



Maharajbag Zoo,

College of Agriculture, Nagpur

Annual Report

For

Year 2021-22



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1. Report of the office In-charge:

We are happy to present the Annual Report for the year 2021-22, of Maharajbag Zoo, College of Agriculture, Nagpur, Maharashtra, India. This is the only zoo throughout the country which is being operated by an Agriculture University i.e. Dr. Panjabrao Deshmukh Krushi Vidyapeeth, Akola. Year 2021-22 is ended up with decreasing graph of Corona Pandemic with some success and failure in zoo. We are proud to announce herewith the Maharajbag Zoo has completed its 128 years of existence in the year 2021-22.

The Maharajbag zoo is located in the heart of the Nagpur city with Lush green belt with huge old trees. The zoo is working as lung of the City to minimize the pollution and temperature. The Zoo is one of the oldest Zoo of India established in 1894, yet to smooth function according to the advance zoo Management practices. This zoo is famous tourist place in the City since last many decades yet waiting for smooth functioning as per Modern Zoo Management practices. The Zoo staff is on the toe around the clock to provide best for the animals and Visitors from the available resources but there is vast scope for up gradation. This year Zoo gone through the recognition Assessment of CZA, New Delhi.

Overall, emphasis has been made by Maharajbag Zoo team members to cater the needs of all captive wild animals to nourish, nurture and bloom further; regardless of this we lost some of our Zoo Family members.

I express my sincere thanks to the Dr. Panjabrao Deshmukh Krushi Vidyapeeth, Akola, Agricultural College, Nagpur and all residential of Nagpur and nearby districts for being with us in all our success and failures and for their endless love upon us.

On behalf of Maharajbag Zoo family



Dr. S. S. Bawaskar
Office In-charge



2. History of the Zoo:

This zoo is known as “Maharajbag Zoo” since 1894. Prior to this, it was a Shikar Khana of the erstwhile Maharaja Raghoji Raje Bhosale, the Ruler of Nagpur. On the establishment of C-P & Berar state this Zoo was taken over by the Department of Agriculture. At that time only 3 cages existed in which Tigers, Hyena, monkeys and some birds were kept. During the period of the British Rulers, the Deer park was constructed and the old Tiger cages were renovated. During the post-independence period in 1954, some new cages for accommodation of Leopards, Lions and some birds were constructed. In 1969 Maharajbag Zoo was transferred to Dr. P.D.K.V. Akola, under the administrative control of the college of Agriculture, Nagpur with the Associated Dean as the Zoo Controller.

The Maharajbag Zoo has completed its 128 years of establishment and has a rich tradition and green backdrop light in the very fine Horticulture Garden in the heart of city. The Maharajbag Zoo is the pride of ‘Orange city-Nagpur’ and its surrounding area of central India.

The beginning:

In the beginning of Maharajbag Zoo the animal enclosures were very old and in the dilapidated condition. The Dr. Panjabrao Krushi Vidyapeeth started the development work from the day Zoo came in their administrative control but the real momentum to the work was given in 1992.

The Central Zoo Authority, New Delhi recommended various suggestions for improvement and modernization of the zoo. Considering the recommendation and availability of the funds the development plan is framed and executed. New Master Layout Plan will be submitted to Central Zoo Authority, New Delhi after completion of conditions recommended by the group of experts of Central Zoo Authority. After the approval of same, Maharajbag Zoo will be renovated and modernized as per the National Zoo Policy 1998 and as per the rules of CZA, New Delhi.



3. OUR VISION

Making the zoo as one of the most naturalistic and green zoo in the region without disturbing the natural landscape of the area by designing the animal enclosures and supportive infrastructure in a proper way to merge fully in the environment of the zoo by housing only the species which can be provided quality life of adequate longevity so that they can procreate and lead to self-sustaining and genetically and behaviorally viable population at the zoo.

4. OUR MISSION

Compliment the national efforts in conservation of wildlife through planned coordinated conservation breeding of endangered wild animal species of the region. Develop amongst visitor's empathy for wild animals and motivate them to support the cause of conservation of wildlife. Develop amongst the visitors an understanding about the ecological linkages with the life supporting processes of nature and the need for keeping them intact by adopting sustainable life styles and living in harmony with nature. Enhancing role of zoo in wildlife conservation through collaborative research aiming at attaining management skills for in-situ population and carrying out advocacy for protecting the wild animals and their natural habitats.

5. OUR OBJECTIVE

To aid and assist in conservation of wild animals and their habitat. The "Zoo" shall in conformity with the aforesaid trend, shall work for conservation of the rich bio-diversity of the state through following sub objectives:

- ✿ To create amongst the visitors empathy towards wild animals through better understanding of the linkages of long term survival of various species of wild animals and availability of fertile soil, potable drinking water and pollution free environment.
- ✿ Conservation breeding of endangered species of wild animals, available within the bio-geographical range.
- ✿ To provide housing and upkeep to the orphaned animals of endangered species rescued from the wild.
- ✿ To collect and collate the scientific data on the biology, behavior and health care of various species of wild animals housed at the zoo and use the same in the future management of the zoo.



- ✿ To assist in the conservation of the in-situ population of various species of endangered species of wild animals and their habitat by sensitizing the people about the benefits of adopting sustainable lifestyles and shunning off affluent way of living which involves wastage of natural resources

6. About us:

Maharajbag Zoo is the only zoo in the country which is operated by agricultural university. Zoo In-charge has overall control on the administration and planning of zoo. He is assisted in the work by the Sr. clerk, two office attendant and livestock supervisor. The zoo In-charge reports to Zoo controller for overall activities of the Zoo.

Veterinary officer looks after the upkeep and health care of animals including deworming, disinfection and vaccination of animals. The veterinary officer is assisted by livestock supervisor. Major activities of the team are health care and vaccination of captive animal, food and nutrition, maintenance of animal enclosure. Veterinary officer reports to Zoo In-charge.

Curator is responsible for the daily/weekly/monthly zoo routine such as upkeep and maintenance of the animal enclosure, feeding of animal, disinfection of enclosure, enrichment of enclosures, maintenance of daily records, feeding records and also responsible for the zoo estate. Curator is assisted by the head keeper and animal keepers for his day to day zoo routine. The head keeper and animal keeper's reports to curator and curator reports to Zoo In-charge.

Biologist cum Education officer looks after record on observation of animal behavior and biology, suggesting enrichment ideas for the enclosures, recommending regulation of movement of visitor to minimize its impact on the animal, upgrading the signage displayed on animal enclosures, maintenance of animal history card and stud book of animals, preparing informative, educative signage's to be displayed in the zoo, organizing zoo education and awareness programs and preparation of annual report of the Zoo. Biologist cum education officer reports to Zoo In-charge for overall activities.

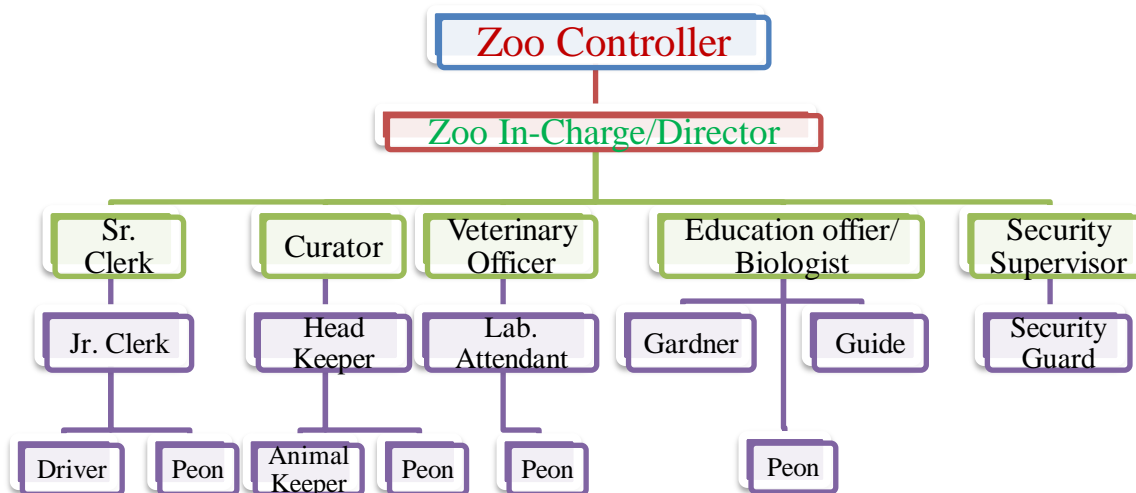


Silent features of the Zoo:

Sr. No.	Particulars	Information		
Basic information about zoo				
1.	Name of the Zoo	Maharajbag Zoo, College of Agriculture, Nagpur		
2.	Year of establishment	1894		
3.	Address of the zoo	Maharajbag Zoo, College of Agriculture, Amravati Road, Sitabuldi, Nagpur, Maharashtra 440001 (India)		
4.	State	Maharashtra		
5.	Telephone number	0712-2523720		
6.	Fax number	91-712-2554820		
7.	e-mail address	maharajbagzoo@gmail.com		
8.	Website	http://www.maharajbagzoo.org		
9.	Distance from nearest	Airport :	Dr. Babasaheb Ambedkar International airport	8.0 Km (SW)
		Railway station	Sitabuldi, Central, railway station	3.0 km (NE)
		Bus stand	Ganesh peth Bus stand	3.0 Km (E)
10.	Recognition valid upto (Date)	15th November 2022 Order No. F.No. 19-104/93-CZA(157)(Vol.VII)(E) dated 1st January 2022.		
11.	Area (in Hectares)	10.3 Hectares		
Management personnel of the Zoo				
12.	Name with designation of the Officer in charge	Dr. Sunil S. Bawaskar Designation:Officer in-charge		
	Name of the veterinary officer	Dr. A. B. Motghare		



Sr. No.	Particulars	Information
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	Name of the Curator	Mr. J. M. Darwade
	Name of the Biologist / Education Officer	Mrs. Suvarna Kawale Chute
	Name of the Compounder/Lab Assistant	Outsourced
Owner/Operator of the Zoo		
13.	Name of the Operator	Dr. Panjabrao Deshmukh Krushi Vidyapeeth, Akola through Zoo Controller, Maharajbag Zoo, Agriculture College, Nagpur
14.	Address of the Operator	Registrar, Dr. Panjabrao Deshmukh Krushi Vidyapeeth, Krushi nagar, Akola, pin code: 444104
15.	Contact details/Phone number of the Operator	0724-2258372
16.	E-mail address of the Operator	registrar@pdkv.ac.in

7. Organizational chart

8. Human resources



Manpower of the Zoo

Sr. no.	Designation	Number of Sanctioned post	Name of Incumbent
1.	Zoo Controller	Designated	Dr. D. M. Panchbhai
2.	Officer In-charge (Zoo)/Director	1	Dr. S. S. Bawaskar
3.	Officer In-charge (Garden)	1	Mrs. S. A. Thakre
4.	Veterinary officer	1	Dr. A. B. Motghare
5.	Curator	1 (Contractual)	Mr. J. M. Darwade
6.	Education Officer cum Biologist	1 (Contractual)	Mrs. Suvarna Kawale Chute
7.	Sr. Clerk	1	Mrs. M. R. Dhore
8.	Livestock supervisor	1	Mr. M. R. Pande
9.	Head keeper	1 (Permanent) 1 (Contractual)	Mr. Babulal Yadav Mr. Haribhau Tirmale
10.	Agricultural assistant/Garden supervisor	2	Filled in
11.	Sweeper	1	Vacant
12.	Animal Keeper/labour/Mazdoor	20 (Contractual)	<ol style="list-style-type: none"> 1. Mrs. Sushila R. Khare 2. Mrs. Rajkanya M. Bageshwar 3. Mr. Ayush R. Sakhare 4. Mr. Shankar G. Kambale 5. Mr. Ganesh M. Choudhary 6. Mr. Lakhan J. Shende 7. Mr. Ganesh R. Choudhary 8. Mr. Sandip R. Adbadiya 9. Mrs. Asha R. Nikhre 10. Mrs. Chaya Dhargave 11. Mr. Siddhanath R. Choudhary 12. Ms. Konika Yadav 13. Ms. Rashmi R. Khare 14. Mr. Ajesh Edpalliwar 15. Mr. Ankit R. Dongre 16. Mr. Pruthwiraj Patil



Sr. no.	Designation	Number of Sanctioned post	Name of Incumbent
			17. Mr. Sandip L. Gedam 18. Mrs. Diksha Wahane 19. Mrs. Madhuri Tirmale 20. Mr. Rajendra R. Khare
13.	Attendant	2	1 filled 1 vacant
14.	Security Guards	14 (Outsourced)	Filled in

9. Capacity building of Zoo personnel:

During the financial year 2021-22, as a part of capacity building Zoo personnel attended online Webinars organized by various organizations due to Corona Pandemic situation. The details of trainee and conference are as follows:

Sr. No.	Name and designation of Zoo personnel	Subject of training	Period of training	Venue of training
1.	Dr. S. S. Bawaskar (Officer In-charge)	WILDCON-2020	18th to 20 th December 2020	Online platform
2.	Dr. A. B. Motghare (Veterinary Officer)	WILDCON-2020	18th to 20 th December 2020	Online platform
3.	Mr. J. M. Darwade (Curator)	WILDCON-2020 One Week National e-Training on "Wildlife Conservation and Management" Organized by Dr. PDKV, Akola	18th to 20 th December 2020 2 nd to 6 th October 2020	Online platform
4.	Mrs. Suvarna Kawale Chute	WILDCON-2020	18th to 20 th December	Online Platform



Sr. No.	Name and designation of Zoo personnel	Subject of training	Period of training	Venue of training
	(Education Officer Cum Biologist)	One Week National e-Training on "Wildlife Conservation and Management" Organized by Dr. PDKV, Akola	2020 2 nd to 6 th October 2020	

10. Zoo Advisory Committee:

Zoo advisory committee was formed on 23/08/2011 having 12 members from various related field.

1. Dr. PG Ingole
2. Dr Sharad Nimbalkar
3. Shri Umesh Chaube
4. Dr Shripad Suklikar
5. Shri Sanjay Deshpande
6. Shri Ashish Goswami
7. Dr. Anil Wagh
8. Dr. D. M. Panchbhai
9. Dr. S. S. Bawaskar
10. Dr. A. B. Motghare
11. Shri Madhukar Wankhade
12. Proff. Ram Gawande

The last meet was held on 01/03/2022

11. Health Advisory Committee:

Health advisory committee was formed on 20/06/2021 having 05 members.

1. Dr. S. S. Bawaskar
2. Dr. R. S Khobragade



3. Dr. R. D. Tembhurne
4. Dr. M. P. Roy
5. Dr. A. B. Motghare

The last meet was held on 14.03.2022

12. Statement of income and expenditure of Maharajbag

The Maharajbag Zoo is being operated by Dr. Panjabrao Deshmukh Krushi, Vidyapeeth, Akola. The income from ticketing of Maharajbag Zoo is the part of revolving fund of Dr. PDKV, Akola which provides fund to Maharajbag Zoo as per the required demand. This year Maharajbag Zoo is facing scarcity of Fund due to lockdown. The statement of income and expenditure during financial year 2021-22 is as follows.

Sr. No.	Fund granted by	Grant from Revolving Fund	Income	Expenditure	Remark
1.	Comptroller, Dr. P. K. D. V. Akola through revolving fund	Rs. 95,00,000/-	Rs. 68,50,000/-	Rs. 1,13,75,497/-	Rs. 18,75,497/- (Excess Expenditure)

13. Daily Feed schedule of animal:

Daily Feed schedule of captive animals are detailed in following table:

Sr. no.	Species	Feed item	Quantity		Day of fasting
			Winter	Summer	
1.	Tiger	Milk	300 ml only on Sunday	300 ml only on Sunday	Sunday
		Buffalo Beef/Chicken/Mutton	10kg	10kg	
2.	Leopard	Milk	200ml only on Sunday	200ml only on Sunday	Sunday
		Buffalo Beef/Chicken/Mutton	5kg	5kg	



Sr. no.	Species	Feed item	Quantity		Day of fasting
			Winter	Summer	
3.	Jackal	Milk	100 ml	100 ml	Sunday
		Buffalo Beef/Chicken/Mutton	1kg	1kg	
4.	Sloth bear	Banana	6 nos.	6 nos.	None
		Milk	750 ml	750 ml	
		Tomato	250gm	250gm	
		Carrots	300gm	300gm	
		Sweet lime	2 Nos	2 Nos	
		Guava/papaya/ Mango	100gm	100gm	
		Honey	50gm	50gm	
		Mix Grain	1.5kg	1.5kg	
5.	Blue bull	Cattle feed	2kg	2kg	None
		Para/ Berseem/ Green grass/ Vegetables	Adlib	Adlib	
6.	Spotted Deer	Cattle feed	500gm	500gm	None
		Para Grass/ Berseem /Green grass/ Vegetable	Adlib	Adlib	
7.	Chinkara / Blackbuck	Cattle feed	500 gm	500 gm	None
		Para Grass/ berseem/ green grass/ Vegetable	Adlib	Adlib	
8.	Rhesus/Bon net Monkey	Gram	100gm	100gm	None
		Apple	1 nos.	1 nos.	
		Banana	4 nos.	4 nos.	



Sr. no.	Species	Feed item	Quantity		Day of fasting
			Winter	Summer	
		Carrots	50gm	50gm	
		Cabbage	50gms	50gms	
		Sweet lime	2 Nos	2 Nos	
		Spinach	Few leaves	Few leaves	
9.	Four Horned	Cattle feed	500 gm	500 gm	None
		Paragrass/berseem/ green grass/ Vegetable	Adlib	Adlib	
10.	Emu	Banana	6 nos.	6 nos.	None
		Bread	250gm	250gm	
		Cabbage	50gm	50gm	
		Spinach	400gm	400gm	
		Gram	100gm	100gm	
		Mix grains	600 gm	600 gm	
11.	Peacock	Mix grains	300gm	300gm	None
		Spinach, Green leaves	Few leaves	Few leaves	
		Kheema	100gm	100gm	
		Onion	25gm	25gm	
		Guava/papaya/ Mango	100 gm	100 gm	
12.	Lovebird	Sunflower Seeds/ Mix grains	10 gm	10 gm	None
		Coriander	5-10gm	5-10gm	
		Rala	20gms	20gms	
		Spinach	Few leaves	Few leaves	
		Chiku/Berry/Grapes	25gm	25gm	

Sr. no.	Species	Feed item	Quantity		Day of fasting
			Winter	Summer	
		Sunflower	10 gm	10 gm	
13.	Cockatiels	Sunflower Seeds/ Mix grains	50 gm	50 gm	None
		Coriander	5-10gm	5-10gm	
		Rala	20gms	20gms	
		Spinach	Few leaves	Few leaves	
		Chiku/Berry/Grapes	25gm	25gm	
		Sunflower	10 gm	10 gm	
14.	Parrots	Sweet lime	25 gm	25 gm	None
		Guava/papaya/ Mango	100 gm	100 gm	
		Honey	10gms	10gms	
		Gram	20gm	20gm	
		Apple	100 gm	100 gm	
		Chiku/Berry/Grapes	25gm	25gm	
		Green Chilly	10gm	10gm	
		Sunflower seed	20 gm	20 gm	
15.	Crocodiles	Fish	1kg	1kg	None
16.	Tortoise	Tomato	50 gm	50 gm	None
		Cabbage	10 gm	10 gm	
17.	Otter	Fish	2kg	2kg	None

** Note: Feeding items quantity/animal.



14. Vaccination schedule of animal:

Sl.No.	Species	Disease vaccinated for	Name of the Vaccine and dosage/ quantity used	Periodicity	Remarks
1.	Tiger	Rabies	Rabivac Vet	Annually	-
2.	Leopard				-
3.	Jackal				-

15. Fecal Sample and De-worming schedule of animal:

Species		Particulars	Drug used	Month
Carnivores	Tiger Leopard Jackal	Fecal sample	-	6 th of January, April, July and October
		Deworming	Tab. Prazisam	8 th of January, April, July and October
Herbivores and Omnivores	Blue bull Black Buck Spotted Deer Four Horned Antelope Sloth bear	Fecal sample	-	5 th of January, April, July and October
		Deworming	Liq. A-Zole/F-Zole, Ivermectin	7 th of January, April, July and October
Primates	Monkey	Fecal sample	-	5 th of January, April, July and October
		Deworming	Liq. F-Zole	7 th of January, April, July and October
Aves	Birds	Deworming	Liq. Piperazine	7 th of January, April, July and October

16. Disinfection schedule:

Sr.No.	Species	Type of enclosure	Disinfectant used and method	Frequency of disinfection
1.	Tiger	Open	ViraCid-S and Kohrsolin-Th (Spraying)	Every Month
2.	Leopard	Closed		
3.	Jackal	Open		
4.	Sloth bear	Closed		
5.	Monkey	Closed		
6.	Birds	Closed		

17. Health check-up of employees for Zoonotic diseases:

Considering Corona Outbreak in Nagpur the Health Checkup camp was organized at Maharajbag Zoo which was opened to all. The team of All India Institute of Medical Sciences (AIIMS), Nagpur carried out the Health checkup and collected the Samples for RT-PCR test on 7th of May 2020. All the zoo personnel's and their family member attended this camp and given sample for RT-PCR test.

Sr. no.	Name	Designation	Date of health check-up	Findings of health check up
1.	Dr. Sunil S. Bawaskar	Officer In charge	7/05/2021	Negative for SARS-CoV2 RNA
2.	Mr. Baburao Yadav	Head Keeper	7/05/2021	Negative for SARS-CoV2 RNA
3.	Mr. Jaykumar Darwade	Curator	7/05/2021	Negative for SARS-CoV2 RNA
4.	Mrs. Suvarna Kawale Chute	Education Officer Cum Biologist	Absent (Quarantined at Home)	-
5.	Mrs. Asha Rajendra	Animal Keeper	7/05/2021	Negative for SARS-



Sr. no.	Name	Designation	Date of health check-up	Findings of health check up
	Nikhare			CoV2 RNA
6.	Mr. Ganesh M. Choudhary	Animal Keeper	7/05/2021	Negative for SARS-CoV2 RNA
7.	Mrs. Chhaya Dhargave	Animal Keeper	7/05/2021	Negative for SARS-CoV2 RNA
8.	Mr. Sharad Choudhary	Animal Keeper	Absent (Quarantined at Home)	-
9.	Mr. Harilal Tirmale	Animal Keeper	7/05/2021	Negative for SARS-CoV2 RNA
10.	Mrs. Mukta Dhore	Head Clerk	7/05/2021	Negative for SARS-CoV2 RNA
11.	Mrs. Rajkanya Bageshwar	Animal Keeper	7/05/2021	Negative for SARS-CoV2 RNA
12.	Mr. Ayush Sakhare	Animal Keeper	7/05/2021	Negative for SARS-CoV2 RNA
13.	Mr. Ganesh R. Choudhary	Animal Keeper	7/05/2021	Negative for SARS-CoV2 RNA
14.	Mr. S. B. Kale	Animal Keeper	7/05/2021	Negative for SARS-CoV2 RNA
15.	Mr. Mohammad Farooq Mohammad Harun	Security Guard	7/05/2021	Negative for SARS-CoV2 RNA
16.	Mrs. Sushila Khare	Animal Keeper	7/05/2021	Negative for SARS-CoV2 RNA
17.	Mr. Mahesh Pande	Livestock Supervisor	Absent (Quarantined at Home)	-
18.	Dr. A. B. Motghare	Veterinary Officer	7/05/2021	Negative for SARS-CoV2 RNA

Sr. no.	Name	Designation	Date of health check-up	Findings of health check up
19.	Mr. Shankar Kamble	Animal Keeper	7/05/2021	Negative for SARS-CoV2 RNA
20.	Mr. Ankit Patil	Animal Keeper	7/05/2021	Negative for SARS-CoV2 RNA
21.	Mr. Ankit Dongre	Animal Keeper	7/05/2021	Negative for SARS-CoV2 RNA

18. Development work carried out in the zoo during the year:

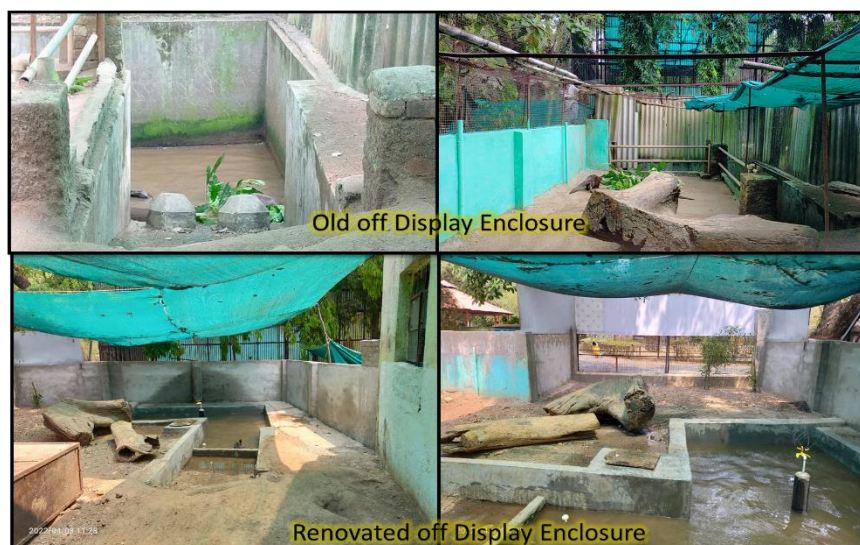
Year 2020-21 spent more in Corona pandemic due to this Zoo was closed for almost 9 months. Not more could be done this year but some development work carried out in the zoo as a compliance of CZA condition, for the upkeep, beautification and as a part of Zoo management. List of renovation, modernization of existing enclosures and development of new enclosure with development work as a part of enhancing the enrichment activities to improve the animal enclosure resembling to its natural habitat is given below.

I. Development for captive Animals and birds:

🌿 Otter:

Old off display enclosure of Otter is renovated.

Photograph I: Showing previous and new enclosure of otter



🌿 Miscellaneous :

Mass plantations have been carried out in the Zoo premises and within the enclosures to improve its naturalistic environment. Various species of shrub, trees have been planted along the boundary wall of enclosures and zoo.

Photograph II: Plantation in the Zoo Premises



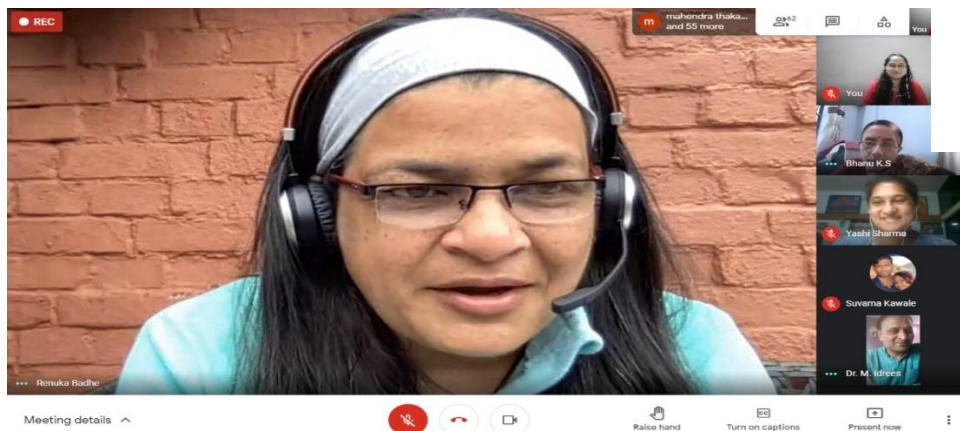
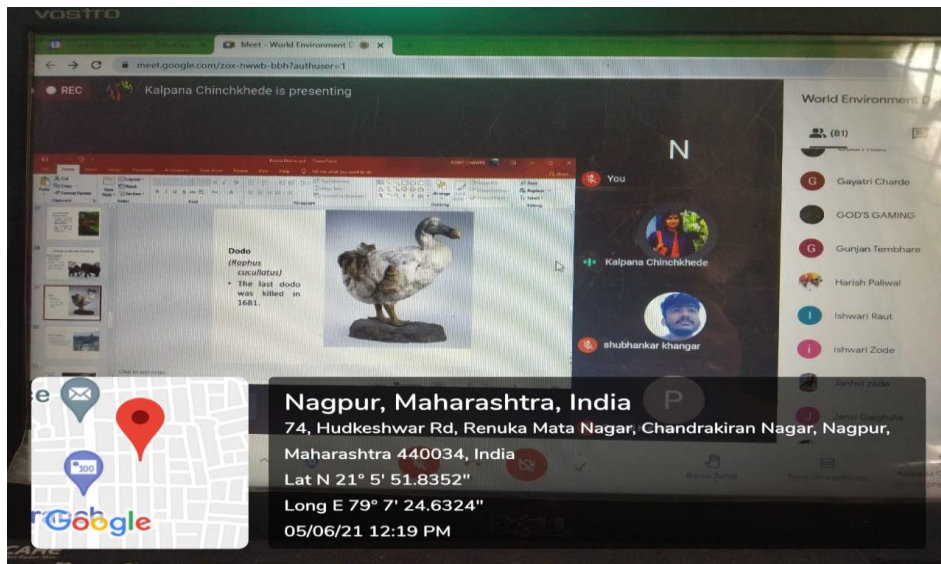
Education and awareness programs during the year:

Zoo education is significant part of zoo for creating awareness about wildlife and its conservation among the visitors. Considering Corona Pandemic Zoo education program held during year 2021-22 through online mode which are listed below:

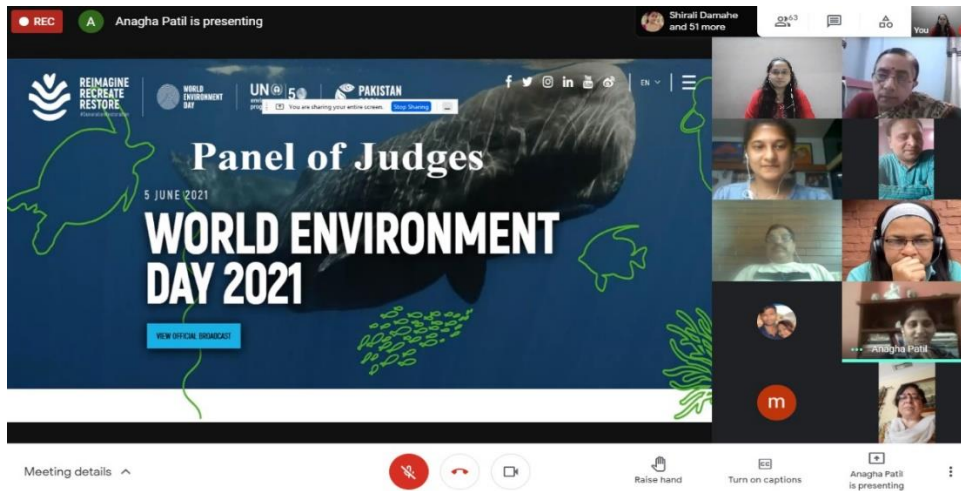
Sr. No.	Date	Title of Educational programme
1.	5 th June 2021	World Environment Day
2.	29 th July 2021	International Tiger Day
3.	2 nd to 8 th October 2021	World Wildlife Week
4.	4 th October 2021	International Zoo Keepers Day
5.	5 th to 12 th November 2021	Bird Week
6.	3 rd March 2022	World Wildlife Day

1. World Environment Day – 5th June 2021:

One day online guest lecture and competition on topic 'Reimagine-recreate-restore your neighborhood' were organized on the occasion of World Environment Day. Students from local colleges were participated enthusiastically in the events.

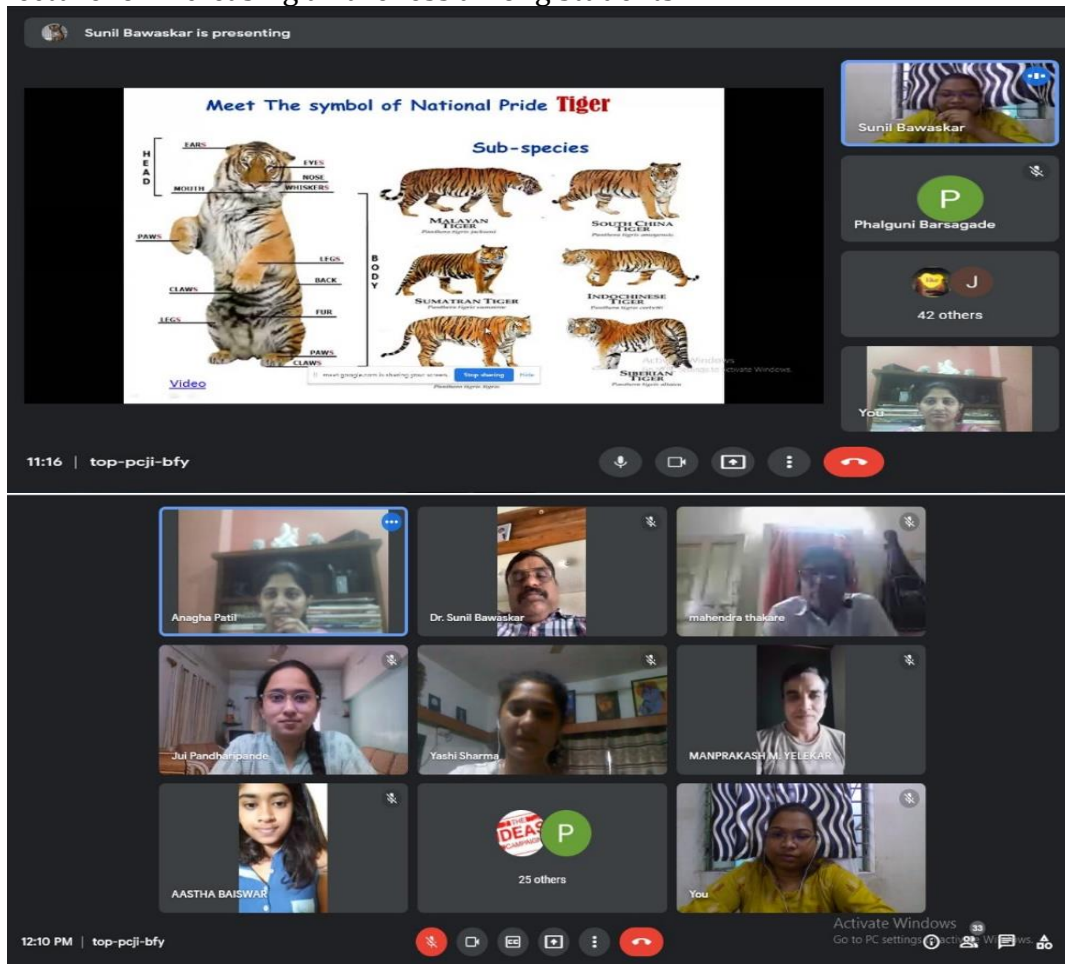


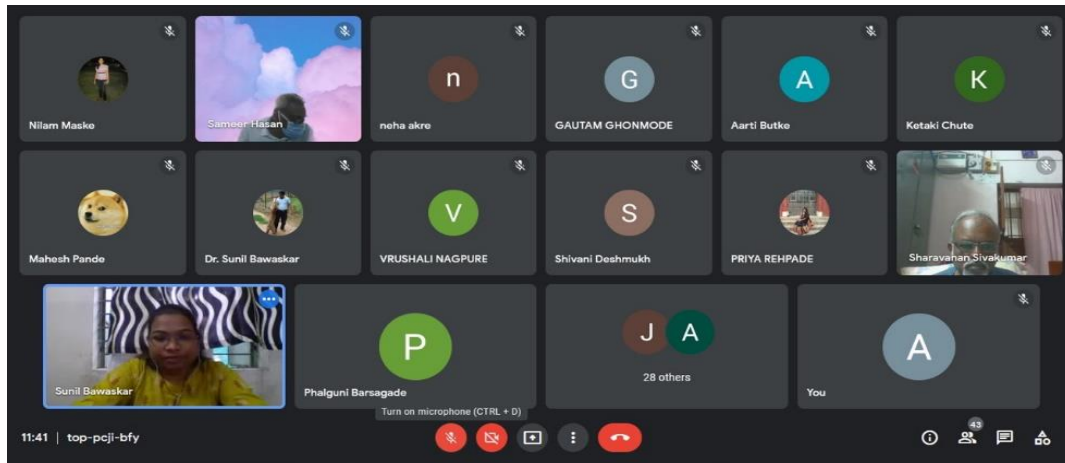
**Photograph III:
World Environment
Day Celebration**



2. International Tiger Day-29th July 2021:

International Tiger day was celebrated through inline mode by organizing a guest lecture for increasing awareness among students.





Photograph IV: International Tiger Day Celebration

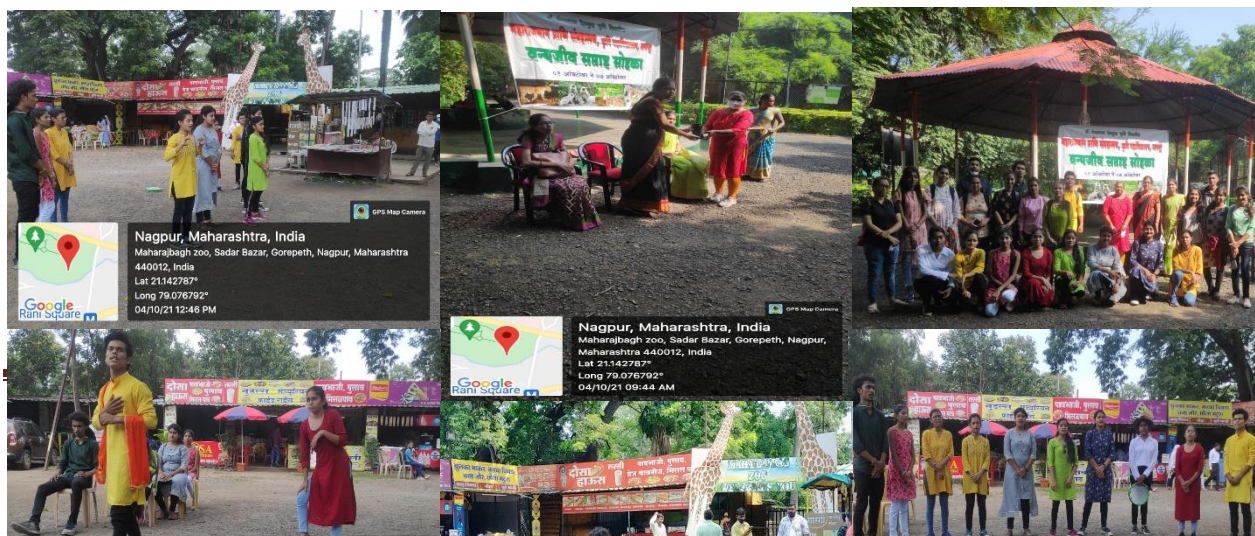
3. World Wildlife Week -2nd to 8th October 2021

Series of Expert talks on Wildlife Management in Zoo, Wildlife conservation, Experience in Forest etc., interactions, Skit performance and competitions like poster competition on Wildlife conservation, Scientific story representation of wild native species, wildlife quiz, wildlife photography competition on the topic wilderness in natural habitat were arranged. Approximately 150 students were participated in this educational activity. The schedule and photographs are given below.

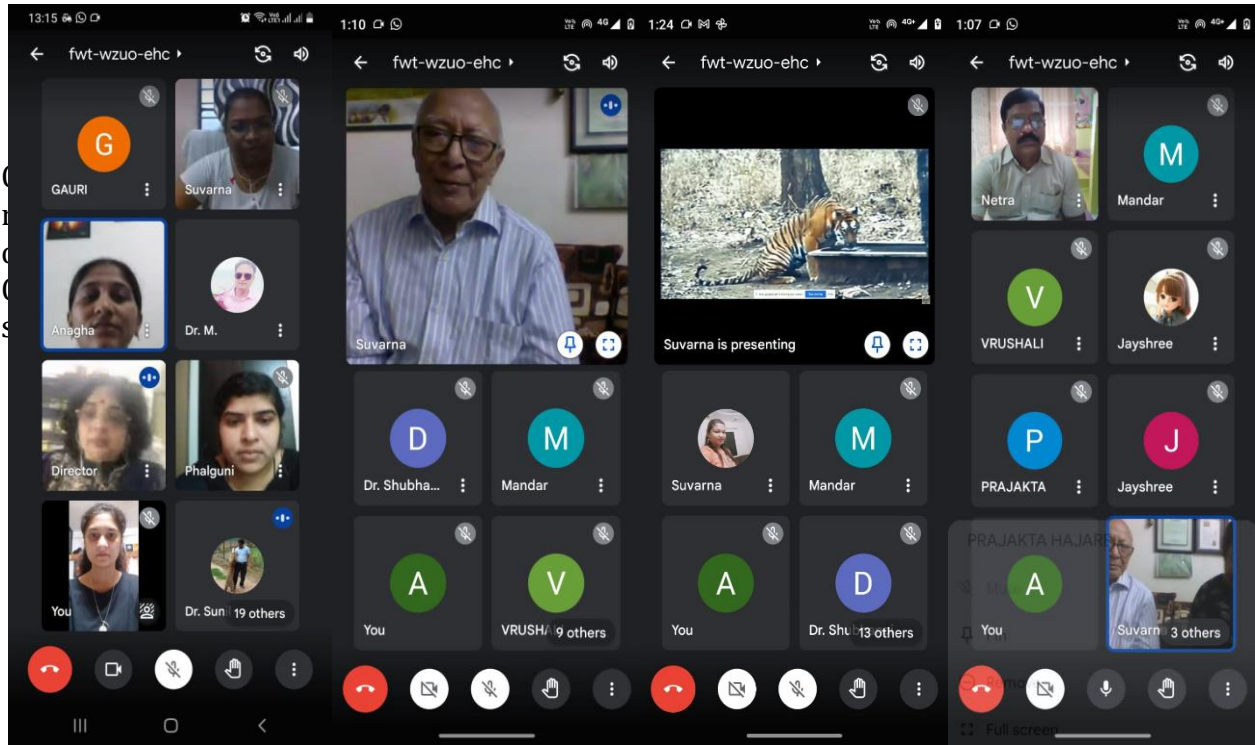
SCHEDULE OF EVENTS

Date	Time	Events	Resource person
1st Oct 21	11.00 AM	<ul style="list-style-type: none"> Wildlife week inaugural session (Kamla Neharu Mahavidyalaya, Nagpur) Guest Lecture (online) 	<ul style="list-style-type: none"> Guest-Dr. S. S. Bawaskar, Officer in charge, Maharajbag Zoo, Nagpur Ms. Suvarna Kawale, Education Officer, Officer in charge, Maharajbag Zoo, Nagpur
2nd Oct 21	1.00 PM	<ul style="list-style-type: none"> Wildlife week inaugural session (with Institute of Science, Nagpur) Guest Lecture (online) 	<ul style="list-style-type: none"> Guest-1. Dr. Anjali Rahatgaokar, Director Institute of Science, Nagpur 2. Dr. S. S. Bawaskar, Officer in charge, Maharajbag Zoo, Nagpur Ms. Suvarna Kawale, Education Officer, Officer in charge, Maharajbag Zoo, Nagpur
4th Oct 21	9.00 AM	<ul style="list-style-type: none"> Skit performance competition Poster Competition - topic 'Wildlife conservation' Zoo Visit 	<ul style="list-style-type: none"> Student Participation (At Maharajbag Zoo, Nagpur)
	1.00 AM	<ul style="list-style-type: none"> Scientific Story representation competition (Online) 	<ul style="list-style-type: none"> Student Participation
5th Oct 21	9.00 AM	<ul style="list-style-type: none"> Online Zoo Visit 	<ul style="list-style-type: none"> Student Participation
	11.00 AM	<ul style="list-style-type: none"> Expert Talk on management of Zoo and captive animals 	<ul style="list-style-type: none"> Dr. S. S. Bawaskar, Officer in charge, Maharajbag Zoo, Nagpur
	1.00 AM	<ul style="list-style-type: none"> Guest Lecture on veterinary practices at zoo wildlife quiz competition (online) 	<ul style="list-style-type: none"> Dr. A. B. Motghare, Veterinary Officer, Maharajbag Zoo, Nagpur
6th Oct 21	10.00	<ul style="list-style-type: none"> Intercollegiate Rangoli Competition - Theme 'Endangered Wild Species' (Free Registration) 	<ul style="list-style-type: none"> Online competition
	1.00 PM	<ul style="list-style-type: none"> Expert Talk on - मु. पो. मचान 	<ul style="list-style-type: none"> Shri. Gopal Thosar Sir, Ex. Wildlife Warden, Nagpur District
7th Oct 21	11.00 AM	<ul style="list-style-type: none"> Expert Talk on – Wildlife conservation 	<ul style="list-style-type: none"> Dr. Jayant Wadatar, Honorary Wildlife Warden, Amravati District
	1.00 PM	<ul style="list-style-type: none"> Expert Talk on - वन्यजीव छायाचित्रण व निरीक्षण करताना घ्यायवयाची काळजी Wildlife photography competition on 'Wilderness in Natural Habitat' 	<ul style="list-style-type: none"> Shri. Ratnakar Anantrao Nagapurkar, Deputy Director, Forest Training Institute, Jalana, Maharashtra. Online competition
8th Oct 21	1.00 AM	<ul style="list-style-type: none"> Expert Talk Wildlife Film followed by Valedictory program and announcement of results 	<ul style="list-style-type: none"> Dr. Anagha Patil, Faculty, Dept of Env. Science, Institute of Science, Nagpur

Photograph V: Schedule of Wildlife Week Celebration



Photographs VI: Zoo visit and Skit Performance by Students



Photographs VII: Online Expert Talks



Photographs VIII: Poster Competition

4. International Zoo Keepers day:

Zoo keepers are the back bone of the Zoo, to appreciate their work College students witnessed the International Zoo Keepers day on 4th October 2021 in the Zoo Premises. Our Keepers shared their experiences with the students.



Photographs IX: International Zoo Keppers Day

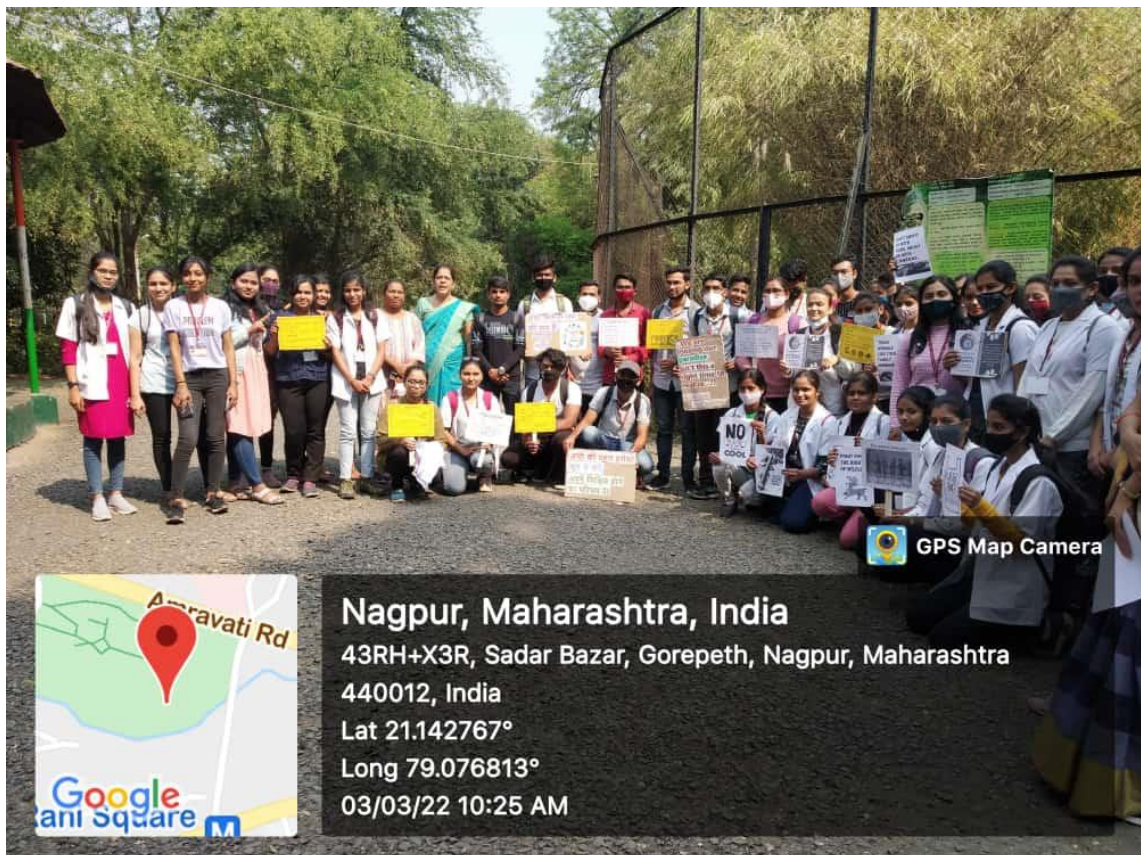
5. Bird Week Celebration- 5th to 12th November 2021:

Government of Maharashtra had declared 5th -12th November as Bird week in remembrance of Dr. Salim Ali and Mr. Maruti Chitampaali. Considering Corona Pandemic one day Bird Watching event was organized at Maharajbag Zoo premises. Details are given below in the photographs.



Photographs X: Bird watching during Bird Week 2021.**6. Wildlife Day- 3rd March 2022:**

Zoo visit of college students was organized on the occasion of Wildlife day. Students were holding the placard with written messages about conservation of natural resources and wildlife conservation.

**Photograph XI : Wildlife Day Celebration**

Important Events and happenings in the zoo:

Due to Corona situation strict hygiene measures are adopted to avoid contamination in the Zoo premises which mainly includes everyday cleaning of zoo clothes of animal keepers, cleaning of feeding stuff (Meat/vegetables/grasses etc) with hot water, regular health screening at the entrance.

Seasonal special arrangements for upkeep of animals:

Curator in consultation with veterinary officer makes special arrangements with respect change in season. Special seasonal arrangements in practice for zoo captive animals are as follows:

☀ Summer season:

- ✓ Regular cutting of fire lines made before onset of summer all along the boundary of the zoo.
- ✓ Fire lines are kept clean of leaves and fallen branches all the time throughout the summer.
- ✓ Arrangement of coolers for each animal enclosures,
- ✓ Regular sprinkling of water is practiced regularly in day times.
- ✓ Blanketing the cover of hay or dried twigs on the animal's enclosure, night shelter to provide coolness.
- ✓ Provision of water and feed for free birds, squirrels etc. living in the Zoo.

☀ Winter season:

- ✓ Arrangements of heaters for the animals.
- ✓ Provision of natural bedding materials like leaves, hay etc.
- ✓ Covering of animal enclosure with clothes, blanket or green net to avoid cool air.

☀ Rainy season:

- ✓ Cement sheds already provided for all animals thus no special arrangement made in rainy season. If needs some special arrangement then it will be practiced as per the requirement.

Research work carried out and publication:

Research were carried out in the domain of enrichment activities and the Abstracts on 'Feeding enrichment of sloth Bear' and 'Behavioral study of Royal Bengal Tiger after applying Cognitive Enrichment' was submitted in the WILDCON-2020 organized by the



wildlife research and training centre , Gorewada rescue centre, Nagpur & Association of Indian Zoos & Wildlife veterinarians , Bareilly on 'Insights into wildlife conflicts, rescue and rehabilitation,: Challenges and opportunities for conservation' held during 18th-20th December 2020. The abstract entitled 'Feeding enrichment of sloth Bear' was awarded with 2nd prize in 'Zoo Biology & conservation' session.

Conservation breeding program of the Zoo:

During 2021-22 no any project was assigned to this zoo regarding conservation breeding program.

Animal Acquisition/transfer/exchange during the year:

A.		Animal Arriving in the zoo			
	H. No.	Species	Number (M:F)	From which Zoo	Date of arrival in the Zoo
	Nil	Nil	Nil	Nil	Nil
B.		Animals going from the Zoo			
	H. No.	Species	Number (M:F)	Going to which Zoo	Date of deposition from the Zoo
	Nil	Nil	Nil	Nil	Nil

Rescue and rehabilitation of wild animals carried out by the zoo:

Sr. No.	Date of rescue	Species with number of	Received from	Date of submission of report to the	Action Taken	
					Date and place of rehabilitati	Reason for housing in the zoo if



		animals rescued with their sex (M:F:U:T)		CWLW/CZA	on	not released in their habitat
Nil						



FORM-II
[See rule 11 (1)]

PART - A
Maharajbag Zoo, Nagpur, Maharashtra

Proforma for Annual Inventory Report
Inventory Report for the Year : 2021-2022

Endangered Species*

- Modified Closing Balance

S.No.	Animal Name	Scientific Name	Opening Stock (01-Apr-2021)				Births			Acquisitions			Disposals			Deaths			Closing Stock (31-Mar-2022)			
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
Aves																						
1.	Indian Peafowl	<i>Pavo cristatus</i>	2	1	0	3	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	2
Total Aves		1	2	1	0	3	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	2
Mammalia																						
1.	Blackbuck	<i>Antilope cervicapra</i>	7	6	0	13	1	2	0	0	0	0	0	0	0	0	0	0	8	8	0	16
2.	Indian Jackal	<i>Canis aureus indicus</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
3.	Chinkara	<i>Gazella bennettii</i>	1	1	0	2	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
4.	Smooth-coated Otter	<i>Lutrogale perspicillata</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
5.	Rhesus Macaque	<i>Macaca mulatta</i>	3	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	3	2	0	5
6.	Bonnet Macaque	<i>Macaca radiata</i>	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	0	0	2

S.No.	Animal Name	Scientific Name	Opening Stock (01-Apr-2021)				Births			Acquisitions			Disposals			Deaths			Closing Stock (31-Mar-2022)			
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
7.	Sloth Bear	<i>Melursus ursinus</i>	2	3	0	5	0	0	0	0	0	0	0	0	0	0	1	0	2	2	0	4
8.	Leopard	<i>Panthera pardus</i>	2	3	0	5	0	0	0	0	0	0	0	0	0	1	0	0	1	3	0	4
9.	Bengal Tiger	<i>Panthera tigris tigris</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
10.	Four-horned Antelope	<i>Tetracerus quadricornis</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Total Mammalia	10		19	17	0	36	1	2	0	2	0	0	0	0	0	2	2	0	20	17	0	37
Reptilia																						
1.	Marsh Crocodile	<i>Crocodylus palustris</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
Total Reptilia	1		1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
Total			22	19	0	41	1	2	0	2	0	0	0	0	0	2	3	0	23	18	0	41

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

Curator (Animals)

Director

PART - B
Maharajbag Zoo, Nagpur, Maharashtra

Proforma for Annual Inventory Report
Inventory Report for the Year : 2021-2022

Other than Endangered Species*

- Modified Closing Balance

S.No.	Animal Name	Scientific Name	Opening Stock (01-Apr-2021)				Births			Acquisitions			Disposals			Deaths			Closing Stock (31-Mar-2022)			
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
Aves																						
1.	# Emu	<i>Dromaius novaehollandiae</i>	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4
2.	Budgerigar	<i>Melopsittacus undulatus</i>	0	0	200	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200	200
3.	Cockatiel	<i>Nymphicus hollandicus</i>	0	0	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	100
4.	Alexandrine Parakeet	<i>Psittacula eupatria</i>	7	7	0	14	0	0	0	0	0	0	0	0	0	0	0	7	7	0	14	
5.	Rose-ringed Parakeet	<i>Psittacula krameri</i>	8	3	0	11	0	0	0	0	0	0	0	0	1	0	0	7	3	0	10	
Total Aves		5	17	12	300	329	0	0	0	0	0	0	0	0	1	0	0	18	10	300	328	
Mammalia																						
1.	Chital/ Spotted Deer	<i>Axis axis</i>	10	23	0	33	1	2	0	0	0	0	0	0	0	0	0	11	25	0	36	

S.No.	Animal Name	Scientific Name	Opening Stock (01-Apr-2021)				Births			Acquisitions			Disposals			Deaths			Closing Stock (31-Mar-2022)			
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
2.	Nilgai	<i>Boselaphus tragocamelus</i>	5	5	0	10	1	0	0	0	0	0	0	0	0	0	0	0	6	5	0	11
Total Mammalia	2		15	28	0	43	2	2	0	0	0	0	0	0	0	0	0	0	17	30	0	47
Reptilia																						
1.	Indian Star Tortoise	<i>Geochelone elegans</i>	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0	2
Total Reptilia	1		1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0	2
Total			33	40	300	373	2	2	0	1	0	0	0	0	0	1	0	0	37	40	300	377
Grand Total			55	59	300	414	3	4	0	3	0	0	0	0	0	3	3	0	60	58	300	418

Curator (Animals)

Director

List of free living wild animals within the zoo premises:

Free living wild animals found within the zoo premises are listed below:

a. Mammals	
1	Rhesus Macaque (<i>Macaca mulatta</i>)
2	Indian Palm Civet (<i>paradoxurus hermaphroditus</i>)
3	Three Striped Palm Squirrel (<i>Funambulus palmarum</i>)
4	Common Grey Mongoose (<i>Herpestes edwardsi</i>)
b. Birds	
1.	Little Egret (<i>Egretta garzetta</i>)
2.	Cattle Egret (<i>Bubulcus ibis</i>)
3.	Indian Pond Heron (<i>Ardeola grayii</i>)
4.	Oriental Honey Buzzard (<i>Pernis ptilorhynchus</i>)
5.	Black-shouldered Kite (<i>Elanus axillaris</i>)
6.	Black Kite (<i>Milvus migrans</i>)
7.	Shikra (<i>Accipiter badius</i>)
8.	Eurasian Sparrow hawk (<i>Accipiter nisus</i>)
9.	White-eyed Buzzard (<i>Butastur teesa</i>)
10.	Grey Francolin (<i>Francolinus pondicerianus</i>)
11.	Common Quail (<i>Coturnix coturnix</i>)
12.	Rain Quail (<i>Coturnix coromandelica</i>)
13.	Jungle Bush Quail (<i>Perdica asiatica</i>)
14.	Rock Bush Quail (<i>Perdica argoondah</i>)
15.	Small Button Quail (<i>Turnix sylvaticus</i>)
16.	Common Peafowl (<i>Pavocristatus</i>)



17.	White-breasted Waterhen(<i>Amaurornisphoenicurus</i>)
18.	Red-wattled Lapwing (<i>Vanellusindicus</i>)
19.	Little Ringed Plover (<i>Charadriusdubius</i>)
20.	Common Sandpiper (<i>Actitishypoleucos</i>)
21.	Wood Sandpiper (<i>Tringaglareola</i>)
22.	Little Brown Dove (<i>Spilopeliasenegalensis</i>)
23.	Spotted Dove (<i>Spilopeliachinensis</i>)
24.	Yellow-footed Green Pigeon (<i>Treronphoenicoptera</i>)
25.	Rock Pigeon (<i>Columba livia</i>)
26.	Plum-headed Parakeet (<i>Psittaculacyanocephala</i>)
27.	Rose-ringed Parakeet (<i>Psittaculakramerī</i>)
28.	Eurasian Cuckoo (<i>Cuculuscanorus</i>)
29.	Indian Cuckoo (<i>Cuculusmicropterus</i>)
30.	Common Hawk-Cuckoo (<i>Hierococcyxvarius</i>)
31.	Pied Cuckoo (<i>Clamatorjacobinus</i>)
32.	Asian Koel(<i>Eudynamysscolopaceus</i>)
33.	Greater Coucal(<i>Centropussinensis</i>)
34.	Collared Scops Owl (<i>Otuslettia</i>)
35.	Jungle Owlet (<i>Glaucidiumradiatum</i>)
36.	Spotted Owlet (<i>Athenebrama</i>)
37.	Asian Palm Swift (<i>Cypsiurusbalasiensis</i>)
38.	House Swift (<i>Apusnipalensis</i>)
39.	Indian Roller (<i>Coraciasbenghalensis</i>)
40.	Black-hooded Oriole (<i>Oriolusxanthornus</i>)

41.	Indian Pitta (<i>Pitta brachyura</i>)
42.	Ashy crowned Sparrow Lark (<i>Eremopterixgriseus</i>)
43.	Rufous-tailed Lark (<i>Ammomanesphoenicura</i>)
44.	Sykes Lark (<i>Galerida deva</i>)
45.	Oriental Skylark (<i>Alaudagulgula</i>)
46.	Dusky Crag Martin (<i>Ptyonoprogneconcolor</i>)
47.	Wire-tailed Swallow (<i>Hirundosmithii</i>)
48.	Red-rumped Swallow (<i>Cecropisdaurica</i>)
49.	Streak-throated Swallow (<i>Petrochelidonfluvicola</i>)
50.	Black Drongo(<i>Dicrurusmacrocerus</i>)
51.	Common Woodshrike(<i>Tephrodornispondicerianus</i>)
52.	Long-tailed Shrike (<i>Laniusschach</i>)
53.	Bay-backed Shrike (<i>Laniusvittatus</i>)
54.	Chestnut-tailed Starling (<i>Sturniamalabarica</i>)
55.	Brahminy Starling (<i>Sturniapagodarum</i>)
56.	Rosy Starling (<i>Pastor roseus</i>)
57.	Asian Pied Starling (<i>Gracupica contra</i>)
58.	Common Myna(<i>Acridotherestrictis</i>)
59.	Indian House Crow (<i>Corvussplendens</i>)
60.	Large Cuckoo shrike (<i>Coracinamacei</i>)
61.	Black headed Cuckoo-shrike (<i>Coracinamelanoptera</i>)
62.	Small Minivet(<i>Pericrocotuscinnamomeus</i>)
63.	Red-vented Bulbul (<i>Pycnonotuscafer</i>)
64.	White-browed Bulbul (<i>Pycnonotusluteolus</i>)



65.	Tawny-bellied Babbler (<i>Dumetia hyperythra</i>)
66.	Yellow-eyed Babbler (<i>Chrysommasinense</i>)
67.	Jungle Babbler (<i>Turdoides striata</i>)
68.	Asian Brown Flycatcher (<i>Muscicapalatirostris</i>)
69.	Red throated Flycatcher (<i>Ficedula albicilla</i>)
70.	Tickell's Blue Flycatcher (<i>Cyornis tickelliae</i>)
71.	Asian Paradise Flycatcher (<i>Terpsiphone paradisi</i>)
72.	Black-naped Monarch (<i>Hypothymis azurea</i>)
73.	White-browed Fantail (<i>Rhipidura aureola</i>)
74.	Whitet-hroated Fantail (<i>Rhipidura albicollis</i>)
75.	Ashy Prinia (<i>Prinia socialis</i>)
76.	Plain Prinia (<i>Prinia inornata</i>)
77.	Jungle Prinia (<i>Prinia sylvatica</i>)
78.	Clamorous Reed Warbler (<i>Acrocephalus tentoreus</i>)
79.	Great Tit (<i>Parus major</i>)
80.	Paddy field Pipit (<i>Anthus rufulus</i>)
81.	White browed Wagtail (<i>Motacilla maderaspatensis</i>)
82.	White Wagtail (<i>Motacilla alba</i>)
83.	Purple-rumped Sunbird (<i>Leptocomazeylonica</i>)
84.	Purple Sunbird (<i>Cinnyris asiaticus</i>)
85.	Oriental White-eye (<i>Zosterops palpebrosus</i>)
86.	Pale-billed Flowerpecker (<i>Dicaeum erythrorhynchos</i>)
87.	Red Avadavat (<i>Amandava amandava</i>)
88.	Indian Silverbill (<i>Lonchura malabarica</i>)



89.	White-rumped Munia (<i>Lonchura striata</i>)
90.	Scaly-breasted Munia (<i>Lonchura punctulata</i>)
91.	House Sparrow (<i>Passer domesticus</i>)
92.	Baya Weaver (<i>Ploceus philippinus</i>)
93.	Common Stonechat (<i>Saxicolatorquatus</i>)
94.	White throated Ground Thrush (<i>Geocichla citrinacyanotis</i>)
95.	Brown Rock Chat (<i>Cercomela fusca</i>)
96.	Oriental Magpie Robin (<i>Copsychus saularis</i>)
97.	Indian Robin (<i>Saxicoloides fulicatus</i>)
98.	Pied Bushchat (<i>Saxicola caprata</i>)
99.	Black rumped Flameback (<i>Dinopium benghalense</i>)
100.	Yellow-crowned Woodpecker (<i>Dendrocopos mahrattensis</i>)
101.	Common Iora (<i>Aegithina tiphia</i>)
102.	Golden-fronted Leafbird (<i>Chloropsis aurifrons</i>)
103.	Booted Warbler (<i>Iduna caligata</i>)
105.	Common Tailorbird (<i>Orthotomus sutorius</i>)
105.	Orphean Warbler (<i>Sylvia hortensis</i>)
106.	Lesser Whitethroat (<i>Sylvia curruca</i>)
107.	Common Chiffchaff (<i>Phylloscopus collybita</i>)
108.	Greenish Warbler (<i>Phylloscopus trochiloides</i>)
109.	Black Redstart (<i>Phoenicurus ochruros</i>)
110.	Pied Kingfisher (<i>Ceryle rudis</i>)
111.	Common Kingfisher (<i>Alcedo atthis</i>)
112.	White-throated Kingfisher (<i>Halcyon smyrnensis</i>)



113.	Green Bee-eater (<i>Meropsorientalis</i>)
114.	Coppersmith Barbet (<i>Megalaimahaemacephala</i>)
115.	Common Hoopoe (<i>Upupaepops</i>)
116.	Common Grey Hornbill (<i>Ocycerosbirostris</i>)
c. Reptiles	
1	Common Sand (Russell's Earth) (<i>Boa Gongylophis (Eryx) conicus</i>)
2	Indian Rock Python (<i>Python molurusmolurus</i>)
3	Trinket Snake (<i>Coelognathus (Elaphe) helena Helena</i>)
4	Common Rat Snake (<i>Ptyas mucosa</i>)
5	CheckeredKeelback (<i>Xenochrophispiscator</i>)
6	Common Kukri Snake (<i>Oligodanarnensis</i>)
7	Common Wolf Snake (<i>Lycodonaulicus</i>)
8	Indian Egg-eater (<i>Elachistodonwestermanni</i>)
9	Cat Snake(<i>Boigatrigonata</i>)
10	Indian Cobra (<i>Najanaja</i>)
11	Common Indian Krait (<i>Bungaruscaeruleus</i>)
12	Russell's Viper (<i>Daboiarusselli</i>)