MAHARAJA MARTAND SINGH JUDEO WHITE TIGER SAFARI AND ZOO MUKUNDPUR SATNA (M.P.)

Annual Report for the year 2022-23



CONTENTS

S.No	Section	Page Number
1.	Report of the Officer-in-charge	1
2.	History of the Zoo	2
3.	Vision	3
4.	Mission	3
5.	Objective	3
6.	About us	4 to 6
7.	Organizational Chart	7
8.	Human Resources	8 to 9
9.	Capacity Building of the zoo personnel	9
10.	Zoo Advisory Committee	9
11.	Health Advisory Committee	9
12.	Statement of income and expenditure of the Zoo	9 Annexure 1
13.	Daily feed Schedule of animals	10 to 12
14.	Vaccination Schedule of animals	12
15.	De-worming Schedule of animals	13

S.No	Section	Page Number
10		10
16.	Disinfection Schedule	13 Annexure 2
17.	Health Check-up of employees for zoonotic diseases	14
18.	Development Works carried out in the zoo during the year	14
19.	Education and Awareness programmes during the year	15 to 16
20.	Important Events and happenings in the zoo	17 to 19
21.	Seasonal special arrangements for upkeep of animals	20
22.	Research Work carried out and publications	20
23.	Conservation Breeding Programme of the Zoo	20
24.	Animal acquisition / transfer / exchange during the year	20
25.	Rescue and Rehabilitation of the wild animals carried out by the zoo	21 to 22
26.	Annual Inventory of animals	22 to 23
27.	Mortality of animals.	23
28.	Status of the Compliance with conditions stipulated by the Central Zoo Authority	23 Annexure 3
29.	List of free living wild animals within the zoo premises	24 to 26

1. Report of the Officer-in-charge:

The Maharaja Martand Singh Judev White Tiger Safari and Zoo Mukundpur Satna was established with an objective of creating awareness among the common people for conservation of wildlife, give the rewarding experience to the visitors about the wildlife and provide a place for wild animal rescue in this region. The zoo management has been working with a goal to fulfil the objectives. This year we did various education and awareness activities with the school kids during Wildlife week and Anubhooti programme.

This year 15 animals of different 09 species were rescued, out of which 14 animals were released in the natural habitat and One animal died during the treatment.

Since this zoo is in the natural forest area we receive lot of leaf litter and other fallen plant materials. To utilize this waste in an effective way, the vermi compost and Bio compost pits have been made. These pits are not only helping in keeping the premises clean but also providing the Organic manure for the newly developed nursery of 47 beds. This nursery is fulfilling the demand of various plants which are needed for the beautification of the zoo premises and to improve the bio diversity of the area.

The number of visitors has increased and on special days the number goes very high. This year on 1st January, we received record 19021 numbers of visitors and the whole event was managed by the Zoo team without any chaos. This year 325616 visitors visited the zoo and total Rs. 16595140 of revenue is generated.

The area of grassland inside the zoo boundary has also been expanded to fulfil the requirement of increasing herbivore population. This year the zoo acquired the 04 species of animals which includes Ghadiyal, Turtle and Hog deer.

The zoo officials attended different training courses conducted at different places by other zoos/institutes.

Director Maharaja Martand Singh Judeo White Tiger Safari and Zoo Mukundpur

History of the Zoo:

The Maharaja Martand Singh Judeo white tiger safari and zoo is located in the Mukundpur of Satna district of Rewa division. The zoo is 15 km far from Rewa and 55 km far from Satna. Rewa is a city in the north-eastern part of Madhya Pradesh state in India. It is the administrative centre of Rewa District and Rewa Division In nearby Sidhi district, a part of the erstwhile princely state of Rewa, and now a part of Rewa division, the world's first white tiger, "Mohan" a mutant variant of the Bengal tiger, was reported and captured. To bring the glory back and to create awareness for conservation, a white tiger safari and zoo is established in the region.



Geographically it is one of the unique region where White Tiger was originally found. The overall habitat includes tall trees, shrubs, grasses and bushes with mosaic of various habitat types including woodland and grassland. It is an ideal site and zoo is developed amidst natural forest. It spreads in area of 100 hectare of undulating topography. The natural stream flows from middle of the zoo and the perennial river Beehad flows parallel to the northern boundary of the zoo. The natural forest with natural streams, rivers and water bodies not only makes the zoo aesthetically magnificent but also provides natural environment to the zoo inmates. The zoo was established in June 2015 and opened for the public in April 2016.

2. Vision:

The Zoo at Mukundpur will provide rewarding experience to the visitors not about the local wildlife but also of India. The exhibits care and awareness will be of such level to promote conservation of wildlife. The Zoological Park will endeavour to breed the endangered species in a planned manner for display, exchange and rehabilitation in the wild. This zoo will be a showcase of nature for the visitors.

3. Mission:

This Zoological Park intends to complement the national efforts in conservation of wildlife through planned breeding of endangered species and to develop empathy among visitors for wild animals.

4. Objective:

The zoo shall work for the conservation of the rich bio-diversity of the state to the following objectives:

- 1. To create amongst the visitors empathy towards wild animals through appreciation and better understanding.
- 2. Conservation breeding of endangered species of wild animals, available within the biogeographical range.
- 3. To provide housing and upkeep to the orphaned animals of endangered species rescued from the wild.
- 4. To collect and collate the scientific data on the biology, behavior and health care of various species of wild animals housed in the zoo and use the same in future management of the zoo.
- 5. To assist in conservation of the in-situ population of various species of endangered animals and their habitat by sensitizing the people.
- 6. To establish a small research centre for identification and cultivation of various species of medicinal plants naturally occurring in adjoining forest areas.
- 7. Recreation for the purpose of providing wholesome, healthy and educational activity to a large number of people by utilizing the outdoor natural setting without detriment to any of the preceding objectives.

About us

S.No.	Particulars	Information
Basic I	nformation about the Zoo	
1	Name of the Zoo	Maharaja Martand Singh Judeo White Tiger Safari and Zoo, Mukundpur, Satna (M.P.)
2	Year of Establishment	2016
3	Address of the Zoo	Bela Govindgarh Road, Mukundpur, Satna (Madhya Padesh)
4	State	Madhya Padesh
5	Telephone Number	9131674044
6	Fax Number	
7	E-mail address	dirzoomukundpur@mp.gov.in whitetigersafarirewa@gmail.com
8	Website	www.whitetigersafari.in
9	Distance from nearest	Airport: 15 kms (Chorhata air strip)
		Railway Station: 17 kms (Rewa Station)
		Bus Stand: 18 kms (Rewa)
10	Recognition Valid up to (Date)	23-05-2025
11	Category of zoo	Mini
12	Area (in Hectares)	100
13	Number of Visitors (Financial Year)	Adult :
		Children: 21206
		Total Indian : 325591

S.No.	Particulars	Information
		Total Foreigners :25
		Total Visitors: 325616
14	Visitors' Facilities Available in Zoo	 Drinking RO water Vehicle Parking Toilets at convenient locations Wheel chairs & ramps for differently abled persons Rest areas / sit-outs / visitors' sheds at various locations. Cloak room near the entrance gate. First-aid (at entrance gate) Emission free battery operated vehicles. Children Park and Public Garden Souvenir shop Kiosk Centre Air conditioned vehicles for Mohan white tiger safari visit Air conditioned exhibit gallery Shed development in viewers area, parking area and waiting area.
15	Weekly Closure Day of the Zoo	Wednesday
Manag	gement Personnel of the zoo	
16	Name with designation of the Officer incharge	Mr. Suraj Singh Sendram (ACF)
	Name of the Veterinary Officer	Dr. Rajesh Tomar
	Name of the Curator	Mrs. Beenu Singh Baghel (Range Officer)
	Name of the Biologist	
	Name of the Education Officer	
	Name of the Compounder/ Lab Assistant	
Owner	·/ Operator of the Zoo	

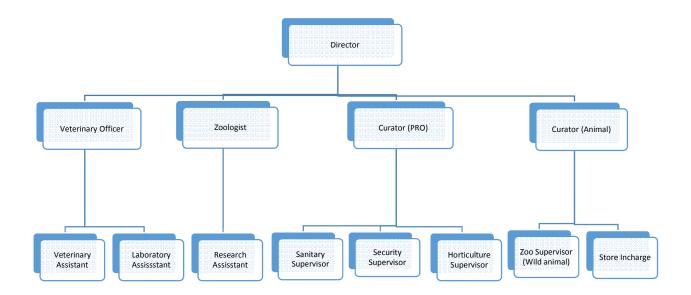
S.No.	Particulars	Information
17	*Name of the Operator	Mr. Atul Mishra (IFS)
18	Address of the Operator	Secretariat, MP Govt. Vallabh Bhawan Bhopal
19	Contact details/Phone number of	0755-2579747
	Operator	
20	E-mail address of Operator	secyforest@mp.gov.in

^{*} Rule 2(m) of the Recognition of Zoo Rules, 2009.

"Zoo Operator" means the person who has ultimate control over the affairs of the zoos provided that_____

- I. in the case of a firm or other association of individuals, any one of the individual partners or members thereof; or
- II. in the case of a company, any director, manager, secretary or other officer, who is in-charge of and responsible to the company for the affairs of the zoo; or
- III. In case of zoo owned or controlled by the Central Government or any State Government or Union Territory Administration or any Trust or Society funded by the Central Government or a State Government or a Union Territory Administration, the Secretary of the concerned Department of that Government, or as the case may be the Union Territory Administration, shall be deemed to be the Zoo Operator.

5. Organizational Chart



6. Human Resources

Manpower of the Zoo

Sl.No.	Designation	No. of Sanctioned Posts	Names of the incumbent
1	Assistant Conservator of Forest	1	Mr. Suraj Singh Sendram
2	Veterinary Officer	1	Dr. Rajesh Tomar
3	Veterinary Assistant	1	Vacant
4	Range Officer	2	Mrs. Beenu Singh Baghel
5	Zoologist	1	Vacant
6	Education Supervisor	1	Vacant
	(Deputy Ranger)		
7	Research Assistant	1	Vacant
8	Laboratory Assistant	1	Vacant
9	Head Clerk	1	Vacant
10	Accountant	1	Vacant
11	LDC	1	Vacant
12	Forester	05	1. Mr. Durgendra Prasad Vajpayi
13	Forest Guard Assistant Keeper	12	1. Mr. Kaleem Khan 2. Mr. Satendra Pratap Singh 3. Mr. Ravi Kumar Pandey 4. Mr. Lokesh Dubey 5.Mr. Vishnukant Mishra 6. Mr. Abhishek Vishwakarma 7. Mr. Nageshwar Gautam 8. Mr. Ravishankar Kol 9. Mr. Shivmurat Charmakar 10. Mr. Sudheer Kumar Dubey 11. Mr. Nitendra Arya 12. Mr. Rajkishor Prajapati 13. Mr. Subhkaran Mishra 1. Mr. Vibhuti Narayan Dubey
14	-	4	2. Mr. Santosh Kumar Saket 3. Mr. Sandeep Kumar Verma
15	Chowkidaar	7	 Mr. Raghvendra Tiwari Mr Ravishankar Kol Mr. Rajesh Kol Mr. Vijay Kumar Namdeo Mr. Ajay Saket
16	Sanitary Assistant	3	 Mr. Sandeep kumar Maitre Mr. Mahesh kumar Saket
17	Skilled/ Trained Labour	3	1. Mr. Ghanshyam Tiwari
18	Gardener	3	Mr. Satyaprakash Chaturvedi Mr. Vimlesh kushwaha Mr. Ramsunder Saket
19	Veterinary Hospital Guard	2	1. Mr. Pappu kol
20	Peon Peon	2	Mr. Deshbandhu Tripathi Mr. Suneel Bhujwa

21	Computer Operator	2	1. Mr. Shobhnath Prajapati
			2. Mrs.Vibha Pathak
			3. Pushpinder kumar Tripathi

7. Capacity Building of zoo personnel

Sr.	Name and designation of	Subject matter of	Period of Training	Name of the
No.	the zoo personnel	Training		Institution where
				the Training
				attended
01	Mr. Sanjay Raykhere	National Conference	02 Days	Nandankanan
	(Director Zoo)	for Zoo Directors	(10-11.09.2022)	Zoological Park,
				Bhubaneswar
0.0		D : 1 *****1 11:0	00.7	Odisha
02	Mr. Suraj Singh Sendram	Regional Wildlife	02 Days	Indian Institute of
	(Director Zoo)	Rescue Squad	(15-16.12.2022)	Forest
	Dr. Rajesh Tomar	Training & workshop		Management
	(Veterinary Officer)			Bhopal
	Mr. Abhisek vishwkarma			
	Forest gaurd			
	Mr. Sanjay yadav			
	Mr. Rajneesh Rawat			
	Mr. Asif Khan			
03	Mr. Kaleem Khan	Regional Capacity	03 Days	Nahargarh
	Forest gaurd	Enhancement	(16 to 18.03.2023)	Biological Park,
	Mr. Lokesh Dube	Workshop for Zoo		Jaipur, Rajasthan
	Forest gaurd	Keepers		

- 8. Zoo Advisory Committee Not constituted till now.
 - a. Date of constitution
 - b. Members
 - c. Dates on which Meetings held during the year
- 9. Health Advisory Committee- Not constituted till now.
 - a. Date of constitution
 - b. Members
 - c. Dates on which Meetings held during the year
- 10. Statement of income and expenditure of the Zoo Attached as annexure 1

11. Daily feed Schedule of animals

Sl.No.	Species	Feed item	Quantity		Day of fasting
			Winter	Summer	
Sl.No.	Species	Feed item	Quantity	Day of fasting	
	1		Winter	Summer	
1.	Tiger (Male)	Buffalo meat	12 k g	10 kg	Wednesday
2	Tiger	Buffalo meat	10 k g	8 kg	Wednesday
_	(Female)		10118		, v canosaay
3.	Leopard (male)	Buffalo meat	4 k g	4 kg	Wednesday
4.	Leopard (female)	Buffalo meat	3.5 k g	3.5 kg	Wednesday
5.	Lion (male)	Buffalo meat	10 k g	8 kg	Wednesday
6.	Lion (Female)	Buffalo meat	08 k g	07 kg	Wednesday
7.	Sloth Bear	Cooked mix of varieties of flour. Wheat (150 gm) (Corn, Barley, Sorghum, 75 gm each)+ Millet Flour (160 gm)	Cooked with water	Same Diet	
		Honey	100 gm		
		Dates	100 gm		No Fasting
		Salt	10 gm		
		Egg	01		
		Vegetables	150 gm		
		Fruits	1 kg		
		Cooked wheat daliya	350 gm		
		Banana	01		
		Peanut	100 gm		
		Roasted Gram	50 gm		
		Dry Coconut	150 gm		
		Jaggery	100 gm		
8.	Chital	Green fodder + grass + tree leaves	5.5 k g	Same Diet	
		Compound feed+ Salt+ Mineral mixture	500 g	Same Diet	No Fasting
		Wheat Straw	500 g	Same Diet	
		Chuni	100 g	Same Diet	

9.	Black buck	Green fodder + grass + tree leaves	4.4 k g	Same Diet	No Fasting
			400 a	Same Diet	
		Compound feed+ Salt+ Mineral mixture	400 g	Same Diet	
		Wheat Straw	400 g	Same Diet	
		Chuni	100 g	Same Diet	
10.	Sambar	Green fodder + grass + tree leaves	16 kg	Same Diet	
		Compound feed+ Salt+ Mineral mixture	1 k g	Same Diet	No Fasting
		Wheat Straw	2 k g	Same Diet	
		Chuni	200 g	Same Diet	
		Readymade cattle feed	500 g	Same Diet	
11.	Thamin Deer	Green fodder + grass + tree leaves	4.5 kg	Same Diet	N. F. di
		Compound feed+ Salt+ Mineral mixture	1 k g	Same Diet	— No Fasting
12.	Hog Deer	Green fodder + grass + tree leaves	1.5 kg	Same Diet	No Fasting
		Compound feed+ Salt+ Mineral mixture	600 g	Same Diet	100 T asting
13.	Swamp Deer	Green fodder + grass + tree leaves	6.5 kg	Same Diet	No Footing
		Compound feed+ Salt+ Mineral mixture	1 kg	Same Diet	— No Fasting
14.	Barking Deer	Green fodder + grass + tree leaves	1.5 kg	Same Diet	No Fasting
		Compound feed+ Salt+ Mineral mixture	400 g	Same Diet	
15.	Blue Bull (Neelgai)	Green fodder + grass + tree leaves	11 kg	Same Diet	No Fasting
		Compound feed+ Salt+ Mineral mixture	1 kg	Same Diet	

16.	Jackal	Buffalo meat	500 g	Same Diet	No Fasting
17.	Mugger	Buffalo meat Fish	06 k g	Same Diet	Alternate Day
18.	Emu	Green fodder + grass + tree leaves	400 g	Same Diet	No Fasting
		Compound feed+ Salt+ Mineral mixture	600 g	Same Diet	
19.	Common Palm Civet	Buffalo meat	150 g	Same Diet	No Fasting
		Fruits	350 g	Same Diet	
20.	Chinkara	Green fodder + grass + tree leaves	1.5 kg	Same Diet	No Fasting
		Compound feed+ Salt+ Mineral mixture	400 g	Same Diet	
21.	Ghadiyal	Fish	01 k g Every Day	01 k g Alternate Day	
22.	Turtle	Soyabean badi Watermelon Tomato	375 g	Same Diet	No Fasting

12. Vaccination Schedule of animals

S.No.	Species	Disease vaccinated for	Name of the Vaccine and dosage/ quantity used	Periodicity	Remarks
01	Tiger	Feline Pan Leucopaenia	Fel-O-Vac	Annual	
02	Leopard	Feline Pan Leucopaenia	Fel-O-Vac	Annual	
03	Sloth Bear	Canine Distemper, Parvo Virus Infection, Infectious canine Hepatitis, Leptospirosis and Rabies	DHPPI+RL	Annual	The vaccination schedule followed by the donor zoo is still in practise
04	Jackal	Canine Distemper, Parvo Virus Infection, Infectious canine Hepatitis, Leptospirosis and Rabies	DHPPI+RL	Annual	

13. De-worming Schedule of animals

SNo.	Species	Drug used	Month
01	Tiger	Albendazole / Fenbendazole / Ivermectin	Every 04 months
		(Either of the drug is used alternatively)	
02	Leopard	Albendazole/Praziquantal+ Pyrantal Paomate+ Fenbendazole	Every 04 months
		combination / Fenbendazole/ Ivermectin	
		(Either of the drug is used alternatively)	
03	Sloth	Albendazole/Praziquantal+ Pyrantal Paomate+ Fenbendazole	Every 04 months
	Bear	combination / Fenbendazole/ Ivermectin	
		(Either of the drug is used alternatively)	

14. Disinfection Schedule

Sl.No.	Species	Type of enclosure	Disinfectant used and method	Frequency of disinfection
01	Tiger	Night House and Cell	Lyzol for floor mopping	Daily
			Acid Solution	Weekly
		Foot Dip	Potassium Per magnate	Daily
			Flame Gun	Fortnightly
02	Leopard	Night House and Cell	Lyzol for floor mopping	Daily
			Acid Solution	Weekly
		Foot Dip	Potassium Per magnate	Daily
			Flame Gun	Fortnightly
03	Sloth Bear	Night House and Cell	Lyzol for floor mopping	Daily
			Acid Solution	Weekly
		Foot Dip	Potassium Per magnate	Daily
			Flame Gun	Fortnightly

^{*} Detailed cleaning and disinfection schedule is attached as annexure 2

15. Health Check-up of employees for zoonotic diseases:- Routine health check up including blood examination was done. Anti rabies vaccination also done.



16. Development Works Carried out in the Zoo during the year:- Construction of new enclosures for various species were completed which includes enclosures for Wild Dog, Fox, Hedgehog. Porcupine. The keeper hut and sit out and bathroom for visitors are also constructed. The existing CC visitor road was also modified as bituminous road.



- **17. Education and Awareness programmes during the year:** It is known that every year various days and weeks are celebrated to create awareness among the people for the conservation of wildlife. This year also following activities were done for the purpose.
 - a) World Biodiversity day:- This year World Biodiversity day was celebrated on 22/05/2022. The quiz programme was conducted for kids and a movie was shown to them. Thirty kids from orphanage attended the programme.



b) World Environment Day- This year, to commemorate World Environment Day with nature and wildlife conservation and to involve common people in the programme the management conducted a online voting to select names for two female rescued tiger cubs. Many people voted their choices and the two names with maximum votes were selected for the tiger cubs. The names were declared on the occasion of World Environment Day on 05/06/2022 and plantation was also done to make the day memorable.



c) International Tiger Day:- The plantation programme was done in zoo premises in association with Brahmakumaris Ashram.



d) Anubhooti Camp:- The "Anubhooti" is an initiative of the forest department of Madhya Pradesh started in year 2014-15. which is organized throughout the state from 15th December-15th January every year. The objective of the programme is to sensitize the kids for nature conservation and create awareness regarding the importance of forests and wild animals in human lives. This year 1625 kids from 07 ranges of two forest divisions visited our zoo under Anubhooti Programme.





18. Important Events and happenings: -

a) MP Foundation Day:- This year we celebrated Madhya Pradesh Sthapana Divas (MP Foundation Day) in the state from 01/011/2022 -07/11/2022. During this period Zoo organized Wall Painting competition on 02/11/2022, Rangoli competition on 05/11/2022 and painting, singing and speech competition on 06/11/2022. In entire week 104 students from various institutes participated in the events.









b) Forest Guard Training school trainees visited zoo to understand the captive wildlife management.



c) On the occasion of World Forestry day plantation was done with the kids and the Miyawaki technique of plantation was explained to the student at the Miyawaki Plantation site.





Paying Homage to the Van Martyrs

Plantation under "Ankur Abhiyan" An Initiative of M.P. State Government.

- 19. Seasonal special arrangements for upkeep of animals:- For winter seasons, the hot air blowers are used in night houses to keep the cell warm. The window panels kept closed in night but the fresh air circulation is maintained through ventilation system. As summer is very hot in this region, every attempt is made inside the night house as well as the display area (arena) to reduce the summer stress. The air coolers are installed in the night house and cell. To reduce the effects of high temperature in arena the rain guns and sprinklers have been installed. The minimum maximum thermometer and humidity meter are installed in the night houses for daily monitoring of the weather conditions.
- 20. Research Work carried out and publications.
- **21. Conservation Breeding Programme of the Zoo-** This zoo is not a part of any conservation breeding programme

22. Animal acquisition / transfer / exchange during the year

A.			Aı	nimals arriv	ing in the 2	Zoo	
	H.NO.	Species	Number (M:F)	From whi	ch Zoo		Date of arrival in the zoo
1		Ghadiyal	2:6:0	Eco Centr	re Dewari N	Morena	04.12.2022
2		Red Crowned Roofed Turtle	0:0:1	Eco Centr	re Dewari N	Morena	04.12.2022
3		Three Striped Roofed Turtle	0:0:1	Eco Centr	re Dewari N	Morena	04.12.2022
4		Hog Deer	5:5:0	Kanan Garden, E	Pendari Bilaspur	Zoological	09.12.2022
В.			Ar	nimals goin	g from the	Z00	
	H.No.	Species		Number (M:F)	Going to v	which Zoo	Date of deposition from the zoo
				N	IIL		

23. Rescue and Rehabilitation of wild animals carried out by the Zoo

S.	Date of	Species with	Received /	Date of	Action	taken
No ·	Rescue	number of animals rescued with their sex (M: F:U:T)	Rescued from	Submissio n of Report to the CWLW / CZA	Date and Place of rehabilitation in their habitat	Reasons for housing in the zoo, if not released in their habitat
01	09.04.2022	Wild Pig	Range Amarpatan, Satna Division	-	09.04.2022 Released into the forest	-
02	29.05.2022	Sloth Bear	Vill. Nawagaon Baikunthpur	-	29.05.2022 Released into the forest	-
03	04.07.2022	Hyaena	Vill. Bairiha Satna Division	-	04.07.2022 Released into the forest	-
04	18.09.2022	Common Palm Civet	Vill. Mukundpur, Satna Division	-	18.09.2022 Released into the forest	-
05	07.10.2022	Pangolin	Rampur Baghelan, Satna Division	-	07.10.2022 Released into the forest	-
06	14.10.2022	Macaque	Range Mukundpur, Satna Division	-	14.10.2022 Released into the forest	-
07	17.11.2022	Langur	Range Singhpur, Satna Division	-	17.11.2022 Released into the forest	-
08	06.12.2022	Tiger	Panna Tiger Reserve	-	06.12.2022 Released into the forest	-
09	26.12.2022	Leopard	Range Mohandra, South Panna	-	26.12.2022 Released into the forest	-
10	06.01.2023	Leopard	Range Bandari,	-	06.01.2023 Released into the forest	-
11	15.01.2023	Langur	Range Singhpur, Satna Division	-	15.01.2023 Released into the forest	-
12	05.02.2023	Langur	Singrauli Division	-	05.02.2023 Released into the forest	-
13	15.02.2023	Sloth Bear	Range Hanuman, Rewa Division	-	15.02.2023 Provided safe passage to the forest	-
14	25.02.2023	Leopard	Range Nagod, Satna Division	-	Released into the forest after treatment	-

15	16.03.2023	Leopard	Range Rewa,	-	-	Animal died
		_	Rewa Division			during treatment

24. Annual Inventory of animals

FORM - II

[See Rule 11 (1)] PART - A

Annual Inventory Report for the Year : 01.04.2022 to 31.03.2023

Endangered Species*

Enda	ngered Species*																				
S. No	Animal Name	Scientific Name		pening stock]	Birth	1	Aco	quisi	tion	Dis	spos	als	I	Deatl	1		Clo 31-0	osing 3-20	
Birds	3		M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
1	Nil	Nil										Nil									
Total	Birds																				
Mam	mals	<u>, </u>																			
1	Tiger (yellow)	Panthera tigris	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	0	6
2	Tiger (white)	Panthera tigris	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3
3	Leopard	Panthera pardus	1	4	0	0	0	0	0	0	0	0	0	0	0	1	0	1	3	0	4
4	Sloth Bear	Melursus ursinus	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	4
5	Black Buck	Antelope cervicapra	7	8	4	0	0	3	0	0	0	0	0	0	0	0	0	14	8	0	22
6	Lion	Panthera leo	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
7	Thamin Deer	Cervus eldi	4	2	0	0	0	1	0	0	0	0	0	0	1	0	0	3	2	1	6
8	Black Buck (Albino)	Antelope cervicapra	1	2	2	0	0	1	0	0	0	0	0	0	0	0	0	2	4	0	6
9	Swamp Deer	Rucervus duvaucelii	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	4
10	Chinkara	Gazella bennettii	1	3	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	0	3
	Total M	ammals	23	29	6	0	0	5	0	0	0	0	0	0	1	2	0	30	29	1	60
Repti	ile/ Amphibians																				
1	Mugger	Crocodylus palustris	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3
2	Red Crowned Roofed Turtle	(Batagur kachuga)	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1
3	Three Striped Roofed Turtle	(Kachuga dhongoka)	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1
4	Gharial	Gavialis gangeticus	0	0	0	0	0	0	2	6	0	0	0	0	0	0	0	2	6	0	8
Total	l Reptile/ Amphib	ians	1	2	0	0	0	0	2	6	2	0	0	0	0	0	0	3	8	2	13
Inver	tebrates																				
1																					
	Invertebrates					1				1	1	Nil		ı	1	1	ı				
Total	Animals		24	31	6	0	0	5	2	6	2	0	0	0	1	2	0	33	37	3	73
					_					<u>. </u>											_

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

FORM - II

[See Rule 11 (1)] PART - B

Annual Inventory Report for the Year: 01-04-2022 to 31-03-2023

Other than Endangered Species

S. No	Animal Name	Scientific Name	sto	penir ock as 1-04-2	on		Birth	l	Acc	quisit	tion	Di	spos	als]	Deatl	1	o		ng a 03-20	
Bird	s		M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
1																					
	l Birds											Nill									
Man	nmals	1																			
1	Chital	Axis axis	7	18	19	0	0	2	0	0	0	0	0	0	0	0	0	9	27	10	46
2	Wild Pig	Sus scrofa	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3
3	Sambhar	Cervus unicolor	4	4	3	0	0	2	0	0	0	0	0	0	0	0	0	6	7	0	13
4	Barking Deer	Muntiacus muntjac	2	9	4	0	0	2	0	0	0	0	0	0	0	0	0	5	12	0	17
5	Nilgai	Boselaphus tragocamelus	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3
6	Hog Deer	Axis Porcinus	0	3	0	0	0	0	5	5	0	0	0	0	1	0	0	4	8	0	12
7	Jackal	Canis aureus	1	3	0	0	0	3	0	0	0	0	0	0	0	1	0	1	2	3	6
8	Common Palm Civet	Paradoxurus hermaphroditus	2	2	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	0	3
Tota	l Mammals		21	40	26	0	0	9	5	5	0	0	0	0	2	1	0	31	59	13	103
Rept	ile/ Amphibians											Nill									
1																					
Tota	l Reptile/ Amphibia	ans																			
Inve	rtebrates											Nill									
1																					
Tota	l Invertebrates																				
Tota	l Animals																				

^{*}The part A and Part B of the inventory also includes the rescued animal which are housed in zoo after getting permission from the CWLW, Bhopal

25. Mortality of animals

S.No.	Animal Name	Scientific Name	Sex	Date of	Reason of Death as per the
	(with individual			Death	Post-mortem report
	identification				
	mark, if any)				
01	Leopard	Panthera pardus	Female	13.04.2022	Septicemia and shock
02	Common Palm	Paradoxurus	Male	10.06.2022	Pneumonia
	Civet	hermaphroditus			
03	Chinkara	Gazella bennettii	Female	20.09.2022	Hypovoluaemic shock
04	Jackal	Canis aureus	Female	11.12.2022	Respiratory tract infection
05	Hog deer	Axis Porcinus	Male	09.01.2023	Liver abscess & Multiple
					Organ failure
06	Thamin deer	Cervus eldi	Male	24.03.2023	Infighting

26. Compliance with conditions stipulated by the Central Zoo Authority

The M&E of the Zoo was done by Monitoring and Evaluation officer Mr. Dev Prakash Bankhwal, IFS (Retired), deputed by CZA on September 25 and 26, 2022. The suggestions / recommendations received from PCCF (W/L) Bhopal by Letter No. 5773 Date 21/06/2023.(Attached as annexure 3). The compliance of the conditions will be done in stipulated time.

27. List of free living wild animals within the zoo premises

A. Mammals

Sr.No.	Common Name	Scientific Name
1	JUNGLE CAT	Felis chaus
2	RHESUS MACAQUE	Macaca mulatta
3	RUDDY MONGOOSE	Herpestes smithii
4	INDIAN GREY MONGOOSE	Herpestes edwardsi
5	SMALL INDIAN CIVET	Viverricula indica
6	COMMON PALM CIVET	Paradoxurus hermaphrodites
7	INDIAN HARE	Lepus nigricollis
8	MADRAS TREE SHREW	Anathana ellioti
9	COMMON LANGUR	Presbytis entellus

B. Birds

C 3.1	COMMONANT	GGIENTERE GNIANTE
Sr.No.	COMMON NAME	SCIENTIFIC NAME
1	INDIAN PEAFOWL	Pavo cristatus
2	WHITE-BREASTED WATERHEN	Amaurornis phoenicurus
3	PURPLE SWAMPHEN	Porphyrio porphyrio
4	COMMON MOORHEN	Gallinula chloropus
5	BLACK-CROWNED NIGHT HERON	Nycticorax nycticorax
6	INDIAN POND HERON	Ardeola grayii
7	CATTLE EGRET	Bubulcus ibis
8	LITTLE EGRET	Egretta garzetta
9	INDIAN BLACK IBIS	Pseudibis papiullosa
10	LITTLE CORMORANT	Microcarbo niger
11	INDIAN CORMORANT	Phalacrocorax fuscicollis
12	RED-WATTLED LAPWING	Vanellus indicus
13	CRESTED SERPENT EAGLE	Spilornis cheela
14	SHORT-TOED SNAKE EAGLE	Circaetus gallicus
15	SHIKRA	Accipiter badius
16	BLACK-WINGED KITE	Elanus caeruleus
17	COMMON BARN OWL	Tyto alba
18	SPOTTED OWLET	Athene brama
19	FOREST OWLET	Heteroglaux blewitti
20	STORK BILLED KINGFISHER	Plargopsis capensis
21	WHITE THRATED KINGFISHER	Halcyon smyrnensis
22	PIED KINGFISHER	Ceryle rudis
23	COMMON KINGFISHER	Alcedo atthis
24	GREEN BEE EATER	Merops orientalis
25	INDIAN GREY HORNBILL	Ocyceros birostris
26	ASIAN KOEL	Eudynamys scolopaceus
27	ROSE RING PARAKEET	Psittacula krameri
28	PLUM HEADED PARAKEET	P. cyanocephala
29	SPOTTED DOVE	Stigmatopelia chinensis
30	INDIAN ROLLER	Coracias bengalensis
31	COMMON HOOPOE	Upupa epops
32	BLACK DRONGO	Dicrurus marcocercus
33	WHITE BELLIED DRONGO	D. caerulescens
34	ASHY DRONGO	D. leucophaeus
35	HOUSE CROW	Corvus splendens
36	SHORT-EARED OWL	Asio flammeus

37	INDIAN-EAGLE OWL	Bubo bengalensis
38	ROCK PIGEON	Columba livia
39	LAUGHING DOVE	Streptopelia senegalensis
40	GREATER COUCAL	Centropus sinensis
41	COMMON HAWK CUCKOO	Hierococcyx varius
42	COMMON CUCKOO	Cuculus canorus
43	INDIAN GREY HORNBILL	Ocyceros birostris
44	LESSER GOLDEN-BACKED WOODPECKER	Dinopium benghalensis
45	WHITE-NAPED WOODPECKER	Chrysocolaptes festivus
46	BROWN-CAPPED PYGMY WOODPECKER	Dendrocopos moluccensis
47	YELLOW-CROWNED WOODPECKER	Dendrocopos mahrattensis
48	BROWN-HEADED BARBET	Psilopogon zeylanicus
49	COPPERSMITH BARBET	Psilopogon haemacephalus
50	BLUE-TAILED BEE-EATER	Merops philippinus
51	BLUE - CHEEKED BEE- EATER	Merops persicus
52	STORK-BILLED KINGFISHER	Pelargopsis capensis
53	INDIAN PITTA	Pitta brachyuran
54	SMALL MINIVET	Pericrocotus cinnamomeus
55	COMMON WOODSHRIKE	Tephrodornis pondicerianus
56	LONG-TAILED SHRIKE	Lanius schach
57	RUFOUS TREEPIE	Dendrocitta vagabunda
58	JUNGLE CROW	Corvus macrorhynchos
59	BLACK-HOODED ORIOLE	Oriolus xanthornus
60	JUNGLE BABBLER	Turdoides striata
61	COMMON IORA	Aegithina tiphia
62	PURPLE SUNBIRD	Cinnyris asiaticus
63	BAYA WEAVER	Ploceus philippinus
64	INDIAN SILVERBILL	Euodice malabarica
65	SCALY-BREASTED MUNIA	Lonchura punctulata
66	TRICOLOURED MUNIA	Lonchura Malacca
67	HOUSE SPARROW	Passer domesticus
68	YELLOW-THROATED SPARROW	Gymnoris xanthocolis
69	RED-RUMPED SWALLOW	Cecropis daurica
70	GREY WAGTAIL	Motacilla cinerea
71	CITRINE WAGTAIL	Motacilla citreola
72	COMMON TAILORBIRD	Orthotomus sutorius
73	TREE PIPIT	Anthus trivialis
74	ASHY-CROWNED SPARROW LARK	Eremopterix griseus
75	ASHY PRINIA	Prinia socialis
76	PLAIN PRINIA	Prinia inornata
77	CINEREOUS TIT	Parus cinereous
78	ORIENTAL WHITE-EYE	Zosterops palpebrosus
79	CHESTNUT-BILLED NUTHATCH	Sitta castanea
80	SIBERIAN STONECHAT	Saxicola maurus
81	BLACK REDSTART	Phoenicurus phoenicurus
82	INDIAN ROBIN	Saxicoloides fulicatus
83	ORIENTAL MAGPIE ROBIN	Copsycgus saularis
84	WHITE-BROWN FANTAIL	Rhipidura aureola
85	INDIAN PARADISE FLYCATCHER	Terpsiphone paradise
86	TICKELL'S BLUE FLYCATCHER	Cyornis tickelliae
87	GREY-HEADED CANARY FLYCATCHER	Culicicapa ceylonensis
88	RED-VENTED BULBUL	Pycnonotus cafer
89	ASIAN PIED STARLING	Gracupica contra
0,	1.0 ILD STIREMIS	S. acapiea comia

90	BRAHMINY STARLING	Sturnia pagodarum
91	COMMON MYNA	Acridotheres tristis
92	BANK MYNA	Acridotheres ginginiames
93	ORANGE-HEADED THRUSH	Geokichla citrine
94 95	PAINTED STORK	Mycteria leucocephala
95	WOOLY NECKED STORK	Ciconta episcopus

C. Reptiles

r.No.	COMMON NAME	SCIENTIFIC NAME
	MUGGER/CROCODILE	Crocodylus palustris
2	INDIAN ROOFED TURTLE	Pangshara tecta
3	INDIAN FLAPSHELL TURTLE	Lissemvs punctata
4	BROOK'S HOUSE GECKO	Hemidactvlus brookii
5	YELLOW- GREEN HOUSE GECKO	Hemidactvius flaviviridis
6	ASIAN HOUSE GECKO	Hemidactelus frencitus
7	BARK GECKO	Hemidactylus leschenautia
К	INDIAN GARDEN LIZARD	Calotes versicular
9	BLANFORD'S ROCK AGAMA	Pssamophilus blanfordamus
10	FAN-THROATED LIZARD	Sitana ponticertana
11	COMMON SNAKE SKINK	Lygonoma punctatus
12	COMMON INDIAN SKINK	Entropis carinata
13	COMMON INDIAN MONITOR	Foramos bengalensis
14	COMMON WORM SNAKE	Remphotyphlops brammus
15	BEAKED WORM SNAKE	Geyphotyphlops acutto
16	INDIAN ROCK PYTHON	Python molurus
17	COMMON SAND BOA	Gongylophus conteus
18	INDIAN RAT SNAKE	Piyan mucina
19	COMMON TRINKET SNAKE	Coclognathus Helena Helena
20	COMMON WOLF SNAKE	Lycysfort audient
21	BARRED WOLF SNAKE	Liceation straitta
22	BUFF STRIPED KEELBACK	Amplitesma stoletims
23	INDIAN GREEN KEELBACK	Macropistisodon planibicolar
24	CHECKERED KEELBACK WATER SNAKE	Xenochraphis piscutor
25	COMMON KUKRI SNAKE	Oligodon arnensis
26	BANDED RACER SNAKE	Argyrogena fasciolata
27	COMMON CAT SNAKE	Baiga trigonata
28	FORSTEN'S CAT SNAKE	Baiga forsteni
29	GREEN VINE SNAKE	Abactulla nasutus
30	SPECTACLED COBRA	Noja naja
31	COMMON KRAIT	Bungarus caeruleus
32	RUSSELL'S VIPER	Daboia russelii
33	INDIAN SAW-SCALED VIPER	Echis carinatus

Director Maharaja Martand Singh Judeo White Tiger Safari and Zoo Mukundpur

12. Statement of income of the Zoo

					01 April	2022 to	31 Mar	ch 2023			
S.No	Month	Visitors No.	Zoo Entry Fees		ed From Vis Battery operated vehicle Fees		Filming Fees	Total Amount	Vehicle Parking Fees	Visitors fine Fees	Net Total Amount
1	2	3	4	5	6	7	8	9	10	11	12
1	Apr-22	11550	223640	265500	191350	0	0	680490	25260	8100	713850
2	May-22	15955	310050	364400	242650	0	0	917100	33770	200	951070
3	Jun-22	21801	422900	515700	325950	0	0	1264550	46610	500	1311660
4	Jul-22	25628	496290	551950	307550	0	0	1355790	55530	750	1412070
5	Aug-22	28957	564240	563800	297850	0	0	1425890	60600	1700	1488190
6	Sep-22	17247	329630	335850	186550	6210	0	858240	37610	0	895850
7	Oct-22	28253	536780	523450	298650	7050	0	1365930	58720	0	1424650
8	Nov-22	30189	517440	610400	260600	1530	0	1389970	56390	100	1446460
9	Dec-22	46603	830530	972800	414500	60	0	2217890	82500	0	2300390
10	Jan-23	52106	1004890	840450	283550	150	0	2129040	91040	2600	2222680
11	Feb-23	22367	416410	450800	206350	4320	0	1077880	41710	500	1120090
12	Mar-23	24960	482890	512450	259050	330	0	1254720	51460	2000	1308180
Т	otal -	325616	6135690	6507550	3274600	19650	0	15937490	641200	16450	16595140

12. Statement of Allotment and expenditure of the Zoo

S.No	Budget Head	Financial year	Allotment	Expenditure
1	6355	2022-23	56527880	53956230
2	Vikaas Nidhi		20000000	12776869
		Total -	76527880	66733099

Cleaning/ Disinfection Protocol For Carnivore Enclosures

MAHARAJA MARTAND SINGH JUDEO WHITE TIGER SAFARI AND ZOO, MUKUNDPUR (Month-) Enclosure:

Parameters	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Daily Protocol																															
Physical Removal																															
Of Organic Matter																															
Pressure cleaning																															
with plain water																															
Efficacy of fly																															
catcher/ Traps																															
Cleaning of																															
Watering Bowl																															
and feed manger																															
Removal of																															
Excreta from																															
Kraal/open																															
enclosure																															
Cleaning of foot-																															
Dips and mats																															
Use of																															
Disinfectant in																															
foot Dip																															
Floor moping with Lyzol																															
Drying of Night																															
House																															
Signature and																															
Name																															
I																															
					1			1																							

WEEKY		
PROTOCOL		
Hot Water		
Scrubbing		
Disinfectant used		
for cleaning		
Washing with		
Plain Water		
Cleaning and		
white wash of		
Saucers		
Cleaning of roof,		
windows and		
removal of spider		
web		
Signature and		
Name		
FORTNIGHTLY		
PROTOCOL		
Flame Gun Use		
Use of Anhydrous		
lime for kraal		
cleaning (SOS)		
Signature and		
Name		

Invigilator's Report

S.No.	Name Of	1	2	3	4	5	6	7	8	9	10	11	1	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	Enclosure												2																			
01	Yellow																															
	Tiger																															1
02	White																															
	Tiger																															1
03	Lion																															
04	Leopard																															
05	Sloth																															
	Bear																															
06	Safari																															
07	Treatme																															
	nt Ward																															
08	Rescue																															
	Center																															
09	Quaranti																															1
	ne																															

Invigilator's Report

S.No.	Name Of Enclosure	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
01	Sambar																															
02	Chital																															
03	Black buck																															
04	Nilgai																															
05	Wild Pig																															
06	Thamin Deer																															

Signature and Name

Cleaning Protocol For Herbivore Enclosures

MAHARAJA MARTAND SINGH JUDEO WHITE TIGER SAFARI AND ZOO, MUKUNDPUR (Month-) Enclosure:

Daily Protocol Physical Removal Of left over feed and fodder Cleaning of Watering trough and feed manger Removal of Excreta from Kraal /cleaning of kraal Signature and Name WEEKY PROTOCOL Cleaning and white wash of Saucers Cleaning of roof, windows and removal of spider web Signature &	Doromotors	1														15												26		20	20	20	24
Physical Removal Of left over feed and fodder Cleaning of Watering trough and feed manger Removal of Excreta from Kraal /cleaning of skraal signature and Name WEEKY PROTOCOL Cleaning and white wash of Saucers Cleaning and white wash of Saucers Signature & Name PROTOCOL Cleaning and of spider web Signature & Name Removal of spider web Signature & Name Removal of guident & Signature & Sign	Parameters	I	2	3	4	3	O	/	ð	9	10	11	12	13	14	15	Τρ	1/	18	19	20	21	22	23	24	25)	26	21	28	29	30	31
Removal Of left over feed and fodder Cleaning of Watering trough and feed manger Removal of Excreta from Kraal /cleaning of kraal Signature and Name WEEKY PROTOCOL Cleaning and white wash of Saucers Cleaning of froof, windows and removal of spider web Signature & Name FORTNIGHTL Y PROTOCOL. Removal of guident web Signature & Name FORTNIGHTL Y PROTOCOL Removal of guident web Signature & Name Removal of guident web Signature & Name FORTNIGHTL Y PROTOCOL Removal of guident web Signature & Name FORTNIGHTL Y PROTOCOL Removal of guident web Signature and signature & Sig		ı				1	1			1		1	ı	ı	ı		ı		ı	1	1	1	1	1		1					1		
over feed and fodder Cleaning of Watering trough and feed manger Removal of Exercta from Kraal /cleaning of skraal /cleaning of kraal Signature and Name Name Name Name Name Name Name Name																																	
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Cleaning of Watering trough and feed manager Removal of Excreta from Kraal /cleaning of kraal Signature and Name WEEKY PROTOCOL Cleaning and white wash of Saucers Cleaning of roof, windows and removal of spider web Signature & Name FORTNIGHTL Y PROTOCOL L Removal of unwanted plants/ weeds from arena Signature and Signature and Signature and Signature and Signature and Signature Signature Signature Signature Signature Signature Signature Allows Signature and Signature Signature Signature and Signature and Signature and Signature Si																																	
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and feed manger Removal of Removal of Excreta from Kraal /cleaning of kraal Signature and Name WEEKY PROTOCOL Cleaning and white wash of Saucers Cleaning of roof, windows and removal of spider web Signature & Name FORTNIGHTL Y PROTOCOL Removal of unwanted plants/ weeds from arena Signature and	Cleaning of																																
Removal of Excreta from Kraal /cleaning of kraal	Watering trough																																
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Kraal / cleaning of kraal Signature and Name WEEKY PROTOCOL. Cleaning and white wash of Saucers Cleaning of roof, windows and removal of spider web Signature & Name FORTNIGHTL Y PROTOCOL Removal of unwanted plants/ weeds from arena Signature and																																	
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removal of spider web Signature & Name FORTNIGHTL Y PROTOCOL Removal of unwanted plants/ weeds from arena Signature and	Cleaning of roof,																																
web Signature & Name FORTNIGHTL Y PROTOCOL Removal of unwanted plants/ weeds from arena Signature and	windows and																																
Signature & Name FORTNIGHTL Y PROTOCOL Removal of unwanted plants/ weeds from arena Signature and	removal of spider																																
Name FORTNIGHTL Y PROTOCOL Removal of unwanted plants/ weeds from arena Signature and	web																																
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Y PROTOCOL Removal of unwanted plants/ weeds from arena Signature and	Name																																
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PART-IV RECOMMENDATION

RECOMMENDATION (On the basis of observations of the status as per Recognition of Zoo Rules, 2009)

Sr. No	Norm No.	Particulars of suggestions/recommendation	Time Period to Comply
1	10.2(2)	Madhya Pradesh government by its communication No.F-15-7/2010/10-2 dated	As the need grows;
		12.01.2012 has sanctioned 55 posts for the running this Maharaja Martand Singh	preferably within next
		Judeo Tiger Safari and Zoo. The posts include 02 Veterinary doctors, 01	five years
		Biologist, 01 Research Assistant and 01 Lab Assistant. Among these, there is 01	
		Veterinary doctor is in place. As the zoo is nascent and has sprawling area in a	
		natural landscape, it has high potential to transition from Mini Zoo into Small and then into a Medium Zoo within a few years. The posts mentioned above should be	
		filled along the way of expansion of enclosures and activities of the zoo. The	
		Research Assistant can work as Education Officer also.	
2	10.3(1),	The existing Master Plan of the Zoo is expiring this year. New Master Plan should	Six Months
	10.3(3)	be finalised and submitted to the CZA as soon as possible.	
3	10.3(7)	The zoo has rescued tiger, leopard, sloth bear and nilgai so far. There is need for	Two years
		developing facility for housing rescued birds in the future.	
4	10.4(6)	(a)The zoo management has made two adjoining enclosures for thamin deer, so	As early as possible.
	. ,	that when one enclosure gets spoiled by overuse, or becomes soggy due to rains	J 1
		and denudation, the animals are shifted to the adjoining one and the first one is	
		given time for restoration.	
		Similar arrangement should be made for the herds of other deer species and, in	
		future, for antelopes like nilgai. The existing enclosure of cheetal has been	
		completely denuded of grasses by the herd.	
		completely definded of grasses by the nord.	
		(b) As in the enclosure of thamin deer, the enclosure for other deer species should	
		have some grass patches or shrub cover for weak and pregnant females to hide or	
		take rest.	
5	10 5(5)		Turm a diatales
3	10.5(5)	At present the solid waste from the animal houses is being collected and burnt. The	immediately
		liquid effluent is being collected in septic tanks after some treatment and then	
		being treated biologically through root zone treatment method. The zoo should	
		collect random samples (randomness and periodical collection are must) from	
		theeffluents after septic tank and root zone treatment and test them for the quality	
		of water, for both after septic tanks and after root zone treatment. The samples	
		should be sent to two independent reputed labs for testing. On the basis of results,	
		the method of treatment of water may be improved. The water finally entering into	
		the land, on surface and below surface, should not be laced with hazardous	
		chemicals.	
6	10.5(10)	(a) Herd marking has not been done. Whether use of tag, or implanted chip in the	Six months to one year.
		leader of the herd, or some other device, the marking and record-keeping should	
		be done after consultation with the CZA. But, herd-marking needs to be done.	
		(b) In order to improve heterozygosity, keeping of records of all animals should	
		be meticulous. This zoo already fulfils the eligibility criteria of a small zoo, as	
		per the RZR Rules after amendment of 2013, it will finally evolve into a medium	
		or large zoo after some years. It is already on way to that milestone, as facilities	
,		for housing wild dog, hedgehog, porcupine and bird aviary are under construction.	
,		Hence, the globally-adopted application software ZIMS (Zoo Information	
,		Management System) should be used by this zoo also. Perhaps now, the studbook	
		at national level is being maintained by the CZA. For record-keeping in secure,	
		easily retrievable and internationally-accepted form, the zoo needs guidance of	
'		CZA.	

		conservation of endangered species by giving species, which have no chance of	CZA
		survival in wild, a last chance of survival through coordinated breeding under ex-	
		situ condition and raise stocks for rehabilitating them in wild as and when it is	
		appropriate and desirable.	
		With this objective in mind, keeping of commonplace animals like wild boar,	
		which is in zoo stock now, should be avoided in the zoo.	
8	11	The zoo has an Eco-Park across the road and the management has provided some	After developing a good
		engaging activities for the visitors, mainly children. This is also a sprawling area	outreach plan within a
		and could be developed as nature interpretation park with a combination of	year.
		hands-on activities, group activities, information on wilderness areas and wild	
		animals with the use of interactive artefacts and suitable audio-visual gadgets,	
		like virtual reality, augmented reality and so on. This will spur many youngsters	
		for nature conservation action. The zoo is located in a natural forest area and has	
		three prominent parks of M.P., vizBandhavgarh, Panna and Sanjay-Dubri in close	
		vicinity. The visitors of this landscape are perhaps already primed to comprehend	
		the importance of forests and wildlife in the human life.	
	10.3(3)	Beehad river passes through the northernboundary of the zoo in the east-west	One year
		direction. Besides this river, there is a stream flowing north-south at the eastern	
		boundary of the zoo and another big stream in the south-western part of the zoo.	
		Due to erratic weather patterns caused by climate change, the zoo should be	
		prepared to deal with unprecedented flooding of some parts of the zoo closer to	
		the river and streams. This should be part of their "Disaster and crisis	
		management plan" in the new Master Plan. The banks of the river need protection	
		at vulnerable points.	