

**Government of Punjab**  
**Department of Forest & Wildlife Preservation**  
**O/o Divisional Forest Officer, Wildlife Division, Phillaur**

To

The Member Secretary,  
Central Zoo Authority, B-1 Wing, 6<sup>th</sup> floor,  
Pt. Deendayal Antyodaya Bhawan,  
CGO Complex, Lodhi Road  
New Delhi-110003

No.....697

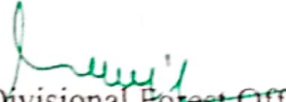
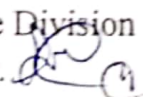
Date...10/6/2021

**Sub : Submission of Statutory Annual Report of Ludhiana Zoo  
Ludhiana for the year 2020-21-regarding.**

Sir/Madam

With respect to the above cited subject, the annual report of Ludhiana Zoo Ludhiana for the year 2020-21 is hereby sent to you for your kind information and necessary action please.

Enclosed : As above.

  
Divisional Forest Officer  
Wildlife Division  
Phillaur. 

Endst No.

Date

A copy is forwarded to Conservator of Forests (Wildlife), Parks and Protected Area Circle, Punjab, S.A.S.Nagar for information and necessary action please.

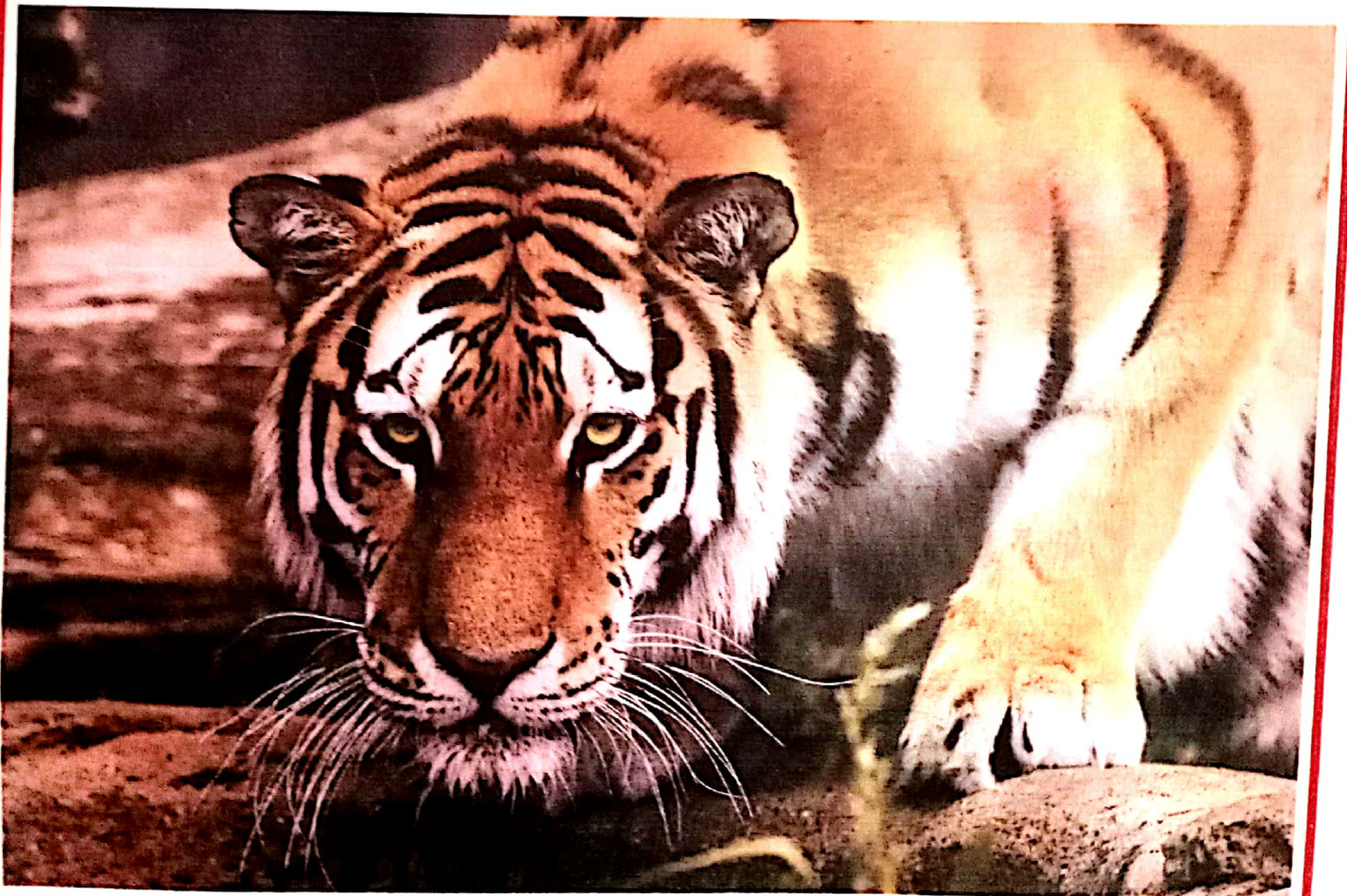
Enclosed : As above.

Sd/-  
Divisional Forest Officer  
Wildlife Division  
Phillaur.

# Ludhiana Zoo Ludhiana



**Annual Report for the year 2020-21**



# INDEX

Section	Page No.
1. History of the Zoo	2
2. Vision	3
3. Mission	3
4. Objective	3
5. About Us	5
6. Organizational Chart	6
7. Human Resources	6
8. Daily Feed Schedule of Animals	7
9. De-worming Scedule of Animals	7
10. Disinfection Schedule of Animals	7
11. Zoo Activities at a Glance (for period April 2020 to march 2021)	8
12. Development works and facilities created for the public during the year	11
13. Annual Inventory of Ludhiana Zoo	13
14. Acquisition, Birth, Death and Disposal of animals/birds.	13
15. Education and Awareness programmes during the year	14
16. Important Events and happenings	14
17. Financial Performane	15
18. Revenue	15
19. Expenditure	16

1.

## History of the Zoo

The State Government, established Tiger Safari in the Kadian Reserve Forest located on the left bank of river Sutlej near Km. 323- 24 on Ludhiana Grand Trunk Road. Since Chhatbir Zoo at that time was the only wildlife display facility in Punjab with good population of Royal Bengal Tiger, experts from both State and Central Government in a series of meetings finally decided to setup a Safari cum Zoo where in excessive population of Royal Bengal Tiger of Chhatbir Zoo shall be brought for display to the public.

This safari was also proposed to be a captive breeding facility for developing a pool of genetically pure species of Royal Bengal tiger. This safari ultimately came into being in 1988 and was opened to public on 23.9.1988 with seven specimens (Four male and three female) of Royal Bengal Tigers. Today, about more than one lakh people visit this safari annually and it elicits good response from public. Central Zoo Authority, Government of India Ministry of Environment and Forests granted recognition to this safari as was required under wildlife (Protection) Act, 1972 and provided both technical and financial assistance in upgrading the facilities at the safari. The safari though remained intact but virtually evolved into a zoo.



2.

## Vision

1. To maintain, present bio-diversity levels through all viable and effective means including, appropriate ex-situ conservation and breeding.
2. Our vision the human values for protection and preservation of the fauna and flora of the world.

## Mission

We shall strive to provide natural habitats for the animals housed by providing and manipulating suitable environment and spread the message of nature conservation by awareness and educational program

## Objectives

- (i) The main objective of the Ludhiana Zoo i.e. Zoo, Tiger Safari and Wild Life awareness Park shall be to compliment and strengthen the national efforts in ex-situ conservation and strength the conservation of the rich Bio-Diversity of the country, particularly the fauna.
- (ii) Supporting the conservation of endangered species by giving species, which have no chance of survival in wild, a last chance of survival through coordinated breeding under ex-situ condition and raise stocks for rehabilitating them in wild as and when it is appropriate and desirable.
- (iii) To inspire amongst zoo visitors empathy for wild animals, an understanding and awareness about the need for conservation of natural resources and for maintaining the ecological balance.
- (iv) Providing opportunities for scientific studies, Research and documentation on conservation and creation of database for sharing between authorities involved in In-Situ and Ex-Situ conservation.
- (v) Bring awareness to the public on conservation and propagation of wildlife by conducting regular awareness and education campaigns and programs.
- (vi) Providing dedicated facilities for the rescued and orphaned wild animals by providing appropriate housing, clinical and management facilities in off-the display area.

3.

- (vii) To serve as gene pool and germplasm reserve for future biological research on wild Animals and to extend facilities for studies on behavior and breeding of different animals.
- (viii) To provide recreational opportunity to the visiting tourists.
- (ix) To sustain the founder population and also to augment the depleting populations of endangered species in the wild.



4

4.

## About Us

1. Name of the Zoo:	Ludhiana Zoo, Ludhiana
2. Year of Establishment:	1988
3. Address of the Zoo:	Incharge, Ludhiana Zoo, Near Hotel Amaltas, G.T. Road, Jalandhar Bypass, Ludhiana.
4. State:	Punjab
5. E-mail address:	ludhianazoo@gmail.com
6. Recognition Valid Upto:	19th August 2022
7. Category of zoo:	Small Zoo
8. Area(in hectares):	56
9. Number of visitors for the year 2020-21:	27695
10. Visitor's facilities available in Zoo:	Visitor Shed, Wheel Chair, R.O. Drinking Water, Public Toilets and Parking Place
11. Weekly Closure Day:	Monday

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Distance from nearest:	Airport: Sahnewal 20 K.M. Railway Station: 8 K.M. Bus Stand: 8 K.M.
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### Management Personnel of the zoo

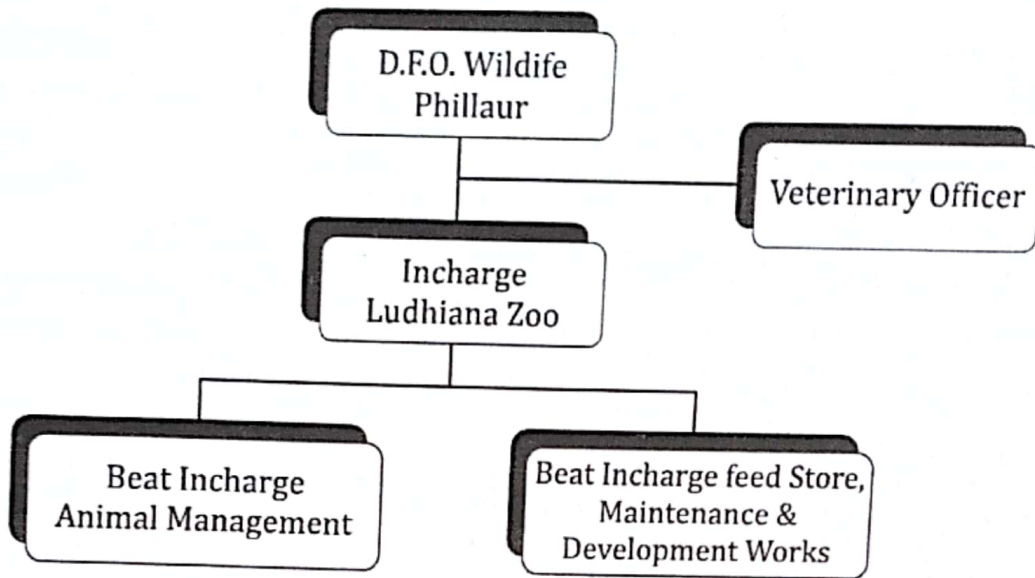
Name with designation of the officer-in-charge:	Sh. Narinder Singh R.O.
Name of the Veterinary Officer:	Dr. Chatinder Singh Vet. Officer (Cvial Veterinary Hospital, Haibowal)

### Operator of the zoo

Divisinal Forest Officer, Wildlife, Phillaur  
Contact details/Phone number of Operator : 01826-220098  
e-mail : dfowlphillaur@gmail.com

5.

### Organizational Chart:



### Human Resources

#### Working Manpower of the Zoo

Sr .No.	Designation	No. of posts
1.	Range Forest Officer	1
2.	Forester	0
3.	Forest Guard	2
4.	Ticket Clerk (Daily Wage)	1
5.	Beldar	3
6.	Zoo Keeper (Daily Wage)	4
7.	Night & Day Watcher (Daily Wage)	4
8.	Sweeper (Daily Wage)	12
9.	Gardener (Daily Wage)	1
10.	Sanitization Worker (Daily Wage)	3



6.

### Daily feed Schedule of animals

The food requirement varies from animal to animal and quantity also varies between age groups and sex. Herbivores and omnivores are fed in the morning hours according to their feed requirements. Carnivores are fed in the evening time, except on Fridays, which is a starve day to mimic natural feeding behavior. Quality and Quantity are monitored by the Range forest Officer respectively.

The daily food supplied by the contractor is first weighed inside the zoo. Then it is deposited in the store room where it is distributed to all the animals and birds as per the feeding schedule. See Annexure I

### De-worming Schedule of animals

S.No.	Species	Drug used	Month
1.	All species	Panacare	July 2020

### Disinfection Schedule of animals

S. No.	Species	Type of enclosure	Disinfectant used and method	Frequency of disinfection
1	All Animals	All holdinghouse, passages	KohrsalinTh Mopping	Daily
2	All Animals	All holdinghouse, passages	Potassium permanganate foot dip	Daily



7.

## Zoo Activities at a Glance (for period April 2020 to march 2021)

During the year following activities were taken up as part of improving existing enclosures and enhancing the enrichment activities to improve the condition of animal enclosures and bird cages:

(i) Zoo was closed from 16.03.2020 to 16.12.2020 for visitor activities by the CWLW office letter no. 9175-78 dated: 17.03.2020 due to Covid-19 guidelines of Government of India. The Zoo was reopened on 17.12.2020 with Covid-19 SOP guidelines which are placed at **Annexure II**

**Following measures were taken to prevent the spread of Covid-19 in the Zoo and to comply.**

- (i) The screening gate was set up at the entrance of the Zoo in order to screen the visitors and vehicles, washing of tyres of visitors' vehicles and other sanitization measures.
- (ii) The visitors' entry was allowed in three slots during the opening hours of the Zoo i.e. 9:30 AM to 11:30 AM, 12:00 Noon to 02:00 PM and 2:30 PM to 4:30 PM with 30 minutes break after every time slot for sanitization of enclosures, grills, visitors' paths, public shed and public toilets.
- (iii) All the care takers of animals wear PPE Kits, gloves, masks during the handling of animals.
- (iv) To aware the visitors about Covid-19, sign boards were installed at different sites of the Zoo.



**Screening Gate**

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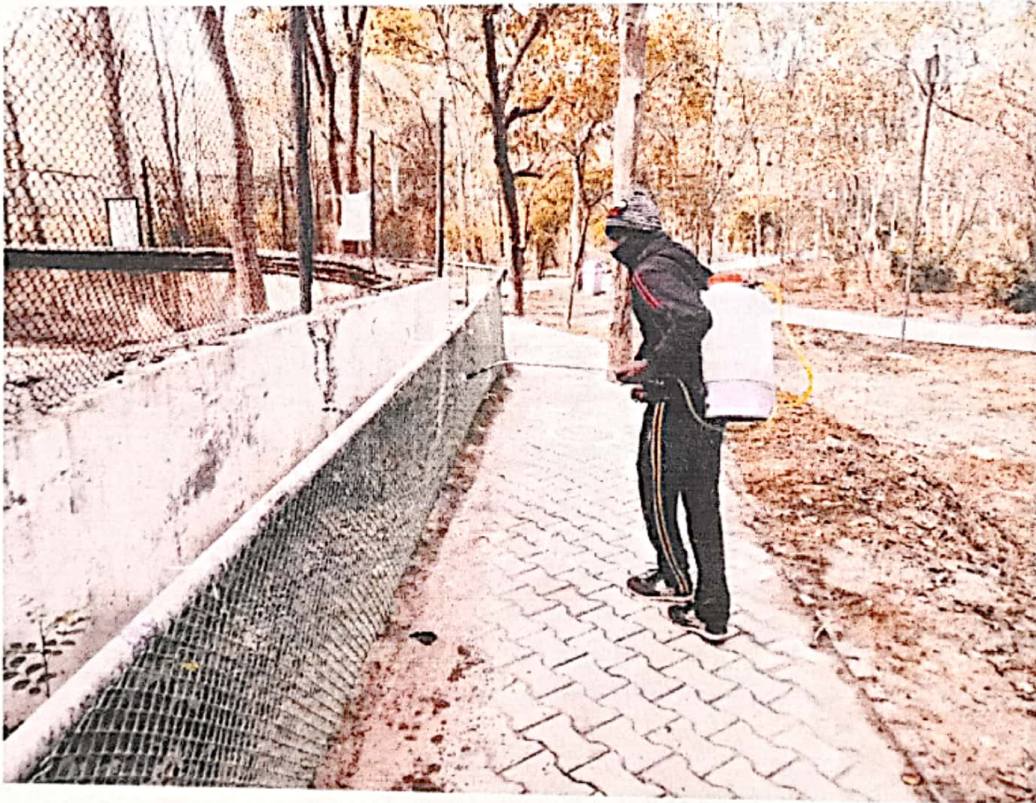
**Sanitization of Vehicles**



**Monitoring of Visitors' Temperature**



**Ticket Counter**



**Sanitization of the Zoo**

10.

## Development works and facilities created for the public during the year

- (i) CCTV Cameras were installed on the main gate, ticket counter, tiger safari main gate and inside the tiger house.
- (ii) New information boards of animals and birds were installed outside their enclosures.
- (iii) Enrichment works of enclosures are done and bird houses are hanged on trees for breeding purpose of wild birds inside the Zoo.
- (iv) Formation of new wildlife Awareness Park.
- (v) All the houses of animals and birds were white washed with lime under the disinfection protocol.
- (vi) Name plates, depicting Common Names, Scientific Names and the Uses of trees standing in the Zoo were made hanged on each tree for public awareness as per guidelines of the CZA. As per the direction of CZA Gol all steps were taken to prevent the spread of Avian Influenza.





**RO Drinking Water**



12.

### Annual Inventory of Ludhiana Zoo: Annexure III

#### Birth of Animals

Sr. No.	Name of Animals	M	F	U	Total	Remarks	
		Nil					

#### Acquisition of Animals

Sr. No.	Name of Animals	M	F	U	Total	Remarks	
		Nil					

#### Death and Disposal of animals/birds.

Sr. No.	Name of Animals	M	F	U	Total	Remarks
1	Royal Bengal Tiger	0	1	0	1	Old Age
2	EMU	1	0	0	1	Old Age
3	Jackal	1	0	0	1	

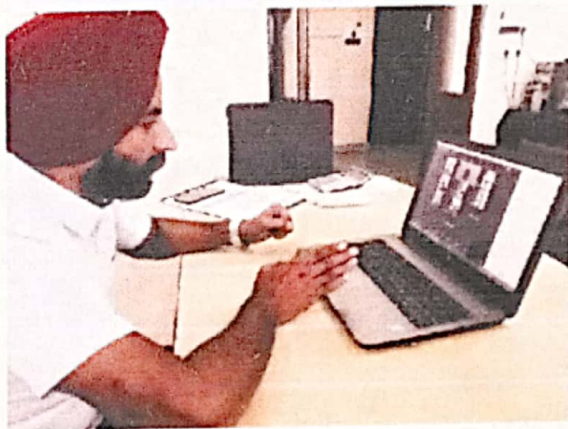
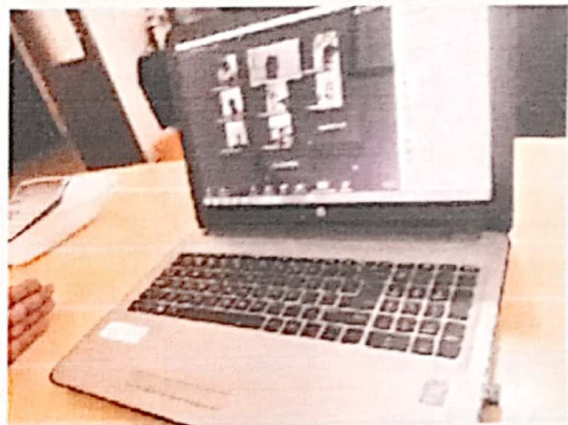
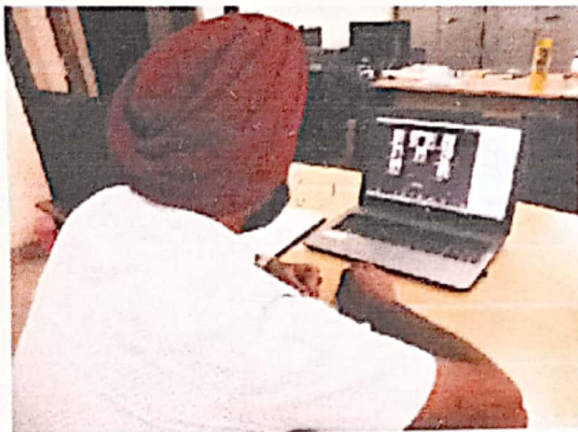


## Education and Awareness programmes during the year

As the Zoo was closed for visitors due to Covid-19 the World Environment day was celebrated online on 5<sup>th</sup> June 2020 in Ludhiana Zoo. Incharge Ludhiana Zoo and his staff gave the knowledge about different threats to natural life like global warming, greenhouse effects to the students of different schools.

## Important Events and happenings:

Like every year the Ludhiana zoo celebrated wildlife week in the first week of October from 2<sup>nd</sup> to 8<sup>th</sup> October 2020. Online events of Painting, Essay Writing were organized by the Incharge Ludhiana Zoo. The students of different schools participated in the events online and the prizes were distributed to them by post.



**Online event carried out due to Covid-19**



14

**Financial Performance****(i) Revenue****Rates of Entry Ticket**

Sr .No.	Particulars	Rate	Remarks
1.	Entry Ticket (Adults)	30/-	
2.	Entry Ticket (Children)	20/-	

**Rates of Parking Place**

Sr .No.	Particulars	Rate	Remarks
1.	Cycle	5/-	
2.	Two Wheeler	10/-	
3.	Car	20/-	
4.	Heavy Vehicles	30/-	

**Rates of Tiger Safari**

Sr .No.	Particulars	Rate	Remarks
1.	Entry Ticket of Tiger Safari (Adults)	50/-	


Sr No.	Particulars of Fee and Rate	No of Visitors during the year	Amount	Remarks
1	Entry fee Adult Person Rs. 30/-	24159	724770.00	The Zoo was reopened on 17.12.2020
2	Entry fee children age 3 year to 12 year per person Rs. 20/-	3536	70720.00	Do
3	Playing Mini bus in Tiger Safari	-	65175.00	The Tiger Safari was reopened on 17.03.2021
4	Parking Place	-	85210.00	The Zoo was reopened on 17.12.2020
5	Animal Adoption scheme	-	4800.00	
<b>Total</b>		<b>27695</b>	<b>950675.00</b>	

15

15.

**(ii) Expenditure**

Expenditure of Ludhiana Zoo, Ludhiana during the EY. 2020-2021 is Rs. 6335972/- for maintenance, Feed fodder and other essential works related to the Zoo.



**Incharge  
Ludhiana Zoo, Ludhiana**

Anexxure I				
Ludhiana Zoo, Ludhiana				
Feed Distribution Chart				
Sr. No.	Name of Item	Name of Animals/Birds	No. of Animals/Birds	Feed Qnty
1	Cattle Feed	Sambar	Per Animal	500gm
		Black Buck	Per Animal	150gm
		Barking Deer	Per Animal	150gm
2	Mix Crushed	EMU	per Bird	400gm
		Duck	per Bird	200gm
		Pheasant	per Bird	100gm
3	Black Grams	EMU	per Bird	300gm
		Black Buck	Per Animal	100gm
		Barking Deer	Per Animal	100gm
4	Kangni	Budgerigar	per Bird	10gm
		Silver Dove	per Bird	10gm
		Daimond Dove	per Bird	10gm
5	Bajra	Budgerigar	per Bird	10gm
		Silver Dove	per Bird	10gm
		Daimond Dove	per Bird	10gm
6	Gur	Sambar	Per Animal	200gm
		Black Buck	Per Animal	100gm
		Barking Deer	Per Animal	100gm
7	Rice	Himalyan Black Bear	Per Animal	500gm
8	Sabat Moong	Himalyan Black Bear	Per Animal	500gm
9	Sabat Dana	Peafowal	L/s	10kg
10	Ground Nut	Porcupine	Per Animal	100gm
		Parrot	per Bird	20gm
11	Makki Atta	Himalyan Black Bear	Per Animal	250gm



Incharge  
Ludhiana Zoo, Ludhiana

## Annexure-II

### STANDARD OPERATING PROCEDURES AND COVID-19 PREVENTION GUIDELINES TO BE FOLLOWED IN CHHATBIR ZOO

#### Introduction

As we all know, the re-opening of all work places, markets, schools, colleges and centres of education is inevitable to keep the human society move ahead without compromising the COVID-19 protection measures. Even though this is quite challenging, Zoo differs from other venues of mass gatherings as follows:

1. Capacity can be reduced/regulated to allow for appropriate social distancing.
2. Seating positions in rides and attractions can be controlled by the administration.
3. Exposure time in a single point is limited.
4. The guests are not sitting in a single location, elbow-to-elbow, for an extended Period and generally move throughout their experience.
5. A large percentage of visitors' attendance is made up of family members who live in the same home and thus they may opt not to be physically separated from each other.

In prevention of spread of Novel Corona virus, maintaining highest degree of hygiene in Zoo buildings, pathways, vehicles, display areas and the public amenities in routine basis has become very essential. To tackle and manage the situation in Zoos, World Association of Zoos and Aquariums (WAZA) and Central Zoo Authority, New Delhi (CZA) have issued guidelines time to time. Keeping in view of them and the instructions issued by the Government from time to time, M.C. Zoological Park (Chhatbir Zoo) has worked out a set of procedures to prepare the Zoo towards re-opening.

Carrying capacity of the Zoo, that is, the maximum numbers of visitors that Zoo can safely accommodate has been calculated, keeping social distancing norms in mind. A norm of 900 visitors entering Zoo in a 2 hours time window is suitable and easily manageable for the Zoo staff, keeping in mind the utmost safety of visitors, Zoo staff and animals. So, Maximum of 2700 visitors can be allowed to visit the Zoo in a single day till the normalcy returns in Zoo.

In compliance of the instructions/ guidelines and in consonance with the conditions prevailing in Chhatbir Zoo, Standard Operating Procedures and COVID-19 Prevention Guidelines (SOP) to be followed by the Zoo visitors, employees and other workers of various sections of Zoo and various license holders have been prepared, the details of which are as under:-

## COMPONENTS:

- POST COVID-19 CHANGES/RESTRICTIONS IN THE EXISTING FACILITIES OF ZOO
- CARRYING CAPACITY
- GUIDELINES FOR ZOO VISITORS
- GUIDELINES FOR ZOO STAFF
- GUIDELINES FOR LICENCE HOLDERS
- POST COVID-19 CHANGES/RESTRICTIONS IN THE EXISTING FACILITIES OF ZOO:
  1. Zoo will be opened for public 6 days a week (Monday closed). Entry for visitors will be allowed from 09:30 AM to 4:30 PM (instead of 9.00 AM to 5.00 PM).
  2. Only a limited number of timed tickets will be available in different slots to ensure staggered entry and social distancing. The schedule will be as follow:

09:30 am	Zoo entry opens
09:30 am – 11:30 am	Max 900 visitors can enter
11:30 am – 12:00 pm	Break for Sanitization
12:00 pm – 02:00 pm	Max 900 visitors can enter
02:00 pm – 02:30 pm	Break for Sanitization
02:30 pm – 04:30 pm	Max 900 visitors can enter
04:30 p.m.	Zoo entry closes

3. Manual booking and Cash transactions will not be allowed for purchasing Zoo entry tickets till the normalcy returns in the Zoo. Tickets for Zoo entry and other facilities such as Battery operated trolleys (BOT), Safari buses, Parking etc. can be booked through online booking, the link for which has been provided in the Zoo website ([chhatbirZoo.gov.in](http://chhatbirZoo.gov.in)). Apart from this, QR code system and other Remote booking facilities will be available in Zoo booking counter for those visitors who are unable to do online booking. Cash transactions may also be allowed for the visitors to purchase tickets for the outsourced facilities such as Parking, Canteen, Wildlife Safari, BOT etc.
4. Indoor facilities of Zoo such as Reptile House, Nocturnal house, Interpretation centre etc will not be opened for visitors till the normalcy returns in the Zoo.
5. For the security and safety of animals and visitors, the Zoo administration may withdraw any animals or withdraw any facilities from public display, at any point of time, without prior notice.
6. To ensure that the presence of visitors are under the optimal carrying capacity inside Zoo, Headcount cameras will be installed in Entry and Exit points of Zoo.

7. To prevent the spread of contamination and to maintain self-hygiene, medicated foot mat, sensor based Hand wash facilities will be provided in entry and other strategic points. Apart from these, automated sanitizer dispensers will be installed in entry points of Zoo and all the important facilities. For Sanitization of barricades, railings outside the animal enclosures, public amenities (toilets, drinking water points, rain shelters, leisure points etc), a dedicated disinfection squad will be deputed and there will be frequent breaks or closure in using the facilities.
8. Zoo has outsourced the **Operation and maintenance of Battery Operated Trolleys (BOTs)** facility. The facility will initially be allowed only for the group visitors/family members, who may reserve a full BOT vehicle at the prescribed rate with strict social distance norms and safety measures.
9. Zoo has outsourced the facility of **Plying of Mini Buses for Wildlife Safari (Lion Safari & Deer Safari) in Chhatbir Zoo**. Since the contract period has ended on 31<sup>st</sup> July, 2020, the facility has been withdrawn temporarily. Based on the demand and experience in the first month after opening the Zoo, the decision regarding floating the tender for Plying of Mini Buses for Wildlife Safari (Lion Safari & Deer Safari) in Chhatbir Zoo may be taken by the Zoo administration. All the necessary safety measures will strictly be implemented, while visitors are allowed to use Wildlife Safari Buses.
10. Zoo has outsourced the **Parking** facility. The contract period has ended on 30<sup>th</sup>, June, 2020. Till the tender process is completed, the Zoo administration may operate the parking facility on its own on public interest.
11. Zoo has outsourced the **Operation and maintenance of two Canteens** inside Zoo. The contract period of both the canteens has ended on 30<sup>th</sup> June, 2020. To supply the essential food items for the visitors, the Zoo administration may operate a **Canteen** inside Zoo on its own, till the tender process is completed.

- **CARRYING CAPACITY:**

**Facts**

- a. Visitor path length = 3600 mtrs.
- b. Visitor path width = 1.5mtr (avg.)

**Assumptions**

- a. Safe distance between visitors required to ensure social distance is 6 feet (2 mtrs).
- b. Visitors use 1.5 meter pathway for walking. Length of visitor pathway (including the secondary loops adjoining the animal enclosures) is 3600 mtrs. So we assume a single queue of visitors on the entire length of 3600 mtrs, as more than one queue cannot be assumed keeping social distancing gap of 2 mtr in mind.
- c. It takes around 2 hours to cover complete Zoo by walk.
- d. There is uniform flow of visitors from morning to evening (which is more unlikely)

Calculation of carrying capacity:

Carrying capacity of the Zoo is the maximum numbers of visitors that Zoo can safely accommodate, keeping social distancing norms in mind.

Number of visitors which Zoo can accommodate safely at any given time of the day  
i.e. Visitor path way length 3600 mtrs / Social Distance 2 mtrs = 1800

From the above calculation we can say that a maximum of 1800 visitors may enter the Zoo in a 2 hr time period, as it takes 2 hours to cover Zoo by walk (lesser in case of BOT). As this calculation is purely based on the above mentioned assumptions, in reality there will not be a uniform flow of visitors, and it is predicted that the peak reaches in between 12:00 pm to 3.00 pm as usual. So there is a dire need to adopt the regulations in which only a fixed number of visitors may enter the Zoo in a fixed time span. So a norm of **900 visitors** which may enter Zoo in a **2 hours time window** is suitable and easily manageable for the Zoo staff, keeping in mind the utmost safety of visitors, Zoo staff and animals. There will be 3 (2hr) windows a day. In between the two time windows there will be a half an hour break, in which the visitor management staff will sanitize the railings, barricades and other areas where there is potential of common touch for visitors. **So, Maximum of 2700 visitors can visit the Zoo in a single day.**

● **GUIDELINES FOR ZOO VISITORS:**

1. Visitors shall come to Zoo only when they do not have cough, cold and fever symptoms.
2. Adults above 60 years of age are requested not to visit the Zoo.
3. All visitors shall compulsorily wear facemasks while entering the Zoo premises. In case they forget to carry the facemask, they have to buy facemask from the counter at the entrance of Zoo.
4. Only cashless and online booking will be allowed for purchasing Zoo entry ticket.
5. All visitors shall compulsorily pass over the medicated foot-mat at the entrance of the Zoo.
6. Visitor shall undergo body temperature scanning while entering Zoo premises.



7. All visitors shall strictly maintain social distance while in Zoo premises.



8. Ensure that the social distancing is maintained while using visitor facilities (washrooms, drinking water points, canteens, battery operated vehicles, cloak room etc).
9. Ensure that there is minimal interaction with Zoo staff and even if it is required ensure social distance of minimum of 6 feet.
10. Avoid touching barricades and other surfaces in Zoo so as to minimize chances of spread and contamination.
11. Ensure that their movement is along designated visitor path only and avoid diversions or shortcuts.
12. Visitors shall avoid spitting in Zoo premises.



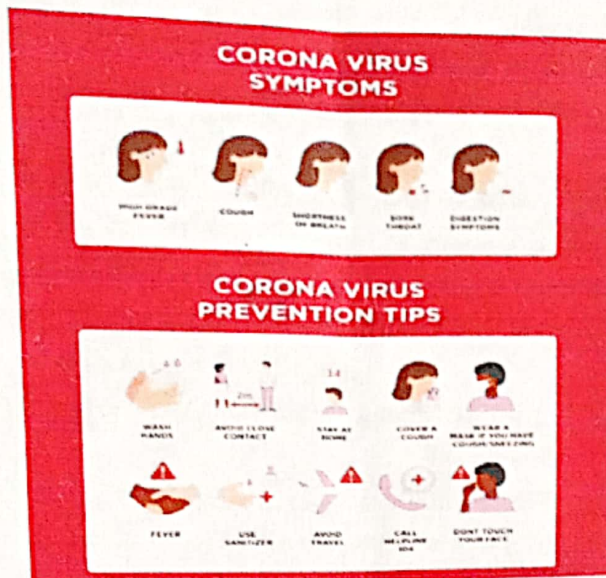
13. The Cloak Room/ Luggage/ Locker Room facility is being withdrawn temporarily due to COVID 19 Pandemic, the visitors are strictly advised not to carry any luggage or any such articles requiring the above-said facility.
14. Shall not chew pan masala, gutka and khaini and spit in Zoo premises.
15. All visitors shall be under the CCTV Camera monitoring and the violators of any of the aboveguidelines shall be imposed penalty up to Rs.500/per violation per head.

- **GUIDELINES FOR STAFF OF VARIOUS SECTIONS OF ZOO:**

- a. **General Guidelines for all the Zoo staff**

1. All employees shall ensure highest level of personal hygiene, both at Zoo and at their residences.
2. All the employees of Zoo will be tested for COVID-19 in regular intervals and Zoo administration will ensure that the positive cases, if any, their primary and secondary contacts do not enter the Zoo premises as per the directions issued by the Government with respect to COVID-19 from time to time.
3. Employees shall come to Zoo only when he/she doesn't have any of the typical symptoms of COVID 19.





4. Any employee suffering from cold, cough or fever shall abstain from coming to Zoo and inform the Zoo Administration over mobile phone in this regard.
5. Every employee shall strictly maintain social distancing, while working at Zoo while interacting with Zoo visitors, other staffs and senior officials.
6. Every employee must wear facemask while in Zoo and in transit, interacting with other colleagues and visitors.
7. Every employee must pass over foot dip at the entrance and sanitize his/her hands before entering their respective offices.



8. Every employee shall get his/her body temperature checked at the entrance of the Zoo and proceed further only after he gets positive signal from incharge checking the body temperature.
9. All employees shall maintain social distance during tea and lunch time.

10. The entry and exit of all employees for any purpose shall be staggered into different batches. In this regard all Range heads has worked out time schedule for their employees / workers.
11. If Zoo staff notices any person suffering from cold, cough and fever, he/she shall be assisted to reach exit gate at the earliest by adhering to social distancing and if needed, arrangement shall be made shifting to designated hospitals.
12. If possible, every employee will bring water from their home so that chances of spread of any infection at water points is minimized.
13. Ensure that they do not chew pan supari, gutkha, khaini and do not spit in Zoo premises.
14. As far as possible, work instructions shall be communicated over mobile phones instead of physical gatherings in Zoo so that personal contact is minimized.

In addition to general guidelines above the following are the unit specific guidelines for Zoo staff.

**b. Guidelines for Office Staff**

1. Avoid unnecessary crowding at office.
2. Shall strictly avoid using touching saliva to turn the pages of file.
3. Shall avoid going to other section unnecessarily.
4. Ensure that their work premises are clean and hygienic. Superintendent and store incharge will ensure the availability and economical usage of sanitisation materials.

**c. Guidelines for staff of Animal Management Section**

1. Ensure that every worker comes through organic Bio safety tunnel.
2. Ensure that every animal handler comes through Bio safety chamber as per protocol.
3. Ensure that the foot dip with disinfectants is functional at every animal enclosure and handwash, hand sanitizer and facemask is available with staffs.
4. All keepers shall compulsorily wear work gears, facemasks and gum boots and maintain highest degree of hygiene, while handling animals.
5. All animal keepers shall maintain strict social distance with their respective animals and keep close vigil on their animals for any health related issues.
6. Any abnormalities found in animal's health shall be informed to Animal Management Range officer and Zoo Veterinarian at the earliest.
7. Keepers shall strictly avoid going to other sections or other animals houses so as to avoid cross contamination.
8. As and when required, they should remind visitors about social distancing and facemasks.

**d. Guidelines for staff of Visitor Management section**

1. Ensure that only visitors with masks enter the Zoo premises. Provision may be made to keep the mask available for sale in the counter for those visitors who wish to buy the facemasks.
2. Ensure that there are signages and display boards at sensitive points placed to create awareness about importance of social distancing and wearing of facemask at key

points (vehicle parking area, entrance gate, ticket counter, water points, Mom & Baby care room, washrooms etc) in Zoo premises.



3. Ensure that the control room has enough provisions to handle the issues and complaints.
4. Ensure that the dedicated helpline number is access able in the Zoo working hours.
5. Ensure that foot dip with disinfectants at the entrance gate of Zoo is functional and topped up as per requirement.
6. Ensure that there are hand wash and hand sanitizer dispensers at entry gate area, washrooms, water points and Office areas.



7. Ensure that all washrooms are cleaned daily atleast thrice a day, Once before 9:30 AM, second before lunch time and third at the closing time when allthe visitors are cleared.
8. Ensure that all the washrooms are sprayed with sanitizers atthe end of day when all the visitors are cleared.
9. Ensure that all the special facilities like wheel chairs etc are maintained properly in hygienic condition.
10. Ensure that a complete First aid kit is available in the entry area and veterinary hospital for handling any emergency.
11. Ensure that all the barricades are sprayed with sanitizers atleast thrice a day.

12. Ensure that there are enough disposable paper cups at water points for the use of visitors.
13. Ensure that all waste including facemasks, gloves discarded by visitors, staff and others are handled very safely and disposed off as bio-medical waste.
14. Ensure that a public address system is in action in regular intervals to create awareness about do's and don't's.
15. Ensure that the offenders of any of the said guidelines / rules are fined rupees 500/- for each offence / violation.

**e. Guidelines for Ticket Counter Staff**

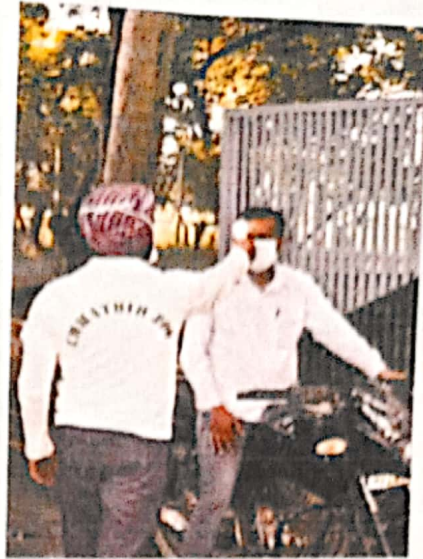
1. Ensure that online booking and QR code system are properly managed by technically sound staff. There should be supervising staffs to facilitate the booking of tickets through online/QR code/other remote booking method for those visitors who are not techno-savy. Promote e-ticketing to avoid manual collection of ticket from Zoo ticket counters. Give publicity to e-ticketing in Zoo website.
2. Ensure that all the staff compulsorily wears facemask and hand gloves.
3. Ensure that they maintain social distancing while issuing tickets.
4. Ensure that only cashless transactions through online booking/paytm, PayU money etc. is allowed carefully and with proper gear.
5. Social distancing points shall be marked on ground to indicate the distance to be maintained by visitors while standing in queue for entry and different counters.
6. Ensure Provision of Glass Barrier at the Ticket counter.

**f. Guidelines for Cloak room staff**

1. The Cloak Room/ Luggage/ Locker Room facility is being withdrawn temporarily due to COVID 19 Pandemic. When opened for public, Ensure that the staff wear facemasks and hand gloves compulsorily.
2. Ensure that no visitor enters luggage room.

**g. Guidelines for Security Staff**

1. Ensure that visitors maintain social distance at vehicle parking, at the entrance gate, while buying ticket, at BOT stations, while using visitor facilities (washroom, water points, resting places, Mom and baby care room) and at exit gate.
2. Ensure that only persons with facemasks enter the Zoo premises.

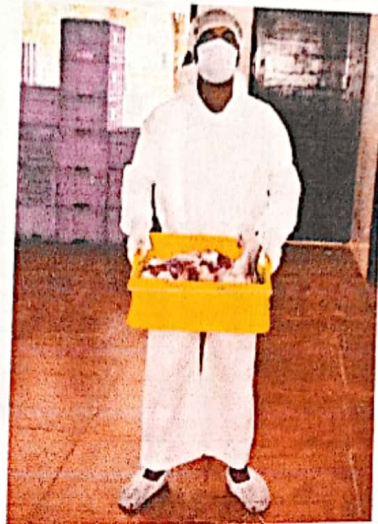


3. Ensure that all the visitors are scanned for body temperature and only those visitors move further whose body temperature measurement is within limits.
4. Ensure that all the staff at ticket screening place, plastic screening place are wearing facemasks, hand gloves and maintain social distance.
5. Ensure that any person who appear to be suffering from cold, cough or fever is isolated immediately and if need be sent to designated hospital while ensuring social distance from such persons.
6. Ensure that all devices used in the entrance gate, ticket scanning gadgets, mobiles, torches, umbrellas prams, wheel chairsetc are sanitized daily.
7. Ensure that all vehicles (including Zoo vehicles, contractors vehicle, feed suppliers vehicle or any other vehicle) entering Zoo premises go through tyre wash pits, gets sanitized and driver/other persons in it are wearing facemasks and are screened for body temperature and symptoms of cough, cold and fever.



#### **h. Guidelines for Feed Store Staff**

1. Ensure that highest level of hygiene is maintained at store.



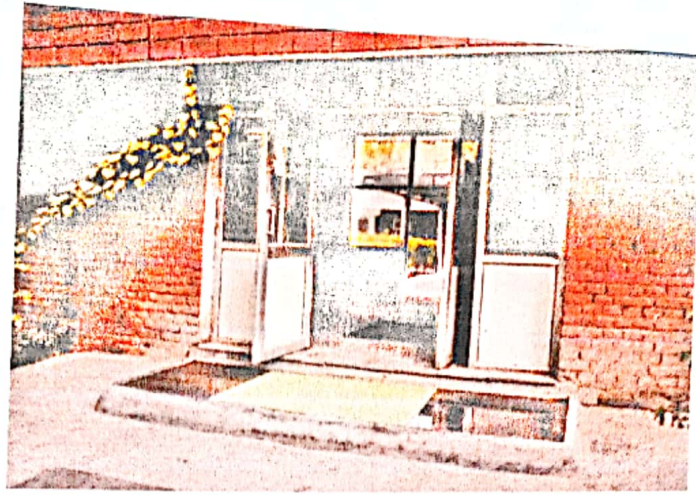
2. Ensure that the foot dip with disinfectant is functional and there is hand wash, sanitizer and facemask for staffs.



3. Only authorized persons enter the store premises. Even staff from other sections unless otherwise permitted shall not be allowed to enter the store premises.
4. Staff will maintain social distance with all the vehicle drivers / suppliers of feed, fodder, meat, etc.
5. Ensure that people accompanying animal food carrying vehicle shall not get down from the vehicle and maintain social distance from Zoo staff and Zoo visitors.
6. Ensure that all bio security measures, which are already in place as routine protocol (tyre wash for vehicles, washing of meat, fruits and vegetables, fish etc.) shall also be followed strictly.

i. **Guidelines for staff of Zoo Veterinary Hospital**

1. Ensure that there is sufficient stock of sanitizers, facemask and medicines required for hospital staff.
2. Ensure that there is sufficient stock of medicines required for treatment of animals.
3. Ensure that there must be a proper foot bath system to disinfect the under neath of shoes at the entry of hospital and other buildings.



4. Ensure that there is social distancing maintained by the staffs while attending animals.
5. Ensure that all animals are monitored very closely for any abnormality in health especially related to COVID -19 symptoms.
6. Ensure that other staff don't enter hospital premises and quarantine zone without prior permission.
7. Provision of quarantine / isolation facility for any symptomatic and suspected cases for COVID-19.

j. **Guidelines for staffs of Range officers**

1. Ensure that all the employees, workers who enter Zoo premises for work are screened for cough, cold and fever.
2. Ensure that all employees, workers maintain social distance while in Zoo premises.
3. Ensure that employees, workers maintain personal hygiene and do not spit in Zoo premises.
4. Ensure that they do not chew pan supari, gutka, khaini and spit.
5. Ensure that workers don't move around Zoo premises unnecessarily.
6. Ensure that workers don't assemble or come in contact with Zoo staff and Zoo visitors unnecessarily.
7. Ensure that workers prefer to interact through mobile phone with Zoo staffs and maintain social distance from people and visitors, as far as possible.
8. Ensure that concerned Range officer has contact details of each and every worker engaged by the contractors so as to facilitate tracing if need arises.
9. Ensure that staffs are provided with potable water and tea in the workplace, so that assembling in common places for potable water and tea is avoided.

**5. GUIDELINES FOR VARIOUS LICENSE HOLDERS:**

**General Guidelines**

1. They shall ensure adherence to the directions issued by the Government with respect to work place they are into.

2. The License holder should be proactive in following all the instructions / guidelines issued time to time by the Zoo administration.
3. The License holder should get all their staff tested for Corona virus and ensure that all the staffs are free from COVID-19 before engaging them as staff in Zoo facilities
4. Ensure that all staff enter and exit Zoo premises only through service gate and follow all the protocol strictly.
5. Ensure that all their staff maintain personal hygiene and free of cough, cold, fever or any other symptoms of COVID-19
6. Ensure that all staffs cooperate with Zoo staff with respect to temperature scanning, sanitization of vehicle etc.
7. Ensure that all staff members wear facemasks and maintain social distance and personal hygiene.
8. Ensure that hand wash and sanitizers are kept in every licensed premises for the use of visitors/customers.
9. Ensure that premises are sanitized frequently so as to minimize the risk of spread of virus.
10. Ensure that their staff do not move unnecessarily inside Zoo premises and interact with Zoo staff and visitors unnecessarily.
11. Encourage staff to carry their own drinking water and food so that their access to the Zoo premises for drinking water or canteen is minimized.
12. Ensure that the contact details of all the staff of contractors are available with concerned Range Officers, so that their tracing becomes easy in case required.

**a. Guidelines for Battery Operated Trolleys (BoT) Staff**

Zoo has outsourced the Operation and maintenance of **Battery Operated Trolleys (BOTs)** facility. The contract period commenced from 01.07.2019 and the contract was allotted to the tenderer for a period of 3 years, extendable upto 1 more year. But, keeping in view of the situation arisen due to COVID-19 Pandemic, the facility was discontinued from March 17, 2020. The facility may initially be allowed only for the group visitors/family members, who may reserve a full BOT vehicle at the prescribed rate, as mentioned in the tender document. Based on the demand and with the consent of the tenderer, the decision regarding allowing BOTs to visitors may be taken by the Zoo administration as per the prevailing situation. All the necessary safety measures will strictly be implemented, while visitors are allowed to use BOTs, so that proper social distancing and sanitisation procedures are followed. Following guidelines will strictly be implemented, while visitors are allowed to use BOTs, so that proper social distancing and sanitisation measures are maintained.

1. Ensure that the seats of BOTs are occupied with 50% of its capacity by the visitors till the normalcy returns.
2. Ensure that all the drivers wear facemasks and gloves while taking visitors around the Zoo.
3. Ensure that there must be a physical transparent barrier between driver and passengers of the vehicle
4. Ensure that vehicles are sanitized after every round.



5. Operator will ensure that all the visitors are scanned for body temperature and only those visitors, whose body temperature measurement is within limits, are allowed to board. Any abnormality in visitors found, it should be informed to the Zoo administration.
6. The operator will avoid manual tickets and bill books as far as possible. Online ticketing cashless transactions and touch less billing facilities should be available for visitors.
7. Operator will ensure that visitors in BOT maintain distance from each other through out their journey.
8. Ensure that all visitors wear facemasks throughout their visit.
9. Awareness shall be created to visitors about importance of social distancing andwearing facemasks in public places in a polite manner.
10. Every BOT should be equipped with Hand-Sanitizer approved by Zoo administration.
11. Every BOT driver should be given rest on alternate days.

**b. Guidelines for Safari Vehicle Staff**

**Safari Vehicle** facility is being withdrawn temporarily. Based on the demand and experience in first month of opening of Zoo, the decision regarding floating of tender for operation and maintenance of **Safari Vehicle in Zoo** may be taken by the Zoo administration. Following guidelines will strictly be implemented, while visitors are allowed to use **Safari Vehicle**, so that proper social distancing and sanitisation measures are maintained.

1. Ensure that the seats of Safari buses are occupied with 50% of its capacity by the visitors till the normalcy returns.
2. Ensure that all the Safari vehicle drivers wear facemasks and gloves while taking visitors around the Zoo.
3. Ensure that there must be a physical transparent barrier between driver and passengers of the Safari vehicle.
4. Ensure that Safari vehicles are sanitized after every round.
5. Operator will ensure that all the visitors are scanned for body temperature and only those visitors, whose body temperature measurement is within limits, are allowed to board. Any abnormality in visitors found, it should be informed to the Zoo administration.
6. Operator will ensure that visitors in Safari vehicle maintain distance from each other through out their journey.
7. Ensure that all visitors wear facemasks throughout their visit.
8. The operator will avoid manual tickets and bill books as far as possible. Online ticketing cashless transactions and touchless billing facilities should be available for visitors.
9. Awareness shall be created to Safari visitors about importance of social distancing and wearing facemasks in public places in a polite manner.
10. Every Safari vehicle should be equipped with Hand-Sanitizer Every Safari vehicle driver should be given rest on alternate days.

### c. Guidelines for Zoo Canteen Staff

**Canteens** facility is being withdrawn temporarily. To supply the essential food items, the Zoo administration may operate a **Canteen** inside Zoo on its own, to sell only packed items with MRP, Tea and Coffee for the visitors, till the tender process is completed. Based on the demand and experience in first month of opening of Zoo, the decision regarding floating of tender for operation and maintenance of **Canteens** may be taken by the Zoo administration. Following guidelines will strictly be implemented, while visitors are allowed to use **Canteens**, so that proper social distancing and sanitisation measures are maintained.

1. Ensure that all the Canteen Staff wear facemasks and gloves while attending visitors.
2. Ensure that the Canteen tables and chairs are sanitized after every round of usage by clients.
3. Operator will ensure that all the visitors are scanned for body temperature and only those visitors, whose body temperature measurement is within limits, are allowed to enter the canteen. If any abnormality in visitors is found, it should be informed to the Zoo administration.
4. Operator will ensure that visitors maintain distance from each other while spending time in canteen.
5. Ensure that all visitors wear facemasks while spending time in canteen.
6. Only limited food items will be allowed by the Zoo administration in the initial two months. Bottled drinking water, hot and cold beverages and some local cooked snacks like samosa/ noodles may be allowed. The items brought from outside should be stored and disinfected as per guidelines before serving to the public. Every Table should be equipped with Hand-Sanitizer.
7. The operator will avoid reusable plates, spoons, forks and other cutleries and strictly use disposable ones.
8. The operator will avoid manual tickets and bill books as far as possible. Cashless transactions and touchless billing facilities should be available for visitors.
9. Every Canteen Staff should be given rest on alternate days.
10. Awareness shall be created to canteen visitors about importance of social distancing and wearing facemasks in public places in a polite manner.

### d. Guidelines for Parking area Staff

**Parking** facility is being withdrawn temporarily. Based on the feedback, demand and experience in first month of opening of Zoo, the decision regarding publishing of tender for operation and maintenance of **Parking** may be taken by the Zoo administration. Following guidelines will strictly be implemented, while visitors are allowed to use **Parking**, so that proper social distancing and sanitisation measures are maintained.

1. Ensure that all the Parking area Staff wear facemasks and gloves while attending visitors.
2. Ensure that the Counters are sanitized after every round of usage by clients.
3. Operator will ensure that all the visitors are scanned for body temperature and only those visitors, whose body temperature measurement is within limits, are allowed to enter the parking area and Zoo. Any abnormality in visitors found, it should be informed to the Zoo administration.

4. Operator will ensure that visitors maintain distance from each other while spending time in Parking area.
5. Ensure that all visitors wear facemasks while spending time in Parking area.
6. The parking security staff should be equipped with Hand-Sanitizer.
7. The operator will avoid manual tickets and bill books as far as possible. Online ticketing cashless transactions and touchless billing facilities should be available for visitors.
8. Every Parking area Staff should be given rest on alternate days.
9. Awareness shall be created to visitors about importance of social distancing and wearing facemasks in public places in a polite manner.
10. Ensure Provision of Glass Barrier at the Ticket counter.

Social distancing and avoiding unnecessary exposure are the key strategies to contain and win over the situation arisen due to Novel Corona. Above procedures are tentative in nature and there could be many more situations one may come across and has to make wise choice and decision to save himself/herself and others from COVID 19.

  
INCHARGE  
LUDHIANA ZOO

209

Annexure - III

**Government of Punjab**  
**Department of Forest & Wildlife Preservation**  
**O/o Divisional Forest Officer, Wildlife Division, Phillaur**

To

The Member Secretary,  
Central Zoo Authority, B-1 Wing, 6<sup>th</sup> floor,  
Pt. Deendayal Antyodaya Bhawan,  
CGO Complex, Lodhi Road  
New Delhi-110003

No. WL/- 183 Date 19-4-2021

**Subject :- Submission of Annual Inventory report/Summary of death reports of animals of the Ludhiana Zoo Ludhiana ( From 01-04-2020 to 31-03-2021) reg.**

\*\*\*\*\*

With respect to above cited subject, the annual Inventory report of Ludhiana Zoo Ludhiana (1<sup>st</sup> April, 2020 to 31<sup>th</sup> March, 2021) is attached here with for your kind considerations please.

Encl. As Above


Divisional Forest Officer  
Wildlife Division  
Phillaur

Endst No. 184 Date 19-4-2021

A copy of this letter forwarded to Conservator of Forests (Wildlife), Parks and Protected Area Circle, Punjab, S.A.S. Nagar for kind information please.

Encl. As Above

Divisional Forest Officer  
Wildlife Division  
Phillaur

  
INCHARGE  
LUDHIANA ZOO

211

FORM-II  
(See rule 11(1))  
Part-A

Government of Punjab  
Department of Forest & Wildlife Preservation  
O/o Divisional Forest Officer, Wildlife Division, Phillaur.  
Ludhiana zoo Ludhiana  
**Annual inventory report from 01.4.2020 To 31.3.2021**

Endangered Species

Sr. No.	Animal / Bird Name	scientific name	opening stock as on 1/4/2020				births				Acquisition				Disposal				Death				closing stock as on 31/3/2021											
			M	F	U	Total	M	F	U	Total	M	F	U	Total	M	F	U	Total	M	F	U	Total	M	F	U	Total								
<b>BIRD</b>																																		
1	Peafowl	Pavo cristatus	42	43	0	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	43	0	85			
<b>Total</b>			42	43	0	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	43	0	85			
<b>Mammal</b>																																		
1	Royal Bengal Tiger	Panthera Tiger	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1
2	Himalyan black bear	selenarchos thibetanus	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2			
3	Black buck	Antelope cervicapra	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3				
<b>Total</b>			3	4	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	3	3	0	6	
<b>Reptile/Amphibians</b>																																		
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total</b>			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Invertebrate</b>																																		
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total</b>			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Sub. Total</b>			45	47	0	92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	45	46	0	91	

-1-

**Part-B**  
**Other then Endangered Species**

		BIRD																							
1	Indian Geese	Anser indicus	25	22	0	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	22	0	47
2	Emu	Dromaius novaehollandiae	3	3	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	1	6
3	Bussard	Melospittacus undulatus	18	17	0	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	17	0	35
4	Neck Ring Parrot	Pittacula kramer	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4
5	Silver Dove	Streptopelia	12	16	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	16	0	28
6	Silver Pheasant	Lophura nycthemera	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
7	Golden Pheasant	Chrysolophus pictus	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
8	Yellow Golden Pheasant	Chrysolophus pictus mut. Luteus	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
9	Diamond Dove	Geopelia cuneata	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Total			63	64	1	128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	62	64	1	127

		Mammal																							
1	Jackal	canis aureus	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1
2	Sambar	cervus unicolor	1	7	0	8	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	2	8	0	10
3	Barking deer	Muntiacus muntjak	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
4	Porcupine	Hystrix indica	7	4	1	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	4	1	12
Total			10	13	1	24	1	1	0	2	0	0	0	0	0	0	0	0	0	0	1	10	14	1	25

		Reptile/Amphibians																								
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

		Invertebrate																								
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub. Total			73	77	2	152	1	1	0	2	0	0	0	0	0	0	0	0	0	0	2	72	78	2	152	
Grand Total			118	124	2	244	1	1	0	2	0	0	0	0	0	0	0	0	0	0	2	117	124	2	243	

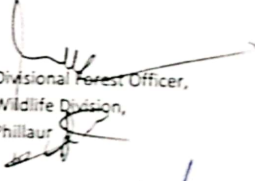
  
 Divisional Forest Officer,  
 Wildlife Division,  
 Pillayar

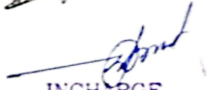
FORM-II  
(See rule 11(1))  
Part-A

Government of Punjab  
Department of Forest & Wildlife Preservation  
O/o Divisional Forest Officer, Wildlife Division, Phillaur.  
Ludhiana zoo ludhiana

Annual summery of Death of Animals/Birds reptiles w.e.f 1/4/2020 to 31/3/2021

Sr no	Spiceies	sex	D.O.D	Cause of death
1	EMU	Male	25.7.2020	Post-Mortem Copy Attached
2	Jabral	Male	17.8.2020	Post-Mortem Copy Attached
3	Royal Bengal Tiger	Female	27.12.2020	Post-Mortem Copy Attached

  
Divisional Forest Officer,  
Wildlife Division,  
Phillaur

  
INCHARGE  
LUDHIANA ZOO

**Veterinary Necropsy Protocol**  
**Post - mortem Report**  
**Ludhiana Zoo, Ludhiana**

129      217

Date: 25.07.2020

NO. 35

Kind of animals (with remarks of identification if any)      Scientific name      Sex      Personal Name      Age      Size      Weight

Time date and place of death      05:00 AM, 25.07.2020, Ludhiana Zoo

Time and date of post-mortem examination      06:15 PM, 25.07.2020, Ludhiana Zoo

1. Short history of illness, if any      NO

2. Genral dascription      Lacerations on lower abd. made neck also

3. Organ wise description of lesions :-

(1) Head and neck..... (a) Skull & Brain  
 (b) Cervical vertebrae

(2) Thorax..... (a) Lungs  
 (b) Heart  
 (c) Ribs

3. Abdoman..... (a) Liver  
 (b) Stomach  
 (c) rtestines  
 (d) Kidney  
 (e) Spleen

(4) Pelvic girdle..... (a) Uterus and Ovaries  
 (b) Bladder  
 (c) Genital Passage

(5) Limbs..... (a) Fore Limbs  
 (b) Hind Limbs

(6) Any other special features :  
 Biological test done (if any)  
 (i) Blood      NO  
 (ii) Urine  
 (iii) Discharges  
 (iv) Biopsy

(7) Opinion      In my opinion animal died of cardiac failure due to fight among the fellow birds

(8) Instructions for disposal  
 Place..... Ludhiana  
 Date..... 25.07.2020

Signature.....  
 Name.....  
 Designation.....  
 (Seal)

Date..... 25.07.2020

(Seal)



Post - mortem Report  
Ludhiana Zoo, Ludhiana

188

79

Date.. 17.08.2020

Kind of animals (with remarks of identification if any) ..... Scientific name ..... Sex ..... Personal Name ..... Age ..... Size ..... Weight .....

Time date and place of death 17.08.2020, 10:30 AM, Male, 15 1/2 yr - 18 1/2 yr, 29" x 31" height, 12.5 kg  
Time and date of post-mortem examination 06.08.20, 17.08.2020, Ludhiana Zoo

1. Short history of illness, if any no  
2. Genral dascrption general weakness  
3. Organ wise description of lesions :-

(1) Head and neck..... MR (a) Skull & Brain (b) Cervical vertebrae

(2) Thorax lungs collapsed, heart enlarged, pale, (a) Lungs (b) Heart (c) Ribs  
enlarged, with enlarged heart

3. Abdoman. spleen enlarged, mesenteric pale (a) Liver (b) Stomach (c) Intestines (d) Kidney (e) Spleen  
spleen enlarged, mesenteric pale

(4) Pelvic girdle..... MR (a) Uterus and Ovaries (b) Bladder (c) Genital Passage

(5) Limbs..... MR (a) Fore Limbs (b) Hind Limbs

(6) Any other special features :  
Biological test done (if any)  
(i) Blood no  
(ii) Urine  
(iii) Discharges  
(iv) Biopsy

(7) Opinion In my opinion the above bird animal died due to multiple organ failure due to senility

(8) Instructions for disposal  
Place 17/08/2020  
Date Ludhiana  
Date 17/08/2020

Signature.....  
Name Dr. Chander  
Designation V.C. Ludhiana Zoo  
(Seal) सिविल पशु चिकित्सक  
पंचेनाल डेअली कॅम्पलैक्स लुधਿਆਣਾ  
(Seal)

Post - mortem Report  
Ludhiana Zoo, Ludhiana

187

221

NO.....37.....

Date.....

Kind of animals (with remarks of identification if any) Scientific name Sex Personal Name Age Size Weight

Time date and place of death

Time and date of post-mortem examination

1. Short history of illness, if any

2. Genral dascription

3. Organ wise description of lesions :-

(1) Head and neck..... Nil..... (a) Skull & Brain (b) Cervical vertebrae

(2) Thorax..... Lungs were congested, inflamed..... (a) Lungs (b) Heart (c) Ribs

3. Abdoman..... All the organs showed no gross lesions..... (a) Liver (b) Stomach (c) rtestines (d) Kidney (e) Spleen

(4) Pelvic girdle..... Normal..... (a) Uterus and Ovaries (b) Bladder (c) Genital Passage

(5) Limbs..... Normal..... (a) Fore Limbs (b) Hind Limbs

(6) Any other special features :  
Biological test done (if any)  
(i) Blood  
(ii) Urine  
(iii) Discharges  
(iv) Biopsy

(7) Opinion

(8) Instructions for disposal

Place.....

Date.....

Signature.....  
Name.....  
Designation.....  
(Seal)

Date.....

(Seal)  
Signature  
28/11/2020  
V.O. Handwritten