

M.C. Zoological Park, Chhatbir, Punjab.



Annual Report for the year
2019-2020



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About M.C.Zoological Park, Chhatbir



M.C. Zoological Park, popularly known as Chhatbir Zoo is an important Destination in North India for Nature lovers, Tourists, Conservationists and Wildlife enthusiasts. Fulfilling the category of large zoo, the zoo continuously adds new species in its animal collection plan and new facilities for visitors every year.

The ultimate aim of administration is to make the institution Eco friendly, Animals friendly and Visitors friendly. Because of the continuous hard work of dedicated employees and support from Government, Chhatbir zoo is getting popular day by day, which is acknowledged by the upward growing visitation year by year.

In 2019-20, Chhatbir Zoo added new facilities for the visitors such as Entry plaza, a canteen, new parking etc. Apart from this, some additional facilities have been created in Hippo enclosures and Walk-in-Aviary to improve the display quality of animals. As far as the animal collection is concerned, the zoo acquired Lions, Tigers, Foxe, Macaws and other Exotic animals through animal exchange and other programmes. To give special importance to interpretation, A project to establish an interactive Dinosaurs Park in the Zoo Education Park has been initiated on PPP mode. To add another feather in its cap, Chhatbir Zoo got membership status in WAZA (World Association of Zoos and Aquariums). Providing garbage free environment, Eco friendly transport system were other achievements, accomplished by the Zoo administration in this year.

With the continuous support and motivation, the Zoo administration will strive hard to make M.C. Zoological Park attain a remarkable position in the International map of Zoological parks. This Annual report is a testimony to the meticulous steps taken towards that goal by our dedicated team.

**Dr. M. Sudhagar., I.F.S.,
Field Director,
M.C. Zoological Park,
Chhatbir Zoo.**



2. History of the Zoo:

The first proposal to establish a Zoological Park at Chhatbir was mooted in the year 1973. The State Government then decided to constitute committees at various levels so as to secure the co-operation, assistance, expert advice and provide co-ordination which were vital for the establishment of such an important project. A state level advisory council headed by Shri M. M. Chaudhary, the then Hon'ble Governor of Punjab was formed on 7th January, 1974 to evolve policies, broad strategies and decide about the overall plan of this Zoological Park.

A second important committee of experts under the chairmanship of Sh. G.P.S Sahi was constituted by the Government in November 1974 which included specialists and experts in zoo management, wildlife and forestry. This committee was entrusted with the responsibility of providing expert opinion on the technical aspect of animal management, zoo establishment and planning.

For co-operation between various departments associated with the establishment of Zoological Park, an implementation committee was also constituted in January 1974 under the Chairmanship of Development Commissioner, Punjab. This committee was meant to review the progress of works, discuss problems and bottle-necks encountered in the execution of this project, co-ordinate activities for speedy implementation of decisions and to approach the government for solving various problems and difficulties.

Apart from the above committees, another committee as shown in Annexure 4 was also constituted to provide expert opinion on specific subjects such as landscaping and other technical matters.

After the initial planning and finalization of zoo site, the first and foremost necessity felt was that of preparing a Conceptual Plan for a planned and systematic development of the zoo and to rule out the common shortfalls that were encountered while establishing other zoos in India. Consequently, a technical Committee consisting of the following members was set up for the preparation of Conceptual Plan:

1. Shri C.M. Sethi, I.F.S. Chief Conservator of Forests, Punjab, Chandigarh.
2. Shri N.S. Lamba, Chief Town Planner, Punjab, Chandigarh.
3. Shri Jeet Malhotra, Senior Architect O/o Chief Architect, Punjab.
4. Shri N.D. Bachkheti, Administrator, Lucknow and Kanpur Zoos, Lucknow.
5. Shri Pushap Kumar, Director, Nehru Zoological Garden, Hyderabad.
6. Shri S.K. Kapur, O.S.D.

These members assisted by Shri D.K. Behal, Architect, conceived the final plan on 29th September 1975. This plan was then finally approved by the Apex Committee presided over by His Excellency the Governor of Punjab on 27th November 1975. It was felt that this plan will work as a guide for the execution of all details in future or of any expansion



in a particular pocket which may be planned at some later date. This conceptual plan was to enable the zoo experts and the architects at that time to detail out any particular pocket with some margin of flexibility according to the prevailing conditions and the configuration of the ground, yet fitting into the overall Master Layout Plan that was part of that conceptual plan.

3. **Vision of the Zoo:** The zoo has a generalized vision of creation of wildlife and nature related awareness to its visitors.
4. **Mission of the Zoo:** To educate and motivate the visitors of the zoo for better wildlife conservation values.
5. **Objectives of the Zoo:** M. C. Zoological Park, Chhatbir aims to compliment and strengthen the national efforts in conservation of endangered and rare species of wild fauna. Since its beginning, the park has aimed at the following objectives:
 - To support conservation of endangered and rare species through breeding under captive conditions.
 - To educate, motivate and create awareness in the society about the need for conserving wildlife, biodiversity and natural resources.
 - To provide opportunities for scientific research on wild fauna.

6. About us

| Basic Information about the Zoo | | |
|---------------------------------|--|---|
| Sr. No. | Particulars | Information |
| 1. | Name of the Zoo | M.C.Zoological Park, Chhatbir |
| 2. | Year of Establishment | 1977 |
| 3. | Address of the Zoo | V.P.O Chhat, Tehsil: Derabassi, District : Sahibzada Ajit Singh Nagar PIN: 140601 (PUNJAB) |
| 4. | State | PUNJAB |
| 5. | Telephone Number | - |
| 6. | Fax Number | - |
| 7. | E-mail address | mczpchhatbir@gmail.com |
| 8. | Website | www.chhatbirzoo.gov.in |
| 9. | Distance from nearest Strategic points | Chandigarh International Airport: 13 km Chandigarh Railway Station: 18 km Mohali Bus Stand: 14 km |
| 10. | Recognition Valid upto | 19.08.2023 |
| 11. | Category of zoo | Large |
| 12. | Area (in Hectares) | 202 ha. |
| 13. | Number of Visitors (2019-2020) | Adult : 547019 Children : 160551 Divyang : 1150 Below 3 Year : 13169 Total Indian : 781706 Total Foreigners : Data not available Total Visitors : 781706 |
| 14. | Visitors Facilities Available in Zoo | <ul style="list-style-type: none"> • Battery operated vehicles: Introduced in 2009, the facility to run battery operated vehicles in Chhatbir |



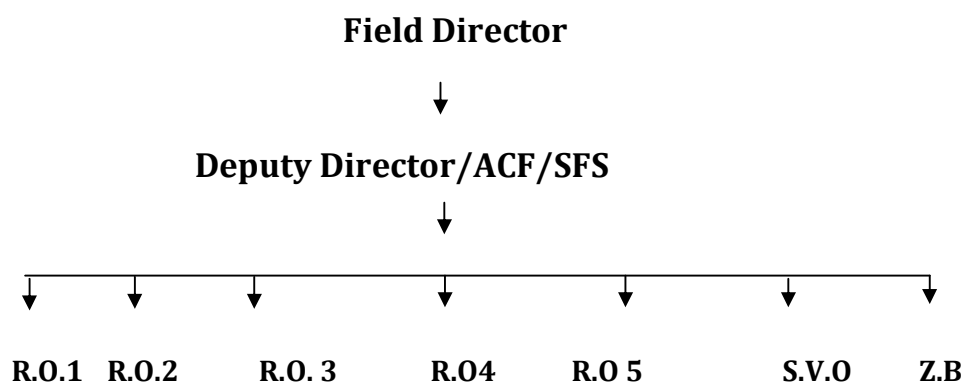
zoo has been outsourced to cater to the needs of the visitors with hop-on-hop-off system with 13 ferry stations.

- **Online Ticket Booking facility:** since Oct. 2016.
- **Clean Drinking water facility:** At 6 different locations across the zoo.
- **Toilets:** At 7 different locations across the zoo.
- **Visitor shelters:** 12 of which 8 have been recently renovated.
- **Canteens/Eateries:** There are 2 canteens inside zoo and a Food Plaza outside the Zoo.
- **Guide map** near the main gate
- **Directional signs and display boards** wherever suitable

| | | |
|---------------------------------|--|--|
| 15. | Weekly Closure Day of the Zoo | Monday |
| Management Personnel of the zoo | | |
| 16 | Name with designation of the Officer in-charge | Dr. M. Sudhagar I.F.S, Field Director |
| | Name of the Veterinary Officer | Dr. Ashish Kumar |
| | Name of the Curator | - |
| | Name of the Biologist | Dr. Aarti B. Chavda |
| | Name of the Education Officer | Mr. Harpal Singh (Additional charge) |
| | Name of the Compounder/Lab Assistant | Mr. Ramdev Ji Vet. Comp. Mr. John Denial Lab. Tech. Ms. Baljt Kaur Lab. Tech. |
| Owner / Operator of the Zoo | | |
| 17. | Name of the Operator | Mr. R.K. Mishra, I.F.S |
| 18. | Address of the Operator | Chief Wildlife Warden, Forest Complex, Sector-68, Sahibzada Ajit Singh Nagar, Punjab. |
| 19. | Contact details/Phone No. Of Operator | 0172-2298000 |
| 20. | E-mail address of Operator | cwlpunjab@gmail.com |



7. Organizational Chart



R.O.1 : Range Officer -I (Construction and Maintenance Range)

R.O.2 : Range Officer -II (Animal Management Range)

R.O.3 : Range Officer -III (Landscaping Range)

R.O.4 : Range Officer -IV (Store and Procurement Range)

R.O.5 : Range Officer -V (Visitor Management and Security Range)

S.V.O: Senior Veterinary Officer

Z.B: Zoo Biologist



8. Human Resources

| Manpower of the Zoo* | | | | | |
|----------------------|---------------------------|------------------|-----------------|-------------|---------|
| S. No. | Name of the post | Sanctioned cadre | Actual position | Vacant post | Remarks |
| 1 | Field Director | 1 | 1 | 0 | -- |
| 2 | EACF | 2 | 0 | 2 | -- |
| 3 | Senior Veterinary Officer | 2 | 2 | 0 | -- |
| 4 | Supdt. Grade-II | 1 | 1 | 0 | -- |
| 5 | Senior Assistant | 2 | 2 | 0 | -- |
| 6 | Clerk/Jr. Assistant | 7 | 4 | 3 | -- |
| 7 | Technical Assistant | 2 | 0 | 2 | -- |
| 8 | Range Officer | 4 | 2 | 2 | -- |
| 9 | Deputy Ranger | 4 | 4 | 0 | -- |
| 10 | Forester | 4 | 4 | 0 | -- |
| 11 | Forest Guard | 10 | 11 | 0 | -- |
| 12 | Junior Engineer | 1 | 1 | 0 | -- |
| 13 | Veterinary Compounder | 2 | 2 | 0 | -- |
| 14 | PRO Forests & Wildlife | 1 | 0 | 1 | -- |
| 15 | Zoo Security Supervisor | 2 | 0 | 2 | -- |
| 16 | Sanitary Inspector | 2 | 1 | 1 | -- |
| 17 | Lab. Technician | 2 | 2 | 0 | -- |
| 18 | Mahawat | 4 | 2 | 2 | -- |
| 19 | Driver | 4 | 3 | 1 | -- |
| 20 | Mechanic | 7 | 1 | 6 | -- |
| 21 | Peon | 3 | 3 | 0 | -- |
| 22 | Zoo Keeper | 27 | 19 | 8 | -- |
| 23 | Cook | 2 | 0 | 2 | -- |
| 24 | Head Cook | 2 | 0 | 2 | -- |
| 25 | Head Zoo Keeper | 4 | 0 | 4 | -- |
| 26 | Vet. Attendant | 3 | 0 | 3 | -- |
| 27 | Multipurpose Worker | 30 | 43 | 0 | -- |
| 28 | Hygeine Worker | 22 | 5 | 17 | -- |
| 29 | Beldar | 0 | 3 | 0 | -- |

9. Capacity Building of zoo personnel

| Sr. No. | Name and designation of the zoo personnel | Subject matter of Training | Period of Training | Name of the Institution where the Training attended |
|---------|---|--|--------------------------|---|
| 1. | Zoo Keepers | To enhance professional knowledge of animal handlers | 09.12.2019 to 13.12.2019 | Lion Breeding Centre and Multiple Safari, Etawah, Uttar Pradesh |



10. Zoo Advisory Committee ----- Under Process

- Date of constitution
- Members
- Dates on which Meetings held during the year

11. Health Advisory Committee ----- Under Process

- Date of constitution
- Members
- Dates on which Meetings held during the year

12. Statement of revenue and budget of the Zoo

Details of Budget Allotted to M.C. Zoological Park, Chhatbir, Punjab.

| Year | 2019-2020 | Remarks |
|---------------------------------|------------------|---|
| Non plan | 106215000 | Expenditure was as per the allotment, mentioned |
| Plan(FT-14) | 14560000 | |
| PUNCAMPA | 27242000 | |
| Punjab Zoos Development Society | 50000000 | |
| CZA | 2100000 | The funds were received during 2018-2019 in the end of March, 2019. So, due to the administrative reasons & shortage of time, the works were executed during 2019-2020. |
| Total | 198017000 | |

Details of Revenue of M.C. Zoological Park, Chhatbir, Punjab.

| Year | Revenue from Zoo Entry Ticket | Revenue from licenced facilities | Total |
|--------------------|-------------------------------|----------------------------------|-----------------|
| 2019-2020 | 48908955 | 24635288 | 73544243 |
| Grand Total | 48908955 | 24635288 | 73544243 |



13. Daily Feed Schedule of animals

| FEED CHART CHHATBIR ZOO | | |
|--------------------------------|--------------------------------|---------------------------------|
| Monkeys All Species | | |
| S.No | Particulars | Qty. of Feed (in Kg./no) |
| 1 | Banana | 0.2 |
| 2 | Papaya | 0.2 |
| 3 | Sweet Lime/Orange | 0.5 |
| 4 | Onion | 0.02 |
| 5 | Garlic | 0.01 |
| 6 | Carrot | 0.05 |
| 7 | Cucumber | 0.05 |
| 8 | Roasted G.Nut | 0.05 |
| 9 | Roasted B.Gram | 0.05 |
| 10 | Palak | 0.05 |
| 11 | Apple | 0.25 |
| 12 | Turnip | 0.05 |
| 13 | Bread | 0.05 |
| 14 | Potato | 0.05 |
| 15 | Cabbage | 0.05 |
| 16 | Peas Green | 0.05 |
| Tiger/ Lion | | |
| 1 | Buff.Meat for sub adult. Tiger | 5 to 6 |
| 2 | Buff.Meat for full grown Tiger | 8 |
| Hippo | | |
| 1 | Green Fodder | 100 |
| 2 | Mix Crushed for animal | 3 |
| 2 | Mix Crushed for animal | 3 |
| 3 | Moong | 0.5 |



| | | |
|-----------------------------|-----------------------|---------------------|
| 4 | Patato | 1 |
| 5 | Gur | 0.5 |
| 6 | Banana | 5 no. |
| 7 | Papaya | 0.5 |
| 8 | Sweet Carrot | 0.8 |
| 9 | Bread | 0.8 |
| 10 | Cabbage | 1 |
| Sloth Bear | | |
| 1 | Roti of Maize Crushed | 0.25 |
| 2 | Milk | 0.25 |
| 3 | Bread | 0.4 |
| 4 | Apple | 0.3 |
| 5 | Banana | 3 no. |
| 6 | Papaya | 0.3 |
| 7 | Sweet Carrot | 0.1 |
| 8 | Khichri | 1 |
| Himalayan Black Bear | | |
| 1 | Roti of Maize Crushed | 0.25 |
| 2 | Milk | 0.5 |
| 3 | Bread | 0.2 |
| 4 | Apple | 0.3 |
| 5 | Banana | 3 no. |
| 6 | Papaya | 0.3 |
| 7 | Sweet Carrot | 0.1 |
| 8 | Khichri | 1 |
| Chinkara | | |
| S.No. | Particulars | Qty. of Feed |
| 1 | Black Gram | 0.25 |
| 2 | Gur | 0.1 |



| | | |
|--------------------------------------|-------------------------|--------|
| 3 | Green fodder | 5 |
| Emu | | |
| 1 | Black Gram | 0.3 |
| 2 | Onion | 0.1 |
| 3 | Garlic | 0.04 |
| 4 | Palak | 0.2 |
| 5 | Egg (Boild) | 2 no. |
| 6 | Banana | 20 no. |
| 7 | Papaya | 2 |
| 8 | Cabbage | 0.2 |
| 9 | Apple | 0.6 |
| 10 | Peas Green | 0.4 |
| 11 | Mixed Crushed for birds | 0.4 |
| Elephant | | |
| 1 | Mix Crushed Roti | 2 |
| 2 | Gur | 1 |
| 3 | Black Gram | 2 |
| 4 | Banana | 6 no. |
| 5 | Papaya | 0.6 |
| 6 | Green Fodder | 250 |
| Leopard/ Jaguar | | |
| 1 | Buff.Meat | 4 |
| Civet/ small Cats all species | | |
| 1 | Buff.Meat | 0.5 |
| 2 | Egg (Boild) | 1no. |
| 3 | Banana | 1 no. |
| 4 | Milk | 0.25 |
| 5 | Papaya | 0.1 |



| Hog Deer | | |
|--------------------------------------|-----------------------|---------------------|
| 1 | Black Gram | 0.1 |
| 2 | Gur | 0.1 |
| 3 | Green Fodder | 15 |
| 4 | Cattle Feed | 0.15 |
| Jackal | | |
| 1 | Buff.Meat | 3 |
| Birds | | |
| White peacock/ Normal Peacock | | |
| S.No. | Particulars | Qty. of Feed |
| 1 | Mix Sabat Dana | 0.1 |
| 2 | Palak | 0.05 |
| 3 | Garlic | 0.05 |
| 4 | Carrot | 0.01 |
| 5 | Apple | 0.01 |
| 6 | Peas Green | 0.05 |
| 7 | Cabbage | 0.05 |
| 8 | cucumber | 0.01 |
| Sarus Crane | | |
| 1 | Mix Sabat Dana | 0.2 |
| 2 | Fish | 0.2 |
| 3 | Paddy | 0.2 |
| Pheasants all species | | |
| 1 | Mix Crushed for Birds | 0.1 |
| 2 | Palak | 0.05 |
| 3 | Garlic | 0.01 |
| 4 | Onion | 0.025 |
| 5 | Banana | 1no. |



| | | |
|--------------------------|-----------------------|-------|
| 6 | Peas Green | 0.05 |
| 7 | Papaya | 0.1 |
| 8 | Cabbage | 0.05 |
| Kalij pheasant | | |
| 1 | Mix Crushed for Birds | 0.1 |
| 2 | Palak | 0.05 |
| 3 | Wheat | 0.05 |
| 4 | Soyabeen Crushed | 0.05 |
| 5 | Cabbage | 0.05 |
| Porcupine | | |
| 1 | Carrot | 0.1 |
| 2 | Potato | 0.1 |
| 3 | G.Nut | 0.1 |
| 4 | Palak | 0.2 |
| 5 | Onion | 0.025 |
| 6 | Bread | 0.1 |
| 7 | Apple | 0.1 |
| 8 | Turnip | 0.1 |
| 9 | Sweet Carrot | 0.1 |
| 10 | Peas Green | 0.1 |
| 11 | Cucumber | 0.1 |
| 12 | Cabbage | 0.2 |
| Stork all species | | |
| 1 | Fish | 0.3 |
| Common Crane | | |
| 1 | Mix Sabat Dana | 0.5 |
| 2 | Palak | 0.05 |
| 3 | Cabbage | 0.05 |



| Duck all species | | |
|--------------------------|-----------------------|---------------------|
| 1 | Mix Crushed for Birds | 0.2 |
| 2 | Palak | 0.05 |
| 3 | Cabbage | 0.05 |
| Barking Deer | | |
| S.No. | Particulars | Qty. of Feed |
| 1 | Black Gram | 0.1 |
| 2 | Gur | 0.1 |
| 3 | Green Fodder | 15 |
| 4 | Cattle Feed | 0.15 |
| Chausinga | | |
| 1 | Black Gram | 0.1 |
| 2 | Gur | 0.1 |
| 3 | Green Fodder | 15 |
| 4 | Cattle Feed | 0.15 |
| Black buck | | |
| 1 | Black Gram | 0.1 |
| 2 | Gur | 0.1 |
| 3 | Green Fodder | 15 |
| 4 | Cattle Feed | 0.15 |
| Dove/ Pigeons | | |
| 1 | Mix Crushed for Birds | 0.05 |
| 2 | Palak | 0.01 |
| 3 | Cabbage | 0.01 |
| Sambar/ Blue bull | | |
| 1 | Black Gram | 0.2 |
| 2 | Gur | 0.2 |
| 3 | Green Fodder | 25 |
| 4 | Cattle Feed | 0.3 |



| Parrots | | |
|--------------------------------|------------------------------|---------------------|
| 1 | Apple | 0.01 |
| 2 | Carrot | 0.01 |
| 3 | Groundnut | 0.01 |
| 4 | Green Chilly | 0.01 |
| 5 | Paddy | 0.01 |
| 6 | Peas Green | 0.01 |
| 7 | Cucumber | 0.01 |
| Budgerigars/ Love birds | | |
| S.No. | Particulars | Qty. of Feed |
| 1 | Kangani | 0.015 |
| 2 | Bajra | 0.005 |
| 3 | Apple | 0.002 |
| 4 | Palak | 0.005 |
| 5 | Carrot | 0.002 |
| 6 | Cabbage | 0.05 |
| 7 | Cucumber | 0.002 |
| Cockatoo | | |
| 1 | Banana | 1no. |
| 2 | G.Nut | 0.1 |
| 3 | Apple | 0.1 |
| 4 | Palak | 0.1 |
| 5 | Carrot | 0.1 |
| 6 | Cabbage | 0.1 |
| 7 | Cucumber | 0.1 |
| Owl/Shikara/Eagles | | |
| 1 | Buffalo Meat / day old chick | 0.2 |



| Partridge/Quales | | |
|-------------------------|-----------------------|-------|
| 1 | Mix Crushed for Birds | 0.1 |
| 2 | Palak | 0.05 |
| 3 | Cabbage | 0.05 |
| Munia/Finches | | |
| 1 | Kangnai | 0.015 |
| 2 | Bajra | 0.005 |
| 3 | Palak | 0.005 |
| 4 | Cabbage | 0.005 |
| Zebra | | |
| 1 | Wheat Daliya | 1 |
| 2 | Choker | 1 |
| 3 | Black Gram | 0.5 |
| 4 | Grass | 5 |
| Bison/ Gaur | | |
| 1 | Black Gram | 0.5 |
| 2 | Wheat Straw | 2 |
| 3 | Green Fodder | 10 |
| 4 | G.Cake | 0.25 |
| 5 | Rice Bran | 0.25 |
| 6 | Choker | 2 |
| Goral | | |
| 1 | Black Gram | 0.3 |
| 2 | Gur | 0.1 |
| 3 | Green Fodder | 5 |
| 4 | Maize Crushed | 0.25 |
| Swamp Dear | | |
| 1 | Black Gram | 0.1 |



| | | |
|---|-------------------------|--|
| 2 | Gur | 0.1 |
| 3 | Green Fodder | 15 |
| 4 | Cattle Feed | 0.15 |
| Crocodile/ Gharial/ Rosy pelican | | |
| S.No. | Particulars | Qty. of Feed |
| 1 | Fish | 2 |
| Indian Otter | | |
| 1 | Fish | 1 |
| Tortoise all species | | |
| 1 | Sattu | 0.2 |
| 2 | Banana | 2 no. |
| 3 | Papaya | 0.2 |
| 4 | Palak | 0.1 |
| 5 | Carrot | 0.1 |
| 6 | Cabbage | 0.1 |
| 7 | Cucumbe | 0.1 |
| Extra Diet/Remarks | | |
| 2 | Ice for Beer | 100 |
| 4 | Water Melon | As per SVO's recommendation |
| 5 | Chicken/mutton | As per SVO's recommendation |
| | in case of sick, oldage | As per SVO's recommendation |
| Preparations | | |
| | Mix crushed for Birds | Wheat 20% Maize 20% Jawar 20% Black gram 20% Rice Kani 20% |
| | Sabat dana For Birds | Wheat 25% Barley 25% Paddy 20% |



| | |
|-------------------------|---|
| | Bajra 25% |
| Mix crushed for Mammals | Black gram 50% Maize 25% Barley 25% |

14(a) Vaccination Schedule

| Sr. No. | Species | Disease vaccinated for | Name of the Vaccine and dosage/quantity used | Periodicity | Remarks |
|---------|----------|------------------------|--|-------------|---------|
| 1 | Lions | Rabies | Nobivac-Rabies/(1ML S/c) | Yearly | -- |
| 2 | Tigers | Rabies | Nobivac-Rabies/(1ML S/c) | Yearly | -- |
| 3 | Leopards | Rabies | Nobivac-Rabies/(1ML S/c) | Yearly | -- |

| Sr. No. | Species | Disease vaccinated for | Name of the Vaccine and dosage/quantity used | Periodicity | Remarks |
|---------|----------|--|--|-------------|---------|
| 1 | Lions | Panleukopenia, Calci virus (2 strain), Infectious Feline Rhinotracheitis | Fellowvax-PCT 1 ml s/c | Yearly | -- |
| 2 | Tigers | Panleukopenia, Calci virus (2 strain), Infectious Feline Rhinotracheitis | Fellowvax-PCT 1 ml s/c | Yearly | -- |
| 3 | Leopards | Panleukopenia, Calci virus (2 strain), Infectious Feline Rhinotracheitis | Fellowvax-PCT 1 ml s/c | Yearly | -- |

14 (b) Vaccination Schedule

| Sr. No. | Species | Disease vaccinated for | Name of the Vaccine and dosage/quantity used | Periodicity | Remarks |
|---------|----------|------------------------|--|-------------|---------|
| 1 | Lions | Canine distemper | Pure Vax-Ferret distemper Vaccine | Yearly | -- |
| 2 | Tigers | Canine distemper | Pure Vax-Ferret distemper Vaccine | Yearly | -- |
| 3 | Leopards | Canine distemper | Pure Vax-Ferret distemper Vaccine | Yearly | -- |



14 (c) Vaccination Schedule

| Sr. No. | Species | Disease vaccinated for | Name of the Vaccine and dosage/quantity used | Periodicity | Remarks |
|---------|------------|------------------------|--|-------------|---------|
| 1 | Bison | FMD and HS | Raksha-Biovac 3 ml S/C | Half-Yearly | -- |
| 2 | Goral | FMD and HS | Raksha-Biovac 1.5 ml S/C | Half-Yearly | -- |
| 3 | Swamp deer | FMD and HS | Raksha-Biovac 3 ml S/C | Half-Yearly | -- |
| 4 | Hog deer | FMD and HS | Raksha-Biovac 3 ml S/C | Half-Yearly | -- |
| 5 | Elephant | Tetanus | T.T Vaccine 3 ml S/C | Half-Yearly | -- |

15 De-worming Schedule

| Sr. No. | Species | Drug used | Month |
|---------|---------------|---|------------|
| 1 | Lion | Ivermectin | March 2020 |
| 2 | Tiger | Ivermectin | March 2020 |
| 3 | Leopard | Ivermectin | March 2020 |
| 4 | Jaguar | Ivermectin | March 2020 |
| 5 | Hyena | Praziquantel/Pyrantel Pamoate/ Fenbendazole | March 2020 |
| 6 | Jackal | Praziquantel/Pyrantel Pamoate/ Fenbendazole | March 2020 |
| 7 | Wolf | Praziquantel/Pyrantel Pamoate/ Fenbendazole | March 2020 |
| 8 | Cats | Ivermectin | March 2020 |
| 9 | Hippo | Fenbendazole | March 2020 |
| 10 | Porcupine | Syp. Piperazine | March 2020 |
| 11 | Owl/Fruit Bat | Syp. Piperazine | March 2020 |
| 12 | Elephant | Fenbendazole | March 2020 |
| 13 | Deers | Albendazole/Praziquantel/Pyrantel Pamoate/ Fenbendazole/Ivermectine | March 2020 |
| 14 | Bears | Fenbendazole | March 2020 |
| 15 | Wild Boar | Fenbendazole | March 2020 |
| 16 | Primates | Fenbendazole | March 2020 |
| 17 | Birds | Syp. Piperazine | March 2020 |
| 18 | Bison | Fenbendazole | March 2020 |
| 19 | Reptiles | Syp. Albomar/Fenbendazole/Ivermectin/Syp. Piperazine | March 2020 |



16 Disinfection Schedule

| Disinfection Schedule of Animal Complexes for 2019-2020 | | | | | | | | | | | | | |
|---|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| S.No | Name of Complex | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar |
| 1 | Monkey Complex-I | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● |
| 2 | Monkey Complex-II | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● |
| 3 | Tiger Complex | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● |
| 4 | Hippo Complex | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● |
| 5 | Emu Complex | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● |
| 6 | Elephant Complex | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● |
| 7 | Lion Safari Complex | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● |
| 8 | Leopard Complex | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● |
| 9 | Cat Complex | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● |
| 10 | Bear Complex | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● |
| 11 | Bird Aviary | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● |
| 12 | Pheasantry | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● |
| 13 | Small Deer Complex | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● |
| 14 | Off Display Area | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● |



| | | | | | | | | | | | | |
|----|---------------------|-------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 15 | Deer Safari Complex | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● |
| 16 | Small Bird Aviary | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● |
| 17 | Zebra Complex | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● |
| 18 | Swamp Deer Complex | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● |
| 19 | Blue Bull Complex | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● | ● ● ● |
| | | ● | DAILY DISINFECTION PROTOCOL | | | | | | | | | |
| | | ● | WEEKLY DISINFECTION PROTOCOL | | | | | | | | | |
| | | ● | FORTNIGHTLY DISINFECTION PROTOCOL | | | | | | | | | |

| PARAMETERS |
|---|
| PROTOCOL SHOWING WITH ● MARK |
| PHYSICAL REMOVAL OF ORGANIC MATTER |
| PRESSURE CLEANING WITH PLAIN WATER |
| EFFICACY OF FLY-CATCHER & MOUSE-TRAP |
| CLEANING OF WATERING BOWLS |
| REMOVAL OF EXCRETA FROM OPEN ENCLOSURE IN A COVERED CONTAINER AND DISPOSED |
| CLEANING OF FOOT-DIPS AND THEIR MATS |
| DISINFECTANT USED IN FOOT-DIP (ALTERNATELY) A) 2% KMNO ₄ B) 1% khorsaline |
| DRYING WITH FANS / EXHAUST |
| PROTOCOL SHOWING WITH ● MARK |
| HOT WATER SCRUBBING |
| WASHING WITH PLAIN HOT WATER AND RINSE |
| DISINFECTANT USED FOR CLEANING (5% SOLUTION) A) CAUSTIC SODA B) BLEACHING POWDER (NOT FOR ANIMALS FLOOR WASH) |
| PROTOCOL SHOWING WITH ● MARK |
| FLAME-GUN USE ON THE FLOOR AND WALLS OF RETIRING CELLS OF ANIMALS |



Daily disinfection schedule

1. Collect all feed wastage of carnivores in the polythene disposal bag and kept in red colour bin
2. Collect all the excreta of carnivores in the polythene disposal bag and kept in the blue colour bin
3. Collect all the excreta of carnivores from the open enclosure and spread the lime powder on the soil at site.
4. Washing the floor and walls of the animal housing area with pressure pump and sweeping and wipe properly
5. Collect all the bins from the animal's houses and incinerate all the feed wastage and excreta everyday
6. Burn all the excreta and other feed wastage in incinerator or buried in the pits under the layer of lime powder
7. same procedure has been done with the feed wastage of Gharial and crocodiles also
8. All the fodder wastage and dung of herbivores also has been removed from the surrounding of animals enclosures including the Elephants and its disposal 1 km away from the animal enclosure area and further disposal through vermicomposting or through SLRM.

Weekly disinfection schedule

1. Wet the surface of floor and walls with hot boiled water
2. Spread the solution of 5% KMNO₄ / Bleaching powder/ caustic soda flakes alternatively
3. Scrapping the surface of floor and walls with iron brush
4. Rinse the surface with hot boiled water completely
5. Dry surface with wiper or floor duster effectively

Fortnightly disinfection schedule

Flame burning of floor and walls of feeding cell on every alternate week

17 Health Check-up of employees for zoonotic diseases – case to case basis

| Sr.No. | Name | Designation | Date of Health Check up | Findings of Health Check up |
|--------|------|-------------|-------------------------|-----------------------------|
| | | | | |



18 Development Works carried out in the zoo during the year

1. **Animal Exchange Programmes**-During 2019-2020, Chhatbir Zoo successfully executed the animal exchange programmes with Rajkot Zoo & Indore Zoo. In this programme Chhatbir Zoo acquired Lions, White tiger, Foxes etc.

Asiatic Lion pair (Akshat & Dhriti) acquired from Rajkot Zoo



Lions Gagan & Sawan acquired form Indore Zoo



Royal Bengal Tiger (Nav)
acquired from Indore Zoo

White Tiger (Gauri)
acquired from Rajkot Zoo



2. **Zoo Animal Feed Store**—Zoo animal feed store was renovated and modernised in 2019-2020.





3. **Walk In Aviary**-Two new sections have been added in Walk in Aviary for Exotic birds.





4. Disease Investigation Lab & Birds parent stock Unit New sections for Laboratory purpose and Parent stock ward for birds have been added in wildlife hospital of Chhatbir Zoo.

5. **Mom & Baby care centre & modern toilet**-As far as the Public facilities are concerned; one Mom & Baby care centre and a modern toilet have been constructed and dedicated for the purpose of visitors.
6. **Zoo Waste Management** - To ensure Eco-friendly and useful disposal of the leftover green fodder and herbivore dung waste, the zoo has set up an solid and liquid resources management practices. Team of Chhatbir zoo converts the dung of herbivores, fodder waste and garden foliage into compost manure for fertilization of zoo landscaping



7. **Entry Plaza** - The entry plaza which includes thematic entry gate, new ticket counter and a food plaza has been handed over by the Tourism Department to the Zoo administration. The Zoo administration executed the landscaping works, protection works and made it functional for the visitors in 2019-20.





8. **Battery operated vehicles for zoo visitors** -The primary loop of the zoo is of about 3 km long where private vehicles were allowed to move with certain entry fees. But this was causing lot of air and noise pollution in the zoo which was neither good for zoo animals nor for visitors they apart from other managerial problems during peak visitation period. Thus the decision was taken to prohibit the entry of fuel emission vehicles in the zoo and to add more battery operated vehicles, i.e., upto 20 to cater the needs of zoo visitors.



9. Bicycle ride facilities Cycle ride facilities have been initiated to use within Zoo in an ECO Friendly way. On pilot basis, initially the Bicycles will be provided to the visitors free of cost. Based on the feedback of visitors the rent system will be implemented soon. This makes the zoo pollution free zoo as no fuel emission vehicles are entering the zoo except the service vehicles for the Emergency works and material delivery.



10. NEW INITIATIVES ON THE CARDS

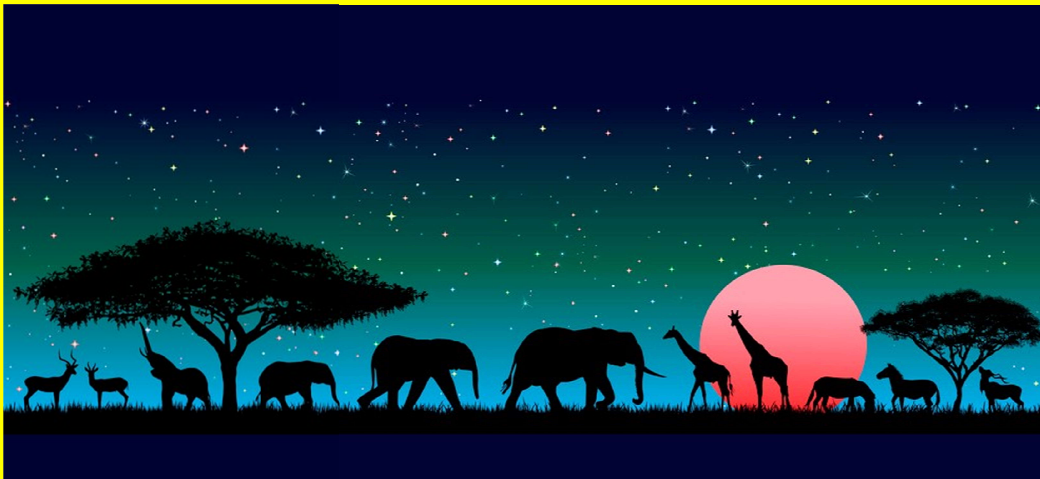
INTERACTIVE DINOSAURS PARK: As approved by the Punjab State Government and as per the decision taken by Wildlife Departmental Purchase Committee, Punjab in the meeting dated 11.09.2019, the E-tender to establish the Interactive Dinosaurs Park on Public Private Partnership mode in Chhatbir Zoo was floated by the Department. As per the eligibility criteria, technical evaluation and financial evaluation the Wildlife DPC recommended the successful bidder for undertaking the contract regarding Supply, Installation and



maintenance of Interactive Dinosaurs Park in Zoo Education park of M.C. Zoological Park, Chhatbir on Public Private Partnership mode. After the agreement was signed on 11.12.2019 between the firm and the Department, the field work has been commenced by the firm from 01.12.2019 and more than 60% of the works has been completed.



New Initiatives on the Cards



Chhatbir Evening Zoo

15

19. Important Events and happenings in the Zoo

Report regarding celebration of Wildlife Week 2019 at Chhatbir Zoo

Wildlife Week 2019 has been successfully celebrated at Chhatbir Zoo. Various events and activities were organized to create awareness towards "**Nature and Wildlife**". Everything was planned in the month of September 2019 to run all the activities and events smoothly. The entry of the visitors was allowed free during Wildlife week 2019 from 3rd October 2019 to 8th October 2019.

Many Government and private schools from surrounding urban and rural areas were invited in advance through formal letters. The schedule which was chalked out to celebrate the wildlife week 2019 is given as under.

Schedule of Events for "Wildlife Week Celebrations, 2019"

| Date | Events | Time | | Remarks |
|-----------------------------------|---|---|----------------------------------|--|
| 02.10.2019 (Wednesday) | Wildlife Awareness " Ride for Wild "-Mass cycling event. | 7 am to 9 am | | The cycle rally was flagged off from Forest complex, sector 68, Mohali and completed at Chhatbir zoo |
| 03.10.2019 (Thursday) | Zoo Keepers Talk on Tigers | 11.30 am to 1.00 pm 2.00 pm to 3.30 pm | | Tiger Complex |
| 03.10.2019 (Thursday) | Essay Writing Competition Middle Category Class 6 th to 8 th | Registration Time (10:00 am to 11:00 am) | Event Time (11:00 am to 1:00 pm) | Only 3 participant students were allowed in each category from one school. Students carry their own hard board. Only 3 participants students were allowed in each category from one school. Only 3 participant students were allowed in each category from one school. Students were allowed to use only colours provided by the Zoo management. Students carry their drawing boards only. Only 3 participant students were allowed in each category from one school. |
| | Essay Writing Competition Senior Category Class 9 th to 10 th | Registration Time (10:00 am to 11:00 am) | Event Time (11:30 am to 1:00 pm) | |
| | Painting Competition Junior Category Class 1st to 5th | Registration Time (10:00 am to 11:00 am) | Event Time (11:00 am to 1:00 pm) | |
| | Painting Competition Middle Category Class 6 th to 8 th | Registration Time (10:00 am to 11:00 am) | Event Time (11:30 am to 1:00 pm) | |



| | Quiz Competition Senior Category Class 9 th to 10 th | Registration Time (10:00 am to 11:00 am) | Event Time (11:30 am to 1:00 pm) | No limit of Students |
|-----------------------------|--|---|----------------------------------|--|
| 4.10.2019 (Friday) | State Level Grand Function | 11.30 am to 1.00 pm 2.00 pm to 3.30 pm | | Hon'ble Cabinet Minister, Forest Department, Punjab was the Chief guest of this function. |
| | Wildlife and nature Painting Exhibition | 10 am to 5 pm | | By renowned Artists |
| | Zoo Keeper's Talk on Elephants | 11.30 am to 1.00 pm 2.00 pm to 3.30 pm | | Elephant Complex |
| 5.10.2019 (Saturday) | Reptile expert's Talk and show | 11.30 am to 1.00 pm 2.00 pm to 3.30 pm | | Reptile house |
| | Zoo Keeper's Talk on Canine | 11.30 am to 1.00 pm 2.00 pm to 3.30 pm | | Wolf Complex |
| 6.10.2019 (Sunday) | "Run for Wild" Wildlife Awareness campaign-Running event | 7.00 am to 9.00 am | | 5 kms and 10 kms run in Chhatbir zoo Premises |
| | Educational Activity (Street Play) | 11.00 am to 4.00 pm | | At Chhatbir Zoo |
| | Bird Walk in Chhatbir | 7.00 am to 9.00 am | | At Chhatbir Zoo |
| | Zoo Keeper's Talk on leopards | 11.30 am to 1.00 pm 2.00 pm to 3.30 pm | | Leopard Complex |
| | Painting Workshop | 11.00 am to 4.00 pm | | At Interpretation Centre |
| | Photography competition for amateur photographers | 11.30 am to 3.30 pm | | Inside Zoo |
| 7.10.2019 (Monday) | Zoo Keeper's Talk on Bear | 11.30 am to 1.00 pm 2.00 pm to 3.30 pm | | Bear Complex |
| 8.10.2019 (Tuesday) | Zoo Keeper's Talk on Birds | 11.30 am to 1.00 pm 2.00 pm to 3.30 pm | | Walk in aviary |

Whole wildlife week was celebrated as per the pre-planned schedule



2nd October 2019

On 02.10.2019 Wild Mass cycling rally was organized. In which more than 200 cyclists were participated. The rally started at 7 am, distance in this rally was about 13 km. The Deputy Commissioner, SAS Nagar and his office directed the SAS nagar police and Traffic police and other concerned officers to ensure complete safety. Apart from that cyclists of Cycle Giri Group, Bakhtawar Cycle Group and Patiala Riders Group also participated in larger numbers in this rally with great enthusiasm.

दैनिक भास्कर

03-Oct-2019
Page 1

वाइल्ड लाइफ वीक सेलिब्रेशन के पहले दिन साइकिल रैली निकालकर स्वच्छ पर्यावरण का संदेश दिया...



जीरकपुर के छतबीड़ जू में 3 से 8 अक्टूबर तक वाइल्ड लाइफ वीक सेलिब्रेशन से एक दिन पहले स्वच्छ पर्यावरण का संदेश देने के लिए साइकिल रैली निकालकर लोगों को जागरूक किया गया। रैली को जू के डायरेक्टर एम सुभागर ने हरी झंडी दिखाकर खाना किया। इसमें ट्राइसिटी के कई लोगों ने हिस्सा लिया। रैली सुबह 7 बजे मोहाली स्थित फॉरेस्ट कॉम्प्लेक्स से छतबीड़ तक निकाली।

Dr. M. Sudhagar, the Field Director presided over the cycle rally. He welcomed the bicycle rally on its arrival at Chhatbir Zoo and gave information about the Wildlife awareness campaign and Wildlife Week day 2019.

Apart from this, Participating Certificates were also given to all the cyclists in this regard. From children to the elderly participated in this Ride for wild mass cycling rally.

3rd October 2019

On 03.10.2019, zoo keeper talk was held at Tiger Complex. In which Zoo keeper provided detailed information about the White Tiger and the Royal Bengal Tiger to the visitors and school children who visited the Chhatbir zoo. The school children and other spectators received information about Tiger with great interest.

In addition, Essay writing competition, Painting competition and Quiz competition were held on 03.10.2019. In which 200 students from around 30 schools participated.





4th October 2019

A state level function was held on 04.10.2019. In which Mr. Sadhu Singh Dharamsot, Forest Minister, of Punjab Government was the Chief Guest.

Mr. Sadhu Singh Dharamsot, Forest Minister, of the Punjab government released a pair of new Lions at Chhatbir Zoo in the lion safari and the White Tiger in Tiger Complex.





Mr. Sadhu Singh Dharamsot, Forest Minister, of the Punjab government inaugurated the **Student Zoo Club** at Chhatbir Zoo by pressing a button on the mobile, in which, the minimum entry fee of students of Government and private schools were kept at Rs. 10.



Mr. Sadhu Singh Dharamsot, Forest Minister of the Punjab Government, finally addressed the gathering in which he gave information about the environment and wildlife and Plastic Free India.



Mr. Sadhu Singh Dharamsot, Forest Minister of the Punjab Government, also gave prizes to the students of different schools who won in the Inter School Competition. He honoured the officers and staff of the zoo for their work, awareness and contribution during the function at Chhatbir Zoo.





5th October 2019

On 05.10.2019, Nikhil Sangar gave information about different species of snakes to the spectators and school children who came to see the zoo under the banner of know about reptiles. In this regard, the zoo visitors and school children showed great interest in getting information about Snakes.



6th October 2019

During the Wildlife Week at 7 am on 06.10.2019, the Wildlife awareness Campaign Run (mini marathon) was participated by children and elders with great enthusiasm. On this occasion the Field Director of Chhatbir Zoo Dr. M. Sudhagar, I.F.S, inaugurated the programme. Competitors participating in this race were awarded certificates and prizes.



Apart from this wildlife nature painting exhibition competition was held on 06.10.2019. The school children were given information about keeping the environment clean. Awareness was raised among school children and the general public on how to plant more trees, save water, save wildlife and stop deforestation.



On 06.10.2019, zoo Keeper talk was held at leopard's complex. In which zoo keeper gave detailed information about leopards who visited the Chhatbir zoo. The school children and other spectators received information about Tiger with great interest.

7th October 2019

On 07.10.2019, zoo keeper talk was held at Bear complex. In which zoo keeper informed the visitors and school children about the different types of bears in the zoo. In which the audience and school students showed keen interest in getting information about it with great enthusiasm and interest.



8th October 2019

On 08.10.2019, zoo keeper talk was held at Walk in aviary. In which zoo keeper gave information about different types of birds in the zoo. The visitors and school children showed so much interest for taking information about birds. Thus, the wildlife week was celebrated with great excitement.

20. Education and Awareness programmes during the year

International Tiger Day 2019

On 29th July 2019 Chhatbir Zoo celebrated International Tiger day by organizing a campaign on Tiger awareness among zoo visitors. It was specifically organized at the Tiger enclosures of the zoo, So as to give realistic touch of the issue.




International Tiger Day held annually on July 29 to give worldwide attention to the reservation of tigers. It is both an awareness day as a celebration. It was founded at the Saint Petersburg Tiger Summit in 2010. This was done because at that moment wild tigers were too close to extinction. Many animal welfare organizations pledged to help these wonderful creatures and are still helping to raise funds to reach this goal. The goal of Tiger Day is to promote the protection and expansion of the wild tiger's habitats and to gain support through awareness for tiger conservation.

Therefore, it is high time for the humankind to understand the plight of Tigers in country and do their bit in the noble cause of Tiger conservation. The zoo plays a pivotal role as for as awareness generation of wildlife in the general and Tigers in particulars are concerned.





WORLD LIONS DAY

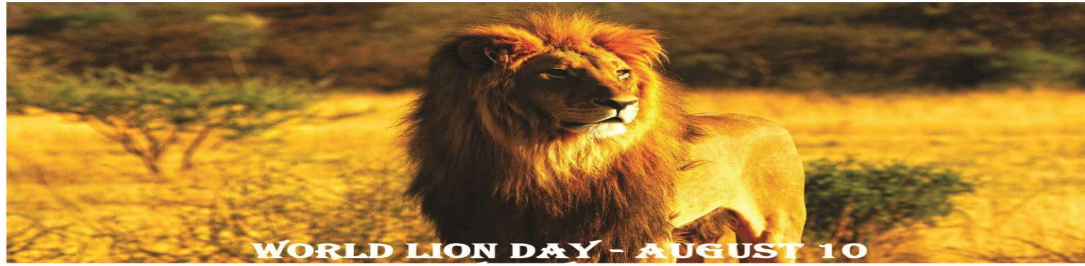




M.C.Zoological Park, Chhatbir
Welcomes You on World Lion Day





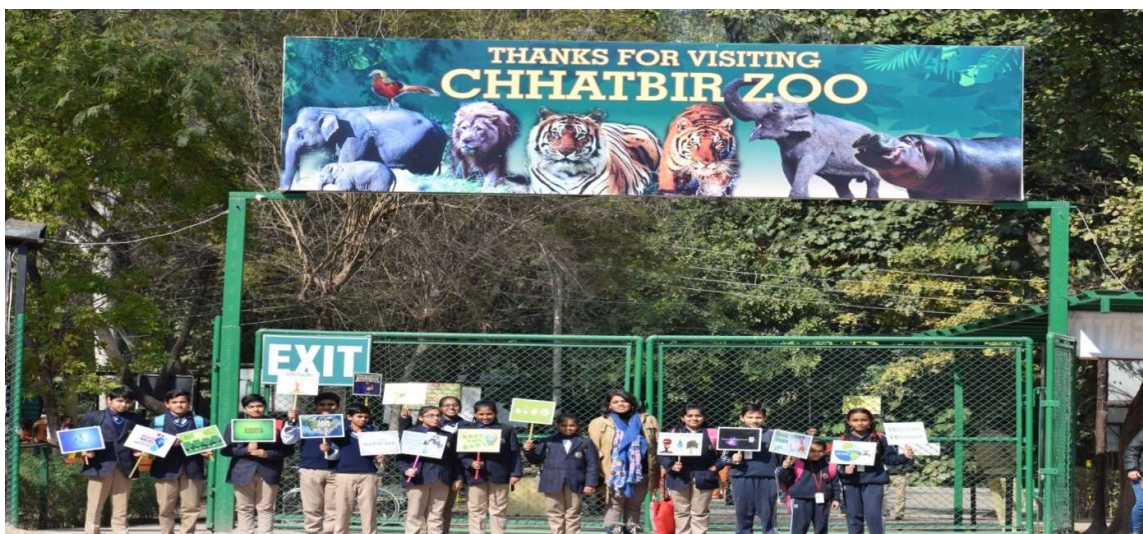
ਮਹਿੰਦਰਾ ਚੌਧਰੀ ਚਿੜੀਆਘਰ ਛੱਤਬੀੜ ਵਲੋਂ
ਵਿਸ਼ਵ ਸ਼ੇਰ ਦਿਵਸ
ਤੇ ਆਉਣ ਵਾਲੇ ਦਰਸ਼ਕਾਂ ਨੂੰ “ਜੀ ਆਇਆਂ ਨੂੰ”



Lion Day aims to raise awareness of the majestic hunter, the ultimate feline, the king of the jungle. We should have left it at 'king of the jungle'. It is all about lions, but you probably have that from the name. This celebration of the animal kingdom's most beautiful and fearsome creature was founded by Big Cat Rescue, the world's largest accredited sanctuary dedicated to big cats. August 10th is a day for people to come together from across the world to pay tribute to the mighty lion in as many ways as possible. Though a fun and exciting occasion for all, its foundations are based in a very serious matter: lion numbers have dramatically declined to the point where the species needs to be placed on the endangered list, just like its larger cousin the tiger. How you celebrate is entirely up to you. You could change your social media profile pictures to a lion for the day, draw a sketch and share it with friends, find out who has the loudest roar. Adopt a lion at Chhatbir Zoo or make a donation to Big Cat Rescue's ongoing mission. At the very least, please Like the official Facebook page and follow @BigCatRescue on Twitter, because the more we spread the word, the greater the chances of these incredible animals gracing our planet forevermore. According to Panthera, lions have disappeared from 90 percent of their historic range due to habitat loss, hunting and poaching, retaliatory killings by livestock owners, loss of prey and other factors. "Just over a century ago, there were more than 200,000 wild lions living in Africa. Today, there are only about 20,000; lions are extinct in 26 African countries. "The population count from the IUCN Red List is slightly more optimistic, but not much: They estimate there are 20,000 to 39,000 lions left in the wild. **According to a 2015 census, a little more than 500 lions—the world's total wild population—live in Gir, up from 411 in 2010.**

WORLD WET LAND DAY

On 02 February 2020 Chhatbir Zoo celebrated World Wetlands Day by organizing a campaign on 02 February to raise awareness about the value of wetlands for humanity and the planet among zoo visitors.





World Environment Day 2019

A **Platform for Action** World Environment Day is the UN's most important day for encouraging worldwide awareness and action for the protection of our environment. Since it began in 1974, it has grown to become a global platform for public outreach that is widely celebrated in over 100 countries. The World Environment Day was celebrated in Chhatbir Zoo with the active participation of students



Green Zoo Mission:

Chhatbir Zoo with Gurukul School, Panchkula Started an awareness campaign Programme regarding the air pollution. School students along with zoo staff created awareness among the visitors regarding air pollution and its preventions method. School students specially prepared and recited a poem about in air pollution and awareness. They took a pledge to plant Trees by their own and will take care of it with the help of students. Apart from this, the Zoo authority distributed plants to the visitors as "Boota Pardhaad". Plantation ceremony has also been done on this occasion by the Zoo Team headed by Zoo Director Dr. M. Sudhagar I.F.S in which, the Students and teachers of Gurukul School Panchkula were also given task to Plant Trees in Premises of Chhatbir Zoo.





21. Seasonal special arrangements for upkeep of animals

Summer care arrangements

M.C. Zoological Park Chhatbir is primarily established with the objective of conservation of rare fauna, education and awareness on wildlife to general public and research on the wildlife behavior and disease management. The Chhatbir zoo has trained and dedicated manpower for the management of zoo animals. Every year special seasonal care and support is provided to the animals for their better up-keep. Zoo management tries its best to provide hygienic and comfortable environment to keep them stress free. The summer care arrangements being followed in Chhatbir zoo are as given below.

Environmental Care:

Carnivores: Desert coolers and air circulator fans have been provided in the night shelters of all the Tigers, Leopards, Lions, Bears and other feline/canine. Animal management cell is all time vigilant to make sure that the houses and night shelters remain cool and dry. All the windows have been covered with mesh/jali to keep mosquito free environment. The few areas of houses and enclosures also have been shaded with 75% density agro-net which helps to decrease the surrounding temperature. Tankers and tractors are always in standby mode to ensure the uninterrupted supply of water everywhere in the zoo in case of emergency.

Herbivores: Creation of temporary shelter/hut made from khanna (Sacram munja) and wooden logs and bamboo etc. for safety against heat stroke and hard sunlight in all the enclosures of herbivores animals. Muddy shallow pool duly filled with water has been made in elephant enclosure, Manipur deer enclosure, Swamp deer enclosure and Deer safari for volleying and mud bath of animals. Concrete water pool is also being kept full of water round the clock. The few patches in the enclosures also have been covered with agro-net of 75% density for better cool effect.

Birds: All the cages of birds have been covered with agro-net of 75% density and jute mat tightly to save birds from hot air and hard sunlight to save them from heat stroke. The sprinkler showers have been provided to peasantry and small aviary to make the birds more happy and comfy.

Dietary Care:

Ice cube (100 kg) to each bear every day during whole of the summer season.

Water-melon is being provided to all the monkeys, bears and elephants.

Glucon-D powder mixed in the drinking water of all the carnivores and omnivores animals.

Banana fruit has been replaced with papaya during summers.

Cabbage leaves has been replaced with spinach leaves for animals and birds during summers.

Reddish has been replaced with cucumber for animals and birds during summers.





Winter care arrangements

The Winter care arrangements being followed in Chhatbir zoo are as given below.

Environmental Care:

Carnivores: Room heaters and heat convectors have been provided in the night shelters of all the Tigers, Leopards, Lions and other small cats. All the windows and openings have been covered with polythene sheets or fibber sheets and sacrum grass thatch. Special temperature control arrangements have been provided for newly acquired Lions and tigers from Gujarat and Indore.

Herbivores: Creation of temporary shelter/hut made from kanna (sacrum-munja) Thatch and wooden logs and bamboo etc. with the help of binding wire and ropes with the facility of water proof arrangements(black tirpal fixed in the roof) in all the enclosures of herbivores animals. Paddy straw and wheat husk bedding have been provided to all the herbivores animals for cosy flooring.

Birds: All the cages of birds have been covered with fibre cloths, jute mat and polythene sheets tightly to save them from wind chill and winter rain. Paddy straw, wheat husk and rice bran bedding have been provided to all the birds for warm nesting. Covering from the front side of birds cages is foldable so that can be open for sunlight when needed. All the pheasant's cages have been enriched with grass/paddy/khanna structure for cosy environment.

Reptiles: Reptile house has been equipped with oil fin heaters which are very good for reptiles as these heaters are not affecting the natural humidity of the enclosures. Apart that all the cells of reptiles have been provided wheat husk, dry leaf foliage and heavy blankets which gives cosiness to the reptiles. Special reptile basking lamps have been fitted in the reptile section. Special aquarium water heaters with water circulation system are also been provided to Turtles and Tortoises.

Dietary Care:

Honey 100 gm to each bear every day during harsh winters

Sugarcane 1 kg to each bear every day in winter season

rock salt lick for all herbivores .

Jaggery (Gur) 100 gm to each deer every day during harsh winters

Jaggery (Gur) 20 gm to each monkey every day during harsh winters

Sugarcane 100 gm to each monkey every day in winter season

Sugarcane 100 kg to each elephant every day in winter season

Alsee seeds and nutrition supplements to small birds







22. Research Work carried out and publication

| SL. NO. | Name of the Researcher | Subject matter of Research | Name of the institution of the Researcher |
|---------|------------------------|---|---|
| 1. | Dilbagh Singh | Retrospective Study on the Diseases and their therapy in fields under captivity | Guru Angad Dev Veterinary and Animal Sciences University. |
| 2. | Avni Gupta | Does stereotypy dictate animal welfare in captivity? Comparing the causal factors of stereotypy in captive tigers and leopards at two prominent zoos of India | Amity Institute of Forestry & Wildlife |

23. Animal acquisition / transfer / exchange during the year

| | | | | | |
|----|-----------------|---|------------------------------|------------|---|
| 1 | Lion | 2 | acquisition through Exchange | 21.08.2019 | Lion 2 and 1 tiger acquired from Rajkot gujarat vide animal exchange approved by CZA letter no. 23-1/2018-CZA(VOL-I)(NS)/846/2019 dated 23.05.2019 and FD Zoo letter end No. 1776-80 dated 14.08.2019 Sr. No.1 to Sr. No. 8 animals acquired from Indore Madhya Pradesh zoo Vide animal exchange approved by CZA F.No.23-2/2019-CZA(PKR)/932/2019 Dated 14.06.2019 |
| 2 | White Tiger | 1 | acquisition through Exchange | 21.08.2019 | |
| 3 | Lion | 2 | acquisition through Exchange | 19.10.2019 | |
| 4 | Tiger | 1 | acquisition through Exchange | 19.10.2019 | |
| 5 | Indian fox | 2 | acquisition through Exchange | 19.10.2019 | |
| 6 | Indian Wolf | 2 | acquisition through Exchange | 19.10.2019 | |
| 7 | Sloth Bear | 1 | acquisition through Exchange | 19.10.2019 | |
| 8 | Jungle cat | 1 | acquisition through Exchange | 19.10.2019 | |
| 9 | Chinkara | 1 | acquisition through Exchange | 19.10.2019 | |
| 10 | Silver Pheasant | 2 | acquisition through Exchange | 19.10.2019 | |
| 11 | Chinkara | 2 | acquisition through Exchange | 19.10.2019 | These animals aquired from Rohtak Zoo Haryana Vide animal exchange approved by CZA F.No.23-4/2019-CZA(Pt.)(PKR)/1655/2019 Dated 25.10.2019 |



Transfer

| | | | | | |
|----|--------------------|----|----------|------------|---|
| 1 | Hamadryas Babbon | 2 | Transfer | 21.10.2019 | Sr. No.1 to Sr. No. 9 animals transferred To Indore zoo Madhya Pradesh Vide animal exchange approved by CZA F.No.23-2/2019-CZA(PKR)/932/2019 Dated 14.06.2019 |
| 2 | Sarus crane | 2 | Transfer | 21.10.2019 | |
| 3 | White buck | 2 | Transfer | 21.10.2019 | |
| 4 | Grey pelican | 2 | Transfer | 21.10.2019 | |
| 5 | Hippopotamus | 1 | Transfer | 21.10.2019 | |
| 6 | Jungle cat | 2 | Transfer | 21.10.2019 | |
| 7 | Chinkara | 1 | Transfer | 21.10.2019 | |
| 8 | Red Jungle fowl | 4 | Transfer | 21.10.2019 | |
| 9 | Barking deer | 4 | Transfer | 21.10.2019 | |
| 10 | Hamadryas Babbon | 1 | Transfer | 06.11.2019 | Sr. No.10 to Sr. No.13 animals transferred To Rajkot zoo Gujarath Vide animal exchange approved by CZA F.No. 23-1/CZA(Vol. I)/846/2019 Dated 23.05.2019 |
| 11 | Asiatic Black bear | 1 | Transfer | 06.11.2019 | |
| 12 | Jungle cat | 2 | Transfer | 06.11.2019 | |
| 13 | Zebra finch | 10 | Transfer | 06.11.2019 | |
| 14 | Leopard | 1 | Transfer | 21.12.2019 | These animals Transferred to Rohtak Zoo Haryana Vide animal exchange approved by CZA F.No.23-4/2019-CZA(Pt.)(PKR)/1655/2019 Dated 25.10.2019 |

Rescue and Rehabilitation of wild animals carried out by the Zoo

| | | | | | |
|---|---------|---|---------|------------|---|
| 1 | Leopard | 1 | Rescued | 17.11.2019 | This leopard was rescued by DFO Wildlife Ropar and kept in the isolation ward at Chhatbir Zoo on 17.11.2019 |
|---|---------|---|---------|------------|---|



| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-------------------------|-----------------------------|----------|----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|
| 7 | INDIAN SOFT SHELLTURTLE | <i>Nilssonina gangetica</i> | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 8 | INDIAN ROOFED TURTLE | <i>Pangshura tecta</i> | 1 | 3 | 11 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 3 | 9 | 13 |
| 9 | INDIAN SPOTTED TURTLE | <i>Geoclemys hamiltonii</i> | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| Total | | | 4 | 6 | 60 | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 4 | 6 | 57 | 67 |

MAHENDRA CHAUDHARY ZOOLOGICAL PARK, CHHATBIR, PUNJAB

INVENTORY OF WILD ANIMALS AND BIRDS BETWEEN 01.04.2019 to 31.03.2020

SCHEDULE II OF WILDLIFE (PROTECTION ACT, 1972)

| Sr. No. | Species | Scientific Name | Position as on 01.04.2019 | | | | Birth | | | Acquisition by Rescue/gift | | | Acquisition by Transfer | | | Disposal by Death | | | Disposal by Transfer | | | Position as on 31.03.2020 | | | | |
|----------------|---------------------|----------------------------------|---------------------------|---|---|-------|-------|---|---|----------------------------|---|---|-------------------------|---|---|-------------------|---|---|----------------------|---|---|---------------------------|----|---|-------|----|
| | | | M | F | U | Total | M | F | U | M | F | U | M | F | U | M | F | U | M | F | U | M | F | U | Total | |
| MAMMALS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | BEAR HIMALYAN BLACK | <i>Selenarchos thibetanus</i> | 1 | 5 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 3 |
| 2 | BEAR SLOTH | <i>Melursus ursinus</i> | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 3 | CIVET | <i>Paradoxurus hemaphroditus</i> | 0 | 1 | 4 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 5 |
| 4 | JACKAL | <i>canis aureus</i> | 1 | 3 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 5 |
| 5 | LANGUR COMMON | <i>Presbytis entellus</i> | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| 6 | MACAQUE ASSAMESE | <i>Macaca assamensis</i> | 11 | 1 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 1 | 0 | 12 |
| 7 | MACAQUE BONNET | <i>Macaca radiate</i> | 5 | 1 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 1 | 0 | 6 |
| 8 | MACAQUE RHESUS | <i>Macaca mulatta</i> | 5 | 5 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | 0 | 10 |
| 9 | MACAQUE PIG TAILED | <i>Macaca enmestrina</i> | 2 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 4 |



| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|----------------------|------------------------------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|----------|-----------|-----------|--|
| 10 | JUNGLE CAT | <i>Felis chaos</i> | 2 | 4 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | 2 | 0 | 1 | 1 | 0 | 2 | |
| 11 | INDIAN GREY MONGOOSE | <i>Herpestes edwardsi</i> | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | |
| 12 | INDIAN FOX | <i>Vulpes bengalensis</i> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | |
| Total | | | 30 | 23 | 7 | 60 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 2 | 3 | 0 | 2 | 3 | 0 | 29 | 18 | 7 | 54 | | |
| REPTILES | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | COBRA | <i>Naja naja</i> | 0 | 0 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | |
| 2 | RAT SNAKE | <i>Ptyas mucosa</i> | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | |
| 3 | CHECKERED KEELBACK | <i>Xenochrophis piscator</i> | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | |
| Total | | | 0 | 0 | 12 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 12 | |

MAHENDRA CHAUDHARY ZOOLOGICAL PARK, CHHATBIR, PUNJAB

INVENTORY OF WILD ANIMALS AND BIRDS BETWEEN 01.04.2019 to 31.03.2020

SCHEDULE III & IV OF WILDLIFE (PROTECTION ACT, 1972)

| Sr. No. | Species | Scientific Name | Position as on 01.04.2019 | | | | Birth | | | Acquisition by Rescue/gift | | | Acquisition by Transfer | | | Disposal by Death | | | Disposal by Transfer | | | Position as on 31.03.2020 | | | | | |
|--------------|----------------------|-------------------------------|---------------------------|----|----|-------|-------|---|----|----------------------------|---|---|-------------------------|---|---|-------------------|---|---|----------------------|---|---|---------------------------|----|----|-------|----|----|
| | | | M | F | U | Total | M | F | U | M | F | U | M | F | U | M | F | U | M | F | U | M | F | U | Total | | |
| Birds | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | CRANE SARUS | <i>Grus antigone</i> | 6 | 2 | 3 | 11 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 5 | 1 | 6 | 12 |
| 2 | DOVE | <i>Streptopelia chinensis</i> | 15 | 15 | 9 | 39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 15 | 9 | 39 |
| 3 | DUCK SPOT BILL | <i>Anas poecilorhyncha</i> | 5 | 5 | 1 | 11 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | 11 | 21 |
| 4 | DUCK COMBED | <i>Sarkidiornis melanotos</i> | 10 | 10 | 6 | 26 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 10 | 10 | 30 | |
| 5 | FOWL RED JUNGLE | <i>Gallus gallus</i> | 2 | 7 | 9 | 18 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 5 | 39 | 44 | |
| 6 | PARAKEET ROSE RINGED | <i>Psittacula krameri</i> | 15 | 15 | 15 | 45 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 14 | 15 | 19 | 48 | |



| | | | | | | | | | | | | | | | | | | | | | | | |
|----|-------------------------------|---------------------------------------|----|----|----|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|----|-----|
| 7 | PARAKEET ALEXANDRINE | <i>Psittacula eupatria</i> | 7 | 7 | 9 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 7 | 9 | 23 |
| 8 | PARAKEET BLOSSOM HEADED | <i>Psittacula roseate</i> | 2 | 2 | 7 | 11 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 9 | 13 |
| 9 | PARTRIDGES GREY | <i>Francolinus pondicerianus</i> | 0 | 0 | 3 | 3 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 7 |
| 10 | PARTRIDGES BLACK | <i>Francolinus francofinus</i> | 0 | 0 | 8 | 8 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 12 |
| 11 | PELICANS ROSY | <i>Pelecanus philippensis</i> | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| 12 | QUAIL COMMON | <i>Coturnix coturnix</i> | 0 | 0 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 7 | 7 |
| 13 | STORK BLACK NECKED | <i>Xenorhynchus asiaticus</i> | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 14 | STORK PAINTED | <i>Mycteria leucocephala</i> | 13 | 13 | 83 | 109 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 13 | 83 | 109 |
| 15 | STORK WHITE | <i>Ciconia ciconia</i> | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 16 | SHIKARA | <i>Accipiter badius</i> | 0 | 1 | 1 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 5 |
| 17 | BARNOWL | <i>Tyto alba</i> | 0 | 0 | 13 | 13 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 13 | 13 |
| 18 | GREAT HORNED OWL | <i>Bubo bubo</i> | 0 | 0 | 2 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| 19 | BLACK KITE * | <i>Milvus migrans</i> | 0 | 0 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| 20 | WHITE IBIS | <i>Threskiornis melanocephala</i> | 0 | 2 | 4 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 6 |
| 21 | WOOLY NECKED STORK | <i>Ciconia episcopus</i> | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| 22 | COMMON MOORHEN | <i>Gallinula chloropus</i> | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| 23 | WHITE BREASTED WATERHEN | <i>Amaurornis phoenicurus</i> | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| 24 | CATTLE EGRET | <i>Bubulcus ibis</i> | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| 25 | INDIAN POND HERON | <i>Ardeola grayii</i> | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| 26 | NIGHT HERON | <i>Nycticorax nycticorax</i> | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| 27 | LESSER COUCAL | <i>Centropus bengalensis</i> | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |



| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-----------------------------|----------------------------------|-----------|-----------|------------|------------|----------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|------------|------------|
| 28 | COMMON MYNA | <i>Acridotheres tristis</i> | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | |
| 29 | JUNGLE BABBLER | <i>Turdoides striatus</i> | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | |
| 30 | WEAVER BIRD | <i>Polceus philippinus</i> | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | |
| 31 | SPOONBILL WHITE | <i>Platalea leucorodia</i> | 0 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | |
| 32 | LESSER WHISTLING TEAL | <i>Dendrocygna javanica</i> | 0 | 0 | 10 | 10 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 14 | |
| 33 | GREY PELICAN | <i>Dendrocygna javanica</i> | 0 | 0 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 4 | 4 | |
| 34 | CHAKUR PARTRIDGES | <i>Alectoris chukar</i> | 1 | 1 | 5 | 7 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 6 | 8 | |
| 35 | ROFOUS TREE PIE | <i>Dendrocitta vagabunda</i> | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | |
| 36 | WATER RAIL | <i>Rallus aquaticus</i> | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | |
| 37 | RUDY SHELDUCK | <i>Tadorna ferruginea</i> | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | |
| 38 | GREYLAG GOOSE | <i>Anser anser</i> | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | |
| 39 | PINTAIL | <i>Anas acuta</i> | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | |
| 40 | BIRD OF PREY | <i>unidentified</i> | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | |
| TOTAL | | | 81 | 83 | 244 | 408 | 0 | 0 | 75 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 5 | 3 | 3 | 2 | 77 | 80 | 312 | 469 |

* earlier written as spotted eagle reconfirmed as kite



MAHENDRA CHAUDHARY ZOOLOGICAL PARK, CHHATBIR, PUNJAB

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SCHEDULE III & IV OF WILDLIFE (PROTECTION ACT, 1972)

| Sr. No. | Species | Scientific Name | Position as on 01.04.2019 | | | | Birth | | | Acquisition by Rescue/gift | | | Acquisition by Transfer | | | Disposal by Death | | | Disposal by Transfer | | | Position as on 31.03.2020 | | | | | |
|-----------------|----------------------|--------------------------------|---------------------------|------------|------------|------------|----------|----------|-----------|----------------------------|----------|----------|-------------------------|----------|----------|-------------------|----------|----------|----------------------|----------|----------|---------------------------|-----------|------------|------------|---|---|
| | | | M | F | U | Total | M | F | U | M | F | U | M | F | U | M | F | U | M | F | U | M | F | U | Total | | |
| MAMMALS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | BLUE BULL | <i>Boselaphus tragocamelus</i> | 0 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 |
| 2 | DEER BARKING | <i>Muntiacus muntjak</i> | 9 | 14 | 2 | 25 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 2 | 0 | 6 | 12 | 6 | 24 | | |
| 3 | DEER HOG | <i>Axis porcinus</i> | 6 | 9 | 8 | 23 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 4 | 9 | 15 | 28 | | | |
| 4 | DEER SAMBAR | <i>Cervus unicolor</i> | 13 | 27 | 26 | 66 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 11 | 27 | 46 | 84 | | | |
| 5 | DEER SPOTTED | <i>Axis axis</i> | 24 | 42 | 47 | 113 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 42 | 61 | 127 | | | |
| 6 | HYENA | <i>Hyaena hyaena</i> | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | | | |
| 7 | PORCUPINE | <i>Hystrix indica</i> | 0 | 0 | 42 | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 | 42 | | | |
| 8 | GORAL | <i>Nemorhaedus goral</i> | 1 | 3 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 5 | | | |
| 9 | WILD BOAR | <i>Sus scofa</i> | 1 | 0 | 18 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 18 | 19 | | | |
| TOTAL | | | 55 | 101 | 144 | 300 | 0 | 0 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 2 | 2 | 0 | 48 | 99 | 189 | 336 | | |
| REPTILES | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | ROYAL SNAKE | <i>Spalerosophis diadema</i> | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | | |
| 2 | INDIAN STAR TORTOISE | <i>Geochelone elegans</i> | 0 | 0 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | | |
| TOTAL | | | 0 | 0 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | | |



MAHENDRA CHAUDHARY ZOOLOGICAL PARK, CHHATBIR, PUNJAB

INVENTORY OF WILD ANIMALS AND BIRDS BETWEEN 01.04.2019 to 31.03.2020

SCHEDULE V, VI & OTHERS OF WILDLIFE (PROTECTION ACT, 1972)

| Sr. No. | Species | Scientific Name | Position as on 01.04.2019 | | | | Birth | | | Acquisition by Rescue/gift | | | Acquisition by Transfer | | | Disposal by Death | | | Disposal by Transfer | | | Position as on 31.03.2020 | | | | |
|----------------|-----------|---------------------------|---------------------------|----------|----------|----------|----------|----------|----------|----------------------------|----------|----------|-------------------------|----------|----------|-------------------|----------|----------|----------------------|----------|----------|---------------------------|----------|----------|----------|----------|
| | | | M | F | U | Total | M | F | U | M | F | U | M | F | U | M | F | U | M | F | U | M | F | U | Total | |
| MAMMALS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FRUIT BAT | <i>Pteropus giganteus</i> | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| TOTAL | | | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |

EXOTIC & OTHERS

| Sr. No. | Species | Scientific Name | Position as on 01.04.2019 | | | | Birth | | | Acquisition by Rescue/gift | | | Acquisition by Transfer | | | Disposal by Death | | | Disposal by Transfer | | | Position as on 31.03.2020 | | | |
|--------------------|--------------------------------|----------------------------------|---------------------------|----|---|-------|-------|---|---|----------------------------|----|---|-------------------------|---|---|-------------------|---|---|----------------------|---|----|---------------------------|----|-----|-------|
| | | | M | F | U | Total | M | F | U | M | F | U | M | F | U | M | F | U | M | F | U | M | F | U | Total |
| OTHER BIRDS | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | EMU | <i>Dromiceius novahollandiae</i> | 8 | 8 | 7 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 8 | 8 | 5 | 21 |
| 2 | COCKATOO SULPHUR CRESTED | <i>Kokatoe galerita</i> | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| 3 | COCKTIEL GREY | <i>Nymphicus hollandicus</i> | 5 | 5 | 3 | 13 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | 14 | 24 | |
| 4 | BUDGRIGAR | <i>Melopsittacus undulates</i> | 96 | 99 | 0 | 195 | 0 | 0 | 0 | 0 | 21 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 96 | 98 | 21 | 215 | |
| 5 | PHEASANT RING NECKED | <i>Phasianus colchicus</i> | 2 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 4 | |
| 6 | PHEASANT GOLDEN | <i>Chrysolophus pictus</i> | 4 | 5 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 5 | 0 | 8 | |
| 7 | PHEASANT SILVER | <i>Lophura nyctemerus</i> | 2 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | |



| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-----------------------|--------------------------------|------------|------------|------------|------------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------|------------|------------|------------|---|
| 8 | LADY AHMREST PHEASANT | <i>Chrysolophus amherstiae</i> | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 9 | ZEBRA FINCHES | <i>Taeniopygia guttata</i> | 10 | 10 | 14 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | 0 | 5 | 5 | 14 | 24 | | |
| 10 | BLACK SWAN | <i>Cygnus atratus</i> | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | |
| 11 | LOVE BIRD | <i>Agapornis</i> | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | |
| 12 | GEESE COMMON | <i>Anser gene</i> | 0 | 0 | 59 | 59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 59 | 59 | | |
| 13 | OSTRICH | <i>Struthio camelus</i> | 3 | 3 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 6 | |
| 14 | JAWA SPARROW | <i>Lonchura oryzivora</i> | 0 | 0 | 12 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 12 | | |
| 15 | DIAMOND DOVE | <i>Geopelia coneata</i> | 0 | 0 | 18 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 17 | | |
| 16 | BLUE & GOLD MACAW | <i>Ara ararauna</i> | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 6 | 8 | |
| 17 | SUN CONURE | <i>Aratinga solstitialis</i> | 4 | 4 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 3 | 8 | |
| 18 | JANDAYA CONURE | <i>Aratinga jandaya</i> | 4 | 4 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 8 | |
| 19 | PINEAPPLE CONURE | <i>Aratinga</i> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | | |
| 20 | GREEN CKEECKED CONURE | <i>Aratinga</i> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | | |
| 21 | GALAH COCKATOO | <i>Ecolophus roseicapilla</i> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | | |
| 22 | UMBRELLA COCKATOO | <i>Cacatua alba</i> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | | |
| 23 | AFRICAN GREY PARROT | <i>Psittacus erithacus</i> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | | |
| 24 | ECLECTUS PARROT | <i>Eclectus roratus</i> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | |
| 25 | GREEN WINGED MACAW | <i>Ara cholropterus</i> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | | |
| TOTAL | | | 141 | 145 | 119 | 405 | 0 | 0 | 0 | 1 | 1 | 49 | 0 | 1 | 1 | 4 | 3 | 3 | 5 | 5 | 0 | 133 | 139 | 166 | 438 | |



MAHENDRA CHAUDHARY ZOOLOGICAL PARK, CHHATBIR, PUNJAB

INVENTORY OF WILD ANIMALS AND BIRDS BETWEEN 01.04.2019 to 31.03.2020

EXOTIC & OTHERS

| Sr. No. | Species | Scientific Name | Position as on 01.04.2019 | | | | Birth | | | Acquisition by Rescue/gift | | | Acquisition by Transfer | | | Disposal by Death | | | Disposal by Transfer | | | Position as on 31.03.2020 | | | |
|-----------------------|--|----------------------------------|---------------------------|------------|------------|-------------|----------|----------|------------|----------------------------|-----------|-----------|-------------------------|----------|----------|-------------------|----------|-----------|----------------------|-----------|----------|---------------------------|------------|------------|-------------|
| | | | M | F | U | Total | M | F | U | M | F | U | M | F | U | M | F | U | M | F | U | M | F | U | Total |
| OTHER MAMMALS | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | HIPPOPOTAMUS | <i>Hippopotamus amphibus</i> | 1 | 3 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 3 | |
| 2 | JAGUAR | <i>Panthera onca</i> | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | |
| 3 | HAMADRYAS BABOON | <i>Papio hamadryas</i> | 2 | 3 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 1 | 1 | 0 | 2 | |
| 4 | MARMOSET | <i>Callithrix jacchus</i> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | |
| 5 | FOX SQUIRREL | <i>Sciurus niger</i> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | |
| TOTAL MAMMALS | | | 4 | 6 | 0 | 10 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 3 | 3 | 2 | 8 | |
| OTHER REPTILES | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | GREEN IGUANA | <i>Iguana iguana</i> | 2 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 2 | 2 | 7 | 11 | | |
| 2 | RED IGUANA | <i>Iguana iguana</i> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | | |
| 3 | RED EAR SLIDER | <i>Trachemys scripta elegans</i> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | | |
| TOTAL | | | 2 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 2 | 2 | 14 | 18 | | |
| 115 | TOTAL ANIMALS (Schedule I, II, III, IV & Others/Exotic) | | 354 | 421 | 616 | 1391 | 0 | 0 | 139 | 2 | 1 | 70 | 9 | 7 | 1 | 17 | 9 | 18 | 15 | 18 | 2 | 333 | 401 | 806 | 1540 |



Summary of Death Report M.C.Zoological Park Chhatbir during 01.04.2019 to 31.03.2020

| Sr. No. | Animal Name | Scientific name | Sex | No. | Date | Cause of Death |
|---------|----------------------|--------------------------------|--------|-----|------------|--|
| 1 | Star Tortoise | <i>Geochelone elegans</i> | Male | 1 | 17.04.2019 | Acute respiratory distress |
| 2 | Chakur | <i>Alectoris chukar</i> | Male | 1 | 14.05.2019 | Acute respiratory distress |
| 3 | Indian roofed turtle | <i>Pangshura tecta</i> | Unk | 1 | 17.05.2019 | Stress and shock caused by urine retention |
| 4 | Silver Pheasant | <i>Lophura nycthemerus</i> | Male | 1 | 28.05.2019 | Acute respiratory distress |
| 5 | Sambar | <i>Cervus unicolor</i> | Female | 1 | 03.06.2019 | Senile changes of internal organs |
| 6 | Barn Owl | <i>Tyto alba</i> | Unk | 1 | 10.06.2019 | Intestinal coccidiosis |
| 7 | Barn Owl | <i>Tyto alba</i> | Unk | 1 | 11.06.2019 | Intestinal coccidiosis |
| 8 | Budgerigar | <i>Melopsittacus undulates</i> | Unk | 1 | 13.06.2019 | Senile changes of internal organs |
| 9 | Diamond dove | <i>Geopelia coneata</i> | Female | 1 | 18.06.2019 | Acute respiratory distress |
| 10 | Rose ringed parakeet | <i>Psittacula krameri</i> | Male | 1 | 20.06.2019 | Heat stroke |
| 11 | Common quail | <i>Coturnix coturnix</i> | Unk | 1 | 22.06.2019 | Senile changes of internal organs |
| 12 | Black buck | <i>Antelope cervicapra</i> | Male | 1 | 25.06.2019 | Senile changes of internal organs |
| 13 | Barn owl | <i>Tyto alba</i> | Male | 1 | 02.08.2019 | Acute respiratory distress |
| 14 | Lion | <i>Panthera leo persica</i> | Male | 1 | 05.08.2019 | Acute respiratory distress |
| 15 | Common Langur | <i>Presbytis entellus</i> | Male | 1 | 19.09.2019 | Senile changes of internal organs |
| 16 | Barking deer | <i>Muntiacus muntjak</i> | Male | 1 | 22.09.2019 | Acute peritonitis |
| 17 | Black buck | <i>Antelope cervicapera</i> | Female | 1 | 01.10.2019 | Tympanitis and senile lesions |
| 18 | Himalyan Black Bear | <i>Selenarchos thibetanus</i> | Female | 1 | 07.10.2019 | Pulmonary collapse |
| 19 | Black buck | <i>Antelope cervicapra</i> | Female | 1 | 18.10.2019 | Cardiovascular shock |
| 20 | Green iguana | <i>Iguana iguana</i> | Unk | 1 | 21.10.2019 | Hemorrhagic enteritis |
| 21 | Mugger | <i>Crocodilus palustris</i> | Unk | 1 | 21.10.2019 | Acute renal failure |
| 22 | Tiger | <i>Panthera tigris tigris</i> | Male | 1 | 04.11.2019 | Renal insufficiency and senile lesions |
| 23 | Hog deer | <i>Axis porcinus</i> | Male | 1 | 11.11.2019 | Shock due to infighting |



| | | | | | | |
|----|----------------------|----------------------------------|--------|----|------------|---|
| 24 | Eclectus parrot | <i>Eclectus roratus</i> | Male | 1 | 13.11.2019 | Respiratory failure |
| 25 | Tiger (newly born) | <i>Panthera tigris tigris</i> | Unk | 1 | 18.11.2019 | Cardio-pulmonary collapse |
| 26 | Jungle cat | <i>Felis chaos</i> | Female | 1 | 04.12.2019 | Hepatitis and acute renal failure |
| 27 | Himalayan Black Bear | <i>Selenarchos thibetanus</i> | Male | 1 | 07.12.2019 | Senile changes of internal organs |
| 28 | Black swan | <i>Cygnus atratus</i> | Unk | 1 | 09.12.2019 | Senile changes of internal organs |
| 29 | Green iguana | <i>Iguana iguana</i> | Male | 1 | 16.12.2019 | Hepatitis |
| 30 | Green iguana | <i>Iguana iguana</i> | Male | 1 | 25.01.2019 | Hepatitis |
| 31 | Indian roofed turtle | <i>Pangshura tecta</i> | Unk | 1 | 01.01.2020 | Hepatitis |
| 32 | Lion tailed macaque | <i>Macaca silenus</i> | Male | 1 | 21.01.2020 | Senile changes of internal organs |
| 33 | Green iguana | <i>Iguana iguana</i> | Unk | 1 | 12.02.2020 | Hepatitis |
| 34 | Sambar | <i>Cervus unicolor</i> | Male | 1 | 21.02.2020 | Traumatic brain injury |
| 35 | Sloth bear | <i>Melursus ursinus</i> | Female | 1 | 23.02.2020 | Tuberculosis lesions |
| 36 | Silver pheasant | <i>Lophura nycthemerus</i> | Male | 1 | 25.02.2020 | Hemorrhagic enteritis |
| 37 | Silver pheasant | <i>Lophura nycthemerus</i> | Female | 1 | 05.03.2020 | Necrotic enteritis |
| 38 | Barking deer | <i>Muntiacus muntjak</i> | Male | 1 | 06.03.2020 | Internal hemorrhage |
| 39 | Manipur deer | <i>Cervus eldi thamin</i> | Female | 1 | 12.03.2020 | Pulmonary insufficiency due to infighting |
| 40 | White buck | <i>Antelope cervicapera</i> | Male | 1 | 16.03.2020 | Senile changes of internal organs |
| 41 | Emu | <i>Dromiceius novahollandiae</i> | Unk | 1 | 16.03.2020 | Anaphylactic shock |
| 42 | Kalij pheasant | <i>Lophura leucomelanos</i> | Male | 1 | 17.03.2020 | Traumatic brain injury |
| 43 | Emu | <i>Dromiceius novahollandiae</i> | Unk | 1 | 19.03.2020 | Anaphylactic shock |
| 44 | Red Iguana | <i>Iguana iguana</i> | Unk | 1 | 25.03.2020 | Acute cardigenic shock due to hypothermis |
| 45 | Golden pheasant | <i>Chrysolophus pictus</i> | Male | 1 | 27.03.2020 | Traumatic brain injury |
| | | | | 45 | | |



BIRTHS OF LIVE STOCK INVENTORY OF WILD ANIMALS AND BIRDS BETWEEN 01.04.2019 to 31.03.2020

| Sr. No | Animal Name | Scientific Name | No. | Event | Date | Remarks |
|--------|-------------------------|-----------------------------|-----|-------|------------|----------------------------|
| 1 | White buck | <i>Antelope cervicapera</i> | 1 | Birth | 19.04.2019 | Zebra Complex |
| 2 | Swamp deer | <i>Cervus duvaceli</i> | 1 | Birth | 23.04.2019 | Swamp Deer Complex |
| 3 | Sarus crane | <i>Grus antegone</i> | 1 | Birth | 27.04.2019 | Aviary |
| 4 | Blossom headed parakeet | <i>Psittacula roseate</i> | 1 | Birth | 20.05.2019 | Small birds aviary |
| 5 | Deer barking | <i>Muntjack</i> | 1 | Birth | 26.05.2019 | Small Deer Complex |
| 6 | Deer hog | <i>Axis porcinus</i> | 1 | Birth | 29.05.2019 | Swamp Deer Complex |
| 7 | Sambar | <i>Cervus unicolor</i> | 1 | Birth | 30.05.2019 | Deer Safari Complex |
| 8 | Spotted deer | <i>Axis axis</i> | 1 | Birth | 03.06.2019 | Deer Safari Complex |
| 9 | Blossom headed parakeet | <i>Psittacula roseate</i> | 1 | Birth | 05.06.2019 | Small birds aviary |
| 10 | Sambar | <i>Cervus unicolor</i> | 1 | Birth | 21.06.2019 | Deer Safari Complex |
| 11 | Spotted deer | <i>Axis axis</i> | 1 | Birth | 23.06.2019 | Deer Safari Complex |
| 12 | Red jungle fowl | <i>Gallus gallus</i> | 30 | Birth | 30.06.2019 | Wildlife hospital hatchery |
| 13 | Chakur | <i>Alectoris chukar</i> | 2 | Birth | 30.06.2019 | Wildlife hospital hatchery |
| 14 | Sarus crane | <i>Grus antegone</i> | 1 | Birth | 21.07.2019 | Aviary |
| 15 | Sarus crane | <i>Grus antegone</i> | 1 | Birth | 23.07.2019 | Aviary |
| 16 | Black buck | <i>Antelope cervicapera</i> | 1 | Birth | 27.07.2019 | Zebra Complex |
| 17 | Hog deer | <i>Axis porcinus</i> | 1 | Birth | 29.07.2019 | Swamp Deer Complex |
| 18 | Black buck | <i>Antelope cervicapera</i> | 1 | Birth | 03.08.2019 | Zebra Complex |
| 19 | Spot bill duck | <i>Anas poecilorhyncha</i> | 3 | Birth | 07.08.2019 | Zebra Complex |
| 20 | Hog deer | <i>Axis porcinus</i> | 1 | Birth | 09.08.2019 | Swamp Deer Complex |
| 21 | Black buck | <i>Antelope cervicapera</i> | 1 | Birth | 11.08.2019 | Zebra Complex |
| 22 | Swamp deer | <i>Cervus duvacelli</i> | 1 | Birth | 13.08.2019 | Swamp Deer Complex |
| 23 | Hog deer | <i>Axis porcinus</i> | 1 | Birth | 16.08.2019 | Swamp Deer Complex |
| 24 | Spotbill duck | <i>Anas poecilorhyncha</i> | 3 | Birth | 17.08.2019 | Zebra Complex |
| 25 | Spotted deer | <i>Axis axis</i> | 1 | Birth | 21.08.2019 | Deer safari Complex |
| 26 | Barking deer | <i>Muntjack muntiacus</i> | 1 | Birth | 23.08.2019 | Small deer Complex |
| 27 | Sambar | <i>Cervus unicolor</i> | 1 | Birth | 27.08.2019 | Deer safari Complex |



| | | | | | | |
|----|-----------------------|----------------------------------|---|-------|------------|---------------------|
| 28 | Spotted deer | <i>Axis axis</i> | 1 | Birth | 28.08.2019 | Deer safari Complex |
| 29 | White buck | <i>Antelope cervicapera</i> | 1 | Birth | 31.08.2019 | Zebra Complex |
| 30 | Swamp deer | <i>Cervus unicolor</i> | 1 | Birth | 01.09.2019 | Swamp Deer Complex |
| 31 | Black buck | <i>Antelope cervicapera</i> | 1 | Birth | 04.09.2019 | Zebra Complex |
| 32 | Spotted deer | <i>Axis axis</i> | 1 | Birth | 08.09.2019 | Deer safari Complex |
| 33 | Sambar | <i>Cervus unicolor</i> | 1 | Birth | 11.09.2019 | Deer safari Complex |
| 34 | Black partridge | <i>Fracolinus francolinus</i> | 4 | Birth | 01.10.2019 | Aviary |
| 35 | Grey Partridge | <i>Fracolinus pondicerianeus</i> | 4 | Birth | 05.10.2019 | Aviary |
| 36 | Barking deer | <i>Muntiacus muntjak</i> | 1 | Birth | 11.10.2019 | Small Deer Complex |
| 37 | Barking deer | <i>Muntiacus muntjak</i> | 1 | Birth | 15.10.2019 | Small Deer Complex |
| 38 | Hog deer | <i>Axis porcinus</i> | 1 | Birth | 16.10.2019 | Swamp Deer Complex |
| 39 | Sambar | <i>Cervus unicolor</i> | 1 | Birth | 18.10.2019 | Deer Safari |
| 40 | Sambar | <i>Cervus unicolor</i> | 1 | Birth | 21.10.2019 | Deer Safari |
| 41 | Sambar | <i>Cervus unicolor</i> | 1 | Birth | 23.10.2019 | Deer Safari |
| 42 | Sambar | <i>Cervus unicolor</i> | 1 | Birth | 24.10.2019 | Deer Safari |
| 43 | Sambar | <i>Cervus unicolor</i> | 1 | Birth | 28.10.2019 | Deer Safari |
| 44 | Sambar | <i>Cervus unicolor</i> | 1 | Birth | 10.11.2019 | Deer Safari |
| 45 | Spotted deer | <i>Axis axis</i> | 1 | Birth | 14.11.2019 | Deer Safari |
| 46 | Spotted deer | <i>Axis axis</i> | 1 | Birth | 16.11.2019 | Deer Safari |
| 47 | Tiger | <i>Panthera tigris tigris</i> | 4 | Birth | 17.11.2019 | Tiger Complex |
| 48 | Spotted deer | <i>Axis axis</i> | 1 | Birth | 18.11.2019 | Deer Safari |
| 49 | Spotted deer | <i>Axis axis</i> | 1 | Birth | 20.11.2019 | Deer Safari |
| 50 | Spotted deer | <i>Axis axis</i> | 1 | Birth | 22.11.2019 | Deer Safari |
| 51 | Barnowl | <i>Tyto alba</i> | 3 | Birth | 24.11.2019 | Deer Safari |
| 52 | Manipur Deer | <i>Cervus eldi</i> | 1 | Birth | 03.12.2019 | Small Deer Safari |
| 53 | Lesser whistling duck | <i>Dendrocygna javanica</i> | 4 | Birth | 05.12.2019 | Aviary |
| 54 | Comb duck | <i>Sarkidiornis melanotos</i> | 4 | Birth | 06.12.2019 | Aviary |
| 55 | Black buck | <i>Antelope cervicapra</i> | 1 | Birth | 08.12.2019 | Zebra Complex |
| 56 | Spotbill duck | <i>Anas poecilorhyncha</i> | 4 | Birth | 10.12.2019 | Zebra Complex |
| 57 | Great Horned owl | <i>Bubo bubo</i> | 2 | Birth | 17.12.2019 | Nocturnal house |



| | | | | | | |
|----|----------------------|-----------------------------|---|-------|------------|--------------------|
| 58 | Shikra | <i>Acipiter badius</i> | 3 | Birth | 05.01.2020 | Aviary |
| 59 | Manipur Deer | <i>Cervus eldi thamin</i> | 1 | Birth | 10.01.2020 | Aviary |
| 60 | Spotted deer | <i>Axis axis</i> | 1 | Birth | 12.01.2020 | Small Deer Complex |
| 61 | Sambar | <i>Cervus unicolor</i> | 2 | Birth | 15.01.2020 | Small Deer Complex |
| 62 | Chinkara | <i>Gaxxel benneti</i> | 1 | Birth | 17.01.2020 | Swamp Deer Complex |
| 63 | Sambar | <i>Cervus unicolor</i> | 1 | Birth | 18.01.2020 | Deer Safari |
| 64 | Spotted deer | <i>Axis axis</i> | 1 | Birth | 19.01.2020 | Deer Safari |
| 65 | Sambar | <i>Cervus unicolor</i> | 1 | Birth | 27.01.2020 | Deer Safari |
| 66 | Hog deer | <i>Axis porcinus</i> | 1 | Birth | 08.02.2020 | Deer Safari |
| 67 | Hog deer | <i>Axis porcinus</i> | 1 | Birth | 13.02.2020 | Deer Safari |
| 68 | Spotted deer | <i>Axis axis</i> | 1 | Birth | 15.02.2020 | Deer Safari |
| 69 | White buck | <i>Antelope cervicapera</i> | 1 | Birth | 23.02.2020 | Deer Safari |
| 70 | Spotted deer | <i>Axis axis</i> | 1 | Birth | 29.02.2020 | Deer Safari |
| 71 | Rose ringed parakeet | <i>Psittacula kramiri</i> | 4 | Birth | 07.03.2020 | Tiger Complex |
| 72 | Sambar | <i>Cervus unicolor</i> | 1 | Birth | 08.03.2020 | Deer Safari |
| 73 | Sambar | <i>Cervus unicolor</i> | 2 | Birth | 15.03.2020 | Deer Safari |
| 74 | Sambar | <i>Cervus unicolor</i> | 2 | Birth | 21.03.2020 | Deer Safari |
| 75 | Sambar | <i>Cervus unicolor</i> | 1 | Birth | 22.03.2020 | Deer Safari |
| 76 | Mouse Deer | <i>Tragulus meminna</i> | 1 | Birth | 25.03.2020 | Small Deer Safari |

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25. Mortality of animals

| Sr. No. | Animal Name | Sex | No. | Date | Cause of Death |
|---------|----------------------|--------|-----|------------|--|
| 1 | Star Tortoise | Male | 1 | 17.04.2019 | Acute respiratory distress |
| 2 | Chakur partridge | Male | 1 | 14.05.2019 | Acute respiratory distress |
| 3 | Indian roofed turtle | Unk | 1 | 17.05.2019 | Stress and shock caused by urine retention |
| 4 | Silver Pheasant | Male | 1 | 28.05.2019 | Acute respiratory distress |
| 5 | Sambar | Female | 1 | 03.06.2019 | Senile changes of internal organs |
| 6 | Barn Owl | Unk | 1 | 10.06.2019 | Intestinal coccidiosis |
| 7 | Barn Owl | Unk | 1 | 11.06.2019 | Intestinal coccidiosis |
| 8 | Budgerigar | Unk | 1 | 13.06.2019 | Senile changes of internal organs |
| 9 | Diamond dove | Female | 1 | 18.06.2019 | Acute respiratory distress |
| 10 | Rose ringed parakeet | Male | 1 | 20.06.2019 | Heat stroke |
| 11 | Common quail | Unk | 1 | 22.06.2019 | Senile changes of internal organs |
| 12 | Black buck | Male | 1 | 25.06.2019 | Senile changes of internal organs |
| 13 | Barn owl | Male | 1 | 02.08.2019 | Acute respiratory distress |
| 14 | Lion | Male | 1 | 05.08.2019 | Acute respiratory distress |
| 15 | Common Langur | Male | 1 | 19.09.2019 | Senile changes of internal organs |
| 16 | Barking deer | Male | 1 | 22.09.2019 | Acute peritonitis |
| 17 | Black buck | Female | 1 | 01.10.2019 | Tympanitis and senile lesions |
| 18 | Himalyan Black Bear | Female | 1 | 07.10.2019 | Pulmonary collapse |
| 19 | Black buck | Female | 1 | 18.10.2019 | Cardiovascular shock |
| 20 | Green iguana | Unk | 1 | 21.10.2019 | Hemorrhagic enteritis |
| 21 | Mugger | Unk | 1 | 21.10.2019 | Acute renal failure |
| 22 | Tiger | Male | 1 | 04.11.2019 | Renal insufficiency and senile lesions |
| 23 | Hog deer | Male | 1 | 11.11.2019 | Shock due to infighting |
| 24 | Eclectus parrot | Male | 1 | 13.11.2019 | Respiratory failure |
| 25 | Tiger (newly born) | Unk | 1 | 18.11.2019 | Cardio-pulmonary collapse |
| 26 | Jungle cat | Female | 1 | 04.12.2019 | Hepatitis and acute renal failure |
| 27 | Himalyan Black Bear | Male | 1 | 07.12.2019 | Senile changes of internal organs |
| 28 | Black swan | Unk | 1 | 09.12.2019 | Senile changes of internal organs |
| 29 | Green iguana | Male | 1 | 16.12.2019 | Hepatitis |
| 30 | Green iguana | Male | 1 | 25.01.2019 | Hepatitis |
| 31 | Indian roofed turtle | Unk | 1 | 01.01.2020 | Hepatitis |
| 32 | Lion tailed macaque | Male | 1 | 21.01.2020 | Senile changes of internal organs |
| 33 | Green iguana | Unk | 1 | 12.02.2020 | Hepatitis |
| 34 | Sambar | Male | 1 | 21.02.2020 | Traumatic brain injury |
| 35 | Sloth bear | Female | 1 | 23.02.2020 | Tuberculosis lesions |



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|----|-----------------|--------|----|------------|--|
| 36 | Silver pheasant | Male | 1 | 25.02.2020 | Hemorrhagic enteritis |
| 37 | Silver pheasant | Female | 1 | 05.03.2020 | Necrotic enteritis |
| 38 | Barking deer | Male | 1 | 06.03.2020 | Internal hemorrhage |
| 39 | Manipur deer | Female | 1 | 12.03.2020 | Pulmonary insufficiency due to infighting |
| 40 | White buck | Male | 1 | 16.03.2020 | Senile changes of internal organs |
| 41 | Emu | Unk | 1 | 16.03.2020 | Anaphylactic shock |
| 42 | Kalij pheasant | Male | 1 | 17.03.2020 | Traumatic brain injury |
| 43 | Emu | Unk | 1 | 19.03.2020 | Anaphylactic shock |
| 44 | Red Iguana | Unk | 1 | 25.03.2020 | Acute cardiogenic shock due to hypothermia |
| 45 | Golden pheasant | Male | 1 | 27.03.2020 | Traumatic brain injury |
| | | | 45 | | |

26 Compliance with conditions stipulated by the Central Zoo Authority

| S. No. | Norm No. | Condition Stipulated | Time period to Comply | Remarks by Zoo Director |
|---|----------|--|-----------------------|---|
| General Requirements | | | | |
| 1 | 1(7) | The Zoo should not allow its sewage affecting the surroundings of the zoo. To prevent such a situation it should have appropriately designed sewage treatment plant. | One year | Efforts are being made for the proper disposal of sewage without affecting the surrounding of the zoo. However to prevent such a situation an appropriately designed sewage treatment plant has been proposed to be created by Department of Public Health, Punjab through Depository work. The Detailed Project Report has been prepared by the Department of Public Health, Punjab, the budget has been allotted. The work in this regard will be undertaken shortly by DPH |
| Animal housing, display of animals and animal enclosures : | | | | |
| 4 | 3(8) | Zoo should send report of the rescued animals of Schedule-1 animals received by the zoo to Central Zoo Authority regularly. | Immediate effect | The report regarding rescued animals of schedule-1 by the Chhatbir zoo is regularly being sent to Central Zoo authority along with quarterly and annual inventory reports. |
| 5 | 4 | Tiger and Lion enclosures should have appropriately designed kraals. | One Year | Appropriately designed kraals in respect of lions are in place. The component for creating open kraals in respect of Bengal tigers has been incorporated under PUNCAMPA 2020-21 whose financial allocation has yet to be done. This work may be completed shortly. |
| 6 | 4 | Out of bound areas around the enclosure should be densely planted with bamboo and thorny hedges. | Six months | At many places bamboo plantation has been done to keep the public out of bound from the enclosures. Wherever the bamboo/thorny hedges are not possible, the display board saying "out of |



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| | | | | bounds” has been installed. The out of bounds area around the leftover enclosures are planted in the current year. |
| 7 | 4 | Old cage type primate enclosures should be demolished and adequate number of well-designed open top enclosures should be constructed. | Two Year | This component of creating open top well designed enclosure in respect of primate chimpanzee/ baboon enclosure was incorporated in the APO of Punjab Zoos Development societies in 2017-18 and completed. The construction works are being taken up in a phased manner. The demolition and thereafter construction of other primate enclosures will be done in due course of time. |
| 8 | 4 | Zoo should have an appropriately designed carnivore safari with a minimum area of 20 hectares. This would involve doing away the herbivore safari. | One Year | The possibility to expand the area of lion safari from 10 ha to 20 ha was explored by merging the present lion safari with existing deer safari. Further, Deer safari is to be shifted to a new area. It requires an expenditure of rupees 9-10 cr., the allocation for which is being requested from the Government for undertaking this exercise. |
| 9 | 4 | Tiger and lion feeding cells look barren and affect the ambience of the area. These should be camouflaged by planting bamboos and native shrubs. | Six months | The works to camouflage the tiger and lion feeding cells have been initiated by planting of bamboo and suitable climbers. |
| 10 | 4 | Zoo is using abandoned Canid enclosures for housing the barking deer. These enclosures are too small and need to be demolished. New enclosures for barking deer should be constructed at appropriate site. | Six months | Temporary enclosure for barking deer has been constructed and the barking deer from the Canines enclosure has been shifted. The abandoned canines enclosures will be demolished shortly. |
| 11 | 4 | The Himalayan bear enclosure is too small. Himalayan bear should be shifted to other enclosure. This enclosure should be used to house wolf or some other suitable species. | Six months | The compliance has been made by shifting the Himalayan black bear to its appropriate enclosure. |
| 12 | 4 | Zoo has large number of Panther enclosures. Most of these enclosures should be done away with. The zoo should construct an appropriately designed open top enclosure with capacity of 6-10 enclosures. Rest of the Panthers should go to off the display area to be developed as Rescue Centre. | Two Years | An off display area for rescued Leopards is under planning under allotment under PUNCAMPA 2020-21 and this condition will be implemented in due course of time. |
| 13 | 4 | White peacock aviary is too small in dimension. It's area should be extended. | Six months | The new walk in aviary has been created with large size enclosures for different birds including peacock. The white peacock will be shifted to new aviary in due course of time. |
| 14 | 4 | Ungulate enclosures should have appropriately designed feeding cells and kraals. | One year | The creation of feeding cells and kraals in the ungulate enclosures is under process. Funds for this purpose is expected shortly. |



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| 15 | 4 | Most of the enclosures have 360 degree viewing. The viewing area should be limited to 1/3 of the periphery of the enclosure. | Six months | This condition is being implemented in letter and spirit and viewing area is decreased one third of the periphery of enclosure by raising the green fence. |
| 16 | 4 | Water bird aviary should be camouflaged by planting of shrubs and bamboos to maintain privacy for birds. | Six months | This condition is being implemented in letter and spirit and viewing area is enriched by raising the greenery along the barrier. |
| 17 | 4 | The reptile house should have appropriately designed visitors' gallery. The size of the display chamber should be increased merging neighbouring enclosures. | Six months | Complied |
| 18 | 4 | Nocturnal house should be properly furnished with requisite signage and fittings to make it educative and functional. | Six months | Interpretative material and signages for whole zoo including nocturnal house is under process under project of Asian Development Bank (Tranch - 3) for the Chhatbir zoo. The nocturnal house will be fitted with signages very shortly. |
| 19 | 4 | Crocodile enclosure is too small. It needs to be re-designed/extended in consultation with Central Zoo Authority. | One year | The redesigning of crocodile exhibit as per the CZA guidelines is taken up in the year 2021-22. |
| 20 | 4 | Pheasant enclosure chamber are of smaller dimension than the prescribed size. Their area should be increased by merging the neighbouring cells. | Six months | The pheasantry chambers are having dimensions as per CZA guidelines however possibilities are being explored for further increasing the area. |
| 21 | 4 | Good efforts for environmental enrichment of enclosures have been done but it looks to artificial. Efforts to be made to make it naturalistic by planting tress and shrubs. | Six months | Naturalistic enrichment by planting trees and shrubs have been done in most of the enclosures. |
| 22 | 4(9) | Stand-off barriers at some of the enclosures is too high. These are too low at some of the enclosures. These should be made of prescribed dimensions. Every enclosure should have stand-off barriers of prescribed dimensions. | Six months | The increase in the height of stand off barriers at tiger enclosure was the compulsion of zoo management to avoid risk to prevent any untoward incident. Standard stand-off barriers of prescribed and common dimensions shall be erected in other enclosures. |
| 23 | 4(10) | All sign boards should have precise biological and ecological information. | Six months | The compliance is being done in a phased manner. |
| Upkeep and healthcare of animals : | | | | |
| 24 | 5 | The zoo should have appropriately designed meat house at a reasonable distance from the kitchen. | Six months | A separate meat processing house is being created with a reasonable distance from the kitchen. |
| 25 | 5 | Tiger and Lion enclosures should have pucca flooring leaving no empty space below the floor. The wooden feeding platform should be detachable so that thorough cleaning of meat traces and blood can be done. | Six months | The pucca flooring has been done in respect of Lion houses and Tiger houses. |
| 26 | 5(2) | The zoo should have appropriately designed water storage tank. | Two year | The execution of constructing 5 lakh Lt storage water tanks is under process. |
| 27 | 5(6) | Curatorial staff should maintain | Immediate | The compliance is being done. |



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| | | records of the biological behaviour observed by them. | effect | |
| Veterinary and infrastructure facilities : | | | | |
| 28 | 6(1) | Zoo hospital should have requisite number of inpatient wards for herbivores and birds. | One year | Adequate number of wards in respect to animals, birds, reptiles and other live stock have been added in Zoo hospital. |
| 29 | 6(6) | The zoo should have a MoU with the Centre of Wildlife Sciences, Ludhiana on veterinary diagnosis and veterinary research. | Immediate effect | Zoo authorities are constantly in touch with head of centre for wildlife sciences, GADVASU, Ludhiana for appropriate action. |
| Post-mortem and disposal of carcasses of animals : | | | | |
| 30 | 7(1) | Post mortem room of the zoo should have a proper changing room and shower facility and appropriate post-mortem equipment. | Three months | The compliance has been done. |
| Acquisition and breeding of animals : | | | | |
| 31 | 9(4) | Mates should be arranged for single jaguar, swan and fallow deer. | Six months | The issue of pairing of Jaguar is being taken up on priority with other zoos of India. Pairing of Swan has been done. Fallow Deer has expired. |
| Research activities : | | | | |
| 32 | 10(1) | The zoo should have detailed Disaster Management Plan and should have mock drills regularly. | Immediate effect | Quick response team has already been constituted and to implement Disaster Management Plan mock drills are being initiated. |
| 33 | 10(1) | Zoo should have a detailed research plan and execute it effectively. | Immediate effect | Detailed research plan is under process of being executed. |
| Visitors Facilities : | | | | |
| 34 | 12(3) | Zoo should have ramp and wheel chairs to facilitate the differently abled persons. | Immediate effect | The wheel chairs are in place and ramp has been made wherever possible for facilitating differently abled persons. |
| General observations : | | | | |
| 35 | General | There are many exotic trees especially Eucalyptus (disambiguation) in the zoo which are posing a potential threat to the animal enclosures, boundary wall, building and other infrastructure of zoo. These exotic tree species should be replaced with indigenous tree species of the region which will improve the vegetation cover and ecological ambience of the zoo. | | Plan is being made to replace exotic trees like eucalyptus with indigenous tree species of the region in phased manner, as per rules. |



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

Mammals

| S.No | English Name | Scientific Name |
|------|--------------|--------------------------|
| 1 | Sambar | <i>Cervus uicolor</i> |
| 2 | Jackal | <i>canis aureus</i> |
| 3 | Porcupine | <i>Hystrix indica</i> |
| 4 | Hare | <i>Lepus nigricollis</i> |

Birds

| S.No | Common Name | Scientific Name |
|------|---------------------------------|--------------------------------|
| 1 | Black Kite | <i>Milvus migrans</i> |
| 2 | White Breasted Hen | <i>Amaurornis phoenicurus</i> |
| 3 | Moorhen | <i>Gallinula</i> |
| 4 | Himalayan Bulbul | <i>Pycnonotus leucogenys</i> |
| 5 | Jungle Babbler | <i>Turdoides striata</i> |
| 6 | Grey Headed Warbler | <i>Basileuterus griseiceps</i> |
| 7 | Common Teal | <i>Anas crecca</i> |
| 8 | Oriental White Eye | <i>Zosterops palpebrosus</i> |
| 9 | White Throated Fantail | <i>Rhipidura albicollis</i> |
| 10 | Black Drongo | <i>Dicrurus macrocercus</i> |
| 11 | Brown Headed Barbet | <i>Megalaima zeylanica</i> |
| 12 | Indian Peafowl | <i>Pavo cristatus</i> |
| 13 | Eurasian thick-knee | <i>Burhinus oedicephalus</i> |
| 14 | Greater Tit | <i>Parus major</i> |
| 15 | Grey Headed Canary Flycatcher | <i>Culicicapa ceylonensis</i> |
| 16 | White Wagtail | <i>Motacilla alba</i> |
| 17 | Grey Wagtail | <i>Motacilla cinerea</i> |
| 18 | Red Breasted Flycatcher | <i>Ficedula parva</i> |
| 19 | Asian Brown Flycatcher | <i>Muscicapa latirostris</i> |
| 20 | Common Sandpiper | <i>Actitis hypoleucos</i> |
| 21 | Alexander Parakeet | <i>Psittacula eupatria</i> |
| 22 | Little Grebe or Dabchick | <i>Podiceps ruficollis</i> |
| 23 | Large Cormorant | <i>Phalacrocorax carbo</i> |
| 24 | Little Cormorant | <i>Phalacrocorax niger</i> |
| 25 | Darter or snake bird | <i>Anhinga rufa</i> |
| 26 | Grey heron | <i>Ardea cinerea</i> |
| 27 | Purple heron | <i>Ardea purpurea</i> |
| 28 | Indian Pond heron or Paddy bird | <i>Ardeola grayii</i> |
| 29 | Cattle egret | <i>Babulcus ibis</i> |
| 30 | Large egret | <i>Egretta alba</i> |
| 31 | Smaller or Median egret | <i>Egretta</i> |
| 32 | Little egret | <i>Egretta garzetta</i> |



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|----|-----------------------------------|----------------------------------|
| 33 | Night heron | <i>Nycticorax nycticorax</i> |
| 34 | Painted stork | <i>Mycteria leucocephalus</i> |
| 35 | Whitenecked stork | <i>Ciconia episcopus</i> |
| 36 | Ruddysheildeduck or Brahminy duck | <i>Tadorna ferruginea</i> |
| 37 | Pintail | <i>Anas acuta</i> |
| 38 | Common teal | <i>Anas Crecca</i> |
| 39 | Spotbill duck | <i>Anas poecilorhycha</i> |
| 40 | Mallard | <i>Anas platyrhynchos</i> |
| 41 | Gadwall | <i>Anas Penelope</i> |
| 42 | Shoveller | <i>Anas clypeata</i> |
| 43 | Common Pochard | <i>Aythya ferina</i> |
| 44 | Nakta or Comb Duck | <i>Sarkidiornis melanotos</i> |
| 45 | Blackwinged Kite | <i>Elanus careruleus</i> |
| 46 | Crested honey buzzard | <i>Pernis Ptilorhynchus</i> |
| 47 | Pariah Kite | <i>Milvus migrans</i> |
| 48 | Shikra | <i>Accipiter badius</i> |
| 49 | Asiatic Sparrow Hawk | <i>Accipiter nisus</i> |
| 50 | Greater spotted eagle | <i>Aquila clanga</i> |
| 51 | Lesser spotted eagle | <i>Aquila pomarina</i> |
| 52 | Marsh harrier | <i>Circus aeruginosus</i> |
| 53 | Crested serpent eagle | <i>Spilorins cheela</i> |
| 54 | Black partridge | <i>Francolinus francotinus</i> |
| 55 | Grey partridge | <i>Francolinus pondicerianus</i> |
| 56 | Grey quail | <i>Coturnix coturnix</i> |
| 57 | Jungle bush quail | <i>Perdica asiatica</i> |
| 58 | Indian Pea Fowl | <i>Pavo cristatus</i> |
| 59 | Little bustard quail | <i>Turnix sylvatica</i> |
| 60 | Indian bustard quail | <i>Turnix suscitator</i> |
| 61 | Demoiselle crane | <i>Anthropoides virgo</i> |
| 62 | Ruddy crake | <i>Porzana fusca</i> |
| 63 | Moorhen | <i>Gallinula chloropus</i> |
| 64 | Coot | <i>Fulica atra</i> |
| 65 | Whitetailed lapwing | <i>Vanellus leucurus</i> |
| 66 | Redwattled lapwing | <i>Vanellus indicus</i> |
| 67 | Blackwinged stilt | <i>Himantopus himantopus</i> |
| 68 | Green Pigeon | <i>Treron phoenicoptera</i> |
| 69 | Blue rock pigeon | <i>Columba livia</i> |
| 70 | Rufous turtle dove | <i>Streptopelia orientalis</i> |
| 71 | Ring dove | <i>Streptopelia decapcto</i> |
| 72 | Spotted dove | <i>Streptopelia chinensis</i> |
| 73 | Rose ringed parakeet | <i>Psittacula eupatria</i> |
| 74 | Blossom headed parakeet | <i>Psittacula cyanocephala</i> |



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|-----|---------------------------------|------------------------------------|
| 75 | Pied crested cuckoo | <i>Clamator jacobinus</i> |
| 76 | Indian cuckoo | <i>Cuculus micropterus</i> |
| 77 | Koel | <i>Eudynamys scolopacea</i> |
| 78 | Coucal or crow pheasant | <i>Centropus Sinensis Sinensis</i> |
| 79 | Barn owl | <i>Tyto alba</i> |
| 80 | Collared scoops owl | <i>Otus bakkamoena</i> |
| 81 | Great horned or Eagle owl | <i>Bubo bubo</i> |
| 82 | Dusky horned owl | <i>Bubo coromadus</i> |
| 83 | Brown fish owl | <i>Bubo Zeylonensis</i> |
| 84 | Spotted owlet | <i>Athene brama</i> |
| 85 | Indian Jungle night jar | <i>Caprimulgus indicus</i> |
| 86 | House swift | <i>Apus affinis</i> |
| 87 | Palm swift | <i>Cypsiurus parvus</i> |
| 88 | Small blue kingfisher | <i>Alcedo atthis</i> |
| 89 | Blue tailed bee eater | <i>Merops philippinus</i> |
| 90 | Small green bee-eater | <i>Merops orientalis</i> |
| 91 | Hoopoe | <i>Upupa epops</i> |
| 92 | Grey hornbill | <i>Tockus birostris</i> |
| 93 | Large green barbet | <i>Megalaima zeylanica</i> |
| 94 | Lesser golden backed woodpecker | <i>Dinopium benghalense</i> |
| 95 | Golden oriole | <i>Oriolus oriolus</i> |
| 96 | Black drongo or king crow | <i>Dicrurus adsimilis</i> |
| 97 | Blackheaded or Brahminy myna | <i>Sturnus pagodarum</i> |
| 98 | Common myna | <i>Acridotheres tristis</i> |
| 99 | Bank myna | <i>Acridotheres ginginianus</i> |
| 100 | Tree pie | <i>Dendrccitta vagabunda</i> |
| 101 | House crow | <i>Corvus splendens</i> |
| 102 | Jungle Crow | <i>Corvus macrorhynchos</i> |
| 103 | Redvented bubul | <i>Pycnonotus cafer</i> |
| 104 | Rufous bellied babbler | <i>Dumetia hyperythra</i> |
| 105 | Yellow eyed babbler | <i>Chrysomma sinense</i> |
| 106 | Brown flycatcher | <i>Muscicapa latirostris</i> |
| 107 | Paradise flycatcher | <i>Terpsiphone paradisi</i> |
| 108 | Yellow bellied wren warbler | <i>Prinia flaviventris</i> |
| 109 | Tailor bird | <i>Orthotomus sutorius</i> |
| 110 | Magpie robin | <i>Copsychus salularis</i> |
| 111 | River chat/whitecapped redstart | <i>Chaimarrornis leucocephalus</i> |
| 112 | Indian robin | <i>Saxicoloides fulicata</i> |
| 113 | Tree creeper | <i>Certhia himalayana</i> |
| 114 | Purple sunbird | <i>Nectarinia asiatica</i> |
| 115 | House sparrow | <i>Passer hispaniolensis</i> |
| 116 | Baiya weaver bird | <i>Ploceus philippinus</i> |



| | | |
|-----|---------------------------|-----------------------------|
| 117 | Blackthroated weaver bird | <i>Ploceus benghalensis</i> |
| 118 | Red munia or Avadavat | <i>Estrilda amandava</i> |
| 119 | Whitethroated munia | <i>Lochura malabarica</i> |
| 120 | Spotted munia | <i>Lochura punctulata</i> |
| 121 | Crested bunting | <i>Melophus lathami</i> |

Reptiles

| S. No | English Name | Scientific Name |
|-------|--------------------------|-------------------------------|
| 1 | Python (Indian rock) | <i>Python molurus molurus</i> |
| 2 | Bengal Monitor Lizard | <i>Varanus bengalensis</i> |
| 3 | Indian Flap shell turtle | <i>Lissemys punctata</i> |
| 4 | Cobra | <i>Naja naja</i> |
| 5 | Rat Snake | <i>Ptyas mucosa</i> |
| 6 | Russel's wiper | <i>Daboia russelii</i> |
| 7 | Red Sand boa | <i>Eyrx johni</i> |
| 8 | Checkered keel back | <i>Xenochrophis piscator</i> |
| 9 | Common krait | <i>Bungarus caeruleus</i> |

