



स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED
भिलाई इस्पात संयंत्र
BHILAI STEEL PLANT

No. DGM(Hort)/MBZ/02/2021/ 33

Bhilai, Dt. 02.02.2021

To,
Member Secretary,
Central Zoo Authority,
Ministry of Environment, Forest & Climate Change
B-1 Wing, 6th Floor,
Paryaran Bhawan,
CGO Complex, Lodhi Road,
New Delhi-110003

DPA
Please for scrutiny
P
12/21

Sub: Submission of Annual Report of Maitri Baag for the Year of 2019-2020.

Respected Sir,

Please find enclosed herewith Annual report of Maitri Baag for the year of 2019-2020. Bhilai Steel Plant.

Thanking you.

Yours Faithfully
For SAIL, Bhilai Steel Plant

(Dr. N.K. Jain)
Chief Vet. Officer
I/c. (Maitri Baag Zoo)

Maitri Baag Zoological Park

Annual Report for the year
2019-20



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1. REPORT OF OFFICER-IN-CHARGE:

The Maitri Baag zoological park (MBZ) entered into 47 years 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 August'2021 subject to the compliance of the various directives under the recognition of zoo rules 2009.letter no .19-34/-CZA(vol.iv)/149(BKG)/742/2017 dated 05.04 2017.

- During this year 01 No. of visitor shed has been made inside zoo.
 - During summer season sprinkler have installed for the cooling of various enclosures.
 - During this year, 742996 nos of visitors have visited in the park.
 - Total number of animals/birds are 392 as on 31.03.2020.
 - 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 in the python cage.
 - Evaluation and monitoring officer, CZA has been visited at Maitri Baag . Bhilai on 29.01.2020 and after inspection of various enclosures interacted with the officials and staff of Maitri Baag.
 - The technical committee of the CZA has decided to grant conditional renewal of recognition as a "Medium Category Zoo" for a period upto 21st August'2021 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 ZO:

- 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

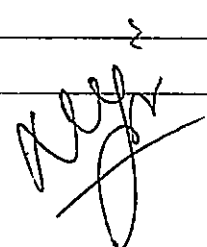
- Objective of the zoo is in line with national zoo policy, which is to complement and strengthen the national efforts in conservation of the rich biodiversity of the country, particularly the wild fauna.
- Supporting the conservation of endangered species, through coordinated breeding under ex-situ 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

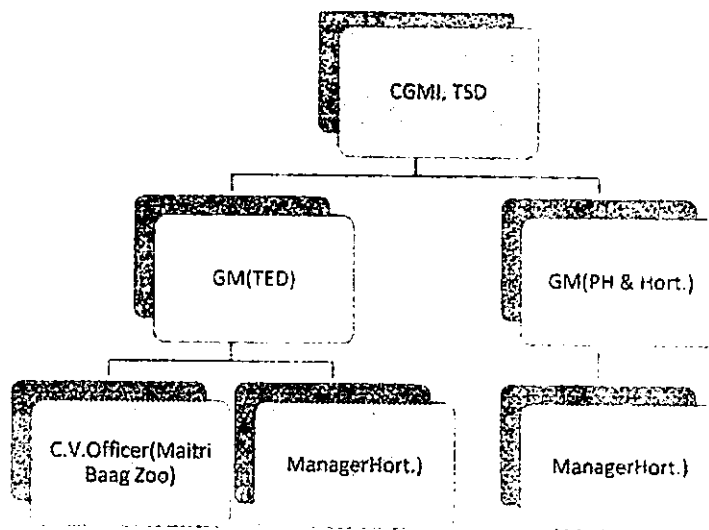
S.No.	Particulars	Information
Basic Information about the Zoo:		
1	Name of the Zoo	Maitri Baag Zoological Park
2	Year of Establishment	1972
3	Address of the Zoo	Maroda Bhilai, Distt. DURG(C.G.)
4	State	Chhattisgarh
5	Telephone Number	0788-2858331
6	Fax Number	N.A.
7	E-mail address	drqkdubey@sail-bhilaisteel.com nkjain3@sail-bhilaisteel.com
8	Website	
9	Distance from nearest	Airport: 40 K.M. Railway Station: 08 K.M. Bus Stand: 08 K.M.
10	Recognition Valid upto (Date)	19 th August'2021.



S.No.	Particulars	Information
11	Category of zoo	Medium
12	Area (in Hectares)	16.86 Hectares.
13	Number of the visitors (Financial Year)	Total Indian : Total Foreigners : Total Visitors: 742996
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, 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	Hiraman Patil & Mela Ram Sahu
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	Gen. Manager	01	01
02	Chief Veterinary Officer(Maitri Baag Zoo)	01	01
03	Manager(Hort)	01	01
04	Manager(Hort)	01	01
05.	Field Asstt.	07	07
06.	Zoo Asstt.	02	02
07.	Zoo Attendants /Field attd.	15	04
08	Animal Keeper (PRWs)	12	10
09	Vet. Asstt/Attd. (PRWs)	02	02
10	Garden care/Attd.(PRWs)	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	00
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, GM(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	Jersy Wildlife conservation International Training Centre, Jersy (U.K.)
		Diploma in endangered specs management	1995	University of Cant , (U.K.)
		Zoo Education training(South Asian Zoo Education	11.08.2000	Central Zoo KMTNC,SARRC Countries at Kathmandu (Nepal)

				Zoological Dahnwal, 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 scvav 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 Asstt.	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, Field Asstt	Animal keeper Management of Carnivorous in Captivity	16.12.2011 to 29.12.2011	Nandan Kanan Zoo, Bhubneshwar, (Odisha)
		National workshop for zoo Biologist.	25.06-2013 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 Zoo from all sources for the of 01.04.19 to 31.03.20 was Rs. 2.08 Crore.

Total expenditure of Maitri Baag Zoo during the period 01.04.19 to 31.03.2020 was Rs. 7.12 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.	0.8 Kgs.	0.8 Kgs	-
		2. Green grass	10.0 Kgs	10 kKgs.	-
2.	Barking Deer	1. Concentrate mesh.	0.4 Kgs.	0.4 Kgs	-
		2. Green grass	05.0 Kgs.	05.0 Kgs..	-
3	Sambar Deer	1. Concentrate mesh.	1.5 Kgs.	1.5 Kgs	-
		2. Green grass	15.0 Kgs.	15.0 Kgs.	-
4	Nilgai	1. Concentrate mesh.	2.0 Kgs	2.0 Kgs	-
		2. Green grass	15.0 Kgs.	15.0 Kgs..	-
5	Black Buck	1. Concentrate mesh.	0.5 Kgs	0.5 Kgs	-
		2. Green grass	5.0 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	3.00 gram	3.00 gram	Monday
		2. Milk	0.750 ML	0.750 ML	
		3. Rice	150 gram	150 gram	
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	2.0 Ltrs.	2.0 Ltrs	
		2. Banana	2 Nos	02 Nos.	
		3. Tuberous veg.	1.0 Kg.	1.0 Kg	
		4. Cooked Rice	1.25 Kgs	1.25 Kgs.	
		5. Seasonal Fruit.	5 Kgs.	.5 Kgs	
		6. Honey	50 ML	100 ML	
		7. Khiri	3 Kgs	3 Kgs	
16	Sloth Bear	1. Milk	1.0 Ltrs	1.0 Ltrs	
		2. Jagri	100 gm	100 gm	
		3. Cooked Rice	1.0 Kg	1.0 Kg.	
		4. Seasonal Fruit.	500 gram	500 gram	
		5. Honev	50 aram	50 aram	

		6. Khir	1.5 Kgs.	1.5 Kgs
17	Macaque Bonnet & Macaque Rhesus	1. Ground nut 2. Soaked Gram 3. Banana 4. Seasonal fruits 5. Vegetable 6. Cooked Rice in Milk	50 gram 050 gram 02 Nos. 150 gram 150 gram 100 gram	050 gram 0.050 gram 02 Nos. 150 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. Jowar 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 requirement set by veterinary doctors and other staff. One day fast is scheduled on Monday for animals.
- calcium and vitamin added in feed as a 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	<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. 	<p>Daily</p> <p>Weekly</p> <p>Forthright at Rainy season & monthly in other seasons.</p>



			<ol style="list-style-type: none"> 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>Forthright during rainy season weekly.</p> <p>Rainy season frequently.</p> <p>As per requirement.</p>
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.</p> <p>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 	<p>Daily</p>



			<ul style="list-style-type: none"> 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>Weekly</p> <p>Forthright at Rainy season & 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.	<ul 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- Spray of Bleaching powder in Drainage area, 4- Spray of insecticide with blower machine. 5- Application of fly repellent/Insecticide (Quick Bayt) back side of enclosure 	<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.	<ul 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. 	<p>Daily</p> <p>Weekly</p>
08	Macaque Bonnet	Closed cage	<ul 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. 	<p>Daily</p> <p>Weekly</p>
09	Common Langur	Closed cage	<ul 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. 	<p>Daily</p> <p>Weekly</p>
10	Sloth Bear	Open enclosure.	<ul style="list-style-type: none"> 1- Cleaning of all the rooms with fresh water/forced tap water 2- Washing of 	<p>Daily</p> <p>Weekly</p>

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

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			feeding tray.	
			3. Application of lime inside drinking water tank	Monthly
			4. Removal of litter from enclosure.	Half Yearly.
			5. Cleaning of moat	Quarterly and as per requirement
15	Nilgai	Open enclosure.	1. Cleaning of feeding tray	Daily
			2. Application of lime in feeding tray.	Monthly.
			3. Application of lime inside drinking water tank	Monthly
			4. Removal of litter from enclosure	Half Yearly.
			5. Cleaning of moat	Quarterly and as per requirement
16	Barking Deer	Open enclosure.	1. Cleaning of feeding tray	Daily
			2. Application of lime in feeding tray.	Monthly.
			3. Removal of litter from enclosure.	Half Yearly.
17	Ghariyal	Open enclosure	1. Cleaning of enclosure	Monthly & as per requirement.
			2. Cleaning of moat	Continue supply of Tap water /Fresh water in moat and continue water drain out.
18	Crocodile	Open enclosure	1. Cleaning of enclosure.	Monthly & as per requirement.
			2. Cleaning of moat	Continue supply of Tap water /Fresh water in moat and continue water drain out.
19	Birds	Close Cages	1- Cleaning of all the rooms with fresh water.	Daily
			2. Spraying of disinfectant with turmeric powder.	Fortnightly.
20	Python	Close Cage.	1- Cleaning of all the rooms with fresh water.	Daily
			2. Spraying of disinfectant with bleaching powder.	Fortnightly.
21	Turtle	Close Cage.	1. Cleaning of cage	Weekly
			2. Cleaning of water tank	Quarterly
22	EMU	Open enclosure	1. Cleaning of enclosure.	Weekly
			2- Removal of unwanted vegetation	In rainy season

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 Lai	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 sign /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

SI.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

						Place of rehabilitation in their habitat	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	Heteroglaus 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(Mugil)	Crocodylus	0	0	1	1													0	0	1	1

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17	Python Indian Rock	Python molurus	2	2	2	6												2	2	2	6
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*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	M	F	U	T	
18	Parakeet Alexandrine	Pistaculapatria	4	3	1	8															4	3	1	8		
19	Parakeet Rose Ring	Psittaculakrameri	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	Dromalusk novaehollandiae	1	2	0	3															1	2	0	3		
34	Love Birds	Agapornis	2	2	6	10															2	2	6	10		

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

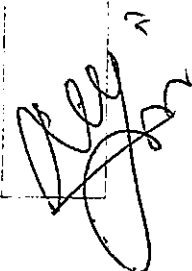
07	Peafowl	-	Male	05.09.2017	oesophagus and gizzard.
08	Hyena Stripped	-	Male	21.10.2017	Cirrhosis of liver.
09	Macaque Rhesus	-	Male	21.10.2017	Old age senility Old age senility
10	Toddy cat(Civet)	-	Male	20.01.2018	Old age senility

28 Compliance with conditions stipulated by the Central Zoo Authority:

Sl.No.	Norm No. Under RZR	Violation of the Recognition of Zoo Rules, 2009	Compliance	Remark
Rules 8. Renewal of recognition:				
01	8(1) (A)	The zoo management did not file application in Form-I for renewal of recognition, to continue its operation for period beyond March'21, 2020	A. The Zoo management submitted the application in form-I for renewal of recognition to continue its operation for period beyond March'21, 2020. Please refer No. Letter No. File No. 7-10/2020-CZA(Part-I)(1/2446)2020) dated 25 th August'2020. As per mentioned letter CZA, New Delhi granted the recognition upto 19 th August'2021(Annexure-I). B. For further recognition beyond 19 th August'2021. Management is submitting application form-I with renewal fee of Rs.10,000.00 in annexure - at page No.....	
Rule 10. Standards and norms for recognition:				
1. General requirements:				
02	10.1(7)	Solid waste management in the Zoo is poor. During evaluation, plastic bags found in enclosure housing Sloth Bear.	A. For solid waste management in the zoo a contract of HSCL PRWs worker has been awarded for the cleaning of solid waste Management and maintenance of Maitri Baag. B. For complete solid waste management of Bhilai Township Management is establishing Newly SRM centre which are for away from zoo. C. Any thing external found in enclosure has been removed immediately, we have taken all the precaution to ensure such type incidence does not repeat in future. D. Installed the awareness board for "No Polythene "	
03	10.1(7)	Sewage drains in the zoo are not covered.	Sewage drain in the zoo has been covered.	
2. Administrative and Staffing pattern:				
04	10.2(2)	Scientific and technical staff as	The following scientific and technical staff are posted is as	

		Recognition of Zoo rules. 2009 is not deployed in the zoo.	1) Curator, post – 01 posted. 2) Veterinarian – 01 posted. 3) Education Officer- 01 posted 4) Biologist- proposal under process for recruitment.
3. Development and Planning:			
05.	10.3(1) & 10.3(3)	The Master Plan for long-term development of the zoo is not submitted to the Central Zoo Authority(CZA) for approval based on Layout approved by the CA. Further it is stated that sanction of Plan is pending with the zoo Operator. This amounts to failure of the zoo management to obtain prior approval of the ZooOperator while submission of Plan for approval of the CZA.	The Master plan is under approval of the SAIL Management.
4. Animal housing, display of animals and animal enclosures:			
06	10.4(2)	Most of the display of captive animals in the zoo is not as per norms prescribed by the CZA. This is compromising welfare of captive animals and their display in naturalistic enclosures.	Some of the captive animals are kept in naturalistic enclosure as per norms of CZA. Major modification and construction work of enclosures have taken under master plan.
07	10.4(6)	Species-specific enrichment of animal enclosures in the zoo is not appropriate with specific reference to enclosure for Gharial.	Sand provided inside the ghariyal enclosure.
5. Upkeep and healthcare of animals:			
08.	10.5(2)	The meat-processing room does not have fly-proof arrangement and gloves are not provided to meat handlers.	All the windows and opening of meat-processing room has been covered with fly proof steel net.
09.	10.5(2)	Feed Store for captive animals is highly unhygienic.	Existing store has been cleared and renovated and one new store room is proposed for construction.
6. Veterinary and infrastructure facilities:			

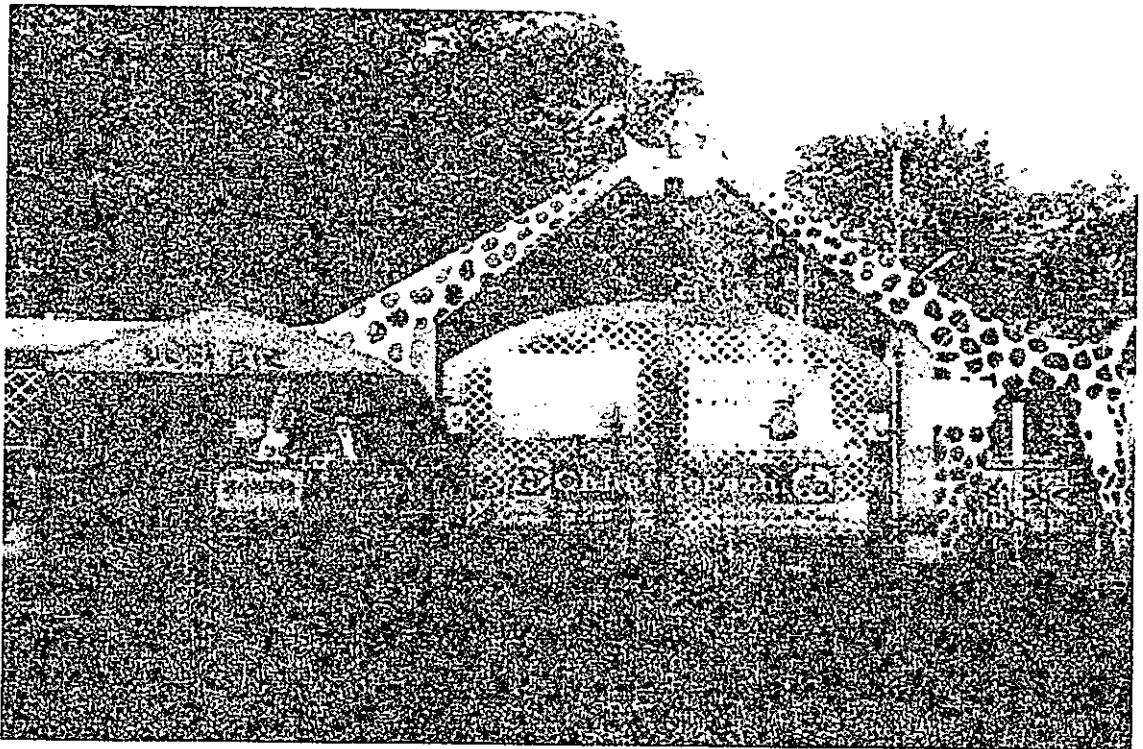
10	10.6(3)	Post-Mortem Room is not constructed in the zoo.	Construction of post-mortem room is implemented.
11.	10.6(3)	Tranquilizing equipment such as Blowpipe is not procured by the zoo.	Maitri Baag zoo having one tranquilizing guns and deptt process for procurement of other new tranquilizing gun and blow pipe. Budget provided and procurement is under process.
12	10.6(5)	Veterinary support staff is not deployed in the zoo as required under the Recognition of Zoo Rules,2009.	1. Lab Asstt.(Tech.)- Proposal has submitted for recruitment to the Management. 2. Stockman/Compounder: Work conducted by 2 Nos. of HSCL Skilled PRW's posted.
9. Acquisition and breeding of animals:			
13	10.9(4)	Singly housed Adjutant Stork is not paired.	The Adjutant stork is very old . Maitri Baag has requested for giving adjutant stork with other Zoo, but could not succeeded and help is requested for the above otherwise Maitri Baag Zoo is ready to spare to other zoo on exchange basis..
14	10.9(8)	Did not maintain Animal History Cards for captive animals housed in the zoo.	History card maintained .
15	10.9(9)	The Maitri Baag Zoo, Bhilai is housing spotted Deer beyond carrying capacity. Failed to implement population control measure and also failed in disposal of surplus stock as per norms prescribed.	A. Population control programme implemented. Male & female spotted deer separate Letter given to many zoo authority no one interested to acquire spotted deer. B. Maitri Baag Zoo gave the 3 Nos. of White tiger Rajkot zoo, 2 No.s Bokaro Zoo, 1 No. Lucknow Zoo, 1 No. Indore Zoo, 4 Nos. Mukundpur zoo Hyena to Tirupati zoo, 5 Nos. Sambarsto Solapur zoo, 5 Nos. of Sambar to Nagpur zoo, 4 Nos. of Sambar to Kananpendari, Bilaspur, 6 Nos. of sambar to Nandan van zoo it has been done to keep the animals as per norms of prescribed and other exchange proposal are under process.
11. Maintain of records and submission of inventory:			
16	11(2)	Statutory Annual Report of the Maitri Bagh Zoo, Bhilai for financial year 2019-20 is not submitted to the Central Zoo Authority.	Annual report submitted to Central Zoo authority. Vide No. MBZ/01/15 dated 30.01.2021.



17	- For the safety animals and visitors and to Address Disaster Management requirement.	The zoo has installed loudspeaker inside the zoo for emergency announcement and CC TV camera has been installed.
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29 List of free living wild animals within the zoo premises

- a. Mammals - Bat, Squirrel, Mongoose.
- b. Birds - Crow, Parakit, Rose Ring, Dove, Eagle, Hawk, Kingfisher.
- c. Reptiles - Snake



THANK YOU