



Maharajbag Zoo,

College of Agriculture, Nagpur

Annual Report

Year 2022-23



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1. Report of the office In-charge:

We are happy to present the Annual Report for the year 2022-23, 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 2022-23 is ended up with some success and failure in zoo. We are proud to announce herewith the Maharajbag Zoo has completed its 129 years of existence in the year 2022-23.

The Maharajbag zoo is located in the heart of the Nagpur city with Lush green belt with huge old and rare trees. The zoo is working as lung of the City to minimize the pollution and temperature. The Maharajbag Zoo is one of the oldest Zoo of India established in 1894. 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.

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 and has welcome new species i.e. Hog Deer from Kanan Pendari Zoological park, Bilaspur, Chattisgarh.

I express my sincere thanks to the Dr. Panjabrao Deshmukh Krushi Vidyapeeth, Akola, Agricultural College, Nagpur, the technical and non-technical staff of Maharajbag Zoo 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 129 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 Deshmukh 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 is 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 officer 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 officer 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 officer 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 officer 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 officer In-charge for overall activities.



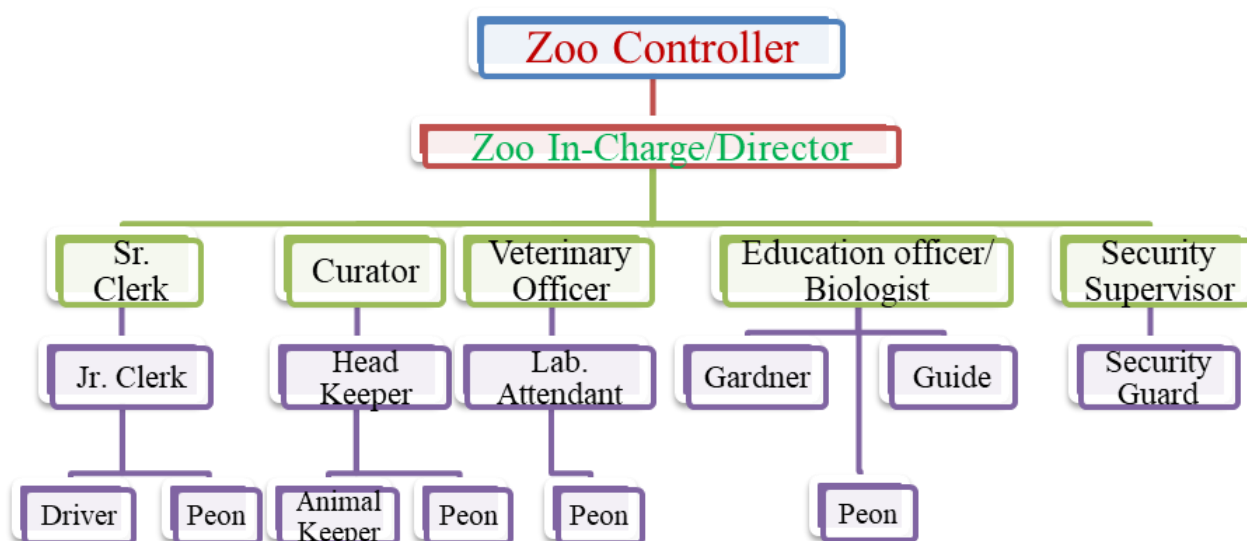
Silent features of the Zoo:

| 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 |
|----------------------------------|--|---|
| | 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. P. R. Kadu |
| 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. Shankar G. Kambale 4. Mr. Ganesh M. Choudhary 5. Mr. Sandip R. Adbadiya 6. Mr. Ganesh R. Choudhary 7. Mrs. Asha R. Nikhre 8. Mrs. Chaya Dhargave 9. Mr. Siddhanath R. Choudhary 10. Ms. Rashmi R. Khare 11. Mr. Sandip L. Gedam 12. Mrs. Madhuri Tirmale 13. Mr. Rajendra R. Khare 14. Ms. Arati S. Kamble 15. Mr. Lakhan J. Shende 16. Mr. Ramjeet R. Yadav 17. Mr. Vikrant P. Kitke 18. Mr. Dipali D. Bante 19. Mr. Rakesh R. Harkande |



| Sr. no. | Designation | Number of Sanctioned post | Name of Incumbent |
|---------|-----------------|---------------------------|--------------------------|
| | | | 20. Mr. Rajesh G. Bawane |
| 13. | Attendant | 2 | 1 filled 1 vacant |
| 14. | Security Guards | 14 (Outsourced) | Filled in |

9. Capacity building of Zoo personnel:

As a part of capacity building During year 2022-23 the Zoo staff attended Various trainings, conferences and workshop organized by Central Zoo Authority, New Delhi. The details of capacity building of zoo personnels are as follows: 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) | National conference for Zoo Directors, Organized by Central Zoo Authority, New Delhi. | 18th to 20th January 2023 | Sri. Chamarajendra Zoologica Garden, Mysuru , Karnataka |
| 2. | Mrs. Suvarna Kawale Chute (Education Officer Cum Biologist) | National Capacity Enhancement Workshop for Education Officer Organized by Central Zoo Authority, New Delhi. | 15 th to 17 th February 2023 | Veer mata Jijabai Bhosle Udyan & Zoo, Mumbai, Maharashtra |
| 3. | Mr. M. R. Pande (Livestock Supervisor) | National Capacity Enhancement Workshop for Zoo Biologist Organized by Central Zoo Authority, New Delhi. | 23 rd to 25th November 2022 | Nehru Zoological Park, Hyderabad |
| 4. | Mr. Rajendra J. Raut Mr. Ganesh Choudhary (Animal Keeper) | Training for Zoo Keepers Organized by Central Zoo Authority, New Delhi. | 16 th to 18 th March 2023 | Jaipur Zoo. Rajsthan |



10. Zoo Advisory Committee:

Zoo advisory committee is formed on 23/08/2011 which includes experts from related fields. The last meet was held on 24/02/2023. The list of the members of Zoo advisory committee are given below:

1. Dr. P. G. 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

11. Health Advisory Committee:

On 20/06/2021, the health advisory committee was formed which includes 5 members. The last meet was held on 10.03.2023. Members list is given below.

- 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

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. The statement of income and expenditure during financial year 2022-23 is as follows.

| Sr. No. | Fund granted by | Grant from Revolving Fund | Expenditure | Remark |
|---------|---|---------------------------|-------------------|----------------------------------|
| 1. | Comptroller, Dr. P. K. D. V. Akola through revolving fund | Rs. 1,26,00,000/- | Rs. 1,26,02,978/- | Rs. 2,978/- (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 | |
| 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 | |
| Root Vegetable | 500gm | 500gm | | | |



| Sr. no. | Species | Feed item | Quantity | | Day of fasting |
|---------|-----------------------------|--|------------|------------|----------------|
| | | | Winter | Summer | |
| 5. | Blue bull | Cattle feed | 2kg | 2kg | None |
| | | Para/ Berseem/ Green grass/ Vegetables | Adlib | Adlib | |
| 6. | Chital/ Spotted Deer | Cattle feed | 500gm | 500gm | None |
| | | Para Grass/ Berseem /Green grass/ Vegetable | Adlib | Adlib | |
| 7. | Indian hog Deer | Cattle feed | 500gm | 500gm | None |
| | | Para Grass/ Berseem /Green grass/ Vegetable | Adlib | Adlib | |
| 8. | Blackbuck | Cattle feed | 500 gm | 500 gm | None |
| | | Para Grass/ berseem/ green grass/ Vegetable | Adlib | Adlib | |
| 9. | Rhesus/ Bonnet Monkey | Gram | 100gm | 100gm | None |
| | | Apple | 1 nos. | 1 nos. | |
| | | Banana | 4 nos. | 4 nos. | |
| | | Carrots | 50gm | 50gm | |
| | | Cabbage | 50gms | 50gms | |
| | | Sweet lime | 2 Nos | 2 Nos | |
| 10. | Four Horned antelope | Cattle feed | 500 gm | 500 gm | None |
| | | Paragrass/berseem/ green grass/ Vegetable | Adlib | Adlib | |
| 11. | 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 | |
| 12. | Peafowl | 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 | |
| | Budgerigar/ | Sunflower Seeds/ Mix grains | 10 gm | 10 gm | None |



| Sr. no. | Species | Feed item | Quantity | | Day of fasting |
|---------|----------------------|-----------------------------|------------|------------|----------------|
| | | | Winter | Summer | |
| 13. | Lovebird | Coriander | 5-10gm | 5-10gm | |
| | | Rala | 20gms | 20gms | |
| | | Spinach | Few leaves | Few leaves | |
| | | Chiku/Berry/Grapes | 25gm | 25gm | |
| | | Sunflower | 10 gm | 10 gm | |
| 14. | 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 | |
| 15. | Parakeets | 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 | |
| 16. | Crocodiles | Fish | 1kg | 1kg | None |
| 17. | Indian Star Tortoise | Tomato | 50 gm | 50 gm | None |
| | | Cabbage | 10 gm | 10 gm | |
| 18. | Smooth coated 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 | Fecal sample | - | 6 th of January, April, July and October |
| | Leopard | Deworming | Tab. Prazisam | 8 th of January, April, July and October |
| | Jackal | | | |
| Herbivores and Omnivores | Blue bull | Fecal sample | - | 5 th of January, April, July and October |
| | Black Buck | Deworming | Liq. A-Zole/F-Zole, Ivermectin | 7 th of January, April, July and October |
| | Spotted Deer | | | |
| | Four Horned Antelope | | | |
| | Indian Hog Deer | | | |
| 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:

Health checkup camp was organized for zoonotic disease on 4/08/2022. The Blood samples of some of the employees were found positive for Brucellosis thus the same was recollected for screening of brucellosis on 24/08/2022. Details of the Health checkup camp is given below:

Dr. S.P. Chaudhari
Professor and Head
Department of Veterinary Public Health
Nagpur Veterinary College, Seminary Hills
Nagpur-440006

email id: vphsandeep@gmail.com
mob.09766788615
Office(telefax) : 0712-2510883

No. NVC/NIAB Consortium OH/228/2022
Dated:- 24/08/2022
12


Date of collection : 04/08/2022

The following results for human samples were noted after screening blood sample using **molecular diagnosis (PCR)** as detailed below.


| Sr. No. | Lab Id No. | NAME | Age | Sex | Contact | Screened For Scrub Typhus | Screened For Brucellosis | Screened For Leptospirosis | Screened For Q-Fever |
|---------|------------|------------------------|-----|-----|------------|---------------------------|--------------------------|----------------------------|----------------------|
| 1 | Hoh-462 | BABURAO P YADAV | 56 | M | 9595614758 | Negative | Negative | Negative | Negative |
| 2 | Hoh-463 | RAJKANYA M BAGESHWAR | 38 | F | 8957469291 | Negative | Negative | Negative | Negative |
| 3 | Hoh-464 | HARILAL B TIRMALE | 65 | M | 9689044276 | Negative | Negative | Negative | Negative |
| 4 | Hoh-465 | MOHAMMAD FARUKH | 65 | M | 9595281452 | Negative | Negative | Negative | Negative |
| 5 | Hoh-466 | SHANKAR G KAMBDE | 60 | M | NA | Negative | Negative | Negative | Negative |
| 6 | Hoh-467 | SHARAD L CHAUDHARI | 55 | M | 9763086682 | Negative | Negative | Negative | Negative |
| 7 | Hoh-468 | LAKJHAN J SHENDE | 29 | M | 9689043514 | Negative | Negative | Negative | Negative |
| 8 | Hoh-469 | ASHA NIKHARE | 45 | F | 7559360625 | Negative | Negative | Negative | Negative |
| 9 | Hoh-470 | AYUSH R SAKHARE | 24 | M | 9665082490 | Negative | Positive | Negative | Negative |
| 10 | Hoh-471 | GANESH M CHAUDHARI | 28 | M | 9096480639 | Negative | Positive | Negative | Negative |
| 11 | Hoh-472 | GANESH R CHAUDHARI | 40 | M | 8308406738 | Negative | Negative | Negative | Negative |
| 12 | Hoh-473 | SANDEEP L. GEDAM | 34 | M | 8805596901 | Negative | Negative | Negative | Negative |
| 13 | Hoh-474 | SACHIN KAPTE | 34 | M | 8552029315 | Negative | Positive | Negative | Negative |
| 14 | Hoh-475 | MAHESH R PANDE | 51 | M | 917414954 | Negative | Negative | Negative | Negative |
| 15 | Hoh-476 | DIKSHA R VAHANE | 47 | F | 9420086540 | Negative | Negative | Negative | Negative |
| 16 | Hoh-477 | PRITHVIRAJ M PATIL | 37 | M | 7471131762 | Negative | Negative | Negative | Negative |
| 17 | Hoh-478 | RAJENDRA J RAUT | 45 | M | 9175005950 | Negative | Negative | Negative | Negative |
| 18 | Hoh-479 | RAMJIT R YADAV | 29 | M | 8055256953 | Negative | Negative | Negative | Negative |
| 19 | Hoh-480 | CHAYA S DHARGAVE | 49 | F | 8087546939 | Negative | Negative | Negative | Negative |
| 20 | Hoh-481 | JAYKUMAR M DARVADE | 47 | M | 8698160575 | Negative | Positive | Negative | Negative |
| 21 | Hoh-482 | DR. ABHIJIT B MOTGHARE | 44 | M | 9975777585 | Negative | Negative | Negative | Negative |
| 22 | Hoh-483 | SIDDHNATH R CHAUDHARI | 46 | M | 7887554409 | Negative | Negative | Negative | Negative |
| 23 | Hoh-484 | RAVINDRA K JAMBHULKAR | 52 | M | 7620572225 | Negative | Negative | Negative | Negative |
| 24 | Hoh-485 | DR. SUNIL BAWASKAR | 47 | M | 9423636143 | Negative | Positive | Negative | Negative |
| 25 | Hoh-486 | SUSHILA KHARE | 48 | F | 9372598827 | Negative | Negative | Negative | Negative |
| 26 | Hoh-487 | M R DHORE | 40 | F | 9371732277 | Negative | Negative | Negative | Negative |

Office of the
Office In-Charge
Inward No. 137
Dated 14-11-22

(Dr. S.P. Chaudhari)
PROFESSOR & HEAD
Dept. of Veterinary Public Health
Nagpur Veterinary College, Nagpur



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mob. 99766788615
Office (telefax) : 0712-2510883

No. NVC/NIAB Consortium OH/236/2022 Dated: 29/08/2022

Date of collection : 24/08/2022

The following human samples were recollected for screening of Brucellosis and Results were noted after screening blood sample using **molecular diagnosis (PCR)** as detailed below.

| Lab Id No. | NAME | Age | Sex | Contact | Results For Brucellosis |
|------------|--------------------|-----|-----|------------|-------------------------|
| HOH-470 | AYUSH R SAKHARE | 24 | M | 9665082490 | Negative |
| HOH-471 | GANESH M CHAUDHARI | 28 | M | 9096480639 | Negative |
| HOH-474 | SACHIN KAPTE | 34 | M | 8552029315 | Negative |
| HOH-481 | JAYKUMAR M DARVADE | 47 | M | 8698160575 | Negative |
| HOH-485 | DR. SUNIL BAWASKAR | 47 | M | 9423636143 | Negative |

Office of the
Office In-Charge
Inward No. 138
Dated 14-11-22

(Dr. S.P. Chaudhari)
PROFESSOR & HEAD
Dept. of Veterinary Public Health
Nagpur Veterinary College, Nagpur

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

In the Year 2022-23 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.

🌟 **Enrichment for Birds :**

New enrichment probes have been designed and installed in the cages of parakeets and cockateils.



Photograph I: Enrichment at aviary section

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 2022-23 are listed below:

| Sr. No. | Date | Title of Educational programme |
|---------|---|--------------------------------|
| 1. | 2 nd to 8 th October 2022 | World Wildlife Week |
| 2. | 3 rd March 2023 | World Wildlife Day |
| 3. | 21 st March 2023 | International Day of Forest |

1. World Wildlife Week -2nd to 8th October 2022

Wildlife photography exhibition, poster competition, zoo visit of orphanage home kids followed by distribution of stationary kits to them, a silent Zoo walk by college students holding placards, skit performance for raising awareness among people regarding wildlife conservation had been organized on the occasion of World Wildlife Week-2022. Photographs of the event is as follows.



Photographs showing Wildlife photography Exhibition



Photographs I: Wildlife photography Exhibition



Photographs 2: Zoo walk within Zoo premises



Photographs 3:
Distribution of stationary kit to the kids of orphanage home



Photographs 4:
Skit performance by college students



Photographs 5: Poster competition



Photographs 6: Zoo Team and Members

2. Wildlife Day- 3rd March 2022:

On occasion of ' World wildlife Day – Partnership for wildlife Conservation' an online talk and Zoo visit for college students were organized.



Photograph 7: Wildlife Day Celebration (Online)

Important Events and happenings in the zoo:

Zoo is running Animal Adoption Scheme to increase wildlife awareness, love among the people and to raise the fund for the upkeep and health maintenance of animals and Zoo. As a part of this Narayana Vidyalayam, Nagpur has adopted Blue Bull for 1 year from 16th November 2022 to 15th November 2023

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 hey 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, hey 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:

No research work has been carried out on the year 2022-23

Conservation breeding program of the Zoo:

During 2022-23 no conservation breeding program has been carried out.



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 |
| | - | Hog Deer | 3:3 | Kanan Pendari Zoological Garden, Bilaspur, Chattisgarh | 8 th February 2023 |
| | - | Jackal | 0:1 | Kanan Pendari Zoological Garden, Bilaspur, Chattisgarh | 8 th February 2023 |
| | - | Peafowl | 0:2 | Kanan Pendari Zoological Garden, Bilaspur, Chattisgarh | 8 th February 2023 |
| 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 animals rescued with their sex (M:F:U:T) | Received from | Date of submission of report to the CWLW/CZA | Action Taken | |
|---------|----------------|---|---------------|--|----------------------------------|--|
| | | | | | Date and place of rehabilitation | Reason for housing in the zoo if not released in their habitat |
| Nil | | | | | | |

Annual inventory of animals:

Inventory report for the year 2022-2023

Endangered species:

| S.N. | Animal Name | Scientific Name | Opening Stock as on 1.04.22 | | | | Births | | | Acquisition | | | Disposal | | | Deaths | | | Closing stock as on 31.03.23 | | | |
|-----------------------|----------------------|--------------------------------|-----------------------------|-----------|----------|-----------|----------|----------|----------|-------------|----------|----------|----------|----------|----------|----------|----------|-----------|------------------------------|----------|-----------|---|
| | | | 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 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 1 | 0 | 3 | |
| Total Aves | | 1 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 1 | 0 | 3 | |
| MAMMALIA | | | | | | | | | | | | | | | | | | | | | | |
| 1. | Golden Jackal | <i>Canis aureus indicus</i> | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | |
| 2. | Indian Hog Deer | <i>Hyelaphus porcinus</i> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 6 | |
| 3. | Black Buck | <i>Antilope cervicapara</i> | 8 | 8 | 0 | 16 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 8 | 0 | 18 | |
| 4. | Smooth Coated Otter | <i>Lutrogale perspicillata</i> | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | |
| 5. | Rhesus Macaque | <i>Mucaca mulatta</i> | 3 | 2 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 5 | |
| 6. | Bonnet Macaque | <i>Mucaca radiata</i> | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | |
| 7. | Sloth Bear | <i>Melursus ursinus</i> | 2 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 4 | |
| 8. | Leopard | <i>Panthera pardus</i> | 1 | 3 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 4 | |
| 9. | Bengal Tiger | <i>Panthera tigris tigris</i> | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 1 | 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 | 1 | 0 | 1 | 0 | 0 | 1 | |
| Total mammalia | | 10 | 20 | 17 | 0 | 37 | 2 | 0 | 0 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 21 | 0 | 46 | |
| REPTILIA | | | | | | | | | | | | | | | | | | | | | | |
| | Crocodile Marsh | <i>Crocodylus palustris</i> | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | |
| Total Reptiles | | | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | |

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



Other than endangered species:

| S.N. | Animal Name | Scientific Name | Stock as on 1.04.22 | | | | Births | | | Acquisition | | | | Disposal | | | Deaths | | | Closing stock as on 31.03.23 | | | |
|------------------------------|----------------------|---------------------------------|---------------------|-----------|------------|------------|----------|----------|----------|-------------|----------|----------|----------|----------|----------|-----------|-----------|----------|-----------|------------------------------|------------|------------|--|
| | | | | | | | | | | | | | | | | | | | | | | | |
| AVES | | | | | | | | | | | | | | | | | | | | | | | |
| 1. | Emu | <i>Dromaius novaehollandiae</i> | 4 | 0 | 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 | 63 | 57 | 0 | 0 | 0 | 80 | 80 | |
| 3. | Cockatiel | <i>Nymphicus hollandicus</i> | 0 | 0 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 22 | 0 | 0 | 0 | 50 | 50 | |
| 4. | Alexandrine parakeet | <i>Psittacula eupatria</i> | 7 | 7 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 7 | 0 | 14 | |
| 5. | Rose ring parakeet | <i>Psittacula krameri</i> | 7 | 3 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 3 | 0 | 10 | |
| Total Aves | | | 17 | 12 | 300 | 328 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 91 | 79 | 0 | 18 | 10 | 130 | 158 | |
| MAMMALIA | | | | | | | | | | | | | | | | | | | | | | | |
| 1. | Chital/ Spotted Deer | <i>Axis axis</i> | 11 | 25 | 0 | 36 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 12 | 23 | 0 | 35 | |
| 2. | Nilgai/ Blue Bull | <i>Boselaphus tragocamelus</i> | 6 | 5 | 0 | 11 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 0 | 12 | |
| Total mammalia | | | 17 | 30 | 0 | 47 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 18 | 29 | 0 | 47 | |
| REPTILES | | | | | | | | | | | | | | | | | | | | | | | |
| 1. | Tortoise Indian Star | <i>Geochelone elegans</i> | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | |
| Total Reptilia | | | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | |
| Total animals / Birds | | | 37 | 40 | 300 | 377 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 92 | 81 | 0 | 38 | 39 | 130 | 207 | |
| Grand Total | | | 60 | 58 | 300 | 418 | 4 | 1 | 0 | 3 | 6 | 0 | 0 | 0 | 0 | 92 | 82 | 0 | 66 | 62 | 130 | 258 | |



Mortality of animals:

| Sr. No. | Animal name (with individual identification mark, if any) | Scientific name | Sex | Date of death | Reason of the death as per the post-mortem report |
|---------|---|-----------------------|-----|---------------|---|
| 1. | Indian Peafowl | <i>Pavo cristatus</i> | F | 24/03/2023 | Died due to enteritis. |
| 2. | Chital/ Spotted Deer | <i>Axis axis</i> | M | 14/00/2022 | Death due to respiratory failure |
| | | | F | 13/11/2022 | Death due to respiratory failure |
| | | | F | 13/11/2022 | Death due to respiratory failure |



Status of the compliance with conditions stipulated by the Central Zoo Authority

Compliance of the conditions raised on master Plan of Maharajbag Zoo, Nagpur, Maharashtra during the 97th meeting held on March 10 and 11, 2021.

Annexure I: Compliance of the detailed observation of Members of the Expert Group on Zoo Designing on the said proposal during the 97th meeting held on March 10 and 11, 2021.

| Sr. No. | Condition | Compliance |
|------------|--|--|
| I. | From the layout, the boundary of the proposed zoo is not clear, hence it cannot be ascertained if the zonation is in accordance with the Recognition of Zoo Rules, 2009. | Clear demarcation of the zoo boundary is made in proposed layout map. The area under green belt and natural vegetation is 52745.33 sq mt out of 175764.11 sq mt, is more than 30% of the area as per recognition of Zoo Rules, 2009. The area for animal housing 24964.57 sq. mt out of 175764.11 sq. mt does not exceed 30% area of the zoo. As per Recognition of Zoo Rules, 2009. |
| II | The use of concertina wire/barbed wire in boundaries is discouraged and hence shall not be propose | As per design guidelines for zoos, it was planned to have a combination of masonry wall with fencing on top (barbed wire or concertina wire). Even though, in Layout plan its updated as per observations. |
| III | The layout plan shall be amended with the following changes | |
| a | The number of birds proposed to be housed shall correspond with the prescribed housing density stipulated by the CZA. | The excess birds will be disposed and updated in the Layout plan accordingly. |
| b | Variable phenotypes of a species (e.g., Leucistic Tiger) shall not be mentioned as a separate species. | Updated in layout plan |
| c | The species proposed to be housed in the reptile house shall be indicated. | Updated in layout plan |
| d | S.no. 26-28 are to be removed. | Animal and birds indicated at sr. no. 26 to 28 are removed. |
| e | The color coding prescribed by CZA shall be adopted. | Updated in layout maps |
| f | The quarantine may be relocated at a distance from the veterinary hospital (at least 200m apart). | Quarantine area 205.97 m away from Veterinary Hospital. Updated in layout plan. |
| g | Separate services map (electricity, sewage, water etc.) may be furnished. | Service maps are enclosed separately. |
| h | The entry to the Zoo may be conspicuously indicated. Furthermore, | Prominent entry indicated in layout map. The zoo is in existence since 1891 and the |



| Sr. No. | Condition | Compliance |
|---------|--|---|
| | Clarification for placing the parking of the Zoo on the opposite corner to the entrance shall be removed. | parking area is available in the opposite side of the entrance only. Hence same parking area is proposed in layout plan. |
| IV | The photographs depicting the attempt to have a tiger cub suckle a goat shall be removed. Likewise, photograph depicting release of several snakes at one location shall be removed. | Complied |
| V | The plan be revised to cover a 20 yr period starting from FY 2021-22. | Updated as starting from 2022-23 to 2042-43. |
| VI | The release of surplus animals to the wild shall not be proposed. | Agreed and updated. |
| VII | The use of rescued animals for display shall not proposed as in the case of Smooth-coated Otter. Furthermore, the species is not part of the animal collection plan. | The otters are housed since Dec. 2015 i.e. more than 6 years, hence available in the present stock of the zoo. Otter is an attractive species for zoo exhibit. As they are hand reared cant release back in the wild optimum housing facility also provided for them. It is incorporated in animal collection plan. |
| VIII | Generic statements like – the Zoo hospital will be upgraded with the sophisticated equipments, shall be suitably described with details of the plan and proposed equipment. | Agreed and updated |
| IX | The plan refers to the requirement of a biologist/education officer. Given the plan to run the proposed facility in a scientific manner incorporating concepts of modern zoo principles, the creation of permanent posts with suitable career progression opportunities (as per recognition of Zoo Rules 2009) may be outlines in the master Plan. Filling up of technical posts through outsourcing/contract may not be optimally motivating for the personnel hired. | The zoo is going to run through Maharajbag Zoo Society and accordingly posts will be created and filled in. meanwhile proposal for permanent staff is submitted to Government of Maharashtra. Accordingly updated in the master plan. |
| X | Relocation of free ranging animals from zoo campus to elsewhere should not be proposed. | Agreed and updated in the draft of master plan |
| XI | The master plan should provide details of the potential species and carrying capacity available in the off-display rescue center of the Zoo. | Updated in draft of master plan. Pg No. 52. |
| XII | Overall, the language of the document needs significant improvement. | Updated |
| XIII | Preferably, a document without any outgoing edits (in track changes) may be | Update accordingly |

| Sr. No. | Condition | Compliance |
|--|--|--|
| | submitted. | |
| In addition to the above, general comments includes: | | |
| I | The cover page, duration, certificates, list of contents, acknowledgements, preface and foreword may be added as per the prescribed Master Plan Checklist (enclosed). The front (foreword, certificates etc.), main (Plan text) and back matter (appendices) should be indexed correctly. | Updated accordingly |
| II | The zoo operator should ensure that relevant statutory approval under the Forest Conservation Act, 1980 is obtained, if the zoo is located on forest land. | Not Applicable |
| III | As per Recognition of Zoo Rules, 2009 Rule 10-3(4) "At least 30% of the area Earmarked for the zoo shall be kept under green belt and natural vegetation and the area for animal housing shall not exceed 30 % are of the Zoo." The following details should be included in Chapter IV of the Master Plan or should be included in the Master (Layout) plan. | The details are included in the Master (Layout) Plan |
| IV | | |
| a | Total area of the Zoo: | 175764.11 sqm |
| b | Area under green belt: | 30900 sqm 52745.33 Sq mtr |
| c | Area allocated for animal housing (includes area of outdoor enclosures, retiring | 22630 sqm |
| d | Cells/night shelters and kraal i.e., all areas that are accessible by animals): | 2334.57 |
| e | Built-up area of buildings (excluding animal housing): | 4032.2 sqm |
| V | The number of animals proposed to be housed (in case of Tiger, Leopard, Bear and Ungulates) should correspond with the number of prescribed in the Guidelines for the establishment and scientific management of Zoos in India (2008). | Updated in master plan. |
| VI | In the Master Plan, the number of species and the number of individuals house by the zoo should match the most recent inventory reports of the respective financial year (in case 2019-20) submitted to Central Zoo Authority. | Updated in master plan. |
| VII | A detailed protocol to ensure that all animals in the zoos are permanently marked appropriately should be | Updated in master plan. |



| Sr. No. | Condition | Compliance |
|---------|--|--|
| | mentioned in the plan. | |
| VIII | For faunal species listed in the Wildlife Protection Act, 1972, the common and scientific name of animals shall follow the Act. For all other species, nomenclature adopted by the IUCN should be followed. | Updated. |
| IX | A schedule for conducting mock drills for first aid, emergency situations like animal escapes etc. for zoo staff should be included as part of disaster management. | Updated in master plan. |
| X | The ratio of native species: exotic species should be in accordance with the standard prescribed by the Central Zoo Authority. | Updated in master plan. |
| XII | The zoo director should obtain independent approval from the Central Zoo Authority prior for the construction of the enclosures of endangered species (species listed in schedule I & II of the Wildlife Protection Act, 1972)). | Agreed and we will take appropriate prior approval from CZA for construction of endangered species enclosures. |
| XII | Separate drawings for various services (Like water supply, sewer lines, storm water drains, electrical distribution lines etc.) shall be provided. | Updated in master plan. And attached |
| XIII | Source of water (Tube wells), OH/UG tanks, STP, rain water harvesting structures, connecting roads, toilets, visitor movement paths etc. shall be properly marked on the layout plan. | Updated in master layout plan |
| XIV | The various services and other items are essential part of planning and are to be provided as per their requirement. These are to be marked on the plans in correlation with the contours/terrain of the area. | Updated in master plan. |


 (Dr. Sunil S. Basarker)
 Officer In-Charge,
 Maharajbag Zoo, &
 College of Agriculture
 Nagpur

List of the Significant Trees in Maharajbagh garden and zoo

1. Indian banyan (*Ficus bengalensis*)
2. Peepal (*Ficus religiosa*)
3. Baobab (*Adansonia digitata*)
4. Indian devil tree (*Alstonia scholaris*)
5. Sausage Tree (*Kigelia pinnata*)
6. Mahogany (*Swietenia mahogany*)
7. Indian date (*Tamarindus indica*)
8. Arjun tree (*Terminalia arjuna*)
9. Cotton tree (*Bombax ceiba*)
10. Teak (*Tectona grandis*)
11. Indian sandalwood (*Santalum album*)
12. Rain Tree (*Samanea saman*)
13. Ashoka tree (*Saraca asoka*)
14. Putrajiv (*Putranjiva roxburghii*)
15. Bakul (*Mimusops elengi*)
16. Siris tree (*Albizia lebbek*)
17. Shisham (*Dalbergia sissoo*)
18. Amla (*Emblica officinale*)
19. Karanja (*Pongamia glabra*)
20. Rugtoora (*Spathodea campanulata*)
21. Indian Fig Tree (*Ficus glomerata*)
22. Soap Tree (*Sapindus indica*)
23. Jamun (*Syzygium cummuni*)
24. Gulmohar (*Delonix regia*)
25. Cannonball tree (*Couropitaguianensis*)
26. Bottle brush (*Callistemon lanceolatus*)
27. Custard Apple (*Annona reticulata*)
28. Khirni (*Manilkara hexandra*)
29. Yellow Oleander (*Thevetia peruviana*)
30. Kachnar (*Bahunia alba*)
31. Jarul (*Lagerstromia speciosa*)
32. Kusum tree (*Schiebera trijuga*)
33. Debdaru (*Polyalthia longifolia*)
34. Royal palm (*Roystonea regia*)
35. Gycum (*Gycum officinale*)
36. Java Cassia (*Cassia renigera*)
37. Neem tree (*Azadirachta indica*)
38. Common guava (*Psidium guava*)
39. Jasmine Tree (*Mellinthonia hortensis*)
40. Silver oak (*Grewia subequinalis*)
41. Indian almond (*Terminalia cattappa*)
42. Junglisaru (*Casuarina equisetifolia*)
43. Caribbean Trumpet Tree (*Tebeuia argentia*)



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 | Hanuman Langoor (<i>Semnopithecus entellus</i>) |
| 3 | Indian Palm Civet (<i>paradoxurus hermaphroditus</i>) |
| 4 | Three Striped Palm Squirrel (<i>Funambulus palmarum</i>) |
| 5 | 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>Amaurornis phoenicurus</i>) |
| 18. | Red-wattled Lapwing (<i>Vanellus indicus</i>) |
| 19. | Little Ringed Plover (<i>Charadrius dubius</i>) |
| 20. | Common Sandpiper (<i>Actitis hypoleucos</i>) |
| 21. | Wood Sandpiper (<i>Tringa glareola</i>) |
| 22. | Little Brown Dove (<i>Spilopelia senegalensis</i>) |
| 23. | Spotted Dove (<i>Spilopelia chinensis</i>) |
| 24. | Yellow-footed Green Pigeon (<i>Treron phoenicoptera</i>) |
| 25. | Rock Pigeon (<i>Columba livia</i>) |
| 26. | Plum-headed Parakeet (<i>Psittacula cyanocephala</i>) |



| | |
|-----|---|
| 27. | Rose-ringed Parakeet (<i>Psittaculakrameri</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>Otusletitia</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>) |



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| 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. | Whitethroated 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 stentoreus</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>Saxicolator quatus</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. | Blackrumped 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>) |



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| 103. | Booted Warbler (<i>Idunacaligata</i>) |
| 105. | Common Tailorbird (<i>Orthotomussutorius</i>) |
| 105. | Orphean Warbler (<i>Sylvia hortensis</i>) |
| 106. | Lesser Whitethroat (<i>Sylvia curruca</i>) |
| 107. | Common Chiffchaff (<i>Phylloscopuscollybita</i>) |
| 108. | Greenish Warbler (<i>Phylloscopustrochiloides</i>) |
| 109. | Black Redstart (<i>Phoenicurusochruros</i>) |
| 110. | Pied Kingfisher (<i>Cerylerudis</i>) |
| 111. | Common Kingfisher (<i>Alcedoatthis</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 | Checkered Keelback (<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>) |