and designation of the zoo personnel	Subject matter of Training	Name of the Institution where the Training attended	Period of Training
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 (2020-2021)**REVENUE**

Sr. No.	Category	Amount
I	Entry Fee	18,61,705.00
	Total	18,61,705.00

EXPENDITURE

Sr. No.	Items	Amount
1	Milk	11,692.00
2	Fish	15,600.00
3	Fruits	2,13,208.00
4	Eggs	19,716.00
5	Broiler chicken	3,33,066.00
6	Vegetables	9,63,520.00
7	Beef	8,02,845.00
8	Cattle feed (High protein mesh)	9,91,026.00
9	Goa Bagayatdar feed (Rice, Jaggery, Green peas etc.)	2,15,371.00
10	Other feed (Curd, Lemon, Maize fodder, sunflower seeds, Honey, Emu feed etc.)	1,85,988.00
11	Zoo medicines	69,119.00
12	Miscellaneous expenditure	1,63,026.00
13	Wages	49,73,692.00
	Total	89,57,869.00

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	Chicken	3.4 kgs	
	Anjali	Milk	500 ml	
	Additional once a week	Chicken	3.0 kgs	
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 (01 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	
		Groundnut	200 gms	
5	Porcupine (04 individuals)	Green peas	0.5 kg	Monday
		Chickpea	0.5 kg	
		Vegetables (Mix)	04 kgs	
		Banana	06 nos.	
		Mixed fruit (Banana, Water melon, Apple, Grapes, Orange, Mango and seasonal fruits etc.)	02 kgs	
6	Gaur (09 individuals)	Green peas	0.5 kg	Monday
		Chickpea	0.5 kg	
		High protein mesh	40 kgs	
		Fodder grass	210 kgs	

Sr. No.	Species	Feed item	Quantity	Day of fasting
		(Mixed fodder depending on availability like Maize, Sugarcane, Kadba kutti etc.)		
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 mesh	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	

Sr. No.	Species	Feed item	Quantity	Day of fasting
		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	Thrice a month	Monday
		Country eggs	01 no. rat for each snake. 16 nos. (Thrice a month) for Russell's Viper and Cobra.	
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		<u>Feligen – CRP</u> (Feline Calicivirus, Rhinothacheitis virus, Panleukopenia virus)
				<u>Anti-Rabies</u> (Nobivac Rabies)
ANJALI	LEOPARD	FEMALE		<u>Feligen – CRP</u> (Feline Calicivirus, Rhinothacheitis virus, Panleukopenia virus)
				<u>Anti-Rabies</u> (Nobivac Rabies)
JULIE	LEOPARD	FEMALE		<u>Feligen – CRP</u> (Feline Calicivirus, Rhinothacheitis virus, Panleukopenia virus)
				<u>Anti-Rabies</u> (Nobivac Rabies)
RICHIE	LEOPARD	MALE		<u>Feligen – CRP</u> (Feline Calicivirus, Rhinothacheitis virus, Panleukopenia virus)
				<u>Anti-Rabies</u> (Nobivac Rabies)
CHERRY	LEOPARD	FEMALE		<u>Feligen – CRP</u> (Feline Calicivirus, Rhinothacheitis virus, Panleukopenia virus)
				<u>Anti-Rabies</u> (Nobivac Rabies)
	JACKAL	MALE		<u>Canine Vanguard 514</u> (Canine Distemper-Adenovirus Type 2- Parainfluenza- Parvovirus, Leptospira Canicola- Grippytyphosa- Ictohemorrhagiae- Pomona Bacterin)
				<u>Anti-Rabies</u> (Nobivac Rabies)

NAME OF ANIMAL	SPECIES	SEX	DATE	VACCINE
	JACKAL	MALE		Canine Vanguard 514 (Canine Distemper-Adenovirus Type 2- Parainfluenza- Parvovirus, Leptospira Canicola- Grippotyphosa- Ictohemorrhagiae- Pomona Bacterin)
				Anti-Rabies (Nobivac Rabies)

01. DEWORMING SCHEDULE OF ANIMALS

SR NO.	SPECIES	DATE OF ADMINISTRATION	DRUG USED	TOTAL DRUG ADMINISTERED
1.	GAURS	12/06/2019	Fenbendazole	12 gms * 07 adults
		30/01/2020	Fenbendazole	13.5 gms * 04 adults
				12 gms * 03 adults
				01 gm * 01 juvenile
2.	SAMBARS	13/06/2019	Fenbendazole	1.5 gms * 18 adults
		30/01/2020	Fenbendazole	1.0 gms * 04 sub- adults
				1.5 gms * 18 adults
				1.0 gms * 06 sub- adults
3.	SPOTTED DEERS	13/06/2019	Pyrantel Embonate	504 mg * 09 adults
			Febantel	525 mg * 09 adults
			Praziquantel	50 mg * 13 adults
		30/01/2020	Fenbendazole	1.5 gms * 09 adults
4.	BLACK BUCKS	13/06/2019	Pyrantel Palmoate	144 mg * 12 adults
		30/01/2020	Fenbendazole	500 mg * 12 adults
			Pyrantel Palmoate	144 mg * 12 adults
			Fenbendazole	500 mg * 12 adults
5.	CIVET CATS	12/06/2019	Praziquantel	25 mg * 04 adults
			Pyrantel Palmoate	72 mg * 04 adults
			Fenbendazole	250 mg * 04 adults
		06/02/2020	Praziquantel	25 mg * 04 adults
			Pyrantel Palmoate	72 mg * 04 adults
			Fenbendazole	250 mg * 04 adults

SR NO.	SPECIES	DATE OF ADMINISTRATION	DRUG USED	TOTAL DRUG ADMINISTERED
6.	JUNGLE CATS	12/06/2019	Praziquantel	25 mg * 02 adults
			Pyrantel Palmoate	72 mg * 02 adults
			Fenbendazole	250 mg * 02 adults
		06/02/2020	Praziquantel	25 mg * 02 adults
			Pyrantel Palmoate	72 mg * 02 adults
			Fenbendazole	250 mg * 02 adults
7.	PORCUPINE	15/06/2019	Praziquantel	25 mg * 03 adults
			Pyrantel Palmoate	72 mg * 03 adults
			Fenbendazole	250 mg * 03 adults
		31/01/2020	Praziquantel	25 mg * 03 adults
			Pyrantel Palmoate	72 mg * 03 adults
			Fenbendazole	250 mg * 03 adults
8.	FOUR HORNED ANTELOPE	14/06/2019	Praziquantel	50 mg * 03 adults
			Pyrantel Palmoate	144 mg * 03 adults
			Fenbendazole	500 mg * 03 adults
		31/01/2020	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	18/06/2019	Praziquantel	87.5 mg * 02 adults
			Pyrantel Embonate	252 mg * 02 adults
			Febantel	262.5 mg * 02 adults
		28/02/2020	Praziquantel	87.5 mg * 06 adults
			Pyrantel Embonate	252 mg * 06 adults
			Febantel	262.5 mg * 06 adults
10.	LEOPARDS	11/06/2019	Praziquantel	175 mg * 05 adults
			Pyrantel Embonate	504 mg * 05 adults
			Febantel	525 mg * 05 adults
		04/02/2020	Praziquantel	175 mg * 05 adults
			Pyrantel Embonate	504 mg * 05 adults
			Febantel	525 mg * 05 adults

SR NO.	SPECIES	DATE OF ADMINISTRATION	DRUG USED	TOTAL DRUG ADMINISTERED
11.	JACKALS	18/06/2018	Praziquantel	50 mg * 02 adults
			Pyrantel Palmoate	144 mg * 02 adults
			Fenbendazole	500 mg * 02 adults
		07/02/2020	Praziquantel	50 mg * 01 adult
			Pyrantel Palmoate	144 mg * 01 adult
			Fenbendazole	500 mg * 01 adult
12.	MUGGER CROCODILES	18/06/2019	Fenbendazole	03 gms * 03 adults
		06/02/2020	Fenbendazole	03 gms * 03 adults
13.	CAIMAN CROCODILES	18/06/2019	Fenbendazole	1.5 gms * 02 adults
		06/02/2020	Fenbendazole	1.5 gms * 02 adults
14.	PHEASANTS	18/06/2019	Fenbendazole	0.2 ml * 07 adults All birds sprayed with 0.25 % Fipronil
		28/02/2020	Fenbendazole	0.2 ml * 07 adults All birds sprayed with 0.25 % Fipronil
15.	PEAFOWLS	18/06/2019	Fenbendazole	05 ml * 03 adults All birds sprayed with 0.25 % Fipronil
		28/02/2020	Fenbendazole	05 ml * 03 adults All birds sprayed with 0.25 % Fipronil
16.	COCKATIELS	18/06/2019	Fenbendazole	05 ml * 08 adults in drinking water
		28/02/2020	Fenbendazole	10 ml * 10 adults in drinking water
17.	SLOTH BEARS	18/06/2019	Praziquantel	350 mg * 02 adults
			Pyrantel Embonate	1008 mg * 02 adults
			Febantel	1050 mg * 02 adults
		06/02/2020	Praziquantel	350 mg * 01 adult
			Pyrantel Embonate	1008 mg * 01 adult
			Febantel	1050 mg * 01 adult

02. HEALTH CHECK-UP OF EMPLOYEES FOR ZONOTIC DISEASES



Sr. No.	Name	Designation	Date of Health Check up	Findings of Health Check up
1	Vishnu B. Gawas	Round Forester		Fit
2	Ramnath S. Mhalshekar	Forest Guard		Fit
3	Ram V. Gaonkar	Animal Attendant		Fit
4	Dumingo J. Fernandes	Mahout		Fit
5	Mahabaleshwar V. Naik	Mahout		Fit
6	Mohammed Afroz	Mahout		Fit
7	Noor A. Makandar	Mahout		Fit
8	Dynaneshwar G. Usgaonkar	Regular Labourer		Fit
9	Vishwanath S. Sangodkar	Regular Labourer		Fit
10	Rajendra C. Naik	Regular Labourer		Fit
11	Manohar A. Gaude	Regular Labourer		Fit
12	Damodar R. Gaonkar	Regular Labourer		Fit
13	Sugandha S. Gaonkar	Regular Labourer		Fit
14	Chandrakant Aikar	Regular Labourer		Fit
15	Vishram V. Nansekar	T.S.L.		Fit
16	Siman A. Fernandes	T.S.L.		Fit
17	Santosh L. Gaonkar	T.S.L.		Fit
18	Raghunath M. Gawas	T.S.L.		Fit
19	Ramakant V. Borkar	T.S.L.		Fit
20	Ramesh Y. Gawde	T.S.L.		Fit
21	Kavita V. Nansekar	D.W.L.		Fit
22	Tanvi Gawde	D.W.L.		Fit
23	Ajit H. Palkar	D.W.L.		Fit
24	Siddhesh Surlikar	D.W.L.		Fit



Sr. No.	Name	Designation	Date of Health Check up	Findings of Health Check up
25	Upaso C. Gaonkar	D.W.L.		Fit
26	Anand Melekar	D.W.L.		Fit
27	Vishwanath Gawas	D.W.L.		Fit
28	Ranganath G. Gaude	D.W.L.		Fit
29	Satin S. Gosavi	D.W.L.		Fit
30	Kamalakant S. Gaude	D.W.L.		Fit
31	Mahesh S. Gawde	D.W.L.		Fit

03.DEVELOPMENT WORKS CARRIED OUT IN THE ZOO DURING THE YEAR

Sr. No.	Name of Works
1	Repairs of chambers and drainage system of Eco-tourism cottages at Bondla.
2	Construction of laterite platform for check post for FRP cabin at Bondla Zoo.
3	Work of Range Forest Officer Cabin at Bondla
4	Work of repair of Gaur enclosure and shed at Bondla zoo.
5	Repairs of Compound wall of Sabar and Black Buck enclosure at Bondla zoo.
6	Construction of retaining wall for Guar enclosure at Bondla.
7	Repair of roofing of A1 & A2 Cottages at Bondla.
8	Repair of roofing of C1 & C2 Cottages at Bondla.

04.EDUCATION AND AWARENESS PROGRAMMES DURING THE YEAR 2019-2020

Sr. No.	Events	Numbers of participants
1		
2		
3		
4		
5		

05. 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.

06. 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.

07. RESEARCH WORK CARRIED OUT AND PUBLICATIONS

- Avian Diversity Assessment in Bondla Wildlife Sanctuary and Zoological Park: A Decadal Prespective.

08. 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 CZAI.

09. ANIMAL ACQUISITION/ TRANSFER/ EXCHANGE DURING THE YEAR 2020-2021

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				

10. 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	29.04.2019	Spectacled Cobra (01 Unknown)	Dhada, Sattari, Goa	03.05.2019	30.04.2019 Bondla WLS.	-
2	30.04.2019	Gaur (01 Female)	Pali, Thane, Sattari, Goa	03.05.2019	30.04.2019 Pali, Thane, Sattari, Goa	Released at same location.
3	15.05.2019	Spectacled Cobra (01 Unknown)	Nanus Usgao-Goa.	03.06.2019	18.05.2019 Bondla WLS.	-
4	22.05.2019	Indian Rat Snake (01 Unknown)	Nanus Usgao-Goa.	03.06.2019	23.05.2019 Bondla WLS.	-
5	26.05.2019	Spectacled Cobra (01 Unknown)	Ganjam Usgao-Goa	03.06.2019	28.05.2019 Bondla WLS.	-
6	14.06.2019	Indian Rat Snake (01 Unknown)	Usgao-Goa	02.07.2019	15.06.2019 Bondla WLS.	-

7	22.06.2019	Spectacled Cobra (03 Unknown)	Shel-Melauli Sattari, Murmune Sattari and Velguem Sattari Goa	02.07.2019	25.06.2019 Shivdem Dharbandora Goa.	-
8	13.07.2019	Spectacled Cobra (01 Unknown)	Usgao-Goa	05.08.2019	14.07.2019 Bondla WLS.	-
9	27.07.2019	Spectacled Cobra (01 Unknown)	Conquerim, Sattari	05.08.2019	28.07.2019 Bondla WLS	-
10	28.07.2019	Common Cat Snake (01 Unknown)	Shel-Melauli Sattari	05.08.2019	29.07.2019 Bondla WLS	-
11	07.08.2019	Common Sand Boa (01 Unknown)	Conquerim, Sattari	04.09.2019	10.08.2019 Bondla WLS	-
12	11.08.2019	Common Indian Trinket Snake (01 Unknown)	Guleli Sattari	04.09.2019	12.08.2019 Bondla WLS	-
13	13.07.2019	Spectacled Cobra (01 Unknown)	Usgao Goa	04.09.2019	15.08.2019 Bondla WLS	-
14	23.08.2019	Spectacled Cobra (01 Unknown)	Maingine Sattari	04.09.2019	30.08.2019 Shivdem Dharbandora	-
15	28.08.2019	Spectacled Cobra (01 Unknown)	Paikul Sattari	04.09.2019	30.08.2019 Shivdem Dharbandora	-

16	10.09.2019	Spectacled Cobra (01 Unknown)	Maingine Sattari	04.10.2019	12.09.2019 Shivdem Dharbandora	-
17	10.09.2019	Spectacled Cobra (01 Unknown)	Nanus Usgao	04.10.2019	12.09.2019 Shivdem Dharbandora	-
18	22.09.2019	Indian Rock Python (01 Unknown)	Shel Melauli, Sattari	04.10.2019	23.09.2019 Bondla WLS	-
19	22.09.2019	Indian Rock Python (01 Unknown)	Ganjam Usgao	04.10.2019	23.09.2019 Bondla WLS	-
20	24.09.2019	Common Cat Snake (01 Unknown)	Ganjam Usgao	04.10.2019	24.09.2019 Bondla WLS	-
21	11.10.2019	Spectacled Cobra (02 Unknown)	Paikul Sattari and Ganjam Usgao	06.11.2019	14.10.2019 Shivdem Dharbandora	-
22	12.10.2019	Spectacled Cobra (01 Unknown)	Khotode m Sattari	06.11.2019	16.10.2019 Shivdem Dharbandora	-
23	15.10.2019	Indian Rat Snake (01 Unknown)	Ganjam Usgao	06.11.2019	16.10.2019 Bondla WLS	-
24	01.10.2019	King Cobra (01 Unknown)	Paikul Sattari	06.11.2019	16.10.2019 Bondla WLS	-
25	09.11.2019	Spectacled Cobra (02 Unknown)	Shel Melauli, Sattari	05.12.2019	30.11.2019 Shivdem Dharbandora	-

25	09.11.2019	Spectacled Cobra (02 Unknown)	Shel Melauli, Sattari	05.12.2019	30.11.2019 Shivdem Dharbando ra	-
26	27.11.2019	Indian Rat Snake (01 Unknown)	Guleli Sattari	05.12.2019	27.11.2019 Bondla WLS	-
27	27.12.2019	Common Cat Snake (01 Unknown))	Shel Melauli, Sattari	01.01.2020	28.12.2019 Bondla WLS	-
28	30.12.2019	Russell's Viper (01 Unknown)	Tisk Usgao	01.01.2020	01.01.2020 Bondla WLS	-
29	04.01.2020	Spectacled Cobra (01 Unknown)	Murmune , Guleli Sattari Goa	03.02.2020	06.01.2020 Shivdem Dharbando ra	-
30	18.01.2020	Indian Rock Python (01 Unknown)	Usgao Goa	03.02.2020	19.01.2020 Bondla WLS	-
31	31.01.2020	Checkered Keelback Water Snake (01 Unknown)	Khotode m Sattari Goa	03.02.2020	31.01.2020 Bondla WLS	-
32	28.02.2020	Indian Rat Snake (01 Unknown)	Vante, Sattari Goa.	02.03.2020	29.02.2020 Bondla WLS	-
33	02.03.2020	Spectacled Cobra (01 Unknown)	Shel Melauli, Sattari	11.04.2020	09.03.2020 Shivdem Dharbando ra	-
	12.03.2020	Common Sand Boa (01 Unknown)	Dhada Sattari Goa	11.04.2020	13.03.2020 Bondla WLS	-

	--	Barn Owl (01 Unknown)	Ponda Goa	11.04.2020	--	Kept in rescue centre, Bondla for treatment
	--	Brahminy Kite (01 Unknown)	Ponda Goa	11.04.2020	--	Kept in rescue centre, Bondla for treatment

II. ANNUAL INVENTORY OF ANIMALS

FORM – II

PART – A

Performa for Annual Inventory Report
Inventory Report for the Year: 2020-2021
Endangered Species*

SR NO	ANIMAL NAME	SCIENTIFIC NAME	OPENING STOCK AS ON 01/04/2020				BIRTHS				ACQUISITIONS				DISPOSALS				DEATHS				CLOSING STOCK AS ON 31/03/2021			
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.	Sloth Bear	<i>Melursus ursinus</i>	0	1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	1	0	1
2.	Four horned	<i>Tetracerus</i>	2	2	0	4	5	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	7	3	0	10

[illegible]

2.	Cobra	<i>Naga raja</i>	2	1	0	3	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	0	3
3.	King Cobra	<i>Ophiop hagus hannah</i>	1	0	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0	1	2
4.	Crocodil e Mugger	<i>Crocody lus palustri s</i>	2	2	0	4	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	0	4
5.	Flap shell Turtle	<i>Lissemys punctal a</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 snakes	<i>Ptyas mucosu s</i>	0	0	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	3	3
8.	Russell viper	<i>Vipera russelli</i>	1	0	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0	3	4
TOT AL REP TILE S/ AMP HIBI ANS			6	6	1 0	2 2														6	6	1 0	2 2

*Animals under Sch- I and Sch- II of Wild Life (Protection) Act, 197

Round Forester
Bondla (Zoo section)

Veterinary Officer
Bondla Zoo

Range Forest Officer
Bondla Wildlife Sanctuary

FORM – II

PART – B

Performa for Annual Inventory Report
Inventory Report for the Year: 2020-2021
Other than Endangered Species*

SR NO			ANIMAL NAME		SCIENTIF IC NAME		OPENIN G STOCK		BIRT HS		ACQUISITI ONS		DISPOS ALS		DEAT HS		CLOSIN G STOCK		
							AS ON 01/04/2 020										AS ON 31/03/ 2021		
BIRDS			M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	
1.	Silver Pheasant	Lophura nycthemera	1	2	0	3	-	-	-	-	-	-	-	-	-	-	-	1 2 0 3	
2.	Ring Necked Pheasant	Phasianus colchicus	1	2	0	3	-	-	-	-	-	-	-	1	-	-	-	0 2 0 2	
3.	Lady Amherst Pheasant	Chrysolophus amherstiae	1	0	0	1	-	-	-	-	-	-	-	-	-	-	-	1 0 0 1	
4.	Cockatiels	Nymphicus hollandicus	3	3	4	10	-	-	-	-	-	-	-	-	-	-	-	3 3 4 10	
5.	Emu	Dromaius novaehollandiae	1	1	4	6	-	-	-	-	-	-	-	1	-	-	-	0 1 4 5	
TOTAL BIRDS			7	8	8	23												5 8 8 21	
MAMMALS			M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	
1	Deer Sambar	Cervus unicolor	9	15	0	24	2	1	-	-	-	-	-	-	-	-	-	11 16 0 27	
2	Spotted Deer	Axis axis	2	8	0	10	1	2	-	-	-	-	-	-	-	-	-	3 10 0 13	

3	Indian Porcupine	<i>Hytrix indica</i>	1	2	0	3	-	-	1	-	-	-	1	-	-	-	-	-	-	-	1	2	2	5		
4	Wild Boar	<i>Sus scrofa</i>	15	9	0	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	8	0	2		
5.	Hippopota mus	<i>Hippopo tamus amphibious</i>	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0		
TOTAL MAMMALS			27	34	0	61															30	36	2	68		
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	<i>Dendrela phis tristis</i>	0	0	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	3	3		
2.	Forsterns cat snake	<i>Boiga forestrn</i>	0	0	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	2	2		
3	Sand Boa	<i>Eryx conicus</i>	4	1	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	0	5		
4	Trinket snake	<i>Elaphe helena</i>	0	1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	1	0	1		
5.	Indian Black	<i>Melanoc helys</i>	3	4	0	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	4	0	7		
	Turtle	<i>trijuga trijuga)</i>																								
6.	Spectacled Caiman	<i>Caiman crocodyl us</i>	1	1	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	0	2		
TOTAL REPTILES / AMPHIBIANS			8	7	5	20															8	7	5	20		

Round Forester

Veterinary Officer

Range Forest Officer

Bondla (Zoo section)

Bondla Zoo

Bondla Wildlife Sanctuary

12. MORTALITY OF ANIMALS



Animal Name (with individual identification mark, if any)	Scientific Name	Sex	Date of Death	Reason of Death as per the Post mortem report
RING NECKED PHEASANT	<i>Phasianus colchicus</i>	MALE	15/08/2020	Asphyxia & massive muscle necrosis due to hemotoxicity caused by predator attack.
WILD BOAR	<i>Sus scrofa</i>	FEMALE	07/11/2020	Death due to Respiratory Failure. (As given by AHVS Dept.)
EMU	<i>Dromadius novaehollandiae</i>	MALE	22/11/2020	Generalized progressive organ senility.

13. Birth of Animals

Sr. No.	Animal Name (with individual identification mark, if any)	Scientific Name	Male	Female	Unknown	Date of Birth
1	Emu	<i>Dromaius novaehollandiae</i>	-	-	04	01.04.2019
2	Cockatiels	<i>Nymphicus hollandicus</i>	-	-	02	25.05.2019
3	Gaur	<i>Bos gaurus</i>	-	01	-	24.08.2019
4	Gaur	<i>Bos gaurus</i>	-	01	-	13.12.2019
5	Deer Sambar	<i>Cervus unicolor</i>	01	-	-	07.01.2020
6	Deer Sambar	<i>Cervus unicolor</i>	-	01	-	09.01.2020
7	Four Horned Antelope	<i>Tetracerus quadricornis</i>	01	-	-	10.01.2020

14. 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.

15. SPECIAL DISINFECTION PROTOCOLS FOLLOWED FOR DISEASE OUTBREAK (Corona Virus; Covid & Avian Influenza/Bird Flu) AT BONDLA ZOO & WILDLIFE SANCTUARY. (With effect from 15th March 2020 onwards)

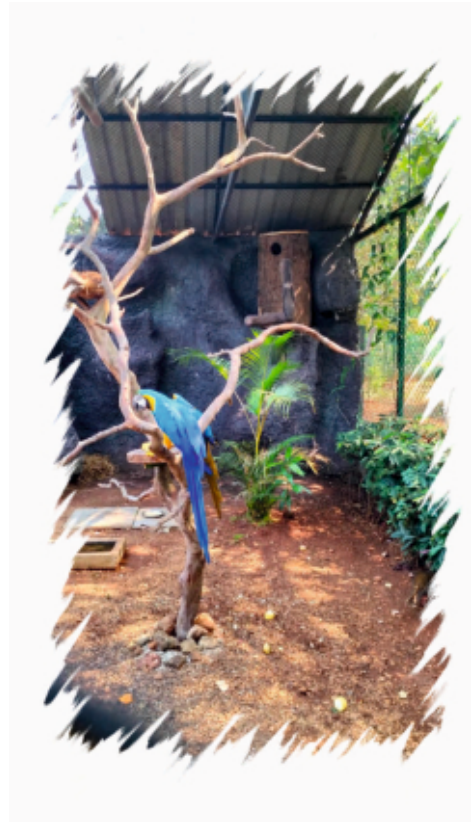
Bio security Measures followed:-

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	Sanitiser 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%

16. INMATES OF BONDLA ZOO



17. VETERINARY FACILITIES



18. VISITORS AMENITIES





Published By

**ZOO DIRECTOR AND DEPUTY CONSERVATOR OF FORESTS
WILDLIFE AND ECO-TOURISM (NORTH) DIVISION
FOREST DEPARTMENT
1ST LIFT, 4TH FLOOR, JUNTA HOUSE
PANAJI - 403001 (GOA)**

**Office No.: (0832) 2229701. Fax No.: (0832) 2224747
E-mail : dcfwnorth_forest.goa@nic.in**

**BONDLA
ZOO
GOA**