

Maitri Baag Zoological Park

Annual Report for the year
2017-18



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1. REPORT OF OFFICER-IN-CHARGE:

The Maitri Baag zoological park (MBZ) entered into 35 year of its establishment. It is a great moment of pleasure to us that the master plan of Maitri Baag zoological park Bhilai steel plant has been approved by Central Zoo Authority and which has been communicated vide letter no .19-34/92-CZA (1490 (v.iii)(m) 4661 dated 15.04.2014.

During this year evaluation and monitoring officer, CZA visited park on 19.02.2017 and CZA has granted conditional renewal of recognition as a "medium category zoo" for a period upto 21st march'2020 subject to the compliance of the various directives under the recognition of zoo rules 2009, which has been communicated vide letter no .19-34/-CZA(vol.iv)/149(BKG)/742/2017 dated 05.04.2017.

- During this year 02 nos. of water cooler have been installed for water storage for various enclosures.
- During summer season sprinkler have installed for the cooling of various enclosures.
- During this year, 919441 nos of visitors have visited the park.
- Total number of animals/birds are 381 as on 31.03.2018.
- Maitri Baag zoo has organized educational programme like, wildlife week, Environment day & animal welfare for enhancing awareness in the school children's & visitors.
- Tree saplings were planted by school children in Maitri Baag premises.
- Construction of one no. of shed in spotted deer enclosures and two nos. in Sambar enclosures.
- Stand barrier has been provided in front of Sambar enclosure, Ghariyal, Himalayan bear and Emu enclosure.
- Water body provided for python in the cage.
- **Evaluation and monitoring officer**, CZA has been visited at Maitri Baag , Bhilai on 19.02.2017 and after inspection of various enclosures interacted with the officials and staff of Maitri Baag.
- The evaluation report of the Maitri Baag Bhilai Steel Plant as submitted by the evaluating officer was considered by the Technical committee in its 82nd meeting held on 22nd March'2017..
- The technical committee of the CZA has decided to grant conditional renewal of recognition as a "Medium Category Zoo" for a period upto 21st March'2020 subject to the compliance of the various directives under the recognition of zoo rules, 2009. Which has been communicated vide letter no :
- **19-34/-CZA(VOL.IV)/149(BKG)/742/2017 DATED 05.04.2017**

2. HISTORY OF THE ZOO

- Early in 1957, the existing area of Maitri Baag used to be a forest covered with trees of different varieties, such as sakhua, sagwan, mahua, arjun and palas etc.
- Maitri Baag Zoological Park Bhilai is the dream turned to reality, of the great Visionary, the then Managing Director of Bhilai Steel Plant thought to utilize the abundant thick Forest area in the city, at Maroda Sector of Bhilai Township .
- Since the Bhilai Steel Plant was established with collaboration of Russia, the name Maitri Baag was given to the park to show a great friendship (Maitri) between India and Russia .
- It is one of the oldest and largest zoo of Chhattisgarh and MP region. It was started with some donated animals like deer, monkeys by Forest department and over the years it has developed in a small zoo. The zoo is famous for it's Royal Bengal Tigers and White Tigers which are endangered species.
- The Park is situated in the heart of Bhilai City and spread over an area of 131.00 acres of land in center of Steel Township.
- Now-a-days it is an abode of rare and endangered species of wild life and colorful birds. The lush sylvan surrounding of the park has become a centre place of attraction for the resident of this industrial belt.
- MBZ also support conservation of endangered species, which have no chance of survival in wild, a last chance of survival through coordinated breeding under ex-situ conditions and raise stocks.
- MBZ also inspire amongst zoo visitors empathy for wild animals, an understanding and awareness about need for conservation of natural resources and for maintaining the ecological balance.

- It is helping in conservation of various species with emphasis on endangered species belonging to the region or reservation of biodiversity.

3. VISION:

To ensure the rich diversity of nature for future generation we also ensure an earth in which human values are protected and conserve the Flora and Fauna.

4. MISSION

Mission of the zoo is in line with the national zoo policy, which is to complement and strengthen the national efforts in conservation of the rich biodiversity of the country, particularly the wild fauna.

Supporting the conservation of endangered species, which have no chance of survival in wild, a last chance of survival through coordinated breeding under ex-situ conditions and raise stocks.

To inspire amongst zoo visitors empathy for wild animals, an understanding and awareness about need for conservation of natural resources, wild life and for maintaining the ecological balance

To provide holistic environment for rehabilitation of Wildlife.

5. OBJECTIVE

- Objective of the zoo is in line with national zoo policy, which is to complement and strengthen the national efforts in conservation of the rich biodiversity of the country, particularly the wild fauna.
- Supporting the conservation of endangered species, through coordinated breeding under ex-situ conditions and raise stocks.
- To enhance wariness amongst zoo visitors towards wild animals.
- To develop an understanding and awareness about need for conservation of natural resources, wild life and for maintaining the ecological balance.
- To provide holistic environment for rehabilitation of wildlife. .

STRATEGY

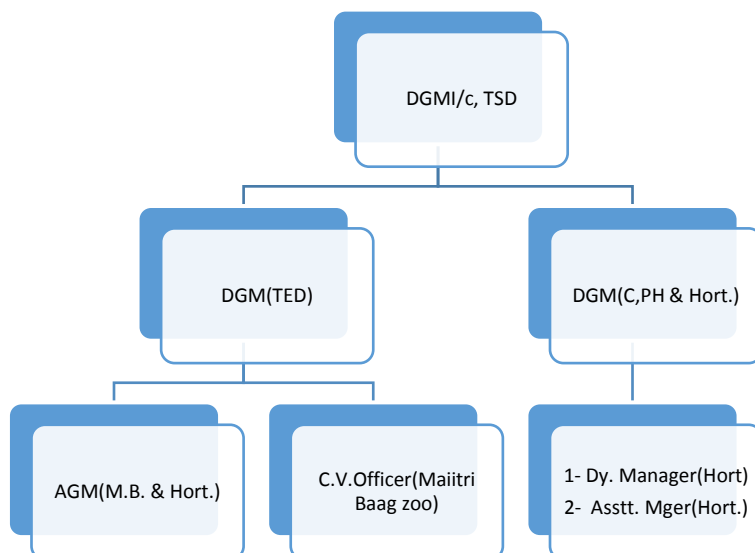
- We intend to use state of the art technology for betterment of the park and want to give a naturalistic environment to all zoo animals .

6. ABOUT US

S.No.	Particulars	Information
Basic Information about the Zoo:		
1	Name of the Zoo	Maitri Baag Zoological Park
2	Year of Establishment	1972
3	Address of the Zoo	Maroda Bhilai, Distt. DURG(C.G.)
4	State	Chhattisgarh
5	Telephone Number	0788-2858331
6	Fax Number	N.A.
7	E-mail address	drqkdubey@sail-bhilaisteel.com nkjain3@sail-bhilaisteel.com
8	Website	
9	Distance from nearest	Airport: 40 K.M.
		Railway Station: 08 K.M.

S.No.	Particulars	Information
		Bus Stand: 08 K.M.
10	Recognition Valid upto (Date)	21st March'2020.
11	Category of zoo	Medium
12	Area (in Hectares)	16.86 Hectares.
		Total Indian : 971692
		Total Foreigners : 25
		Total Visitors: 971717
14	Visitors' Facilities Available in Zoo	<ul style="list-style-type: none"> All around the road, proper signage for particular enclosures has been displayed to avoid confusion. To avoid visitors getting disoriented and moving haphazardly in all direction, we have one main entrance having verandah, cemented pathway and pathway connecting sub-path way and also moorum laid sub path way, every turning well directed and showing direction to different animal homes minimizes the visitors getting disoriented and moving haphazardly. Proper educative signage, with different species, tree, saving earth slogans are in the way which automatically give educative diet to visitors. Visitors shed at different location are being renovated for their rest with nearby drinking water ties. Facility for disabled(Wheel chair). <p>park has taken care to provide all required facilities to the visitors e.g. drinking water points, shelters, toilet, benches, toy train, children park, wheel chair, first aid box, etc.</p>
15	Weekly Closure Day of the Zoo	Monday
Management Personnel of the zoo		
16	Name with designation of the Officer in-charge	Dr. G.K. Dubey, Asstt. General Manager
	Name of the Veterinary Officer	Dr. N.K. Jain, Chief Veterinary officer(Maitri Baag Zoo)
	Name of the Curator	Yogesh Kumar Chandrakar
	Name of the Biologist	-
	Name of the Education Officer	Gaffar Khan
	Name of the Compounder/ Lab Assistant	02 Persons
Owner / Operator of the Zoo		
17	*Name of the Operator	Bhilai Steel Plant, Bhilai
18	Address of the Operator	Maitri Baag Zoological Park, Maroda, Bhilai (C.G.)
19	Contact details/Phone number of Operator	Dr. G.K. Dubey, Ph No.0788-2857171,Mob:9407982205 Dr. N.K. Jain Ph No.0788-2858331,Mob:9407982238
20	E-mail address of Operator	drqkdubey@sail-bhilaisteel.com nkjain3@sail-bhilaisteel.com

7. ORGANIZATIONAL CHART



8. HUMAN RESOURCES

Manpower of the Zoo*

Sl.No.	Designation	Number of Sanctioned Posts	Names of the incumbent
01	Asstt. Gen.Manager	01	01
02	Chief Veterinary Officer(Maitri Baag Zoo)	01	01
03	Dy. Manager(Hort)	01	01
04	Asstt Manager(Hort)	01	01
05.	Field Asstt.	06	05
06.	Zoo Asstt.	02	02
07.	Zoo Attendants /Field attd.	15	12
08	Animal Keeper (PRWs)	12	10
09	Vet. Asstt/Attd. (PRWs)	02	02
10	Garden care/Attd.	10	10
11	Security Guard	15	15
12	Ticket checker	03	03
13	Ticket counter operator	06	06
14	Electrician	02	02
15	Driver	02	02
16	Office Staff	03	03
17	Peon	01	01

9 . Capacity Building of zoo personnel:

Sl.No.	Name and designation of the zoo personnel	Subject matter of Training	Period of Training	Name of the Institution where the Training attended
01	Dr. G.K. Dubey AGM(Hort &PHD)	Zoo Directors training on Zoo Management	29.09.1992	Wildlife Institute of Dehradun Ministry of Environment & Forest & CZA.
		Breeding & conservation of endangered species	29.09.1994	Jersey Wildlife conservation International Training Centre, Jersey (U.K.)
		Diploma in endangered specis management	1995	University of Cant , (U.K.)
		Zoo Education training(South Asian Zoo Education workshop	11.08.2000	Central Zoo KMTNC,SARRC Countries at Kathmandu (Nepal)
		Training & workshop for enclosure design .	1Dec to 7 th Dec.	Training & Workshop conference of the Zoo association for Regional

				cooperation, National Zoological Dahiwal, SRILANKA.
		Working of SEAZA Zoos	10.10.2001	10 th Annual SEAZA conference in South East Asian Zoo Association , Malaysia
		Training & workshop conference	11.10.2002	South Asian Zoo Association Corporation for Regional cooperation .DHAKA
		Programme on Leadership Principles & practices	21.04.2014	Management Training Institute , RANCHI.
		Environmental Management system & Internal Auditor training course	29.11.2005	LRQ A, Bhilai Steel Plant.
		Land scvup planning zoo designing	02.11.2001 to 05.11.2011	Central Zoo Authority conducted at Hyderabad.
02	Dr. N.K. Jain, Chief Veterinary Officer(MB)	Carbon Capture , Sequestration	08-11-17 to 09.11.2017	DCIS, Rourkela
		Disease of Wild animals and their Mgmt and surveillance.	05.03.2007 to 11.03.2017	WVRI, Bareilly (U.P.)
		DEVELOPMENT OF GREEN BELTS	16.08..2010 to 20.08.2010	Indian Forest Institute, Dehradun
03	Nawal Das, Zoo Asstt.	Zoo Keeper	17.12..2001 to 23.12.2001	Nandan Kanan Zoo, Bhubneshwar, (Odisha)
04	K. Narssaya, Zoo Attendantd	Zoo Keeper	17.12..2001 to 23.12.2001	Nandan Kanan Zoo, Bhubneshwar, (Odisha)
		Zoo Keeper on Enrichment of animal enclosure.	02.11.2012 to 15.11.2012	Nandan Kanan Zoo, Bhubneshwar, (Odisha)
05	Yogesh Kumar Chandrakar, Zoo Attendant	Animal keeper Management of Carnivorous in Captivity	16.12.2011 to 29.12.2011	Nandan Kanan Zoo, Bhubneshwar, (Odisha)
		National workshop for zoo Biologist.	2506-2013 to 28.06.2013	Jaipur zoo

10- Zoo Advisory Committee – Not formed

a. Date of constitution -

b. Members

c. Dates on which Meetings held during the year

11- a) Health Advisory Committee– Zoo is taking expert advice from Director of . Wildlife Medicine, Pathologist & Public Health Department of Anjora Veterinary College, Distt. Durg.

b) Disease Investigation Laboratory (Govt. of C.G.) Durg.

c) Veterinary surgeon of Government Hospital, Durg.

a. Date of constitution

b. Members

c. Dates on which Meetings held during the year.

12- Statement of income and expenditure of the Zoo:

The total income of Maitri Baag from all sources for the of 01.04.17 to 31.03.18 was **Rs. 1.99 Crore.**

Total expenditure of Maitri Baag during the period 01.04.17 to 31.03.2018 was Rs. **5.96 Crore.**

13- Daily feed Schedule of animals: Details are as under:

Deers & Anetlopes

Mash prepared percentage wisely out of the following ingredients and the quantum to be given to an individual animal is shown species wise:

<u>Ingredients of Mash</u>		<u>Percentage</u>
1.	Oil Cake	5%
2.	Maize Crushed	10%
3.	Wheat bran	38%
4.	Soaked gram	30%
5.	Linseed soaked	5%
6.	Soybean	10%
7.	Salt	2%

Note:-

Dry gram and finessed roughly becomes double in quantity after soaking for 24 hours.

Sl.No.	Species	Feed item	Quantity		Day of fasting
			Winter	Summer	
1	Spotted Deer	1. Concentrate mesh. 2. Green grass	0.8 Kgs. 10.0 Kgs	0.8 Kgs 10 kKgs..	-
2.	Barking Deer	1. Concentrate mesh. 2. Green grass	0.4 Kgs. 05.0 Kgs.	0.4 Kgs 05.0 Kgs..	--
3	Sambar Deer	1. Concentrate mesh. 2. Green grass	1.5 Kgs. 15.0 Kgs.	1.5 Kgs 15.0 Kgs..	-
4	Nilgai	1. Concentrate mesh. 2. Green grass	2.0 Kgs. 15.0 Kgs.	2.0 Kgs 15.0 Kgs..	-
5	Black Buck	1. Concentrate mesh. 2. Green grass	0.5 Kgs. 5.0 Kgs.	0.5 Kgs 5.0 Kgs..	-
6.	Royal Bengal Tiger	Goat Meat	12 Kgs.	12 Kgs.	Monday
7	Royal Bengal Tiger(White)	Goat Meat	12 Kgs.	12 Kgs.	Monday
8	Lioness	Goat Meat	12 Kgs.	12 Kgs.	Monday
9	Leopard	Goat Meat	04 Kgs.	04 Kgs.	Monday
10	Hyena	Goat Meat	02 Kgs.	02 Kgs.	Monday
11	Crocodile	Goat Meat	03 Kgs.	03 Kgs.	Monday
12	Small Palm Civet	1.Goat Meat 2.Milk 3. Rice	.3 00 gram . 0.750 ML 150 gram	.. 3 00 gram 0.750 ML 150 gram	Monday
13	Jackal	Goat Meat	1.5 Kgs.	1.5 Kgs.	Monday
14	Owlet Forest Spotted	Goat Meat	0.100 gram .	0.100 gram .	Monday
15	Himalayan Bear	1.Milk 2.Banana 3.Tuberous veg. 4.Cooked Rice 5.Seasonal Fruit. 6.Honey 7.Khiri	2.0 Ltrs. 2 Nos. 1.0 Kg. 1.25 Kgs. .5 Kgs. 50 MI. 3 Kgs.	2.0 Ltrs. 02 Nos. 1.0 Kg. 1.25 Kgs. .5 Kgs. 100 MI. 3 Kgs.	-
16	Sloth Bear	1. Milk 2. Jagri 3.Cooked Rice 4.Seasonal Fruit. 5.Honey 6. Khiri	1.0 Ltrs 100 gm. 1.0 Kg. 500 gram 50 gram 1.5 Kgs.	1.0 Ltrs. 100 gm. 1.0 Kg. 500 gram 50 gram 1.5 Kgs	-
17	Macaque Bonnet & Macaque	1. Ground nut 2. Soaked Gram 3. Banana 4. Seasonal fruits	.50 gram .050 gram 02 Nos. 150 gram	.050 gram 0.050 gram 02 Nos. 150 gram	-

	Rhesus	5. Vegetable 6. Cooked Rice in Milk	150 gram 100 gram	150 gram 100 gram	
18	Common Languor	1. Ground nut 2. Soaked Gram 3. Banana 4. Seasonal fruits 5. Vegetable 6. Cooked Rice in Milk	.050 gram 150 gram 02 Nos. 150 gram 150 gram 100 gram	.050 gram 0.150 gram 02 Nos. 150 gram 150 gram 100 gram	-
19	Porcupine	1. Ground Nut 2. Vegetable 3. Cooked Rice 4. Tuberos veg.	.150 Gram .100 gram .100 gram 200 gram	0.150 Gram 0.100 gram 0.100 gram 200 gram	-
20	Parrot (Per 10 Nos.)	1. Bazara 2. Barley 3. Gram Powder 4. Jpwar 5. Soaked gram 6. Seasonal fruit 7. Leafy vet.	50 gram 25 gram 25 gram 50 gram 50 gram 100 gram 150 gram	50 gram 25 gram 25 gram 50 gram 50 gram 100 gram 150 gram	-
21	EMU	1. Ground nut 2. Broiler finisher 3. Layer feed 4. Banana 5. Vegetable	100 gram 500 gram 500 gram 2 Nos. 1.000 Kg	100 gram 500 gram 500 gram 2 Nos. 1.000 Kg	-
22	Peacock	1. Paddy 2. Wheat 3. maize crushed 4. Ground nut 5. Jowar 6. Bajra 7. Leafy Veg.	250 gm 100 gm 25 gm 50 gm 25 gm 25 gm 250 gm.	250 gm 100 gm 25 gm 50 gm 25 gm 25 gm 250 gm.	-
23	Love Bird(10 Nos.)	1. Gram powder 2. Paddy 3. Kodo 4. Seasonal fruit 5. Leafy veg. 6. Onion	20 gm 20 gm 50 gm 200 gm 100 gm 10 gm	20 gm 20 gm 50 gm 200 gm 100 gm 10 gm	-
24	Cocktail (Per 10 Nos.)	1. Bajra 2. Barley 3. Gram Powder 4. Jowar 5. Soaked gram 6. Seasonal fruit 7. Leafy Veg.	10 gm 05 gm 05 gm 10 gm 10 gm 20gm 30 gm	10 gm 05 gm 05 gm 10 gm 10 gm 20gm 30 gm	-
25.	Budgerigar(Per 10 Nos.)	1. Bajara 2. Jowar 3. Koda 4. Leafy Veg.	50 gm 50 gm 100 gm 100 gm	50 gm 50 gm 100 gm 100 gm	-
26	Python	Live Chicken	400 to 500 gram Once in a 15 days	400 to 500 gram Once in a week	-
27	Ghariyal	Fresh fish	1.5 Kgs.	1.5 Kgs.	-
28	Pelican(Gray & Rosy)	Fresh fish	1.5 Kgs.	1.5 Kgs.	-
29	Adjutant Stork	Fresh fish	1.5 Kgs.	1.5 Kgs.	-
30	Star Tortoise				-

- Generally carnivores in zoo feed on boiled goat meat- as per requiremnt set by veterinary doctors and other staff . One day fast is scheduled on monday for animals .
- calcium and vitamin added in feed as an supplement.
- feeding in herbivores-(concentrate/ mash feed consist of maize, crushed,soyabean,soaked gram,wheat bran .linseed, oil cake ,salt etc. And green grass, leaves. Green grass is cultivated in the park itself and good quality of grass is given to animals with strict compliance to feeding of animals.

- MINERAL MIXTURE AND MINERAL SALT BRICK IS ALSO PROVIDED.
- FEEDING OF HIMALYAN BEAR- MILK WITH KHICHDI ADDED WITH HONEY,FISH.
- WATERMELLON IS PROVIDED IN SUMMER.
- LIVE CHICKEN ONCE A WEEK PROVIDED TO PYTHON.
- FRESH FISH IS PROVIDED TO MUGGAR AND GHARIYAL.

14- Vaccination Schedule of animals:

As per requirement

Sl.No.	Species	Disease vaccinated for	Name of the Vaccine and dosage/ quantity used	Periodicity	Remarks
Vaccination of Rabbis vaccine in Jackal.					

15. De-worming Schedule of animals

Sl.No.	Species	Drug used	Month
01	Spotted Deer	Tab: Albendazole	Per month
02	Black buck	Tab: Albendazole	Per month
03	Sambar	Tab: Albendazole	Per month
04	Barking Deer	Tab: Albendazole	Per month
05	Nilgai	Tab: Albendazole	Per month
06	Macaque Rhesus	Sup: Albendazole	Per month
07	Macaque Bonnet	Sup: Albendazole	Per month
08	Common Langur	Sup: Albendazole	Per month
09	Sloth Bear	Sup: Albendazole	Per month
10	Himalayan Bear	Sup: Albendazole	Per month
11	Lioness (Hybrid)	Sup: Albendazole	Per month
12	Asiatic Lioness	Sup: Albendazole	Per month
13	Royal Bengal Tiger (White)	Sup: Albendazole	Per month
14	Royal Bengal Tiger	Sup: Albendazole	Per month
15	Leopard	Sup: Albendazole	Per month
16	Jackal	Sup: Albendazole	Per month
17	Hyena	Sup: Albendazole	Per month
18	Birds	Sup: Albendazole	Per month

16 Disinfection Schedule

Sl.No.	Species	Type of enclosure	Disinfectant used and method	Frequency of disinfection
01	Royal Bengal Tiger (White)	Open enclosure/Cage	1. Cleaning of all the rooms with fresh water/forced tap water. 2. Washing of rooms/cubical with , floor cleaner (Micro gene, Cidex.& Phenyl. 3. Cutting of bushes inside of the Bada and arena around enclosure. 4. Spray of Bleaching powder in Drainage area, 5. Spray of insecticide with blower machine.	Daily Weekly Forthright at Rainy season & monthly in other seasons. Forthright during rainy season weekly. Rainy season

			6. Application of fly repellent/Insecticide (Quick Bayt) back side of enclosure.	frequently. As per requirement.
02	Royal Bengal Tiger	Open enclosure/Cage	<ol style="list-style-type: none"> 1. Cleaning of all the rooms with fresh water/forced tap water. 2. Washing of rooms/cubical with , floor cleaner (Micro gene, Cidex & Phenyl 3. Cutting of bushes inside of the Bada and arena around enclosure. 4. Spray of Bleaching powder in Drainage area, 5. Spray of insecticide with blower machine. 6. Application of fly repellent/Insecticide (Quick Bayt) back side of enclosure. 	<p>Daily</p> <p>Weekly</p> <p>Forthright at Rainy season & monthly in other seasons.</p> <p>Forthright during rainy season weekly. Rainy season frequently.</p> <p>As per requirement</p>
03	Jackal	Closed enclosure	<ol style="list-style-type: none"> 1- Cleaning of all the rooms with fresh water/forced tap water. 2. Washing of rooms/cubical with , floor cleaner (Micro gene, Cidex & Phenyl. 3. Cutting of bushes inside of the Bada and arena around enclosure. 4. Spray of Bleaching powder in Drainage area, 5. Spray of insecticide with blower machine. 6. Application of fly repellent/Insecticide (Quick Bayt) back side of enclosure. 	<p>Daily</p> <p>Weekly</p> <p>Forthright at Rainy season & monthly in other seasons.</p> <p>Forthright during rainy season weekly. Rainy season frequently.</p> <p>As per requirement</p>
04	Hyena	Open enclosure	<ol style="list-style-type: none"> 1. Cleaning of enclosure. 2. Cleaning of Moat. 3. Bush cutting 	<p>Weekly</p> <p>Quarterly In Rainy season fortnightly and as per requirement.</p>
05	Lioness	Open enclosure	<ol style="list-style-type: none"> 1- Cleaning of all the rooms with fresh water/forced tap water. 2- Washing of rooms/cubical with , floor cleaner (Micro gene, Cidex & Phenyl. 3- Cutting of bushes in- 	<p>Daily</p> <p>Weekly</p> <p>Forthright at Rainy season</p>

			<p>side of the Bada and arena around enclosure.</p> <p>4- Spray of Bleaching powder in Drainage area,</p> <p>5- Spray of insecticide with blower machine.</p> <p>6- Application of fly repellent/Insecticide (Quick Bayt) back side of enclosure</p>	<p>& monthly in other seasons.</p> <p>Forthright during rainy season weekly.</p> <p>Rainy season frequently.</p> <p>As per requirement</p>
06	Leopard	Close enclosures.	<p>1 Cleaning of all the rooms with fresh water/forced tap water.</p> <p>2- Washing of rooms/cubical with , floor cleaner (Micro gene, Cidex & Phenyl.</p> <p>3- Spray of Bleaching powder in Drainage area,</p> <p>4- Spray of insecticide with blower machine.</p> <p>5- Application of fly repellent/Insecticide (Quick Bayt) back side of enclosure.</p>	<p>Daily</p> <p>Weekly</p> <p>Forthright during rainy season weekly.</p> <p>Rainy season frequently.</p> <p>As per requirement</p>
07	Macaque Rhesus	Closed cage.	<p>1- Cleaning of all the rooms with fresh water/forced tap water.</p> <p>2. Washing of rooms/cubical with , floor cleaner (Micro gene, Cidex & Phenyl.</p>	<p>Daily</p> <p>Weekly</p>
08	Macaque Bonnet	Closed cage	<p>1- Cleaning of all the rooms with fresh water/forced tap water.</p> <p>2. Washing of rooms/cubical with , floor cleaner (Micro gene, Cidex & Phenyl.</p>	<p>Daily</p> <p>Weekly</p>
09	Common Langur	Closed cage	<p>1- Cleaning of all the rooms with fresh water/forced tap water.</p> <p>2. Washing of rooms/cubical with , floor cleaner (Micro gene, Cidex & Phenyl.</p>	<p>Daily</p> <p>Weekly</p>
10	Sloth Bear	Open enclosure.	<p>1- Cleaning of all the rooms with fresh water/forced tap water.</p> <p>2- Washing of rooms/cubical with , floor cleaner (Micro gene, Cidex & Phenyl.</p> <p>3- Cutting of bushes inside of the Bada and arena around</p>	<p>Daily</p> <p>Weekly</p> <p>Forthright at Rainy season & monthly in</p>

			enclosure. 4- Spray of Bleaching powder in Drainage area, 5- Spray of insecticide with blower machine. 6- Cleaning of Moat.	other seasons. Forthright during rainy season weekly. Rainy season frequently. Quarterly.
11	Himalayan Bear	Open enclosure.	1. Cleaning of all the rooms with fresh water/forced tap water. 2- Washing of rooms/cubical with , floor cleaner (Micro gene, Cidex & Phenyl. 3. Cutting of bushes inside of the Bada and arena around enclosure. 4. Spray of Bleaching powder in Drainage area, 5. Spray of insecticide with blower machine. 6. Cleaning of Moat.	Daily Weekly Forthright at Rainy season & monthly in other seasons. Forthright during rainy season weekly. Rainy season frequently. Quarterly.
12	Spotted Deer	Open enclosure.	1. Cleaning of feeding tray 2. Application of lime in feeding tray. 3. Application of lime inside drinking water tank 4. Removal of litter from enclosure. 5. Cleaning of moat	Daily Monthly. Monthly Half Yearly. Quarterly and as per requirement
13	Black Buck	Open enclosure.	1. Cleaning of feeding tray 2. Application of lime in feeding tray. 3. Application of lime inside drinking water tank 4. Removal of litter from enclosure. 5. Cleaning of moat	Daily Monthly. Monthly Half Yearly. Quarterly and as per requirement
14	Deer Sambar	Open enclosure.	1. Cleaning of feeding tray 2. Application of lime in feeding tray. 3. Application of lime inside drinking water tank 4. Removal of litter from enclosure.	Daily Monthly. Monthly Half Yearly.

			5. Cleaning of moat	Quarterly and as per requirement
15	Nilgai	Open enclosure.	<ol style="list-style-type: none"> 1. Cleaning of feeding tray 2. Application of lime in feeding tray. 3. Application of lime inside drinking water tank 4. Removal of litter from enclosure. 5. Cleaning of moat 	<p>Daily</p> <p>Monthly.</p> <p>Monthly</p> <p>Half Yearly.</p> <p>Quarterly and as per requirement</p>
16	Barking Deer	Open enclosure.	<ol style="list-style-type: none"> 1. Cleaning of feeding tray 2. Application of lime in feeding tray. 3. Removal of litter from enclosure. 	<p>Daily</p> <p>Monthly.</p> <p>Half Yearly.</p>
17	Ghariyal	Open enclosure	<ol style="list-style-type: none"> 1. Cleaning of enclosure. 2. Cleaning of moat 	<p>Monthly & as per requirement. Continue supply of Tap water /Fresh water in moat and continue water drain out.</p>
18	Crocodile	Open enclosure	<ol style="list-style-type: none"> 1. Cleaning of enclosure. 2. Cleaning of moat 	<p>Monthly & as per requirement. Continue supply of Tap water /Fresh water in moat and continue water drain out.</p>
19	Birds	Close Cages	<ol style="list-style-type: none"> 1- Cleaning of all the rooms with fresh water. 2. Spraying of disinfectant with turmeric powder. 	<p>Daily</p> <p>Fortnightly.</p>
20	Python	Close Cage.	<ol style="list-style-type: none"> 1- Cleaning of all the rooms with fresh water. 2. Spraying of disinfectant with .bleaching powder. 	<p>Daily</p> <p>Fortnightly.</p>
21	Turtle	Close Cage.	<ol style="list-style-type: none"> 1. Cleaning of cage 2. Cleaning of water tank 	<p>Weekly</p> <p>Quarterly</p>
22	EMU	Open enclosure	<ol style="list-style-type: none"> 1. Cleaning of enclosure. 2- Removal of unwanted vegetation 	<p>Weekly</p> <p>In rainy season fortnightly and as per requirement.</p>

17 Health Check-up of employees for zoonotic diseases

Sl.No.	Name	Designation	Date of Health Check up	Findings of Health Check up
01.	Dr. G.K. Dubey	Asstt. Gen. Manager	Every Month	OK
02	Dr. N.K. Jain	Chief Vet. Officer	Every Month	OK
03.	Nawal Das	Zoo Asstt.	Every Month	OK
04	Yallaiah	Zoo Asstt.	Every Month	OK
05	K. Narsaya	H.C.Z.A.	Every Month	OK
06.	Yogesh Kumar Chandrakar	Zoo attd.	Every Month	OK
07	Mohan	Animal attd. (PRW)	Three Months	OK
09.	Moharm Baig	Animal attd. (PRW)	Three Months	OK
10	Mansu Ram	Animal attd. (PRW)	Three Months	OK
11	IP Ram	Animal attd. (PRW)	Three Months	OK
12	Arjun Lal	Animal attd. (PRW)	Three Months	OK
13	Dau Lal	Animal attd. (PRW)	Three Months	OK
14	Gopal Yadav	Animal attd. (PRW)	Three Months	OK
15	Gopal Vishwakarma	Animal attd. (PRW)	Three Months	OK
16	Devendra Sahu	Animal attd. (PRW)	Three Months	OK
17	Komal Singh Bharti	Animal attd. (PRW)	Three Months	OK
18	Hiraman Patil	Vet. Asstt/Attd.(PRW)	Three Months	OK
19	Mela Ram Sahu	Vet. Asstt/Attd.(PRW)	Three Months	OK
20	Indrajeet	Animal attd. (PRW)	Three Months	OK
21	Preet Kumar	Animal attd. (PRW)	Three Months	OK

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

1. The stand-off barrier has been provided at exhibit for Python, Turtle, Gharial, Himalayan Black Bear.
2. The large size of water body has been provided to python enclosure.
3. Painting of wall and grills of all the enclosures have been done.
4. The lot of fabrication works inside of zoo for strengthening of Tiger enclosure, Nilgai enclosure, Monkey cage & birds section has been done.
- 5.. Repairing of fallen wall of Ghariyal enclosure has been done immediately. .
- 6.. Fabrication & fixing of stand Barrier in front of Emu enclosure have been done.
7. To protect the wild animals from severe heat and heavy rain the additional projected roof outside of monkey and birds cages have been constructed .

19 Education and Awareness programmes during the year:

Efforts are being made for conservation of wildlife on global level. Laws are also being enacted for its protection. But the protection of wildlife is not just a matter of legislation; it requires creation of awareness in the mind of the masses about the role and importance of wildlife. Being a wildlife concern, Maitri Baag Zoo has always been making sincere efforts to generate the feeling of compassion towards wildlife in the mind of masses by conducting educational campaign and programme from time to time for the voiceless too.

Educational programme and conservation awareness activities have always been given priority in our park. In this direction following steps have been taken during this year.

20 Important Events and happenings:

WORLD ENVIRONMENT DAY WAS CELEBRATED WITH GREAT ZEAL AND ENTHUSIASM ON 05 JUNE 2018 WITH PLANTATION OF FRUIT WEARING TREE SAPLINGS IN VAN VIHAR BY SENIOR OFFICERS OF BHILAI STEEL PLANT THE CHILDREN OF BSP SCHOOL HAVE A ROUND OF THE PARK FOR AWARENESS OF FLORA AND FAUNA.

- AS PER GUIDELINES OF CENTRAL ZOO AUTHORITY, NEW DELHI, CELEBRATION OF WILDLIFE WEEK WAS CELEBRATED FROM 01/10/2017 TO 07/10/2017 FOR ACHIEVING NATIONAL EFFORT TOWARDS CONSERVATION AND EDUCATION AWARENESS.
- ON THIS OCCASION, 715 STUDENTS OF BSP SCHOOL & NON BSP SCHOOL STUDENTS PARTICIPATED.
- ON THIS OCCASION, DEBATE ON ROLE OF ZOO IN CONSERVATION OF WILD ANIMAL AND DRAWING COMPETITION FOR WILD ANIMALS AND FORREST WAS HELD AMONGST STUDENTS

OF CLASS 01 TO 05 IN PRIMARY WING AND CLASS 06 TO 08 FOR MIDDLE SCHOOL AND CLASS 09 TO 12 IN HIGH SCHOOL GROUP BOTH FOR BSP AND NON BSP SCHOOL.

- THE CLOSING CEREMONY WAS CONDUCTED ON 08/10/2017 THE PROGRAMME WAS INAUGURATED BY SHRI PREM KUMAR (C.F. DURG) CHIEF GUEST. STUDENTS WERE BRIEFED ABOUT WILD ANIMALS OF PARK.
- AS ZOO IS A LIVING LABORATORY, THEY WERE GIVEN KNOWLEDGE OF VARIOUS TREES AND THEIR IMPORTANCE, VARIOUS ANIMALS / BIRDS - THEIR BEHAVIOR AND FEEDING HABITS.
- DRAWING COMPETITION STARTED AT 10.30 AM WITH THE THEME "WILD ANIMAL WITH THEIR HABITAT", DEBATE Z COMPETITION STARTED AT 11.45 AM AND THIS WAS CONDUCTED BY , ASSTT. MGR (EDUCATION).
- PRIZES WERE DISTRIBUTED BY CHIEF GUEST SHRI PREM KUMAR (C.F. DURG) WITH SUPPORT OF DR G.K.DUBEY, AGM(MAITRI BAAG-HORT) AND DR.N.K.JAIN CHIEF VET.OFFICER (MAITRI BAAG-HORT).

21 Seasonal special arrangements for upkeep of animals:

1. In Hot summer the sprinkler fountain has been provided to cool in the enclosure of Spotted deer .black buck and sambar Enclosure.
- 2 The water sprinkler has been installed near monkey cages, bird's cages, sloth bear cage, white and royal Bengal tiger enclosure.
- 3 To prevent from very cold in winter season the sigri /Alav (Hot fire Pot) has been provided to Royal Bengal and White tigers.

22 Research Work carried out and publications :

The training given to six batch of internees of Anjora Veterinary collage Durg
The research work done by research scholar of Anjora Veterinary collage Durg

23 Conservation Breeding Programme of the Zoo:

Successfully breeding of white tiger has been done .

24 Animal acquisition / transfer / exchange during the year:

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

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

Sl.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
	-	-	-	-	-	-

26 Annual Inventory of animals

Form – II
[See Rule 11(1)]
Part – A

Inventory Report for the Year :

Endangered Species*

S. No.	Animal Name	Scientific name	Opening Stock as on				Births			Acquisition			Disposal			Death			Closing Stock as on					
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T		
1	Owlet Forest Spotted	Heteroglaucus blewitti	0	1	1	2	0	0	0	0	0	0							0	1	1	2		
2	Peafowl ?	Pavo cristatus	2	6	0	8												1	2	-	1	4	-	5
3	Bear Himalayan Black	Ursus thibetanus	1	1	0	2															1	1	0	2
4	Bear Sloth	Melursus ursinus	1	1	0	2															1	1	0	2
5	Black Buck (Krishna Mrig)	Antilocapra cervicapra	3	4	7	14	-	-	3												3	4	10	17
6	Civet Common Palm-Cat Toddy	Paradoxurus hermaphroditus	2	2	1	5												1	-	-	1	2	1	04
7	Jackal	Canis aureus	7	1	0	8															7	1	0	8
8	Langur Common	Semnopithecus entellus	0	2	0	2				1	-	-						-	1	-	1	1	-	02
9	Leopard(Panther)	Panthera Pardus	1	1	0	2															1	1	0	2
10	Lion Indian	Panthera leo persica	0	1	0	1															0	1	0	1
11	Macaque Bonnet	Macaca radiata	4	1	0	5															4	1	0	5
12	Macaque Rhesus	Macaca mulatta	3	4	7	14												2	1	-	2	2	5	11
13	Tiger Bengal	Panthera tigris tigris	2	1	0	3															2	1	0	3
14	Tiger Bengal(White)	Panthera tigris tigris	5	3	0	8															5	3	0	8
15	Crocodile Long snouted	Gavialis gangeticus(Gharial)	0	0	4	4															0	0	4	4
16	Crocodile Marsh(Muggar)	Crocodylus palustris	0	0	1	1															0	0	1	1
17	Python Indian - Rock	Python molurus	2	2	2	6															2	2	2	6

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

Part – B

Other than Endangered Species

S. No.	Animal Name	Scientific name	Opening Stock as on				Births			Acquisition			Disposal			Death			Closing Stock as on				
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T	
18	Parakeet Alexandrine	Pittacula eupatria	4	3	1	8														4	3	1	8
19	Parakeet Rose Ring	Psittacula krameri	13	10	16	39														13	10	16	39
20	Pelican Rosy/White	Pelecanus onocrotalus	2	5	3	10														2	5	3	10
21	Pelican Spot Billed/Grey	Pelecanus philippensis	1	1	0	2														1	1	0	2
22	Stock Adjutant	Leptoptilos dubius	0	0	1	1														0	0	1	1
23	Deer Barking(Ka kar)	Muntiacus muntjak	1	0	0	1														1	0	0	1
24	Deer Sambar	Rusa unicolor	13	23	6	42	-	-	1											13	23	07	43
25	Deer Spotted (Chital)	Axis axis	24	52	41	117														24	52	41	117
26	Hyena Stripped	Hyaena hyaena	3	1	0	4								1	-	-				2	1	-	03
27	Lion Hybrid	Panthera leo	0	1	0	1														0	1	0	1
28	Nilgai-Blue Bull	Boselaphus tragocamelus	4	2	0	6	-	-	2											4	2	2	08
29	Porcupine Indian	Hystrix indica	0	1	0	1														0	1	0	1
30	Tortoise	Geochelone	1	1	0	2														1	1	0	2
31	Budgeriger	Melopsittacus undulates	4	4	0	8														4	4	0	8
32	Cockatiel	Nymphicus hollandicus	16	16	10	42														16	16	10	42
33	Emu	Dromalusa novaehollandiae	1	2	0	3														1	2	0	3
34	Love Birds	Agapornis	2	2	6	10														-	1	-	09

27 - Mortality of animals:

Sl.No.	Animal Name (with individual identification mark, if any)	Scientific Name	Sex	Date of Death	Reason of Death as per the Post-mortem report
01	Love Bird	-	Female	15.04.2017	Enteritis
02	Macaque Rhesus	-	Male	22.04.2017	Hepatitis
03	Peafowl	-	Female	28.04.2017	Peritonitis
04	Macaque Rhesus		Female	26.05.2017	Old age senility
05.	Common Langur	-	Female	25.06.2017	Old age senility
06	Peafowl	-	Female	11.08.2017	Necrosis of oesophagus and gizzard.
07	Peafowl	-	Male	05.09.2017	Cirrhosis of liver.
08	Hyena Stripped	-	Male	21.10.2017	Old age senility
09	Macaque Rhesus	-	Male	21.10.2017	Old age senility
10	Toddy	-	Male	20.01.2018	Old age senility

28 Compliance with conditions stipulated by the Central Zoo Authority:

Sr. No	Norm No. under RZR, 2009	Condition Stipulated	Time Period to Comply	Since when pending	Status with regard to compliance of the conditions
1.	10.1(e)	The Zoo has been housing the domestic ducks against the Violation of Recognition of Zoo Rules, 1992" They should be removed immediately.	With immediate effect		The domestic ducks have been removed immediately
2	10.3(1)	The zoo should submit its Master Plan for the long term development of the Zoo to the CTA for its approval.	One month		The Master plan has been submitted
3	10.4(9)	The stand-off barrier as prescribe by CZA should be provided at exhibit for Python ,Turtle, Pelican ,Gharial , Himalayan Black Beer.	Six months		The stand-off barrier has been provided at exhibit for Python ,Turtle, Gharial. Himalayan Black Beer. The fabrication and fixing of grills are under progress for , Pelican ..
6. Veterinary & infrastructure facilities:					
4	10.6(3)	The zoo should have Post Mortem room located at an appropriate Place	Three months		The proposal has been submitted to civil section for construction of Post Mortem room
9.Acquisition and Breeding animals:					
5	10.9(4)	The single adjutant stork housed at the zoo be paired	Six months		
6.	10.9(9)	Zoo has been housing spotted deer beyond the carrying capacity of the enclosures. The same should be reduced to 20 by adopting the immediate population control measures or transferring to other recognized zoo.	Six months		
7	10.9(8)	The zoo has failed to maintain to individual animal History sheet for each animal. Incase of Herbivorous, the herd sheet is also not maintain.	With immediate effect.		
8	10.9(12)	The zoo has been housing exotic birds along with the native Indian birds against the recognition of the zoo rules. The should be separately housed.	With immediate effect.		

S.N.	Norm No.	Observation/recommendation of the Evaluating officer	Time Required to comply	Remark
1. General Requirements:				
1	10.1(1)	Water quality in wet moat of Sloth bear, spotted deer, Lion, Sambar and Black buck needs to be improved.	With immediately	Water quality and Moat cleaning work has been done.
3- Animal housing, display of animals and animal enclosures:				
2	10.4(2)	In view of the size of the animal and number of animals housed, water body of-large size. should be provided in enclosure for Python.	With immediate effect	Large water body has been provided inside of enclosure.
3	10.4(2)	Area of the enclosure for Rhesus-macaque does not meet the minimum area prescribed by the CZA. The same should be modified accordingly, after obtaining prior approval from CZA.	One year	Proposal prepared as per approved Master Plan.
4	10.4(6)	The exhibits of following animals need species specific environmental enrichment: a.- Toddy cat: to provide, wooden logs b. Gharial : to provide; with enough sand for basking.	With immediate effect	a)Wooden log has been provided in toddy cat cage. b) Gharial has been provided enough sand for basking.
5. Upkeep and healthcare of animals				
5	10.5(2)	The meat room should be made fly proof	With immediate effect	The meat room has been made fly proof.
6	10.5(2)	The feed store needs to be cleaned and cleaned regularly and should be kept rodent proof. The food should be stored in container with proper labelling and stock should be maintained on day to day basis	With immediate effect	The feed store has been keeping cleaned regularly and has been kept rodent proof. The food has been stored in container with proper labelling and stock has been maintained day to day basis
7	10.5(4)	All the aviaries in the zoo should be made rodent proof	Six months	Most of the aviaries made rodent proof.
8	10.5(5)	Waste lying outside the White tiger exhibit should be removed	With immediate effect	Waste lying outside the White tiger exhibit has been removed
9	10.5(5)	Open drain in, front of enclosure for Macaques, Small cats and Aviaries should be covered	Six months	
6. Veterinary and infrastructure facilities:				
10	10.6(1)	The animal Hospital should have proper OT table.	Six months	The OT table shall be provided by BSP JLN Hospital .
11	10.6(3)	The zoo should procure a blow pipe for tranquilization of animals for treatment.	Six months	Old one is available in deptt. For new one the proposal has to be initiated.
7. Post-mortem and disposal of carcass of animals :				
12	10.7(4)	The zoo should dispose the	Six months	Daily burning of

		carcasses of dead animals as well as leftover meat and other such waste in such a manner that does not have any adverse impact on the hygiene and cleanliness of the zoo.		left out meat .
12. Visitor facilities				
13	10.12(3)	The zoo should make arrangement for providing access to the handicapped persons (Divyang) for viewing of wild animals at various animal enclosures.	Six Months	The zoo has been provided to the handicapped persons (Divyang) for viewing of wild animals at various animal enclosures.
14	-	For the safety of animals and visitors and to Address Disaster Management requirement, the zoo may have provision of public address system, CCTV surveillance as well as walkie-talkie to interact with staff of the zoo .		The Loud speaker has been installed inside of the zoo for emergency announcement. The proposal for installation of CC TV have already been initiated.

29 List of free living wild animals within the zoo premises

- a. Mammals - -
- b. Birds - Parrots
- c. Reptiles - Snake



THANK YOU