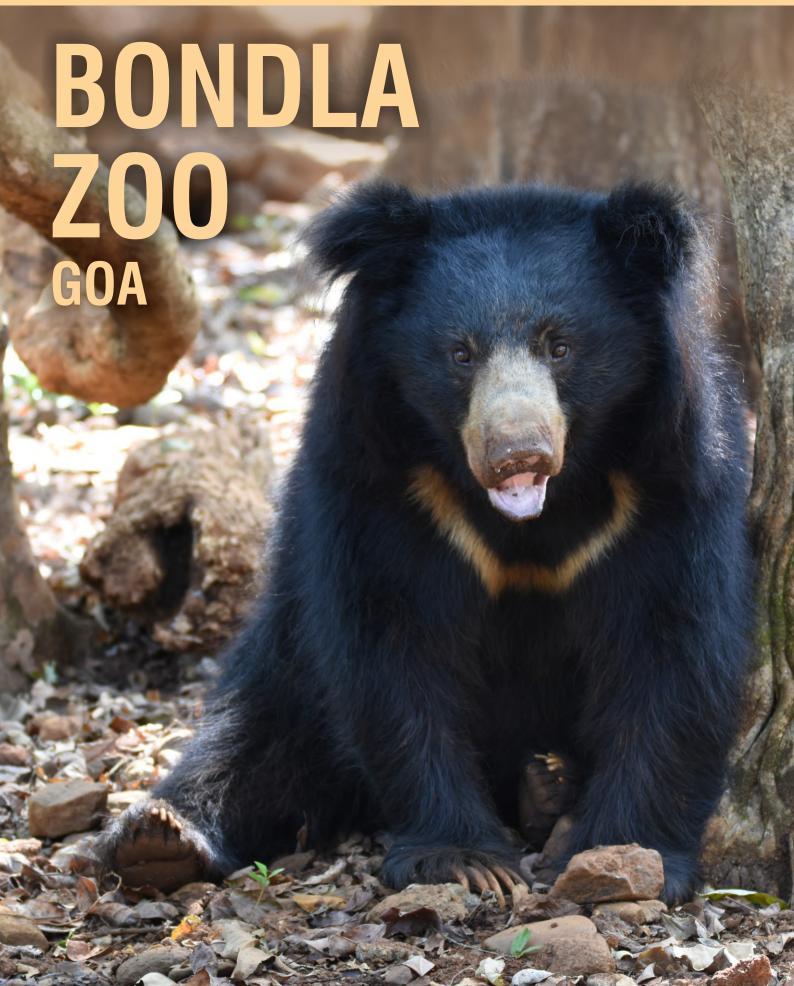
ANNUAL REPORT 2019-20





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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 which houses wild animals mostly found in Western Ghats region a part of Goa State.

This Annual Report gives in brief various events and activities undertaken in the Zoo during the year gone by. There has been a steady increase in visitors patronage to the Zoo in the past years and it is an encouraging sign and hope will enthuse more no. of visitors towards preservation and protection of wildlife.

Bondla establishments have made more efforts to bring in a large numbers of students from schools and colleges from fringes for nature awareness and wildlife appreciation camps in the Zoo.

A structured pattern of vaccination and medication of the inmates has been put in places. Ambitious plans are on the anvil to repair and construct enclosures in the coming year, so that the importance of Bondla Zoo as a centre of Wildlife Education & Recreation as well as a prime tourist attraction in the state of Goa gives up few notches higher.

Shri. Vikas V. Dessai Dy. Conservator of Forests

02. HISTORY OF THE ZOO

Bondla's origin can be traced way back in the year 1969, when the Wild Animal Rescue Centre of the Forest Department was established with the primary objective of Rescue Operation & Rehabilitation of Wildlife all over Goa.

Subsequently, the need for a scientific management of the rescued wildlife in an ethical manner was urgently felt and thus the zoo took shape.

Bondla Zoo Goa's only zoo accorded the status of "Small Zoo" by the Central Zoo Authority of India (CZAI) in the year 2006.

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 naturalistic and spacious housing of captive animals and birds, ethical and standards health care excellence in animal husbandry with emphasis on enclosure enrichments.

06. ABOUT US

SR. NO.	PARTICULARS	INFORMATION			
	Basic Information of 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	dcfwlnorth_forest.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)	Indian Adult: 55,040 nos. Children: 13,070 nos.			
		Foreigners Adults: 854 nos. Child: 17 nos. Free Entry: 10,350 nos. (School and College study trips)			
		Total Visitors: 79,331 nos.			

06. ABOUT US

SR. NO. PARTICULARS INFORMATION

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 Ecocottages 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.10/-Zoo: Adults - Rs.50/-Motor Cycle/Scooter - Rs.25/-Three Wheelers - Rs.40/-. Car/4 Wheelers - Rs.75/-Stilt Camera - Rs.30/-Bus/ Truck- Rs.150/-Video camera 8mm Handy Cam -Rs.150/-Video Camera for filming Documentary/Advertisement etc. 16 mm & above - Rs.7500/- per day per camera.

Monday.

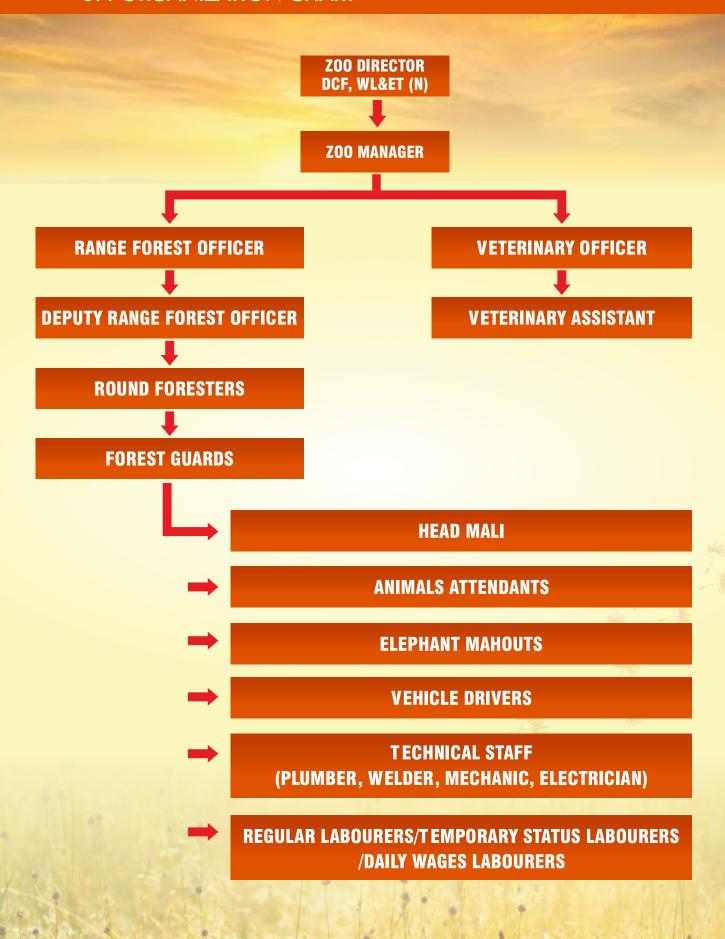
06. ABOUT US

SR. NO.	PARTICULARS	INFORMATION
	Management Personnel of the Z	Zoo
16.	Name with designation of the Officer in-charge	Shri. Vikas V. Dessai, Dy. Conservator of Forests.
	Name of the Veterinary Officer	Dr. Loveleen M. Vaz (On Contract basis)
	Name of the Curator	
	Name of Biologist	
	Name of the Education Officer	
	Name of the Compounder/Lab Assistant	

Management Personnel of the Zoo

17.	Name of the Operator	Goa Forest Department, 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	dcfwlnorth_forest.goa@nic.in

07. ORGANIZATION CHART



08. HUMAN RESOURCES

MANPOWER OF THE ZOO

C	Designation Number of Names of the incumbent			
Sr. No.	Designation	Sanctioned	Names of the incumbent	
NO.		Posts		
1	Zoo Monagor	01	Nandkumar E. Parab	
2	Zoo Manager	01		
3	Range Forest Officer		Dr. Sidhesh S. Naik	
	Veterinary Officer (On Contract)	01	Dr. Loveleen Maria Vaz	
4	Veterinary Assistant	01	Pravesh P. Naik	
5	Round Forester	01	Vishnu B. Gawas	
6	Forest Guard	02	Ramnath S. Mhalshekar	
			Vishnu Chauhan	
7	Animal Attendant	01	Ram Gaonkar	
8	Mahout	04	Duming Fernandes	
			Mahabaleshwar Naik	
			Noor Makandar	
			Mohammed Afroz	
9	Head Mali	01	Nanda L. Naik	
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	
	6		Vishram Nansekar	
			Siman Fernandes	
			Santosh Gaonkar	
		4	Ramakant Borkar	
		2 0 5	Uddesh Gaonkar	
		N Jakos	Suhas Gaonkar	
		The state of	Vilas S. Gaude	

08. HUMAN RESOURCES

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.	Name and	Subject matter of	Period of	Name of the
No.	designation of	Training	Training	Institution
	the zoo			where the
	personnel			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
1	Entry Fee	39,83,705.00
	Total	₹ 39,83,705.00

EXPENDITURE

Sr.	Items	Amount
No.		
1	Milk	43,905.00
2	Fish	15,650.00
3	Fruits	1,75,431.00
4	Eggs	2,57,792.00
5	Broiler Chicken	2,70,498.00
6	Vegetables	4,47,085.00
7	Beef	6,86,930.00
8	Cattle Feed (High protein mesh)	7,60,139.00
9	Goa Bagayatdar Feed (Rice, Jaggery, Green peas etc.)	2,39,415.00
10	Other feed (Curd, Lemon, Maize fodder,	96,209.00
	Sunflower seeds, Honey, Emu feed etc.)	
11	Zoo Medicines	1,35,324.00
12	Miscellaneous Expenditure	13,92,918.00
13	Wages	54,40,386.00
	Total	₹ 99,61,682.00

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, Mandu	Milk	500 ml	
	Additional once a week	Chicken	3.0 kgs	1 1
2	Jackal (02 individuals)	Beef	01 kgs	Monday
3	Palm Civet (04	Beef	0.5 kg	Monday
My.	individuals)	Banana	08 nos.	
	4313	Mixed fruit	01 kg	
441		(Banana, Water	The state of	
	A STATE OF THE STA	melon, Apple,		
		Grapes, Orange,	A A Later	A STATE OF THE STA
THE C		Mango and		发达的是是14%
	\$100 ATT \$100 ATT	Seasonal fruits		
的細さ	THE PARTY OF THE	etc.)		Strate Mills

1	Clath Door (02	Dies	02 kgs	Mondov
4	Sloth Bear (02	Rice	03 kgs	Monday
	individuals.)	Coconut	02 nos.	(Partial due
		Jaggery	02 kgs	to
		Sooji rawa	02 kgs	Geriatricity)
		Milk	1.5 litre	
		Eggs	08 nos.	
		Banana	12 nos.	
		Mixed fruit	2.5 kg	
		(Banana, Water		
		melon, Apple,		
		Grapes, Orange,		
		Mango and		
		seasonal fruits		
		etc.)		
		Honey	360ml	
		Groundnut	200 gms	
5	Porcupine (04 individuals)	Green peas	0.5 kg	Monday
		Chickpea	0.5 kg	
		Vegetables	04 kgs	
		(Mix)		
		Banana	06 nos.	
		Mixed fruit	02 kgs	
		(Banana, Water		
		melon, Apple,		
		Grapes, Orange,		, (Vec
		Mango and		
		seasonal fruits		
		etc.)		NINE NINE
6	Gaur (09 individuals)	Green peas	0.5 kg	Monday
		Chickpea	0.5 kg	
		High protein	40 kgs	
		mesh		
		Fodder grass	210 kgs	,
		(Mixed fodder		
	9	depending on	Man	
4		availability like		
		Maize,		
		Sugarcane,	Lange William	
1 4 1		Kadba kutti etc.)	6	-

	7	Spotted Deer (09	High protein	04 kgs	Monday
		individuals)	mesh		
			Fodder grass	35 kgs	
			(Mixed fodder		
			depending on		
			availability like		
			Maize,		
			Sugarcane etc.)	00 1.00	-
			Vegetables	08 kgs	
			(Mixed)		
	8	Sambar (22 individuals)	High protein	10 kgs	Monday
			mesh		
			Fodder grass	110 kgs	
			(Mixed fodder		
			depending on		
			availability like		
			Maize,		
			Sugarcane,		
			Kadba kutti etc.)		
				47 F Isaa	-
			Vegetables	17.5 kgs	
			(Mixed)		
	9	Four Horned Antelope (03	High protein	01 kg	Monday
		individuals)	mesh		
			Fodder grass	10 kgs	
			(Mixed fodder		
			depending on		
			availability like		
			Maize,		
			Sugarcane etc.)		We.
			Vegetables	03 kgs	- File and the second
				US Kys	
	10	Plank Punk (40	(Mixed)	OC Ivan	Manday
	10	Black Buck (12	High protein	06 kgs	Monday
		individuals)	mesh	4	
			Fodder grass	45 kgs	
			(Mixed fodder	W/4	
			depending on		A STATE OF THE STA
			availability like	T ANNA LANGE	
			Maize,		
		9	Sugarcane etc.)	Mus.	
		7	Vegetables	11.5 kgs	1 1
			(Mixed)	Tho Rgo	
	11	Wild Pig (25 individuals)		0.5 kg	Monday
		vviid Fig (25 individuals)	Green peas	0.5 kg	ivioriuay
			Chickpea	0.5 kg	
			High protein	19 kgs	
	E AND		mesh	STEEL STATE OF THE	
	12	Jungle Cat (02	Chicken	0.5 kg	Monday
	4	individuals)	A WATER TO	Mark States	
ń	THE RESERVE OF THE PERSON NAMED IN	the same of the sa	A STATE OF THE PARTY OF THE PAR	THE RESERVE THE PARTY OF THE PA	

13	Peafowl (03 birds)	Poiro	0.5 kg	Mondov
13	Pealowi (03 bilds)	Bajra	0.5 kg	Monday
		Vegetables	03 kgs	
		(Mixed)	0.51	
1.1	DI (001:1)	Jowar	0.5 kg	
14	Pheasants (08 birds)	Moong	150 gms	Monday
		Jowar	150 gms	
		Bajra	150 gms	
		Vegetables	1.5 kg	
		(Mix)		
		Eggs (Boiled)	02 nos.	
		Leafy	02 bundles	
		vegetables		
		Mixed fruit	0.5 kg	
		(Banana, Water		
		melon, Apple,		
		Grapes, Orange,		
		Mango and		
		seasonal fruits		
		etc.)		
15	Emu (06 birds)	Emu feed	02 kg	Monday
	,	Banana	04 nos.	
		Vegetables	04.5 kgs	
		(Mixed)	3	
16	Cockatiels (09 birds)	Moong	50 gms	Monday
	(Bajra	100 gms	, , , , , , , , , , , , , , , , , , , ,
		Eggs	02 nos.	
		Vegetables	500 gms	
		(Mixed)	gc	
		Leafy	01 bundle	-
		vegetables		
17	Crocodile (06 individuals)	Beef	1.5 kgs twice a	Monday
	Crossans (comannadas)		week	7.5
18	Python (02 individuals)	Chicken	04 nos. (live)	Monday
	, Jaion (32 marriada)	Jillokoli	twice a month	Monday
19	King Cobra (02	Rat snake	04 nos. (live) in	Monday
'0	individuals)	rat oriano	a month	Monday
20	Snakes (21 individuals)	White Rats	Thrice a month	Monday
	S. Martidadio)	TTITLO TAILO	01 no. rat for	Wichiday
	9		each snake.	
		Country eggs	16 nos. (Thrice	1
40	4745		a month) for	
				10/19/19/19
13.7		4 0 4		
21	Checkered keelback	Fish	250 gms	Monday
	snake	a de la companya della companya dell		1/10/10/10
	(02 individuals)		*	
22	Turtle (09 individuals)	Fish	250 gms	Monday
TO C		SHEY NOTE Y		76 (19) 5. 12
华西 三	第一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个		ENGLY TEST VEST	
MAN TO RESIDENCE OF THE PARTY.	THE RESIDENCE OF THE PARTY OF T		THE PARTY NAMED IN COLUMN TWO IS NOT THE OWNER.	Charles and the second

14. VACCINATION SCHEDULE OF ANIMALS

NAME OF ANIMAL	SPECIES	SEX	DATE	VACCINE
				Feligen – CRP (Feline Calicivirus, Rhinotracheitis virus, Panleukopenia virus)
MANDU	LEOPARD	MALE	12/09/2019	Anti-Rabies (Nobivac Rabies)
ANJALI	LEOPARD	FEMALE	25/09/2019	Feligen – CRP (Feline Calicivirus, Rhinotracheitis virus, Panleukopenia virus) Anti-Rabies (Nobivac Rabies)
JULIE	LEOPARD	FEMALE	19/09/2019	Feligen – CRP (Feline Calicivirus, Rhinotracheitis virus, Panleukopenia virus) Anti-Rabies (Nobivac Rabies)
RICHIE	LEOPARD	MALE	26/09/2019	Feligen – CRP (Feline Calicivirus, Rhinotracheitis virus, Panleukopenia virus) Anti-Rabies (Nobivac Rabies)
CHERRY	LEOPARD	FEMALE	12/09/2019	Feligen – CRP (Feline Calicivirus, Rhinotracheitis virus, Panleukopenia virus) Anti-Rabies (Nobivac Rabies)
	JACKAL	MALE	11/09/2019	Canine Vanguard 5I4 (Canine Distemper- Adenovirus Type 2- Parainfluenza- Parvovirus, LeptospiraCanicola- Grippotyphosa- Ictohemmorrhagiae- Pomona Bacterin) Anti-Rabies (Nobivac Rabies)
	JACKAL	MALE	11/09/2019	Canine Vanguard 5I4 (Canine Distemper- Adenovirus Type 2- Parainfluenza- Parvovirus, LeptospiraCanicola- Grippotyphosa- Ictohemmorrhagiae- Pomona Bacterin)

15. DEWORMING SCHEDULE OF ANIMALS

SR	SPECIES	DATE OF	DRUG USED	TOTAL DRUG
NO.		ADMINISTRATION		ADMINISTERED
1.	GAURS	12/06/2019	Fenbendazole	12 gms * 07 adults
				13.5 gms * 04 adults
		30/01/2020	Fenbendazole	12 gms * 03 adults
				01 gm * 01 juvenile
2.	SAMBARS	13/06/2019	Fenbendazole	1.5 gms * 18 adults
				1.0 gms * 04 sub- adults
		00/04/0000		
		30/01/2020	Fenbendazole	1.5 gms * 18 adults
				1.0 gms * 06 sub- adults
3.	SPOTTED	13/06/2019	Pyrantel	504 mg * 09 adults
	DEERS		Embonate	
			Febantel	525 mg * 09 adults
			Praziquantel	50 mg * 13 adults
		30/01/2020	Fenbendazole	1.5 gms * 09 adults
4.	BLACK	13/06/2019	Pyrantel	144 mg * 12 adults
	BUCKS		Palmoate	3
			Fenbendazole	500 mg * 12 adults
		30/01/2020	Pyrantel	144 mg * 12 adults
			Palmoate	
			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
		00/02/2020	Pyrantel	72 mg * 04 adults
			Palmoate	
			Fenbendazole	250 mg * 04 adults
6.	JUNGLE	12/06/2019	Praziquantel	25 mg * 02 adults
	CATS		Pyrantel	72 mg * 02 adults
			Palmoate	
Navis I	10 14 15 E		Fenbendazole	250 mg * 02 adults
	A STATE OF THE STA	06/02/2020	Praziquantel	25 mg * 02 adults
3 4 3	R K KO	STORY MARKET NO	Pyrantel	72 mg * 02 adults
6800			Palmoate	050
			Fenbendazole	250 mg * 02 adults

15. DEWORMING SCHEDULE OF ANIMALS

7.	PORCUPINE	15/06/2019	Praziquantel	25 mg * 03 adults
			Pyrantel	72 mg * 03 adults
			Palmoate	
			Fenbendazole	250 mg * 03 adults
		31/01/2020	Praziquantel	25 mg * 03 adults
			Pyrantel	72 mg * 03 adults
			Palmoate	
			Fenbendazole	250 mg * 03 adults
8.	FOUR	14/06/2019	Praziquantel	50 mg * 03 adults
	HORNED ANTELOPE		Pyrantel Palmoate	144 mg * 03 adults
			Fenbendazole	500 mg * 03 adults
		31/01/2020	Praziquantel	50 mg * 03 adults 15 mg * 01 juvenile
			Pyrantel	144 mg * 03 adults
			Palmoate	70 mg * 01 juvenile
			Fenbendazole	500 mg * 03 adults
	Fact	40/00/0040	Dussiansantal	200 mg * 01 juvenile
9.	EMU	18/06/2019	Praziquantel	87.5 mg * 02 adults
			Pyrantel	252 mg * 02 adults
			Embonate Febantel	262 5 mg * 02 adulta
		28/02/2020	Praziquantel	262.5 mg * 02 adults 87.5 mg * 06 adults
		20/02/2020	Pyrantel	252 mg * 06 adults
			Embonate	202 mg 00 addits
			Febantel	262.5 mg * 06 adults
10.			Praziquantel	175 mg * 05 adults
		11/06/2019	Pyrantel	504 mg * 05 adults
	LEOPARDS		Embonate	
			Febantel	525 mg * 05 adults
			Praziquantel	175 mg * 05 adults
		04/02/2020	Pyrantel	504 mg * 05 adults
			Embonate	VIII.
			Febantel	525 mg * 05 adults
11.	JACKALS	18/06/2018	Praziquantel	50 mg * 02 adults
	9		Pyrantel Palmoate	144 mg * 02 adults
			Fenbendazole	500 mg * 02 adults
11	100	07/02/2020	Praziquantel	50 mg * 01 adult
		* +	Pyrantel Palmoate	144 mg * 01 adult
12.	MUGGER CROCODILES	18/06/2019	Fenbendazole	03 gms * 03 adults
		06/02/2020	Fenbendazole	03 gms * 03 adults

15. DEWORMING SCHEDULE OF ANIMALS

10	0.010.001	40/00/0040	I	4.5 +00 1.11
13.	CAIMAN	18/06/2019	Fenbendazole	1.5 gms * 02 adults
	CROCODILES	0.010.010.000		4.5
		06/02/2020	Fenbendazole	1.5 gms * 02 adults
4.4	DUEAGANIEG	10/00/00/10		0.0 1 * 0.7 1 1
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
10.	I LAI OWLO	10/00/2019	i enbendazoie	All birds sprayed with
		00/00/0000		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
		20/02/2020	1 onbondazoio	drinking water
17.	SLOTH	18/06/2019	Praziquantel	350 mg * 02 adults
17.		10/00/2019	•	-
	BEARS		Pyrantel	1008 mg * 02 adults
			Embonate	
			Febantel	1050 mg * 02 adults
		06/02/2020	Praziquantel	350 mg * 01 adult
			Pyrantel	1008 mg * 01 adult
			Embonate	_
			Febantel	1050 mg * 01 adult
			. Counto	rocoming or addit

16. DISINFECTION SCHEDULE

DAILY

AREA	<u>DISINFECTANT</u>	CONCENTRATION
Zoo Entrance / Exit	KMnO4 (Footbath/ Dip)	10%
Entrance at all enclosures	KMnO4 (Footbath/ Dip)	05 %
Veterinary Hospital & Rescue Centre	KMnO4 (Footbath/ Dip)	15 %

16. DISINFECTION SCHEDULE

FORTNIGHTLY

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

BI-ANNUALLY

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

		FUMIGANT CONCENTRATIONS		
ENCLOSURES	DATE	DELTAMETH RIN GLUTARALDEHYDE		IVERMECTIN
LEOPARD 05 Night Shelters	03/05/2019	05 %	10%	0.8%
Out Enclosure & Squeeze Cages		10%	15%	02%
05 Night Shelters	25/02/2020	05 %	10%	0.8%
Out Enclosure & Squeeze Cages		10%	15%	02%
SLOTH BEAR 03 Night Shelters Out Enclosure	04/05/2019	08% 10%	12% 20%	01% 02%
03 Night Shelters	26/02/2020	08%	12%	01%
Out Enclosure		10%	20%	02%

16. DISINFECTION SCHEDULE

<u>JACKAL</u>			-	-		
02 Night Shelters		03%		08%		0.8%
Out Enclosure	05/05/2019	05%		10%		01%
02 Night Shelters	19/02/2020	03%		08%		0.8%
Out Enclosure		05%		10%		01%
<u>GAUR</u>	05/05/2019					
Out Enclosure	27/02/2020	14%		15%		
FORMER TIGER						
03 Night Shelters		14%		15%		
Out Enclosure	04/05/2019	10%		10%		
03 Night Shelters		14%		15%		
Out Enclosure	11/03/2020	10%		10%		
KING COBRA						
	04/05/2019	0.8%		02%		0.8%
	12/03/2020					
SNAKE HOUSE						
All boxes		0.8%		02%		0.8%
Out Enclosure	06/05/2019	01%		02%		
All boxes		0.8%		02%		0.8%
Out Enclosure	12/03/2020	01%		02%		
<u>PARAKEET</u>	07/05/2019					
	28/02/2020	All bire	ds w	ere sprayed with 0	.25%	6 fipronil
MUGGERS /						
CAIMAN	04/05/2019	01% 03%		03%		0.8%
	18/03/2020					
PYTHON	04/05/2019	0.8% 02%			0.8%	
4	12/03/2020	- 0.070		02,0		
FOUR HORNED ANTELOPES	11/05/2019	01%		03%		0.8%
ANTI-LOT LO	. 1/00/2010	0170		0070		0.070

17. HEALTH CHECK-UP OF EMPLOYEES FOR ZOONOTIC DISEASES

Sr. No.	Name	Designation	Date of Health Check up	Findings of Health Check up
1	Vishnu B. Gawas	Round Forester	04.03.2020	Fit
2	Ramnath S. Mhalshekar	Forest Guard	31.01.2020	Fit
3	Vishnu Chauhan	Forest Guard	04.02.2020	Fit
4	Ram V. Gaonkar	Animal Attendant	31.01.2020	Fit
5	Dumingo J. Fernandes	Mahout	04.02.2020	Fit
6	Mahabaleshwar V. Naik	Mahout	13.03.2020	Fit
7	Mohammed Afroz	Mahout	04.02.2020	Fit
8	Noor A. Makandar	Mahout	04.02.2020	Fit
9	Dynaneshwar G. Usgaonkar	Regular Labourer	04.03.2020	Fit
10	Vishwanath S. Sangodkar	Regular Labourer	31.01.2020	Fit
11	Rajendra C. Naik	Regular Labourer	04.02.2020	Fit
12	Manohar A. Gaude	Regular Labourer	31.01.2020	Fit
13	Damodar R. Gaonkar	Regular Labourer	04.03.2020	Fit
14	Sugandha S. Gaonkar	Regular Labourer	31.01.2020	Fit
15	Chandrakant Aikar	Regular Labourer	06.02.2020	Fit
16	Vishram V. Nansekar	T.S.L.	04.02.2020	Fit
17	Siman A. Fernandes	T.S.L.	06.02.2020	Fit
18	Santosh L. Gaonkar	T.S.L.	04.02.2020	Fit
19	Raghunath M. Gawas	T.S.L.	31.01.2020	Fit
20	Ramakant V. Borkar	T.S.L.	31.01.2020	Fit
21	Ramesh Y. Gawde	T.S.L.	04.03.2020	Fit
22	Kavita V. Nansekar	D.W.L.	31.01.2020	Fit
23	Tanvi Gawde	D.W.L.	31.01.2020	Fit
24	Ajit H. Palkar	D.W.L.	04.03.2020	Fit
25	Siddhesh Surlikar	D.W.L.	06.02.2020	Fit
26	Upaso C. Gaonkar	D.W.L.	31.01.2020	Fit
27	Anand Melekar	D.W.L.	04.02.2020	Fit
THE RESERVE OF THE PERSON NAMED IN COLUMN		TO THE REAL PROPERTY OF THE PARTY OF THE PAR	AND THE RESERVE OF THE PERSON	The second of the second of the second

18. DEVELOPMENT WORKS CARRIED OUT IN THE ZOO DURING THE YEAR 2019-2020

Sr. No.	Name of Works
1	Construction of Laterite platform for check post of FRP cabin at Bondla
	Zoo.
2	Replacement of windows of Veterinary Hospital at Bondla Zoo.
3	Extension and repair of old toilet block (Ladies) near Zoo entrance gate
	at Bondla.
4	Repair of Gaur enclosure and shed at Bondla Zoo.

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

Sr. No.	Events	Numbers of participants
1	Wildlife Awareness rally on bicycles from St. Joseph High School, Takwada, Usgao -Goa to Pali, Tisk, Usgao circle and back. Participated students from Gomantak Vidyalaya, Tisk Usgao -Goa, Govt. high School, Dhaushire, Tisk Usgao -Goa, Sarvodaya High School, Usgao-Goa, St. Joseph High School, Usgao -Goa and M.I.B.K. High School, Khandepar, Ponda -Goa. Slogan were give n on Wildlife Conservation, Conservation of Fore sts, National Integritting, Clean and Green India.	64
2	On the Spot Painting competition for Primary and Middle school level was conducted at AJD Almeida High School, Ponda-Goa on 03 rd October 2019.	43
3	On the Spot Painting competition was conducted for Primary and Middle school level at Lokvishwas Prathisthan School, Ponda -Goa and for specially abled children at Lokvishwas Prathisthan School, Ponda-Goa on 03 rd October 2019.	46
4	Nature trails, Bird watching, Talk on Zoo management, Zoo visit, Camps, Film shows and documentary on Wildlife Theme was conducted for the students from Govt. High School, Dhaushirem, Usgao-Goa and Navdurga High School, Pale, Sakhalim-Goa.	69
5	Walk in the wild for students & teachers of high school, colleges & University incl. Swachh Bharat campaign. Covered participants students from New English School, Kundaim, Ponda-Goa.	47

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 and juicy Vegetables like Cucumber etc. made 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 2019-2020.

23. 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.

24. ANIMAL ACQUISITION/ TRANSFER/ EXCHANGE DURING THE YEAR 2019-2020

A.	Animals ar	riving in the Z	00								
	H. No.	Species	Number (M:F)	From	Date of arrival in						
				which	the zoo						
				Zoo							
			NIL								
B.	Animals go	ing from the z	200								
	H. No.	Species	Number (M:F)	Going to	Date of						
				which	deposition from						
				Zoo	the zoo						
	NIL										

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 rehabilitatio n 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	Ganjem Usgao- Goa	03.06.2019	28.05.2019 Bondla WLS.	
6	14.06.2019	Unknown) 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	- Wa
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	Maingine	04.09.2019	30.08.2019	-
			Cobra	Sattari		Shivdem	
			(01	Catton		Dharbandora	
			Unknown)			Dilaibariadia	
ŀ	4.5	00.00.0040		D 11 1	04.00.0040	00.00.0040	
	15	28.08.2019	Spectacled	Paikul	04.09.2019	30.08.2019	-
			Cobra	Sattari		Shivdem	
			(01			Dharbandora	
			Unknown)				
ľ	16	10.09.2019	Spectacled	Maingine	04.10.2019	12.09.2019	_
	. •	1010012010	Cobra	Sattari	0111012010	Shivdem	
			(01	Gattari		Dharbandora	
			`			Dilaiballuula	
ļ			Unknown)				
	17	10.09.2019	Spectacled	Nanus	04.10.2019	12.09.2019	-
			Cobra	Usgao		Shivdem	
			(01			Dharbandora	
			Unknown)				
	18	22.09.2019	Indian	Shel	04.10.2019	23.09.2019	_
			Rock	Melauli,		Bondla	
			Python	Sattari		WLS	
				Sallan		VVLO	
			(01				
			Unknown)				
	19	22.09.2019	Indian	Ganjem	04.10.2019	23.09.2019	-
			Rock	Usgao		Bondla	
			Python	Ü		WLS	
			(01				
			Unknown)				
	20	24.09.2019	Common	Ganjem	04.10.2019	24.09.2019	
	20	24.09.2019	Cat Snake		04.10.2019		
				Usgao		Bondla	T AME
			(01			WLS	*
			Unknown)				
	21	11.10.2019	Spectacled	Paikul	06.11.2019	14.10.2019	- 364//
			Cobra	Sattari		Shivdem	
			(02	and		Dharbandora	. 151
			Unknown)	Ganjem		sell/le	
			31	Usgao			ANS.
ŀ	22	12.10.2019	Spectacled	Khotode	06.11.2019	16.10.2019	_
	22	12.10.2019	Cobra		00.11.2019	Shivdem	
		9		m Sattari			
			(01			Dharbandora	1 7
			Unknown)				
	23	15.10.2019	Indian Rat	Ganjem	06.11.2019	16.10.2019	- //
		2 S S	Snake	Usgao	1 1 1 1 1	Bondla	1/2
1	1	and years	(01		4	WLS	
		-	Unknown)	4	4		To the second
	24	01.10.2019	King Cobra	Paikul	06.11.2019	16.10.2019	
		01.10.2013			00.11.2013	Bondla	
			(01	Sattari	SHOW THE PARTY	and the last	· Martinet
	NA THE	TO AND DOTAL	Unknown)	The second second	THE STATE OF	WLS	明 经分价 图 图 网络
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25	09.11.2019	Spectacled	Shel	05.12.2019	30.11.2019	-
		Cobra	Melauli,		Shivdem Dharbandora	1
		(02	Sattari		Dilaibandora	
00	07.44.0040	Unknown)	O. J. II	05.40.0040	07.44.0040	
26	27.11.2019	Indian Rat	Guleli	05.12.2019	27.11.2019	-
		Snake	Sattari		Bondla	
		(01			WLS	
		Unknown)		2424222	00.40.0040	
27	27.12.2019	Common	Shel	01.01.2020	28.12.2019	-
		Cat Snake	Melauli,		Bondla	
		(01	Sattari		WLS	
		Unknown))				
28	30.12.2019	-	Tisk	01.01.2020	01.01.2020	-
		~	Usgao		Bondla	
					WLS	
29	04.01.2020	Spectacled	Murmune	03.02.2020	06.01.2020	-
		Cobra	, Guleli		Shivdem	
		(01	Sattari		Dharbandora	
		Unknown)	Goa			
30	18.01.2020	Indian	Usgao	03.02.2020	19.01.2020	-
		Rock	Goa		Bondla	
		Python			WLS	
		(01				
		Unknown)				
31	31.01.2020	Checkered	Khotode	03.02.2020	31.01.2020	- **
		Keelback	m Sattari		Bondla	
		Water	Goa		WLS	All
		Snake				wW/
		(01				
		Unknown)				NW.
32	28.02.2020	Indian Rat	Vante,	02.03.2020	29.02.2020	
		Snake	Sattari		Bondla	Alle
		(01	Goa.		WLS	
	6	Unknown)			A	
33	02.03.2020	Spectacled	Shel	11.04.2020	09.03.2020	-\ "
	40	Cobra	Melauli,		Shivdem	
		(01	Sattari		Dharbandora	
		Unknown)	2	0 6	I Valorite	
	12.03.2020	Common	Dhada	11.04.2020	13.03.2020	-
3		Sand Boa	Sattari	I A STATE	Bondla	a Mary Mary
20	200	(01	Goa	1/1/19	* WLS	
6 ph	1	Unknown)		LACK TOP A	Charles and	The let of
			- I I I I I I I I I I I I I I I I I I I	THE RESERVE THE PARTY OF THE PA	Market To the Control of the Control of the	

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



26. ANNUAL INVENTORY OF ANIMALS

(Animals under schedule - I & II of the WLPA, 1972)
Form - II
[See Rule 11 (1)]
Part - A

Inventory Report for the Year : 2019-20 Endangered Species

on		Τ	3	3	_	1	4	4	6	1	5	12
Closing stock as on	0.	Λ	0	0)	0	0	0	0	0	0	0
ng stc	31/03/2020	ц	1	1	ட	1	2	κ	4	0	m	5
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Death		Σ	-		Σ	1	1	1	1	1	1	1
		⊃	1)	1	ı	1	1	1	1	1
Disposal		Ь	-		щ	ı	1	1	ı	ı	1	1
Disp		Μ	-		Σ	1	1	1	1	ı	1	1
ے		n	1		⊃	1	ı	1	1	ı	ı	ı
Acquisition		Ь	-		ட	1	ı	ı	ı	1	ı	ı
Acqu		Μ	-		Σ	1	1	1	1	1		1
		n	-		n	ı	1	1	ı	ı	1	1
SI		ч	1		ட	1	ı	1	7	ı	ı	1
Births		М	-		Σ	1	1	1	1	1	1	1
nc		T	8	3	⊢	2	3	4	7	2	2	12
ck as		N	0	0	n	0	0	0	0	0	0	0
Opening stock as on	01/04/2019	щ	1	1	ட	П	2	m	2	Н	က	2
Open	01/0	M	2	2	Σ	П	\leftarrow	\leftarrow	5	П	2	7
Scientific Name			Pavo cristatus			Melursus ursinus	Tetracerus quadricornis	Paradoxurus haemophroditus	Bos gaurus	Canis aureus	Panthera pardus	Antelope cervicapra)
Animal Name		BIRDS	Blue Peafowl	TOTAL BIRDS	MAMMALS	Sloth Bear	Four horned Antelope	Civet palm	Gaur	Jackal	Leopard	Black Buck
Sr.	No.											

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o 																		
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0	1	18	Н	7		1	0		7		0		1		0	0	9	
0	1	19	Σ	0		2	1		2		0		0		0	1	9	
Elephas maximus	Felis chans	IMALS	MPHIBIANS	Xenochropic	piscator	Naga raja	Ophiophagus	hannah	Crocodylus	palustris	Lissemys punctala		Python molurus		Ptyas mucosus	r Vipera russelli	TOTAL REPTILES/ AMPHIBIANS	
Indian Elephant	Jungle Cat	TOTAL MAMMALS	REPTILES/ AMPHIBIANS	Checkered	keelback	Cobra	King Cobra		Crocodile	Mugger	Flap shell	Turtle	Indian Rock	Python	Rat snakes	Russell viper	TOTAL REPT	

26. ANNUAL INVENTORY OF ANIMALS

Animals under schedule - I & II of the WLPA, 1972 Part - B Other than Endangered Species

Since the continual Scientific Name Opening stock as a births Acquisition Name Scientific Name Opening stock as a size of the continual of the co			_	3	က	T	10	9	23	_	24	10	8	24	0
Name Scientific Name Opening stock as Births Acquisition Disposal Death	ock a	2020	_	0	0	0	4	4	∞	n	0	0	0	0	0
Name Scientific Name Opening stock as Births Acquisition Disposal Death	ng sto	/03/	ட	2	2	0	С	-	∞	ட	15	8	2	6	0
Name	Closir	on 31	Σ	П	-	-	c	-	7	Σ	6	2	1	15	0
Name Scientific Name Opening stock as Births Acquisition Disposal Deatt			n	1	1	1	1	1		n	1	1	1	ı	1
Name	믑		щ	1	1	1	1	1		ч	1	-	Т	1	1
Name	Dea		Σ	1	1	1	1	1		Σ	1	-	1	1	1
Animal Name Scientific Name Opening stock as on 01/04/2019 Births Acquisition BIRDS Makes M			⊃	ı	1	1	1	1		\supset	ı	1	1	ı	1
Animal Name Scientific Name Opening stock as on 01/04/2019 Births Acquisition BIRDS Makes M	sal		щ	1	1	1	1	1		ц	1	1	1	ı	1
Animal Name Scientific Name Opening stock as on 01/04/2019 Births Acquisition BIRDS M F U T M F U M F Silver Pheasant Lophura nycthemera 1 2 1 4 -	Dispo		Σ	ı	1	1	1	1		Σ	1	1	1	1	1
Animal Scientific Name Opening stock as on 01/04/2019 Births BIRDS M F U T M F U Silver Pheasant Lophura nycthemera 1 2 1 4 - - - Ring Necked Phasianus colchicus 1 2 1 4 - - - - Ring Necked Phasianus colchicus 1 2 1 4 - <t< td=""><td></td><td></td><td>ר</td><td>ı</td><td>1</td><td>1</td><td>1</td><td>1</td><td></td><td>n</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></t<>			ר	ı	1	1	1	1		n	1	1	1	1	1
Animal Scientific Name Opening stock as on 01/04/2019 Births BIRDS M F U T M F U Silver Pheasant Lophura nycthemera 1 2 1 4 - - - Ring Necked Phasianus colchicus 1 2 1 4 - - - - Ring Necked Phasianus colchicus 1 2 1 4 - <t< td=""><td>isitio</td><td></td><td>щ</td><td>ı</td><td>1</td><td>1</td><td>1</td><td>1</td><td></td><td>ш</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></t<>	isitio		щ	ı	1	1	1	1		ш	1	1	1	1	1
Animal Scientific Name Opening stock as on 01/04/2019 Births BIRDS Makes	Acqu		Σ	ı	1	ı	ı	ı		Σ	1	ı	ı	1	ı
Animal Scientific Name Opening stock as no 1/04/2019 Births BIRDS MAPRIS MAPRI			⊃	1	1	1	2	4		n	1	1	1	1	1
Animal Scientific Name Opening stock as Nomb BIRDS M F U T Silver Pheasant Lophura nycthemera 1 2 1 4 Ring Necked Phasianus colchicus 1 0 0 1 Lady Amherst Chrysolophus 1 0 0 1 Pheasant amherstiae 1 0 0 1 1 Cockatiels Nymphicus 3 3 3 2 8 TOTAL BIRDS Nymphicus 1 1 0 0 1 MAMMALS MAMMALS MASCALOF 4 0 0 0 Spotted Deer Sambar Axis axis 2 7 0 9	St		щ	ı	1	1	1	1		ц	1	1	1	ı	1
Animal NameScientific NameOpening stocks on 01/04/2019BIRDSMFUSilver Pheasant PheasantLophura nycthemera amherstiae121Lady Amherst Pheasant CockatielsChrysolophus amherstiae100EmuDromaius novaehollandiae110TOTAL BIRDSNymphicus hollandicus332TOTAL BIRDSNovaehollandiae783TOTAL BIRDSCervus unicolor8150Spotted DeerAxis axis270Indian PorcupineHytrix indica130Wild BoarSus scrofa1590HippopotamusHippopotamus0000	Birt		Σ	1	1	1	1	1		Μ	1	1	1	ı	1
Animal Scientific Name BIRDS Silver Pheasant Silver Pheasant Lophura nycthemera Ring Necked Phasianus colchicus Pheasant Chrysolophus Lady Amherst Chrysolophus Pheasant Nymphicus Cockatiels Nymphicus Fmu Dromaius TOTAL BIRDS Novaehollandiae MAMMALS Cervus unicolor Spotted Deer Axis axis Indian Hytrix indica Porcupine Sus scrofa Wild Boar Sus scrofa Hippopotamus Hippopotamus Hippopotamus Hippopotamus	as	Φ.	_	4	က	\leftarrow	∞	2	18	Τ	23	6	4	24	0
Animal Scientific Name BIRDS Silver Pheasant Silver Pheasant Lophura nycthemera Ring Necked Phasianus colchicus Pheasant Chrysolophus Lady Amherst Chrysolophus Pheasant Nymphicus Cockatiels Nymphicus Fmu Dromaius TOTAL BIRDS Novaehollandiae MAMMALS Cervus unicolor Spotted Deer Axis axis Indian Hytrix indica Porcupine Sus scrofa Wild Boar Sus scrofa Hippopotamus Hippopotamus Hippopotamus Hippopotamus	stock	/201	n	1	0	0	2	0	3	n	0	0	0	0	0
Animal Scientific Name BIRDS Silver Pheasant Silver Pheasant Lophura nycthemera Ring Necked Phasianus colchicus Pheasant Chrysolophus Lady Amherst Chrysolophus Pheasant Nymphicus Cockatiels Nymphicus Fmu Dromaius TOTAL BIRDS Novaehollandiae MAMMALS Cervus unicolor Spotted Deer Axis axis Indian Hytrix indica Porcupine Sus scrofa Wild Boar Sus scrofa Hippopotamus Hippopotamus Hippopotamus Hippopotamus	ning	1/04	ч	2	2	0	m	Н	∞	ч	15	7	m	6	0
Animal Name BIRDS Silver Pheasant Ring Necked Pheasant Lady Amherst Pheasant Cockatiels Cockatiels Emu Emu Indian Porcupine Wild Boar Hippopotamus	Ope	on 0	Σ	П	П	Н	m	Н	7	Μ	8	2	1	15	0
	Scientific Name			Lophura nycthemera	Phasianus colchicus	Chrysolophus amherstiae	Nymphicus hollandicus	Dromaius novaehollandiae			Cervus unicolor	Axis axis	Hytrix indica	Sus scrofa	Hippopotamus amphibious
ış s	Animal	Name	BIRDS	Silver Pheasant	Ring Necked Pheasant	Lady Amherst Pheasant	Cockatiels	Emu	TOTAL BIRDS	MAMMALS	Deer Sambar	Spotted Deer	Indian Porcupine	Wild Boar	Hippopotamus
	Sr.	No.													

TOTAL MAMMALS		56	34	0	09												7	27	34	9 0	61
REPTILES/ AMPHIBIANS M	Σ		ட	⊃	Ь	Σ	ш	⊃	Σ	ட	D	Σ	ш	D	Σ	ш	_	Σ	ш	· 	⊢
Bronze back Dendrelaphis tristis 0 Tree snake			0	3	3	i	1	ı	1	1	1	ı	1	1	1	1		0	0	3	3
Forsterns cat Boiga forestrn 0 0 0 snake		0		2	2	ı	1	ı	1	ı	1	ı	1	1	1	1		0	0	7	2
Sand Boa <i>Eryx conicus</i> 4 1	4 1	1		0	5	1	1	1	1	1	1	1	1	ı	ı	1	_	4	1	0	5
Trinket snake Elaphe helena 0 1	0 1	1		0	1	1	-		-		ı	-		ı	1	-	-	0	1	0	1
Indian Black <i>Melanochelys</i> 3 4 Turtle <i>trijuga trijuga</i>)		4		0	7	ı	1	1	1	1	1	1	1	1	1	1	1	3	4	0	7
Spectacled Caiman crocodylus 1 1 1 Caiman	1 1	1		0	2	ı	1	ı	1	1	1	ı	1	1	1	ı	1	1	1	0	2
TOTAL REPTILES/ AMPHIBIANS 8 7		7		2	20													8	2	2 2	20

27. MORTALITY OF ANIMALS

Sr. No.	Animal Name (with individual	Scientific Name	Sex	Date of Death	Reason of Death as per the Post mortem report
	identification mark, if any)				
1	Sambar	Cervus unicolor	Female	04.04.2019	Soft tissue/organ damage as a result of Post-traumatic in-fight injury in herd
2	Silver Pheasant	Lophura nycthemera	Female	14.05.2019	Circulatory collapse/ shock as well as ruptured intestine and trauma due to probable in-fight or external predator.
3	Indian Porcupine	Hystrix indica	Female	02.06.2019	Geriatric and senility changes leading to slow cell death and organ failure.
4	Sloth Bear	Melursus ursinus	Male	13.12.2019	Primarily due to Hepatobiliary Carcinoma along with metastasis in vital organs; lungs, spleen, Pancreas and entire Digestive system leading to Multi- Organ failure.
5	Jackal	Canis aureus	Male	17.12.2019	Organ Senility owing to Geriatricity.

28. BIRTH OF ANIMALS

Sr. No.	Animal Name (with individual identification mark, if any)	Scientific Name	Male	Female	Unknown	Date of Birth
1	Emu	Dromaius novaehollandiae	1	-	04	01.04.2019
2	Cockatiels	Nymphicus hollandicus	-	-	02	25.05.2019
3	Gaur	Bos gaurus		01	-	24.08.2019
4	Gaur	Bos gaurus	51	01	\ -	13.12.2019
5	Deer Sambar	Cervus unicolor	01	3 / F	19 -	07.01.2020
6	Deer Sambar	Cervus unicolor		01	14.	09.01.2020
7	Four Horned Antelope	Tetracerus quadricornis	01			10.01.2020

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

Sr.	Norm	Condition	Time Period	Since	Status with regard
No.	No.			when	Status with regard to compliance of
NO.	NO.	stipulated	to Comply		the conditions
1 0	opovol vo			pending	the conditions
1. G		quirements	0		Linday compliance
	10.1(4)	The Zoo exists	One year		Under compliance
		within the wildlife			and the said work
		sanctuary and			given to Public Work
		surrounded by deep			Department for
		forest, there is no			execution under
		need of having a			Capital Head.
		pucca wall as			
		perimeter barrier.			
		However, 7-8 ft. high			
		chain link fencing			
		should be erected as			
		perimeter barrier all			
	10 ((0)	around Zoo area.			
2	10.1(2)	The giant squirrel	Immediately		Is in progress.
		enclosure should be			
	4 4 (=)	enlarged			
3	1.1(7)	The Zoo should	Immediately		Waste generated at
		provide a proper			zoo is segregated in
		waste disposal			soild and liquid
		system for treating			sepeartely. Liquid
		both the solid and			waste is disposed off
		liquid wastes			in waste disposal pit
		generated in the			while soild waste is
		zoo There should be			stored and send to
		waste disposal			Goa Waste
		system having no			management
		adverse impact on			corporation at
				a.W.	Saligao.
4	10.2(2)		One year	. 17	Is in progress.
		_			
	1				
	No. 1			6.41	As year of the same
	11/2/19	The state of the s	4		
130	ALCOHOL:		-		
	A TEL				1 3 K E 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
42	Charles IV		S ALL		T T TE ME ME TO
	100	animal enclosures.	ES PERSON		STATE TO STATE OF THE STATE OF
2. A	dministra 10.2(2)	the environment. Itive and staffing Pate 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.	tern One year		Is in progress.

		It is a small Zoo.		_	
		There should be one			
		Curator and one			
		Biologist. The			
		Officer-in-charge of			
		the zoo and the			
		Curator are two			
		separate posts.			
3.	Develor	oment and Planning			
5	10.3(1)	The zoo should	Immediately		Already sent to CZA
	,	prepare and get the	,		for approval.
		Master Plan			To a supply of our
		approved by the			
		CZA.			
6	10.3(3)	The pucca buildings	Immediately		Is in progress.
	10.0(0)	including the visitor	Initiodiately		is in progress.
		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			Wen.
		not been affected			
		due to such animal			
		enclosures/structures.			
7	10.3(3)	The Spotted Deer	-		Will be complied.
		enclosure should be		r.v.	
		made proper as per			No.
		the CZA norms.		1	
8	1.3(6)	A collection plan of	Immediately		Will be complied.
		animals to be		7	10/100
2.4		housed and			
	4	displayed in the zoo			
		should be prepared.		State of the	
	Mary Control	The plan should be	2 0	4 11	
4-1/6		prepared keeping in	4	Se and	
P. L.	ALVER ST.	view due regard to	1/4	Sheet Plans	
	-3/4	viovi dao regara to			

ſ	4. Animal housing, display of animals and animal enclosures					
Ī	10	10.4(1	The Zoo is situated	One year		Under compliance
		&2) `	within the Bondla			and the said work
		,	Forests and has			given to Public Work
			thick vegetation			Department for
			which acts as the			execution under
			nature immersing			Capital Head.
			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 Buckand			
			Sambar needs to be			
			improved.			
	11	10.4(2)	The enclosures for	One year		Will be complied.
			snakes shall be			
			designed to meet			
			the biological			
			requirements of the			
			animals. The			
			noctumal species		as W	
			enclosures			
			(porcupine and		14.	
			civets) shall be			
			provided with darkened shade for			
-	12	10.4(3)	animals privacy. The safety features	One year		Will be complied.
	12	10.4(3)	both for visitors and	One year	6 11	will be complied.
	4	1100	animal keepers	4		
	1	MARKET !	have to be upgraded	1	Shirt Park	
			as the night shelters	7 *		
L			do the hight shelters			

		are close tothe	-		
		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			
4.0	40.4(0)	leopard.			
13	10.4(6)	Snakes, Civets &	One year		Complied.
		Crocodile enclosure			
		requires species			
		specific enrichment			
		including filling with			
		sand for basking of			
14	10.4(6)	crocodiles.	One year		Under compliance
14	10.4(6)	a) The Zoo	One year		Under compliance and the said work
		enclosures require			given to Public Work
		drastic modification			
		and improvement to			Department for execution under
		enrich the paddock		as W	ADMA.
		area and night shelters in order to			Capital Head.
		comply with the standard of CZA.			
		b) Wild boar, Tiger,			
		Bison, Snakes and			
	4	crocodiles			
	No. 1	enclosures need to		6.41	AS W. W.
		be improved		Maria	
130	MARKET !	structural	4	A FIRE	
	A The	modification in night			A SEED MADE TO THE SEE
763		shelters.	3 6/1	The state of	The wast of
THE PERSON NAMED IN	The second secon	oricitors.	The second secon		

Г	4.5	40.4(0)	The second	0		AACH Is a same l'artis
	15	10.4(8)	The zoo has	One year		Will be complied in
			constructed, without			future.
			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.			
	16	10.4(9)	All the animal	One year		Complied.
			enclosure in the Zoo			
			should be provided			
			appropriate standoff			
			barriers and			
			adequate warning			
			signs for keeping the			
			visitors at a safe			
			distance from the			
			animals.			
Ī	17	10.4(9)	The zoo should	One year		Complied.
		, ,	plant hedge			. W.C.
			between the			
			standoff barrier and			ALL AND THE STREET
			the paddock wall.			
ľ	18	10.4(10)		One year		Is in progress.
		. ,	the zoo should bear			
			a sign board in			
			bilingual language			
			displaying scientific			
			information about		78	M. M.
			biology and behavior			
			etc. of the animals			
			exhibited in it.			
	44	1 1 / 1	4			
L						

5	Unkeen	and healthcare of ar	nimal		
19	10.5(1)	The zoo should has	One year		Will be complied.
13	` '	provision of	One year		will be complied.
	(g)	secondary holding			
		areas for safe			
		movement of			
		animals from			
		primary enclosures			
		for cleaning/			
		feeding/ medical			
		procedures.			
20	10.5(3)	The meat house	Immediately		Complied.
		should be made fly			•
		proof.			
21	10.5(3)	Zoo should install a	Immediately		Complied.
		freezer of adequate			
		capacity for storage			
		of meat products.			
22	10.5(4)	The Store house for	Immediately		Complied.
	()	food should be			·
		made rodent proof			
		and storage			
		conditions of feed			
		items need			
		improvement to			
		make it damp proof.			
		make it damp proon			. W
23	10.5(4)	All herbivores	One year		Will be complied.
	, ,	enclosure should			
		have a provision of			All
		a small enclosure			W/6
		cum shelter where			
		feed is to be			
		provided to the		* W/#	
		animals.			
24	10.5(4)	The Zoo should	One year	1	Will be complied.
	, ,	provide secondary			
		holding areas for			
		safe movement of	- 1 *		
44	1 1 1 1 1	carnivores from		2-01	
	- 14	primary enclosure		- , , 1	
	3 14 68	for cleaning/	4 0	-	
AL SI		feeding/medical		Jan Barrier	
		procedures etc.	The state of the s	ha bette	
		procedures stor			

Т	25	10.5(2)	The zoo should	Immediately		Same at Sr. No.3.
	23		have a sufficient	Illinediately		Same at St. No.5.
		(3)	size functioning			
			9			
			freezer for storage			
			of meat and to keep			
			it cold until it is fed			
-		M-4	to the animals.			
_	6.		ary and Infrastructure			
	26	10.6(3)	Zoo should have a	Immediately		Approved and is in
			post-mortem room			progress.
			for conducting post			
			mortem as per the			
_	07	40.0(5)	CZA Guidelines.	1 11 (1		
	27	10.6(5)	The Zoo should	Immediately		Vet Assistant is
			have one qualified			already posted and
			lab assistant/			proposal for Lab
			compounder to			assistant will be
			assist the			submitted.
			Veterinarian in			
			healthcare of the			
		(0.0(0)	Zoo animals.			
	28	10.6(6)	Zoo should have a	Immediately		Series of Veterinary
			formal MoU on			Officer of Animal
			health care with the			Husbandry, Usgao -
			nearest veterinary			Goa and Dharbandora
			institution and the			- Goa are used for
			MoU should contain			assisting the Zoo in
			names and contact			all aspects in health
			details of person			care management.
			who will assist the			Also Doctor/Scientist
			Zoo in all aspects in			assistance are
			health care			taken from ICAR,
L			management.			Old Goa.
L		_ •	and breeding of anir			
	29	10.9(9)	To safeguard	Immediately	1	Doctor/Scientist
			against			assistance taken from
		9	uncontrolled growth			ICAR, Old Goa or
		7	in the population of			Veterinarian Officer
			wild boar,			from Animal
		- +	chowsingha and	114		Husbandry are
			sambar the zoo	2 5	6 11	contacted for
	TO HE	15	should implement	4	1	appropriate
	Talk.		appropriate		the state of	measures.
	b Tva		population control			Take to Landa Tally Tally
	700		measures.	A A A A A A A A A A A A A A A A A A A		T- AND AND AND

30	10.0(4)	The zoo should	Immodiately		Will be complied
30	10.9(4)		Immediately		Will be complied.
		acquire mates for			
		single animals			
		(Tiger, Elephant,			
		Hippopotamus,			
		Keel back			
		Checkered snake,			
		Trinket snake,			
		Peafowl and Lady			
		Amherst Pheasants			
		etc) on priority			
		basis.			
	Research			1	
31	10.10	The zoo should	One year		Will be complied.
		implement a			
		research plan			
		conduct research			
		on the prioritized			
		species and			
		specific areas of			
		concern.			
11. E	ducation	and Outreach Activit	ties		
32	10.11	The zoo should	One year		Is in progress.
		have appropiate			and the Second
		signages and			
		education and			
		outreach activities			
		for conservation			
		education of the			
		visitors of the zoo.			
12. V	isitor Fac	ilities			
33	10.12(1)	The zoo should	Immediately		Will be complied
		provide adequate			immediately.
		civic facilities for		1	- Ingris
		visitors at		34//E	
		apropriate and			N/W.
4		convenient places			
		within the zoo			
		including the		18/2 W. /	
	Mary 1	physically	2 0	6 11	A CHARLES
Hall I		disadvantaged	4	Sept 8	
The state of					
2		persons.	The state of the s	A STATE OF THE STA	

34	10.12(3)	Appropriate	Immediately	Will be undertaken
		arrangements		immediately.
		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.		

30. 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, Brahminy Kite, 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.

31. 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.
- 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:-

AREA	DISINFECTANT	CONCENTRATION
All Entry/ Exit gates, administrative offices, Zoo	<u>Sanitiser</u> Ethanol	80%
kitchen	Chlorhexidine Gluconate	0.50%
Zoo Entrance / Exit/ Vehicles	KMnO4 (Footbath/ Dip)	20%
Entrance at all enclosures	KMnO4 (Footbath/ Dip)	05 %
Veterinary Hospital and Rescue Centre	KMnO4 (Footbath/ Dip)	15 %
All Zoo roads, pathways,	Glutaraldehyde	05%
junctions, circles, garden area etc	Sodium hypochlorite	08%
All Zoo Night Shelters (Once	Sodium hypochlorite	06-08%
every 10 days)	Formalin	02%

INMATES OF BONDLA ZOO













NEW BORNS AT BONDLA ZOO







ACTIVITIES CARRIED OUT AT BONDLA ZOO 2019-20



Cycle Rally (68th Wildlife Week)



Nature Awareness Camp at Bondla



Certificate Distribution by Shri. Subhash Chandra IFS PCCF, Goa during Cycle Rally Event



Concluding Function of 68th Wildlife
Week at Bondla



Rescue Operation of Leopard trapped in Snare Cable



Tranquilization and Darting Training at Bondla

ACTIVITIES CARRIED OUT AT BONDLA ZOO 2019-20



Visit of Hon'ble CM Shri. Pramod Sawant at Bondla



Visit of DG Forests Shri. Siddanta Das at Bondla Zoo



Visit of Chief Secretary, Goa Shri. Parimal Rai IAS at Bondla Zoo



Visit of IFS Probationers at Bondla during Induction Training Programme



Tree Plantation at Govt. High School, Advoi Sattari - Goa



On the spot Drawing Competition for Differently Abled Students



GARDEN AT BONDLA ZOO



Published By

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