

M.C. Zoological Park, Chhatbir, Punjab.



Annual Report for the year
2020-2021

CONTENTS

Sr. No.	Section	Page No.
1.	Report of the Officer-in-charge	3
2.	History of the Zoo	4
3.	Vision of the Zoo	4
4.	Mission of the Zoo	5
5.	Objective of the Zoo	5
6.	About us	5
7.	Organizational Chart	7
8.	Human Resources	8
9.	Capacity Building of the zoo personnel	9
10.	Zoo Advisory Committee	9
11.	Health Advisory Committee	9
12.	Statement of revenue and budget of the Zoo	9
13.	Daily feed Schedule of animals	10
14.	Vaccination Schedule of animals	15
15.	De-worming Schedule of animals	16
16.	Disinfection Schedule	16
17.	Development Works carried out in the zoo during the year	19
18.	Important events and happenings in the zoo	21
19.	Education and Awareness programmes during the year	26
20.	Seasonal special arrangements for upkeep of animals	28
21.	Research work carried out and publication	33
22.	Animal acquisition/transfer/exchange during the year	33
23.	Annual Inventory of animals (2020-2021)	35
24.	Mortality of animals.	59
25.	Compliance with conditions stipulated by the Central Zoo Authority	62
26.	List of free living wild animals within the zoo premises	65

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:

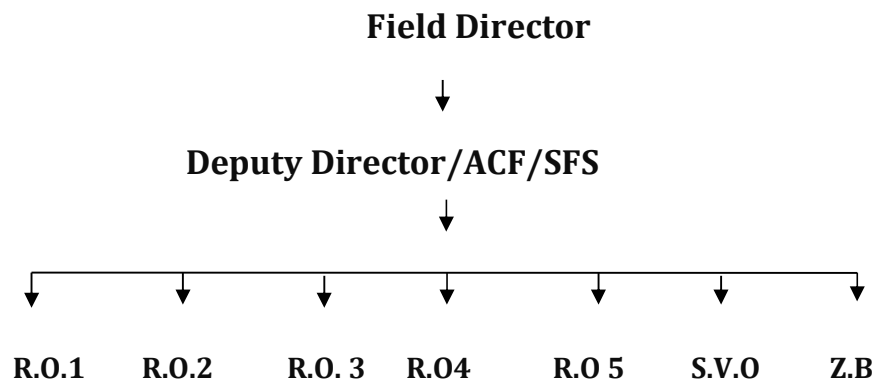
- To support conservation of endangered and rare species through breeding under captive conditions.
- To educate, motivate and create awareness in the society about the need for conserving wildlife, biodiversity and natural resources.
- To provide opportunities for scientific research on wild fauna.

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 fd.zoo@punjab.gov.in
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 (2020-2021)	Total Visitors : 193774
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
Owner / Operator of the Zoo		
17.	Name of the Operator	Mr. Kuldeep Kumar, I.F.S (01.04.2020 to 31.07.2020) Mr. R.K. Mishra, I.F.S (01.08.2020 to 31.03.2021)
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	<u>cwlpunjab@gmail.com</u>

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	0	--
3	Senior Veterinary Officer	2	1	1	--
4	Supdt. Grade-II	1	1	0	--
5	Senior Assistant	2	2	0	--
6	Clerk/Jr. Assistant	7	5	2	--
7	Technical Assistant	1	0	1	--
8	Range Officer	4	2	2	--
9	Deputy Ranger	4	0	4	--
10	Forester	4	8	0	--
11	Forest Guard	10	10	0	--
12	Junior Engineer	1	0	1	--
13	Veterinary Compounder	2	0	2	--
14	PRO Forests & Wildlife	1	0	1	--
15	Zoo Security Supervisor	2	0	2	--
16	Sanitary Inspector	2	1	1	--
17	Lab. Technician	2	1	1	--
18	Mahawat	4	1	3	--
19	Driver	4	1	3	--
20	Mechanic	7	0	7	--
21	Peon	3	2	1	--
22	Zoo Keeper	27	12	15	--
23	Cook	2	1	1	--
24	Head Cook	2	0	2	--
25	Head Zoo Keeper	4	1	3	--
26	Vet. Attendant	3	0	3	--
27	Multipurpose Worker/ Hygiene Worker	26	52	26	--

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.	Sh. Gagan Kataria, (Range Officer)	Combating Wildlife Crime	10.09.2020	Wildlife Crime Control Bureau (Virtual mode)
2.	Sh. Aarshdeep singh Rana, (Deputy Ranger)			
3.	Dr. Ashish Kumar (Senior Veterinary Officer)	Wildlife Health Management	23.02.2021 to 25.02.2021	Central Zoo Authority, New Delhi
4.	Animal Handler	Captive Management of Reptiles	15.03.2021 to 17.03.2021	Indira Gandhi Zoological Park, Visakhapatnam (Virtual mode)

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	2020-2021	Remarks
Non plan	113170000	--
Plan(FT-14)	1755000	--
PUNCAMPA	--	--
Punjab Zoos Development Society	105140000	--
CZA	168000	--
Total	220233000	--

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

Year	Revenue from Zoo Entry Ticket	Revenue from other facilities	Total
2020-2021	14911770	3386640	18298410
Grand Total	14911770	3386640	18298410

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 (Boiled)	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 (Boiled)	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	Soyabean 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	Cucumber	0.1
Extra Diet/Remarks		
1	Ice for Beer	100
2	Water Melon	As per SVO's recommendation
3	Chicken/mutton	As per SVO's recommendation
4	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	Fellow vax-PCT 1 ml s/c	Yearly	--
2	Tigers	Panleukopenia, Calci virus (2 strain), Infectious Feline Rhinotracheitis	Fellow vax-PCT 1 ml s/c	Yearly	--
3	Leopards	Panleukopenia, Calci virus (2 strain), Infectious Feline Rhinotracheitis	Fellow vax-PCT 1 ml s/c	Yearly	--

(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 Vaccin	Yearly	--
3	Leopards	Canine distemper	Pure Vax-Ferret distemper Vaccine	Yearly	--

(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	--

		●											
8	Leopard Complex	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●
9	Cat Complex	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●
10	Bear Complex	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●
11	Bird Aviary	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●
12	Pheasanry	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●
13	Small Deer Complex	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●
14	Off Display Area	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●
15	Deer Safari Complex	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●
16	Small Bird Aviary	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●
17	Zebra Complex	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●
18	Swamp 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% KMNO4 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 vermin composting or the pit composed

Weekly disinfection schedule

1. Wet the surface of floor and walls with hot boiled water
2. Spread the solution of 5% dilution with 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

Development Works carried out in the zoo during the year

1. Upgradation and development of Sewerage network system including construction of STP of 3000 KLD Capacity in Chhatbir Zoo



2. Establishment of 300 KW Solar power plant in Chhatbir Zoo Image-1



Image-2



3. Chain link fencing of zoo boundary





4. Renovation and repair of existing zoo quarter staff and other buildings

Image-1



Image-2



19. Important Events and happenings in the Zoo

Wildlife Week 2020

Wildlife Week 2020 has been successfully celebrated under the theme RoaR (Roar and Revive) – Exploring Human-Animal Relationships at M.C. Zoological Park, Chhatbir. Various events and activities were organized to create awareness among the people towards "Nature and Wildlife". Everything was planned in the month of September 2020 to run all the activities and events smoothly. Due to COVID-19 the entry of the Visitors was not allowed during Wildlife Week 2020 from 3rd October 2020 to 8th October 2020. Proper branding and promotion with banners and news were planned and covered accordingly.



The Central Zoo Authority in collaboration with The Energy and Resources Institute, launches Campaign **RoaR (Respect and Revive)** to mark the celebration of Wildlife Week 2020.

COMPETITION

Painting | Poetry Writing

Theme

My favourite zoo animal
(मेरा प्रिय वन्यजीव)

We roar for all wild animals as our friends
(जंगल शहर में गूँज है, वन्यजीव हमारे दोस्त हैं)

All entries should be original work of the participant on drawing paper using any type of colours.

Size – 29 x 21 cms / A4

Last date for submission:
September 28, 2020

A chance for a virtual interaction with
Shri Prakash Javadekar,
Hon'ble Minister for
Environment, Forest and
Climate Change and
Shri Babul Supriyo,
Hon'ble Minister of State
for Environment, Forest and
Climate Change

Awards & Incentives

Attractive prizes for winners

E-Certificates for all participants

WILDLIFE WEEK CELEBRATION 2020

Highlights

- Inaugural Ceremony
- CZA Prani Mitra Awards
- Talk on Conservation Linkages
- Nature Drawing and Illustrations
- Talk on Vultures in our culture
- Prize distribution ceremony

For submitting your entry to the competition, use the following link:

<https://forms.gle/RJDbnCjdSJLlf82g6>

3rd October 2020

On October 3, 2020 a Cycling Awareness Campaign "**Ride for the Wild**" for 25 Km from Forest Complex, Sector-68, S.A.S. Nagar, to Chhatbir Zoo was organized with all precautions taken against the COVID-19 Virus.

7th October 2020

On October 7, 2020, the State-Level Function was organized. In this State-Level Function, the Chief Guest was Sh. Sadhu Singh Dharamsot, Forest, Social Justice, Empowerment, and Minorities, Printing and Stationery Minister, Punjab along with respective Smt. Ravneet Kaur, ACS, Forest, Sh. Jitendra Sharma, Principal Chief Conservator of Forests (HoFF), Punjab and Sh. R.K. Mishra, Chief Wildlife Warden, Punjab.

The Chief Guest initially inaugurates the Bio security Chamber for Public and Staff Safety to prevent from the spread of the COVID-19 virus and other diseases that are harmful to animals. Cleaning and disinfection All items in BSCs, including equipment, should be surface-decontaminated and removed from the cabinet when work is completed, since residual culture media may provide an opportunity for microbial growth. The interior surfaces of BSCs should be decontaminated before and after each use. The work surfaces and interior walls should be wiped with a disinfectant that will kill any micro organisms that might be found inside the cabinet. At the end of the workday, the final surface decontamination should include a wipe-down of the work surface, the sides, back, and interior of the glass. A second wiping with sterile water is needed when a corrosive disinfectant, such as bleach, is used. Personal protective equipment Personal protective clothing should be worn whenever using a BSC. Laboratory coats are acceptable for work being performed at Bio safety Level. Masks and safety glasses may be required for some procedures.



After that the Chief Guest released the Indian Fox from Isolation ward to exhibition area for Public. The Indian Fox prefers semi-arid, flat to undulating terrain, scrub and grass land habitats

where it is easy to hunt and dig dens. It avoids dense forests, steep terrain, tall grass lands and true deserts.

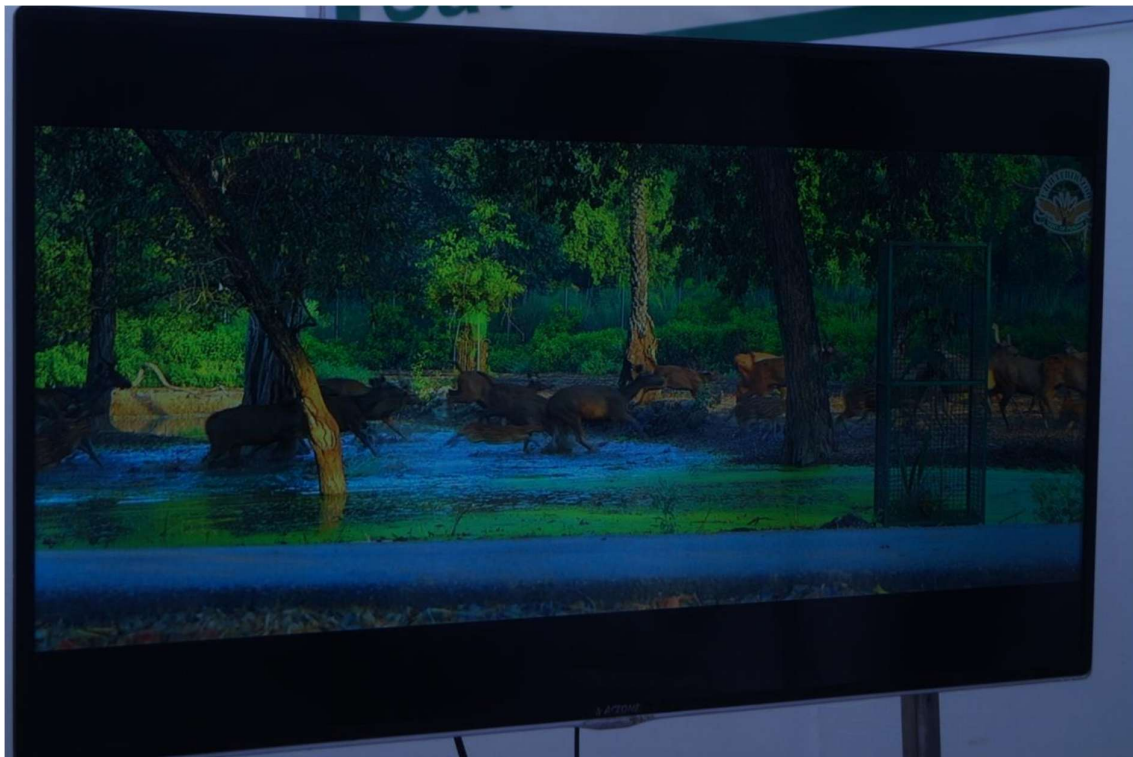


After that the Chief Guest inaugurates the "Breast Feeding Mother Care Rooms". **Breast feeding**, also known as **nursing**, is the feeding of babies and young children with milk from a woman's breast. **Breast feeding** has health benefits for both mothers and babies.



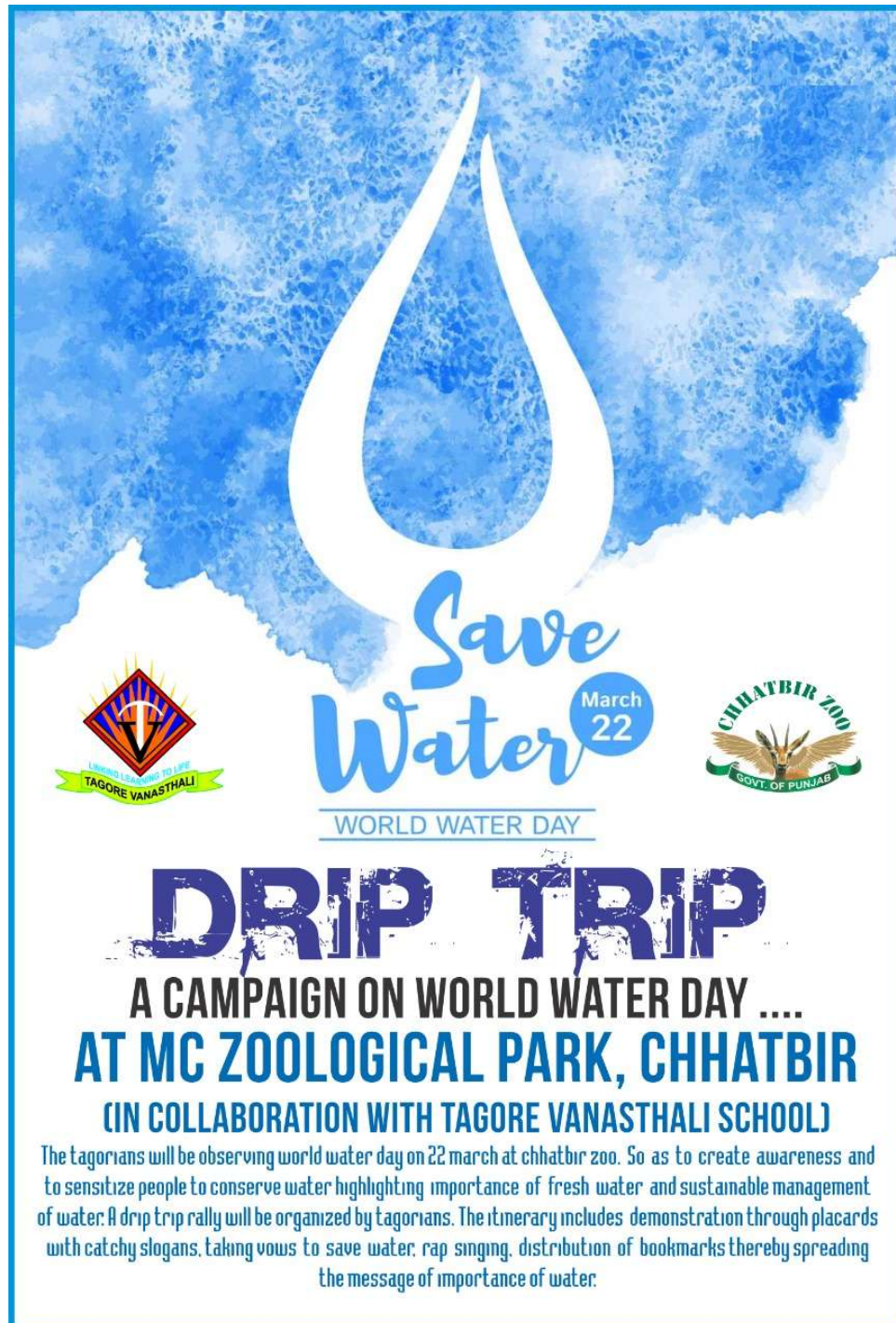
After that the Chief Guest gave the strong message on our social duties towards environment and Wildlife conservation. The Chief Guest released the trailer of Upcoming Chhatbir

Zoo documentary for public on YouTube. He also express his thoughts regarding global environmental threats and congratulate to the Zoo Authorities for their successful celebrations of Wildlife Week 2020.



20. Education and Awareness programmes during the year

The Chhatbir Zoo also celebrates many more events every year by organizing outreach and educational programs for local schools with competitions like poster making, essay & extempore competition etc. This year due to the Covid-19 pandemic, the Chhatbir Zoo could not invite local schools for the event.



Save Water March 22

WORLD WATER DAY

DRIP TRIP

A CAMPAIGN ON WORLD WATER DAY

AT MC ZOOLOGICAL PARK, CHHATBIR

(IN COLLABORATION WITH TAGORE VANASTHALI SCHOOL)

The tagorians will be observing world water day on 22 march at chhatbir zoo. So as to create awareness and to sensitize people to conserve water highlighting importance of fresh water and sustainable management of water. A drip trip rally will be organized by tagorians. The itinerary includes demonstration through placards with catchy slogans, taking vows to save water, rap singing, distribution of bookmarks thereby spreading the message of importance of water.





DRIP TRIP

A CAMPAIGN ON WORLD WATER DAY

AT MC ZOOLOGICAL PARK, CHHATBIR

(IN COLLABORATION WITH TAGORE VANASTHALI SCHOOL)

THE TAGORIANS WILL BE OBSERVING WORLD WATER DAY
ON 22 MARCH AT CHHATBIR ZOO.

SO AS TO CREATE AWARENESS AND TO SENSITIZE PEOPLE TO CONSERVE WATER HIGHLIGHTING IMPORTANCE OF FRESH WATER AND SUSTAINABLE MANAGEMENT OF WATER. A DRIP TRIP RALLY WILL BE ORGANIZED BY TAGORIANS. THE ITINERARY INCLUDES DEMONSTRATION THROUGH PLACARDS WITH CATCHY SLOGANS, TAKING VOWS TO SAVE WATER, RAP SINGING, DISTRIBUTION OF BOOKMARKS THEREBY SPREADING THE MESSAGE OF IMPORTANCE OF WATER.



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 behaviour 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.

Radish 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 gives for liking to all herbivores.

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

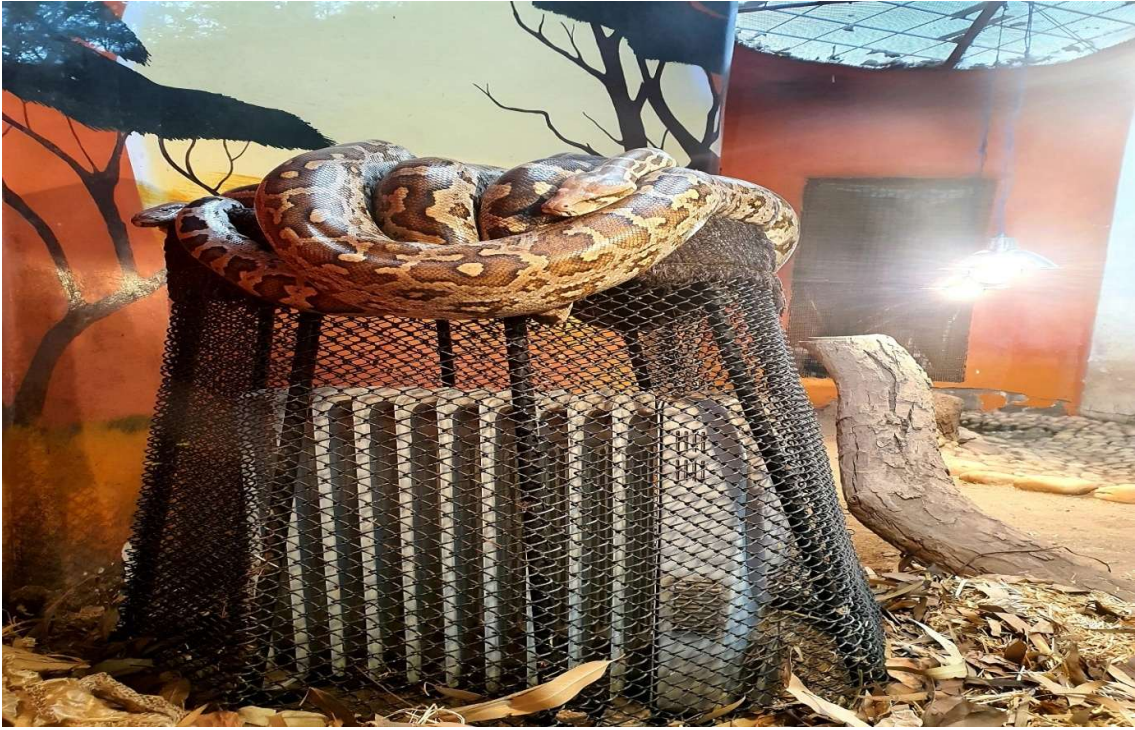
Jaggery (Gur) 20 gm to each monkey every day during harsh winters

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	Date and period of research	Name of the institution of the Researcher
1.	Dr. Arshvarinder Singh Virk	NDVSU, Jabalpur, Madhya Pradesh	29-07-2020	Health Management Practices and Prevalence of Parasitic Infestation in Carnivores of Chhatbir Zoo
2.	Shubham Saini	“Development of Smartphone application for identification of Blackbuck from Pugmarks”	26-03-2021 for 2 months	Head of school of Bio engineering and Bio science, Lovely Professional University.

23. Animal acquisition / transfer / exchange during the year

Acquisition					
Sr. No.	Animal Name	No.	Acquisition by exchange	Date	Remarks
1	BENGAL TIGER FEMALE	1	Acquisition through Exchange	01.07.2020	Acquired from Bilaspur Zoo
2	WHITE BUCK	5	Acquisition through Exchange	27.10.2020	Animal acquired on 27.10.2020 from National Zoological Park, Delhi vide animal exchange approved by CZA letter no. F.No.23-5/2019-CZA (pt)(PKR) dated 02.07.2020 and FD Zoo letter no. 3390-92 dated 21.10.2020 and 3425-28 dated 23.10.2020
3	SILVER PHEASANT	2	Acquisition through Exchange	27.10.2020	
4	INDIAN FOX	2	Acquisition through Exchange	27.10.2020	
5	PALM CIVET	4	Acquisition through Exchange	27.10.2020	
6	JUNGLE CAT	1	Acquisition through Exchange	27.10.2020	
Transfer					
Sr. No.	Species Name	No.	Acquisition by Transfer	Date	Remarks
1	BANGAL TIGER FEMALE	1	Transfer	01.07.2020	Two female Bengal Tigers transferred to Ludhiana Zoo



2	BENGAL FEMALE TIGER	1	Transfer	01.07.2020	Ludhiana
3	WILD BOAR	5	Transfer	28.10.2020	Animals transferred on 28.10.2020 to National Zoological Park, Delhi vide animal exchange approved by CZA letter no. F.No.23-5/2019-CZA (pt) (PKR) dated 02.07.2020 and FD Zoo letter no. 3390-92 dated 21.10.2020 and 3425-28 dated 23.10.2020
4	COMB DUCK	10	Transfer	28.10.2020	
5	BLACK PARTRIDGE	2	Transfer	28.10.2020	
6	GREY PARTRIDGE	2	Transfer	28.10.2020	
7	DOVE	10	Transfer	28.10.2020	
8	JUNGLE CAT	1	Transfer	28.10.2020	
9	RING NECKED PHEASANT	2	Transfer		

Rescue and Rehabilitation of wild animals carried out by the Zoo

Sr. No.	Species	Number	Acquisition by rescue	Date	Remarks
1	JACKAL	1	Rescued	01.04.2020	It was rescued by the staff of DFO (WL), Ropar (Mohali Wildlife Range). Animal was not in healthy condition and kept in isolation under Veterinary care.
2	JUNGLE CAT	1	Rescued	25.04.2020	It was rescued by the staff of DFO, Sangrur. Animal was not in healthy condition and kept in isolation under Veterinary care.



24. Annual Inventory of animals (2020-2021)
MAHENDRA CHAUDHARY ZOOLOGICAL PARK, CHHATBIR, PUNJAB
INVENTORY OF WILD ANIMALS AND BIRDS BETWEEN 01.04.2020 TO 31.03.2021
SCHEDULE I OF WILDLIFE (PROTECTION ACT, 1972)

Sr. No.	Species	Scientific Name	Position as on 01.04.2021				Birth			Acquisition by Rescue/gift			Acquisition by Transfer			Disposal by Death			Disposal by Transfer			Position as on 31.03.2022					
			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	PEAFOWL INDIAN	Pavo cristatus	5	3	0	8	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	3	4	12
2	PEAFOWL WHITE	Pavo cristatus	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3	
3	KALEEJ PHEASANT	Lophura leucomelanos	2	3	0	5	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	2	7	
Total Birds			9	7	0	16	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	9	7	6	22	
MAMMALS																											
1	BLACK BUCK	Antelope cervicapra	9	14	14	37	0	0	8	0	0	0	0	0	0	2	1	0	0	0	0	7	13	22	42		
2	WHITE BUCK	Antelope cervicapra	2	3	1	6	0	0	1	0	0	0	2	3	0	0	0	0	0	0	0	4	6	2	12		
3	CHINKARA	Gazella bennetti	4	3	1	8	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	3	3	3	9		
4	DEER BROW ANTLERED	Cervus eldi	2	2	3	7	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	2	4	8		
5	DEER SWAMP	Cervus duavauceli	2	6	4	12	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	2	6	7	15		
6	ELEPHANT INDIAN	Elephus maximus	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3		
7	LEOPARD	Panthera pardus	2	3	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	5		
8	LIONS INDIAN	Panthera leo persica	3	4	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	0	7		
9	MACAQUE LION TAILED	Macaca silenus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10	TIGER BENGAL	Panthera tigris tigris	2	2	3	7	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	2	1	3	6		
11	FOUR HORNED	Tetracerus quadricornis	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1		



12	GAUR (Indian Bison)	Bos gaurus	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
13	LEOPARD CAT	Felis bengalensis	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
14	WHITE TIGER	Panthera tigris tigris	1	2	0	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	2
15	MOUSE DEER	Trangulaus meminna	1	4	1	6	0	0	1	0	0	0	0	0	0	2	1	0	0	0	0	1	2	1	0	4
16	OTTER SMOOTH COATED	Lutrogale perspicillata	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2
17	INDIAN WOLF	Canis lupus	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	3
	Total		32	51	27	110	0	0	1	0	0	0	2	4	0	4	3	1	0	2	0	32	48	51	0	131

MAHENDRA CHAUDHARY ZOOLOGICAL PARK, CHHATBIR, PUNJAB
INVENTORY OF WILD ANIMALS AND BIRDS BETWEEN 01.04.2020 TO 31.03.2021
SCHEDULE I OF WILDLIFE (PROTECTION ACT, 1972)

Sr. No.	Species	Scientific Name	Position as on 01.04.2021				Birth			Acquisition by Rescue/gift			Acquisition by Transfer			Disposal by Death			Disposal by Transfer			Position as on 31.03.2022				
			M	F	U	Total	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	Total	
REPTILES																										
1	GHARIAL	Gavialis gangeticus	1	3	14	18	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	1	14	16	
2	CROCODILE	Crocodilus palustris	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
3	PYTHON (Indian rock)	Python molurus molurus	0	0	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7	
4	BENGAL MONITOR	Varanus bengalensis	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	
5	YELLOW MONITOR LIZARD	Varanus flavescens	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
6	INDIAN FLAP SHELL	Lissemys punctata	0	0	21	21	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	21	21	
7	INDIAN SOFT SHELL TURTLE	Nilssonia gangetica	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	



8	INDIAN ROOFED TURTLE	Pangshura tecta	1	3	9	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	9	13
9	INDIAN SPOTTED TURTLE	Geoclemys hamiltonii	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
	Total		4	6	57	67	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	4	4	57	65

MAHENDRA CHAUDHARY ZOOLOGICAL PARK, CHHATBIR, PUNJAB
INVENTORY OF WILD ANIMALS AND BIRDS BETWEEN 01.04.2020 TO 31.03.2021
SCHEDULE II OF WILDLIFE (PROTECTION ACT, 1972)

Sr. No.	Species	Scientific Name	Position as on 01.04.2021				Birth			Acquisition by Rescue/gift			Acquisition by Transfer			Disposal by Death			Disposal by Transfer			Position as on 31.03.2022			
			M	F	U	Total	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	Total
REPTILES																									
1	BEAR HIMALYAN BLACK	<i>Selenarchos thibetanus</i>	0	3	0	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	12
2	BEAR SLOTH	<i>Melursus ursinus</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
3	CIVET	<i>Paradoxurus hemaphroditus</i>	0	1	4	5	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	3	4	9
4	JACKAL	<i>canis aureus</i>	1	3	1	5	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	3	2	6
5	LANGUR COMMON	<i>Presbytis entellus</i>	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
6	MACAQUE ASSAMESE	<i>Macaca assamensis</i>	11	1	0	12	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	9	1	0	10
7	MACAQUE	<i>Macaca radiate</i>	5	1	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	1	0	6



	BONNET																								
8	MACAQUE RHEBUS	<i>Macaca mulatta</i>	5	1	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	1	0	6
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	2	2	0	4
10	JUNGLE CAT	<i>Felis chaos</i>	1	1	0	2	0	0	0	0	0	1	1	0	0	1	0	0	0	1	0	1	0	1	2
11	INDIAN GREY MONGOOSE	<i>Herpestes edwardsi</i>	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
12	INDIAN FOX	<i>Vulpes bengalensis</i>	1	1	0	2	0	0	2	0	0	0	1	1	0	0	0	0	0	0	0	2	2	2	6
	Total		29	18	7	54	0	0	2	0	0	2	4	3	0	3	1	0	0	1	0	30	19	11	60
	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	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	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	2	2
	Total		0	0	12	12	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 01.04.2020 TO 31.03.2021
SCHEDULE III& IV OF WILDLIFE (PROTECTION ACT, 1972)

Sr. No.	Species	Scientific Name	Position as on 01.04.2021				Birth			Acquisition by Rescue/gift			Acquisition by Transfer			Disposal by Death			Disposal by Transfer			Position as on 31.03.2022			
			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	Grus antigone	5	5	2	12	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5	5	3	13
2	DOVE	Streptopelia chinensis	15	15	9	39	0	0	0	0	0	0	0	0	0	0	0	5	5	0	10	10	9	29	
3	DUCK SPOT BILL	Anas poecilorhyncha	9	9	3	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9	3	21	
4	DUCK COMBED	Sarkidiornis melanotos	10	10	10	30	0	0	0	0	0	0	0	0	0	0	2	5	5	0	5	5	8	18	
5	FOWL RED JUNGLE	Gallus gallus	20	20	8	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	28	15	63	
6	PARAKEET ROSE RINGED	Psittacula krameri	20	28	0	48	0	0	15	0	0	0	0	0	0	0	0	0	0	0	20	20	12	52	
7	PARAKEET ALEXANDRINE	Psittacula eupatria	10	10	3	23	0	0	4	0	0	0	0	0	0	0	0	0	0	0	10	10	7	27	
8	PARAKEET BLOSSOM HEADED	Psittacula roseate	5	5	3	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	3	13	
9	PARTRIDGES GREY	Francolinus	0	0	3	3	0	0	6	0	0	0	0	0	0	0	2	0	0	2	0	0	5	5	
10	PARTRIDGES BLACK	Francolinus francolinus	0	0	12	12	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	9	9	
11	PELICANS ROSY	Pelecanus philipensis	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	
12	QUAIL COMMON	Coturnix coturnix	0	0	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7	



13	STORK BLACK NECKED	Xenorhynchus asiaticus	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
14	STORK PAINTED	Mycteria leucocephala	50	50	9	109	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	50	50	19	119
15	STORK WHITE	Ciconia ciconia	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
16	SHIKARA	Accipiter badius	1	1	3	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	5
17	BARNOWL	Tyto alba	0	0	13	13	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	8	8
18	GREAT HORNED OWL	Bubo bubo	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
19	BLACK KITE	Milvus migrans	0	0	6	6	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	5	5
20	WHITE IBIS	Threskiornis melanocephala	3	3	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	0	6
21	WOOLY NECKED STORK	Ciconia episcopus	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
22	COMMON MOORHEN	Gallinula chloropus	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
23	WHITE BREASTED WATERHEN	Amaurornis phoenicurus	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
24	CATTLE EGRET	Bubulcus ibis	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
25	INDIAN POND HERON	Ardeola grayii	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
26	NIGHT HERON	Nycticorax nycticorax	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
27	LESSER COUCAL	Centropus bengalensis	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
28	COMMON MYNA	Acridotheres tristis	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
29	JUNGLE BABBLER	Turdoides straitus	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
30	WEAVER BIRD	Polceus philippinus	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
31	SPOONBILL WHITE	Platalea leucorodia	0	0	3	3	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	1
32	LESSER WHISTLING TEAL	Dendrocygna javanica	5	5	4	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	4	14
33	GREY PELICAN	Dendrocygna	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4



34	CHUKOR PARTRIDGES	javanica Alectoris chukar	4	4	0	8	0	0	8	0	0	0	0	0	0	0	0	3	0	0	0	4	4	5	13
35	ROFOUS TREE PIE	Dendrocitta vagabunda	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
36	WATER RAIL	Rallus aquaticus	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
37	RUDY SHELDUCK	Tadorna ferruginera	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
38	GREYLAG GOOSE	Anser anser	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
39	PINTAIL	Anas acuta	1	1	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1
40	BIRD OF PREY	Unidentified	0	0	2	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
Total			162	168	139	469	0	0	48	0	0	0	0	0	0	1	18	10	10	4	152	157	165	474	

MAHENDRA CHAUDHARY ZOOLOGICAL PARK, CHHATBIR, PUNJAB
INVENTORY OF WILD ANIMALS AND BIRDS BETWEEN 01.04.2020 TO 31.03.2021
SCHEDULE III & IV OF WILDLIFE (PROTECTION ACT, 1972)

Sr. No.	Species	Scientific Name	Position as on Birth 01.04.2021				Acquisition by Rescue/gift			Acquisition by Transfer			Disposal by Death			Disposal by Transfer			Position as on 31.03.2022					
			M	F	U	Total	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	Total		
MAMMALS																								
1	BLUE BULL	Boselaphus tragocamelus	0	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	5
2	DEER BARKING	Muntiacus muntjak	10	13	0	23	0	0	4	0	0	0	0	0	0	0	0	0	0	0	10	13	4	27
3	DEER HOG	Axis porcinus	10	19	0	29	0	0	8	0	0	0	0	0	3	0	0	0	0	0	7	19	8	34
4	DEER SAMBAR	Cervus unicolor	20	50	14	84	0	0	40	0	0	0	0	0	6	8	1	0	0	0	14	42	53	109
5	DEER SPOTTED	Axis axis	30	60	37	127	0	0	85	0	0	0	0	0	8	3	1	0	0	0	22	57	121	200
6	HYENA	Hyaena hyaena	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
7	PORCUPINE	Hystrix indica	0	0	42	42	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	40	40
8	GORAL	Nemorhaedus goral	1	4	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	0	5
9	WILD BOAR	Sus scofa	8	8	3	19	0	0	0	0	0	0	0	1	0	0	2	3	0	5	5	3	13	13
TOTAL			80	160	96	336	0	0	137	0	0	0	0	0	18	11	4	2	3	0	60	146	229	435
REPTILES																								



1	BLACK HEADED ROYAL SNAKE	Spalerosophis diadema	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	Geochelone elegans	0	0	6	6	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	5	5
	TOTAL		0	0	8	8	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	7	7	

MAHENDRA CHAUDHARY ZOOLOGICAL PARK, CHHATBIR, PUNJAB
INVENTORY OF WILD ANIMALS AND BIRDS BETWEEN 01.04.2020 TO 31.03.2021
SCHEDULE V, VI & OTHERS OF WILDLIFE (PROTECTION ACT, 1972)

Sr. No.	Species	Scientific Name	Position as on 01.04.2021				Birth			Acquisition by Rescue/gift			Acquisition by Transfer			Disposal by Death			Disposal by Transfer			Position as on 31.03.2022				
			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	Pteropus giganteus	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

MAHENDRA CHAUDHARY ZOOLOGICAL PARK, CHHATBIR, PUNJAB
INVENTORY OF WILD ANIMALS AND BIRDS BETWEEN 01.04.2020 TO 31.03.2021
EXOTIC & OTHERS

Sr. No.	Species	Scientific Name	Position as on 01.04.2021				Birth			Acquisition by Rescue/gift			Acquisition by Transfer			Disposal by Death			Disposal by Transfer			Position as on 31.03.2022				
			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	Dromiceius	8	8	5	21	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	8	8	4	20
2	COCKATOO SULPHUR CRESTED	Kokatoe galerita	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1



3	COCKTIEL GREY	Nymphicus hollandicus	10	10	4	24	0	0	10	0	0	0	0	0	0	0	2	0	0	0	10	10	12	32
4	BUDGERIGAR	Melopsittacus undulates	100	100	15	215	0	0	6	0	0	0	0	0	0	0	11	0	0	0	100	100	10	210
5	PHEASANT RING NECKED	Phasianus cochicus	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0	2
6	PHEASANT GOLDEN	Chrysolophus pictus	3	5	0	8	0	0	3	0	0	0	0	0	1	2	0	0	0	0	2	3	3	8
7	PHEASANT SILVER	Lophura nyctemerus	1	2	0	3	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2	3	0	5
8	LADY AHMREST PHEASANT	Chrysolophus amherstiae	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
9	ZEBRA FINCHES	Taeniopygia guttata	5	5	14	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	14	24
10	BLACK SWAN	Cygnus atratus	1	1	0	2	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
11	LOVE BIRD	Agopornis	0	0	4	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
12	GEESE COMMON	Anser gene	0	0	59	59	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	58	58
13	OSTRICH	Struthio camelus	3	3	0	6	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2	2	0	4
14	JAWA SPARROW	Lonchura oryzivora	6	6	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6	0	12
15	DIAMOND DOVE	Geopelia coneata	5	5	7	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	7	17
16	BLUE & GOLD MACAW	Ara ararauna	1	1	6	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	6	8
17	SUN CONURE	Aratinga solstitialis	4	4	3	11	0	0	0	0	0	0	0	0	0	3	0	0	0	0	4	4	0	8
18	JANDAY CONURE	Aratinga jandaya	4	4	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	0	8
19	PINAPLE CONURE	Aratinga	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
20	GREEN CHECKED CONURE	Aratinga	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
21	GALAH COCKATOO	Ecolophus roseicapilla	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
22	UMBRELLA COCKATOO	Cacatua alba	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
23	AFRICAN GREY PARROT	Psittacus erithacus	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1



24	ECLECTUS PARROT	Eclectus roratus	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
25	GREEN WINGED MACAW	Ara choropectus	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
	TOTAL		154	157	127	438	0	0	20	0	0	0	1	1	0	3.	4	19	1	1	0	151	153	128	432

MAHENDRA CHAUDHARY ZOOLOGICAL PARK, CHHATBIR, PUNJAB
INVENTORY OF WILD ANIMALS AND BIRDS BETWEEN 01.04.2020 TO 31.03.2021
EXOTIC & OTHERS

Sr. No.	Species	Scientific Name	Position as on 01.04.2021				Birth			Acquisition by Rescue/gift			Acquisition by Transfer			Disposal by Death			Disposal by Transfer			Position as on 31.03.2022			
			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	Hippopotamus amphibus	1	2	0	3	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	2	0	3
2	JAGUAR	Panthera onca	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
3	HAMADRYAS BABOON SACRED	Papio hamadryas	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
4	MARMOSET	Callithrix jacchus	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
5	FOX SQUIRREL	Sciurus niger	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	TOTAL MAMMALS		3	3	2	8	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	3	3	1	7
OTHER REPTILES																									
1	GREEN IGUANA	Iguana iguana	0	2	9	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	8
2	RED IGUANA	Iguana iguana	0	0	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
3	RED EAR SLIDER	Trachemys scripta elegans	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
	TOTAL		0	2	16	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	14	15	
	TOTAL ANIMALS (Schedule I to VI &		473	572	495	1540	0	0	229	0	0	2	7	8	0	28	23	45	13	17	4	439	540	677	1656



Others/Exotic)

MAHENDRA CHAUDHARY ZOOLOGICAL PARK, CHHATBIR, PUNJAB

Summary of Death Report M.C. Zoological Park Chhatbir during 01.04.2020 TO 31.03.2021

Sr. No.	Animal Name	Scientific name	Sex	No.	Date	Cause of Death
1	Chakur	<i>Alectoris chukar</i>	Unk	1	06.04.2020	Traumatic Shock
2	White Tiger	<i>Panthera tigris tigris</i>	Male	1	23.04.2020	Chronic Renal Faliure
3	Golden Pheasant	<i>Chrysolophus pictus</i>	Female	1	10.05.2020	Cardiovascular Shock
4	Sulpher crested cockattoo	<i>Kakokatoe galerita</i>	Unk	1	16.05.2020	Cardiovascular Shock
5	Spotted deer	<i>Axis axis</i>	Male	1	21.05.2020	Internal haemorrhage
6	Assamesse macaque	<i>Macaca assamensis</i>	Male	1	26.05.2020	Pulmonary insufficiency
7	Spotted deer	<i>Axis axis</i>	Male	1	26.05.2020	Internal haemorrhage
8	Chinkara	<i>Gazella bennetti</i>	Male	1	07.06.2020	Myopathy Complicated with internal haemorrhage
9	Ostrich	<i>Struthio camelus</i>	Male	1	11.06.2020	Multiple organ faliure
10	Emu	<i>Dromiceius novahollandiae</i>	Unk	1	20.06.2020	Internal haemorrhage
11	Mouse Deer	<i>Tragolhus meminna</i>	Female	1	22.06.2020	Cardiovascular Shock
12	Gharial	<i>Gavialis gageticus</i>	Female	1	28.06.2020	Hepatitis and renal insufficiency
13	Ostrich	<i>Struthio camelus</i>	Female	1	29.06.2020	Myopathy due to neck injury
14	Mouse Deer	<i>Tragulus meminna</i>	Female	1	04.07.2020	Diffused necrotic hepatitis
15	Himalayan Beer	<i>Selenarchos thibetanus</i>	Female	1	16.07.2020	Hepatitis complicated by pulmonary lesions



16	Black Swan	<i>Cygnus atratus</i>	Female	1	21.07.2020	Respiratory Distress
17	Porcupine	<i>Hystrix indica</i>	Unk	1	23.07.2020	Traumatic shock
18	Sun Conure	<i>Aratinga solstitialis</i>	Unk	1	24.07.2020	Senile changes of internal organs
19	Comb Duck	<i>Sarkidiornis melanotos</i>	Unk	1	28.07.2020	Senile changes of internal organs
20	Samabr	<i>Cervus unicolor</i>	Male	1	08.08.2020	Senile changes of internal organs
21	Hog Deer	<i>Axis porcinus</i>	Male	1	11.08.2020	Traumatic head injury leading to cardiovascular shock
22	Pin Tail	<i>Anas acuta</i>	Female	1	13.08.2020	Senile changes of internal organs
23	Spotted Deer	<i>Axis axis</i>	Male	1	16.08.2020	Senile changes of internal organs
24	Cockteil	<i>Nymphicus hollandicus</i>	Unk	1	17.08.2020	Hemorrhagic enteritis
25	Spotted Deer	<i>Axis axis</i>	Male	1	20.08.2020	Internal hemorrhage
26	Sambar	<i>Cervus unicolor</i>	Male	1	23.08.2020	Senile changes of internal organs
27	Sambar	<i>Cervus unicolor</i>	Male	1	26.08.2020	Internal hemorrhage
28	Bird of Prey	<i>unidentified</i>	Unk	1	27.08.2020	Acute respiratory distress
29	Spotted Deer	<i>Axis axis</i>	Female	1	03.09.2020	Internal bleeding due to infighting
30	Hog Deer	<i>Axis porcinus</i>	Male	1	03.09.2020	Pneumonitis
31	Sambar	<i>Cervus unicolor</i>	Female	1	04.09.2020	Chronic pulmonary lesions and degenerative senility
32	Cockteil	<i>Nymphicus hollandicus</i>	Unk	1	05.09.2020	Chronic degenerative lesions
33	Sambar	<i>Cervus unicolor</i>	Female	1	10.09.2020	Chronic pulmonary lesions
34	Sambar	<i>Cervus unicolor</i>	Female	1	14.09.2020	Hemorrhagic shock



35	Porcupine	<i>Hystrix indica</i>	Unk	1	16.09.2020	Hemorrhagic shock due to infighting
36	Sambar	<i>Cervus unicolor</i>	Male	1	17.09.2020	Chronic degenerative pulmonary lesions
37	Sambar	<i>Cervus unicolor</i>	Female	1	21.09.2020	Degenerative pneumonitis
38	Sambar	<i>Cervus unicolor</i>	Female	1	24.09.2020	Cardiovascular shock caused by respiratory insufficiency
39	Comb Duck	<i>Sarkidiornis melanotos</i>	Unk	1	25.09.2020	Seline changes of internal organs
40	Spotted Deer	<i>Axis axis</i>	Male	1	27.09.2020	Internal hemorrhage caused by infighting
41	Black buck	<i>Antelope cervicapera</i>	Female	1	04.10.2020	Senile changes of internal organs
42	Golden pheasant	<i>Chrysolophus pictus</i>	Male	1	09.10.2020	Anaphylactic Reaction
43	Sambar	<i>Cervus unicolor</i>	Male	1	12.10202	Unknown cause
44	Spotted Deer	<i>Axis axis</i>	Female	1	13.10.2020	Respiratory Distresss
45	Assamese macaque	<i>Macaca assamensis</i>	Male	1	15.10202	Senile changes of internal organs
46	Golden Pheasant	<i>Chrysolophus pictus</i>	Female	1	19.10.2020	Suppurative enteritis
47	Sambar	<i>Cervus unicolor</i>	Female	1	22.10.2020	Traumatic shock
48	Black buck	<i>Antelope cervicapera</i>	Male	1	22.10.2020	Hypoglycemic shock
49	Sambar	<i>Cervus unicolor</i>	Female	1	24.10.2020	Internal Haemorrhage
50	Spotted deer	<i>Axis axis</i>	Male	1	30.10.2020	Hemorrhagic Shock
51	Budgrigar	<i>Melopsittacus undulates</i>	Unk	1	01.11.2020	Chronic Respiratory lesions
52	Hog Deer	<i>Axis porcinus</i>	Male	1	02.11.2020	Internal Haemorrhage
53	Budgrigar	<i>Melopsittacus undulates</i>	Unk	1	02.11.2020	Hypothermic shock



54	Budgrigar	<i>Melopsittacus undulates</i>	Unk	1	06.11.2020	Hypothermic shock
55	Spotted Deer	<i>Axis axis</i>	Male	1	06.11.2020	Hemorrhagic Shock
56	Budgrigar	<i>Melopsittacus undulates</i>	Unk	1	08.11.2020	Hypothermic shock
57	SunConure	<i>Aratinga solstitialis</i>	Unk	1	08.11.2020	Traumatic stress
58	Budgrigar	<i>Melopsittacus undulates</i>	Unk	1	10.11.2020	Traumatic shock
59	Budgrigar	<i>Melopsittacus undulates</i>	Unk	1	11.11.2020	Traumatic shock
60	Barn Owl	<i>Tyto alba</i>	Unk	1	14.11.2020	Liver Necrosis
61	Barn Owl	<i>Tyto alba</i>	Unk	1	15.11.2020	Liver Necrosis
62	Barn Owl	<i>Tyto alba</i>	Unk	1	15.11.2020	Liver Necrosis
63	Green Iguana	<i>Iguana iguana</i>	Unk	1	15.11.2020	Acute Hepatitis
64	Barn Owl	<i>Tyto alba</i>	Unk	1	16.11.2020	Respiratory Distresss
65	Barn Owl	<i>Tyto alba</i>	Unk	1	16.11.2020	Respiratory Distresss
66	Sambar	<i>Cervus unicolor</i>	Female	1	19.11.2020	Senile changes of internal organs
67	Budgrigar	<i>Melopsittacus undulates</i>	Unk	1	26.11.2020	Traumatic shock
68	Budgrigar	<i>Melopsittacus undulates</i>	Unk	1	28.11.2020	Traumatic shock
69	Black buck	<i>Antelope cervicapera</i>	Male	1	29.11.2020	Hemorrhagic Enteritis
70	Chakur partridge	<i>Alectoris chukar</i>	Unk	1	01.12.2020	Traumatic Injury
71	Spotted Deer	<i>Axis axis</i>	Female	1	02.12.2020	Acute Respiratory Distress
72	Budgrigar	<i>Melopsittacus undulates</i>	Unk	1	03.12.2020	Traumatic shock



73	Black partridge	<i>Francolinus francolinus</i>	Male	1	04.12.2020	Traumatic head Injury
74	Sambar	<i>Cervus unicolor</i>	Unk	1	05.12.2020	Internal Haemorrhage
75	Budgrigar	<i>Melopsittacus undulates</i>	Unk	1	08.12.2020	Acute Respiratory Distress
76	Wild boar	<i>Sus scrofa</i>	Male	1	09.12.2020	Internal Haemorrhage
77	SunConure	<i>Aratinga solstitialis</i>	Unk	1	10.12.2020	Traumatic Injury
78	Chakur partridge	<i>Alectoris chukar</i>	Unk	1	16.12.2020	Acute Respiratory Distress
80	Sambar	<i>Cervus unicolor</i>	Male	1	18.12.2020	Senile changes of internal organs
81	Birds of prey	<i>Unidentified</i>	Unk	1	31.12.2020	Acute Respiratory Distress
82	Star tortoise	<i>Geochelone elegans</i>	Unk	1	31.12.2020	Acute Respiratory Insufficiency
83	*Blue Bull	<i>Boselaphus tragocamelus</i>	Male	1	01.01.2021	Pneumonitis
84	Grey Partridge	<i>Francolinus pondicerianus</i>	Unk	1	05.01.2021	Shock caused by night fright
85	Grey Partridge	<i>Francolinus pondicerianus</i>	Female	1	06.01.2021	Shock caused by night fright
86	Mouse Deer	<i>Tragulus meminna</i>	Unk	1	11.01.2021	Respiratory failure caused by peneumonitis
87	Spotted Deer	<i>Axis axis</i>	Male	1	16.01.2021	Acute Respiratory Distress
88	Spotted Deer	<i>Axis axis</i>	Unk	1	20.01.2021	Cardiovascular Shock
89	Jungle Cat	<i>Felis chaos</i>	Male	1	28.01.2021	Hemorrhagic enteritis
90	Green Iguana	<i>Iguana iguana</i>	Unk	1	08.02.2021	Hepatitis
91	Indian Geese	<i>Anser gene</i>	Unk	1	06.02.2021	Traumatic shock
92	Gharial	<i>Gavialis gangeticus</i>	Female	1	10.02.2021	Acute Peritonitis



93	Black Swan	<i>Cygnus atratus</i>	Male	1	17.02.2021	Serous Pneumonia
94	*Gharial	<i>Gavialis gangeticus</i>	Female	1	20.02.2021	Acute Pneumonitis
95	Green Iguana	<i>Iguana iguana</i>	Female	1	26.02.2021	Peritonitis
96	Black Kite	<i>Milvus migrans</i>	Unk	1	18.03.2021	Shock caused by night fright
97	Budgreigar	<i>Melopsittacus undulates</i>	Unk	1	27.03.2021	Shock caused by night fright
98	Eurasian SpoonBill	<i>Platalea leucorodia</i>	Unk	1	29.03.2021	Senile changes of internal organs
				98		



MAHENDRA CHAUDHARY ZOOLOGICAL PARK, CHHATBIR, PUNJAB					
BIRTHS OF LIVE STOCK INVENTORY OF CHHATBIR ZOO BETWEEN 01.04.2020 TO 31.03.2021					
Sr. No	Animal Name	No.	Event	Date	Remarks
1	Peafowl	4	Birth	05.04.2020	Aviary
2	Kalij pheasant	2	Birth	20.04.2020	Aviary
3	Black buck	2	Birth	24.04.2020	Deer Safari
4	Swamp deer	1	Birth	25.04.2020	Swamp Deer complex
5	R.J.F	15	Birth	13.05.2020	Aviary
6	Rose ringed parakeet	4	Birth	16.05.2020	Aviary
7	Alexandrine parakeet	4	Birth	19.05.2020	Aviary
8	Chakur	8	Birth	21.05.2020	Aviary
9	Golden pheasant	3	Birth	06.06.2020	Aviary
10	Barking deer	2	Birth	07.06.2020	Small deer complex
11	Hog deer	2	Birth	09.06.2020	Swamp Deer complex
12	Sambar	6	Birth	11.06.2020	Deer Safari
13	Spotted deer	6	Birth	13.06.2020	Deer Safari
14	Cocateal grey	4	Birth	16.06.2020	Aviary
15	Fox	2	Birth	20.06.2020	Cat complex
16	Spotted Deer	1	Birth	02.07.2020	Deer Safari
17	Spotted Deer	2	Birth	05.07.2020	Deer Safari



18	Sarus crane	1	Birth	05.07.2020	Aviary
19	Sambar	1	Birth	07.07.2020	Deer Safari
20	Sambar	1	Birth	08.07.2020	Deer Safari
21	Spotted Deer	2	Birth	10.07.2020	Deer Safari
22	Sambar	1	Birth	11.07.2020	Deer Safari
23	Sambar	1	Birth	13.07.2020	Deer Safari
24	Hog Deer	1	Birth	15.07.2020	Swamp Deer Complex
25	Spotted Deer	1	Birth	16.07.2020	Deer Safari
26	Spotted Deer	1	Birth	17.07.2020	Deer Safari
27	Sambar	1	Birth	19.07.2020	Deer Safari
28	Spotted Deer	2	Birth	19.07.2020	Deer Safari
29	Sambar	1	Birth	21.07.2020	Deer Safari
30	Spotted Deer	2	Birth	22.07.2020	Deer Safari
31	Sambar	1	Birth	23.07.2020	Deer Safari
32	Spotted Deer	1	Birth	23.07.2020	Deer Safari
33	Sambar	1	Birth	24.07.2020	Deer Safari
34	Spotted Deer	1	Birth	24.07.2020	Deer Safari
35	Spotted Deer	2	Birth	27.07.2020	Deer Safari
36	Sambar	1	Birth	28.07.2020	Deer Safari



37	Swamp Deer	1	Birth	29.07.2020	Swamp Deer Complex
38	Sambar	1	Birth	03.08.2020	Deer Safari
39	Spotted Deer	2	Birth	03.08.2020	Deer Safari
40	Spotted Deer	1	Birth	05.08.2020	Deer Safari
41	Sambar	1	Birth	07.08.2020	Deer Safari
42	Spotted Deer	1	Birth	09.08.2020	Deer Safari
43	Sambar	1	Birth	12.08.2020	Deer Safari
44	Spotted Deer	1	Birth	14.08.2020	Deer Safari
45	Spotted Deer	2	Birth	17.08.2020	Deer Safari
46	Sambar	1	Birth	19.08.2020	Deer Safari
47	Hog Deer	1	Birth	20.08.2020	Swamp Deer Complex
48	Spotted Deer	1	Birth	20.08.2020	Deer Safari
49	Spotted Deer	1	Birth	23.08.2020	Deer Safari
50	Spotted Deer	2	Birth	24.08.2020	Deer Safari
51	Sambar	1	Birth	28.08.2020	Deer Safari
52	Hog Deer	1	Birth	01.09.2020	Swamp Deer Complex
53	Spotted Deer	1	Birth	03.09.2020	Deer Safari
54	Spotted Deer	1	Birth	04.09.2020	Deer Safari
55	Sambar	1	Birth	06.09.2020	Deer Safari



56	Spotted Deer	1	Birth	07.09.2020	Deer Safari
57	Spotted Deer	1	Birth	10.09.2020	Deer Safari
58	Spotted Deer	1	Birth	12.09.2020	Deer Safari
59	Spotted Deer	2	Birth	18.09.2020	Deer Safari
60	Spotted Deer	1	Birth	24.09.2020	Deer Safari
61	Painted Stork	2	Birth	03.10.2020	Aviary
62	Cocateal	2	Birth	04.10.2020	Aviary
63	Painted Stork	2	Birth	06.10.2020	Aviary
64	Grey Partridge	2	Birth	08.10.2020	Aviary
65	Black buck	1	Birth	10.10.2020	Deer Safari
66	Sambar	2	Birth	11.10.2020	Deer Safari
67	Spotted Deer	3	Birth	13.10.2020	Deer Safari
68	Painted Stork	2	Birth	14.10.2020	Aviary
69	Mouse Deer	1	Birth	15.10.2020	Small Deer Complex
70	Hog Deer	1	Birth	15.10.2020	Swamp Deer Complex
71	Sambar	1	Birth	16.10.2020	Deer Safari
72	Budgrigar	2	Birth	18.10.2020	Aviary
73	Barking deer	1	Birth	18.10.2020	Small Deer Complex
74	Hog Deer	1	Birth	19.10.2020	Swamp Deer Complex



75	Black buck	1	Birth	21.10.2020	Deer Safari
76	Sambar	2	Birth	23.10.2020	Deer Safari
77	Spotted Deer	3	Birth	23.10.2020	Deer Safari
78	Swamp Deer	1	Birth	24.10.2020	Swamp Deer Complex
79	Chinkara	1	Birth	25.10.2020	Deer Safari
80	Manipur deer	1	Birth	28.10.2020	Small Deer Complex
81	White Buck	1	Birth	31.10.2020	Zebra Complex
82	Grey Partridge	2	Birth	02.11.2020	Aviary
83	Grey Partridge	2	Birth	04.11.2020	Aviary
84	Love bird	1	Birth	07.11.2020	Aviary
85	Budgrigar	2	Birth	07.11.2020	Aviary
86	Barking deer	1	Birth	09.11.2020	Small Deer Complex
87	Cocateal	2	Birth	11.11.2020	Aviary
88	Cocateal	2	Birth	13.11.2020	Aviary
89	Sambar	2	Birth	16.11.2020	Deer Safari
90	Spotted Deer	2	Birth	16.11.2020	Deer Safari
91	Spotted Deer	3	Birth	21.11.2020	Deer Safari
92	Sambar	2	Birth	21.11.2020	Deer Safari
93	Sambar	1	Birth	22.11.2020	Deer Safari



94	Spotted Deer	1	Birth	22.11.2020	Deer Safari
95	Sambar	1	Birth	25.11.2020	Deer Safari
96	Spotted Deer	2	Birth	25.11.2020	Deer Safari
97	Budgrigar	2	Birth	28.11.2020	Aviary
98	Sambar	1	Birth	02.12.2020	Deer Safari
99	Spotted Deer	1	Birth	02.12.2020	Deer Safari
100	Spotted Deer	2	Birth	06.12.2020	Deer Safari
101	Sambar	1	Birth	07.12.2020	Deer Safari
102	Spotted Deer	2	Birth	09.12.2020	Deer Safari
103	Sambar	1	Birth	10.12.2020	Deer Safari
104	Sambar	1	Birth	12.12.2020	Deer Safari
105	Spotted Deer	1	Birth	15.12.2020	Deer Safari
106	Spotted Deer	1	Birth	16.12.2020	Deer Safari
107	Spotted Deer	1	Birth	18.12.2020	Deer Safari
108	Spotted Deer	1	Birth	20.12.2020	Deer Safari
109	Spotted Deer	1	Birth	23.12.2020	Deer Safari
110	Spotted Deer	1	Birth	24.12.2020	Deer Safari
111	Spotted Deer	1	Birth	02.01.2021	Deer Safari Complex
112	Spotted Deer	1	Birth	03.01.2021	Deer Safari Complex



113	Spotted Deer	1	Birth	05.01.2021	Deer Safari Complex
114	Spotted Deer	1	Birth	05.01.2021	Deer Safari Complex
115	Painted Stork	1	Birth	05.01.2021	Bird Aviary Complex
116	Sambar	1	Birth	05.01.2021	Deer Safari Complex
117	Black Buck	1	Birth	08.01.2021	Deer Safari Complex
118	Painted Stork	1	Birth	08.01.2021	Bird Aviary Complex
119	Chinkara	1	Birth	10.01.2021	Deer Safari Complex
120	Hog Deer	1	Birth	11.01.2021	Swamp Deer Complex
121	Spotted Deer	1	Birth	15.01.2021	Deer Safari Complex
122	Spotted Deer	1	Birth	15.01.2021	Deer Safari Complex
123	Spotted Deer	1	Birth	21.01.2021	Deer Safari Complex
124	Black Buck	1	Birth	02.02.2021	Deer Safari Complex
125	Spotted Deer	1	Birth	04.02.2021	Deer Safari Complex
126	Spotted Deer	1	Birth	08.02.2021	Deer Safari Complex
127	Spotted Deer	1	Birth	11.02.2021	Deer Safari Complex
128	Spotted Deer	1	Birth	12.02.2021	Deer Safari Complex
129	Spotted Deer	1	Birth	14.02.2021	Deer Safari Complex
130	Black Buck	1	Birth	17.02.2021	Deer Safari Complex
131	Sambar	1	Birth	19.02.2021	Deer Safari Complex



132	Spotted Deer	1	Birth	19.02.2021	Deer Safari Complex
133	Painted Stork	1	Birth	20.02.2021	Bird Aviary Complex
134	Spotted Deer	1	Birth	22.02.2021	Deer Safari Complex
135	Spotted Deer	1	Birth	24.02.2021	Deer Safari Complex
136	Painted Stork	1	Birth	26.02.2021	Bird Aviary Complex
137	Spotted Deer	1	Birth	26.02.2021	Deer Safari Complex
138	Spotted Deer	1	Birth	01.03.2021	Deer Safari Complex
139	Spotted Deer	1	Birth	04.03.2021	Deer Safari Complex
140	Sambar	1	Birth	08.03.2021	Deer Safari Complex
141	Black Buck	1	Birth	09.03.2021	Deer Safari Complex
142	Sambar	1	Birth	13.03.2021	Deer Safari Complex
143	Spotted Deer	1	Birth	14.03.2021	Deer Safari Complex
144	Spotted Deer	1	Birth	18.03.2021	Deer Safari Complex
		229			



25. Mortality of animals

Sr. No.	Animal Name	Scientific name	Sex	No.	Date	Cause of Death
1	Chakur	<i>Alectoris chukar</i>	Unk	1	06.04.2020	Traumatic Shock
2	White Tiger	<i>Panthera tigris tigris</i>	Male	1	23.04.2020	Chronic Renal Faliure
3	Golden Pheasant	<i>Chrysolophus pictus</i>	Female	1	10.05.2020	Cardiovascular Shock
4	Sulpher crested cockattoo	<i>Kakokatoe galerita</i>	Unk	1	16.05.2020	Cardiovascular Shock
5	Spotted deer	<i>Axis axis</i>	Male	1	21.05.2020	Internal haemorrhage
6	Assamesse macaque	<i>Macaca assamensis</i>	Male	1	26.05.2020	Pulmonary insufficiency
7	Spotted deer	<i>Axis axis</i>	Male	1	26.05.2020	Internal haemorrhage
8	Chinkara	<i>Gazella bennetti</i>	Male	1	07.06.2020	Myopathy Complicated with internal haemorrhage
9	Ostrich	<i>Struthio camelus</i>	Male	1	11.06.2020	Multiple organ faliure
10	Emu	<i>Dromiceius novahollandiae</i>	Unk	1	20.06.2020	Internal haemorrhage
11	Mouse Deer	<i>Tragolhus meminna</i>	Female	1	22.06.2020	Cardiovascular Shock
12	Gharial	<i>Gavialis gageticus</i>	Female	1	28.06.2020	Hepatitis and renal insufficiency
13	Ostrich	<i>Struthio camelus</i>	Female	1	29.06.2020	Myopathy due to neck injury
14	Mouse Deer	<i>Tragulus meminna</i>	Female	1	04.07.2020	Diffused necrotic hepatitis
15	Himalayan Beer	<i>Selenarchos tibetanus</i>	Female	1	16.07.2020	Hepatitis complicated by pulmonary lesions
16	Black Swan	<i>Cygnus atratus</i>	Female	1	21.07.2020	Respiratory Distress
17	Porcupine	<i>Hystrix indica</i>	Unk	1	23.07.2020	Traumatic shock
18	Sun Conure	<i>Aratinga solstitialis</i>	Unk	1	24.07.2020	Senile changes of internal organs
19	Comb Duck	<i>Sarkidiornis melanotos</i>	Unk	1	28.07.2020	Senile changes of internal organs
20	Samabr	<i>Cerves unicolor</i>	Male	1	08.08.2020	Senile changes of internal organs
21	Hog Deer	<i>Axis porcinus</i>	Male	1	11.08.2020	Traumatic head injury leading to cardiovascular shock
22	Pin Tail	<i>Anas acuta</i>	Female	1	13.08.2020	Senile changes of internal organs
23	Spotted Deer	<i>Axis axis</i>	Male	1	16.08.2020	Senile changes of internal organs
24	Cockteil	<i>Nymphicus hollandicus</i>	Unk	1	17.08.2020	Hemorrhagic enteritis
25	Spotted Deer	<i>Axis axis</i>	Male	1	20.08.2020	Internal hemorrhage
26	Sambar	<i>Cerves unicolor</i>	Male	1	23.08.2020	Senile changes of internal organs
27	Sambar	<i>Cerves unicolor</i>	Male	1	26.08.2020	Internal hemorrhage
28	Bird of Prey	<i>unidentified</i>	Unk	1	27.08.2020	Acute respiratory distress



*29	Spotted Deer	<i>Axis axis</i>	Female	1	03.09.2020	Internal bleeding due to infighting
*30	Hog Deer	<i>Axis porcinus</i>	Male	1	03.09.2020	Pneumonitis
*31	Sambar	<i>Cervus unicolor</i>	Female	1	04.09.2020	Chronic pulmonary lesions and degenerative senility
32	Cockteil	<i>Nymphicus hollandicus</i>	Unk	1	05.09.2020	Chronic degenerative lesions
33	Sambar	<i>Cervus unicolor</i>	Female	1	10.09.2020	Chronic pulmonary lesions
34	Sambar	<i>Cervus unicolor</i>	Female	1	14.09.2020	Hemorrhagic shock
35	Porcupine	<i>Hystrix indica</i>	Unk	1	16.09.2020	Hemorrhagic shock due to infighting
36	Sambar	<i>Cervus unicolor</i>	Male	1	17.09.2020	Chronic degenerative pulmonary lesions
37	Sambar	<i>Cervus unicolor</i>	Female	1	21.09.2020	Degenerative pneumonitis
38	Sambar	<i>Cervus unicolor</i>	Female	1	24.09.2020	Cardiovascular shock caused by respiratory insufficiency
39	Comb Duck	<i>Sarkidiornis melanotos</i>	Unk	1	25.09.2020	Seline changes of internal organs
40	Spotted Deer	<i>Axis axis</i>	Male	1	27.09.2020	Internal hemorrhage caused by infighting
41	Black buck	<i>Antelope cervicapera</i>	Female	1	04.10.2020	Senile changes of internal organs
42	Golden pheasant	<i>Chrysolophus pictus</i>	Male	1	09.10.2020	Anaphylactic Reaction
43	Sambar	<i>Cervus unicolor</i>	Male	1	12.10.2020	Unknown cause
44	Spotted Deer	<i>Axis axis</i>	Female	1	13.10.2020	Respiratory Distress
45	Assamese macaque	<i>Macaca assamensis</i>	Male	1	15.10.2020	Senile changes of internal organs
46	Golden Pheasant	<i>Chrysolophus pictus</i>	Female	1	19.10.2020	Suppurative enteritis
47	Sambar	<i>Cervus unicolor</i>	Female	1	22.10.2020	Traumatic shock
48	Black buck	<i>Antelope cervicapera</i>	Male	1	22.10.2020	Hypoglycemic shock
49	Sambar	<i>Cervus unicolor</i>	Female	1	24.10.2020	Internal Haemorrhage
50	Spotted deer	<i>Axis axis</i>	Male	1	30.10.2020	Hemorrhagic Shock
51	Budgrigar	<i>Melopsittacus undulates</i>	Unk	1	01.11.2020	Chronic Respiratory lesions
52	Hog Deer	<i>Axis porcinus</i>	Male	1	02.11.2020	Internal Haemorrhage
53	Budgrigar	<i>Melopsittacus undulates</i>	Unk	1	02.11.2020	Hypothermic shock
54	Budgrigar	<i>Melopsittacus undulates</i>	Unk	1	06.11.2020	Hypothermic shock
55	Spotted Deer	<i>Axis axis</i>	Male	1	06.11.2020	Hemorrhagic Shock
56	Budgrigar	<i>Melopsittacus undulates</i>	Unk	1	08.11.2020	Hypothermic shock
57	SunConure	<i>Aratinga solstitialis</i>	Unk	1	08.11.2020	Traumatic stress
58	Budgrigar	<i>Melopsittacus undulates</i>	Unk	1	10.11.2020	Traumatic shock
59	Budgrigar	<i>Melopsittacus undulates</i>	Unk	1	11.11.2020	Traumatic shock



60	Barn Owl	<i>Tyto alba</i>	Unk	1	14.11.2020	Liver Necrosis
61	Barn Owl	<i>Tyto alba</i>	Unk	1	15.11.2020	Liver Necrosis
62	Barn Owl	<i>Tyto alba</i>	Unk	1	15.11.2020	Liver Necrosis
63	Green Iguana	<i>Iguana iguana</i>	Unk	1	15.11.2020	Acute Hepatitis
64	Barn Owl	<i>Tyto alba</i>	Unk	1	16.11.2020	Respiratory Distress
65	Barn Owl	<i>Tyto alba</i>	Unk	1	16.11.2020	Respiratory Distress
66	Sambar	<i>Cervus unicolor</i>	Female	1	19.11.2020	Senile changes of internal organs
67	Budgrigar	<i>Melopsittacus undulates</i>	Unk	1	26.11.2020	Traumatic shock
68	Budgrigar	<i>Melopsittacus undulates</i>	Unk	1	28.11.2020	Traumatic shock
69	Black buck	<i>Antelope cervicapera</i>	Male	1	29.11.2020	Hemorrhagic Enteritis
70	Chakur partridge	<i>Alectoris chukar</i>	Unk	1	01.12.2020	Traumatic Injury
71	Spotted Deer	<i>Axis axis</i>	Female	1	02.12.2020	Acute Respiratory Distress
72	Budgrigar	<i>Melopsittacus undulates</i>	Unk	1	03.12.2020	Traumatic shock
73	Black partridge	<i>Francolinus francolinus</i>	Male	1	04.12.2020	Traumatic head Injury
74	Sambar	<i>Cervus unicolor</i>	Unk	1	05.12.2020	Internal Haemorrhage
75	Budgrigar	<i>Melopsittacus undulates</i>	Unk	1	08.12.2020	Acute Respiratory Distress
76	Wild boar	<i>Sus scrofa</i>	Male	1	09.12.2020	Internal Haemorrhage
77	SunConure	<i>Aratinga solstitialis</i>	Unk	1	10.12.2020	Traumatic Injury
78	Chakur partridge	<i>Alectoris chukar</i>	Unk	1	16.12.2020	Acute Respiratory Distress
80	Sambar	<i>Cervus unicolor</i>	Male	1	18.12.2020	Senile changes of internal organs
81	Birds of prey	<i>Unidentified</i>	Unk	1	31.12.2020	Acute Respiratory Distress
82	Star tortoise	<i>Geochelone elegans</i>	Unk	1	31.12.2020	Acute Respiratory Insufficiency
83	*Blue Bull	<i>Boselaphus tragocamelus</i>	Male	1	01.01.2021	Pneumonitis
84	Grey Partridge	<i>Francolinus pondicerianus</i>	Unk	1	05.01.2021	Shock caused by night fright
85	Grey Partridge	<i>Francolinus pondicerianus</i>	Female	1	06.01.2021	Shock caused by night fright
86	Mouse Deer	<i>Tragulus meminna</i>	Unk	1	11.01.2021	Respiratory failure caused by pneumonitis
87	Spotted Deer	<i>Axis axis</i>	Male	1	16.01.2021	Acute Respiratory Distress
88	Spotted Deer	<i>Axis axis</i>	Unk	1	20.01.2021	Cardiovascular Shock
89	Jungle Cat	<i>Felis chaos</i>	Male	1	28.01.2021	Hemorrhagic enteritis
90	Green Iguana	<i>Iguana iguana</i>	Unk	1	08.02.2021	Hepatitis
91	Indian Geese	<i>Anser gene</i>	Unk	1	06.02.2021	Traumatic shock
92	Gharial	<i>Gavialis gangeticus</i>	Female	1	10.02.2021	Acute Peritonitis
93	Black Swan	<i>Cygnus atratus</i>	Male	1	17.02.2021	Serous Pneumonia



94	*Gharial	<i>Gavialis gangeticus</i>	Female	1	20.02.2021	Acute Pneumonitis
95	Green Iguana	<i>Iguana iguana</i>	Female	1	26.02.2021	Peritonitis
96	Black Kite	<i>Milvus migrans</i>	Unk	1	18.03.2021	Shock caused by night fright
97	Budgreigar	<i>Melopsittacus undulates</i>	Unk	1	27.03.2021	Shock caused by night fright
98	Eurasian SpoonBill	<i>Platalea leucorodia</i>	Unk	1	29.03.2021	Senile changes of internal organs
				98		

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 2022-21 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 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 canine's 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 2022-21 and this condition will be implemented in due course of time.
13	4	White peacock aviary is too small in dimension. Its 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 are expected shortly.
15	4	Most of the enclosures have 360 degree viewing. The viewing area should be limited to 1/3 of the	Six months	This condition is being implemented in letter and spirit and viewing area is decreased one third of the periphery of



		periphery of the enclosure.		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 signage's for whole zoo including nocturnal house is under process under project of Asian Development Bank (Trench - 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 peasantry 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 trees and shrubs.	Six months	Naturalistic enrichment by planting trees and shrubs has 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 puce 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 puce 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 records of the biological behaviour observed by them.	Immediate effect	The compliance is being done.



Veterinary and infrastructure facilities :				
28	6(1)	Zoo hospital should have requisite number of inpatient wards for herbivores and birds.	One year	Adequate numbers of wards in respect to animals, birds, reptiles and other live stocks 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 able persons.	Immediate effect	The wheel chairs are in place and ramp has been made wherever possible for facilitating differently able 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 ambiance 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 oedicnemus</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>
33	Night heron	<i>Nycticorax nycticorax</i>
34	Painted stork	<i>Mycteria leucocephalus</i>
35	White necked stork	<i>Ciconia episcopus</i>
36	Ruddy shell duck or Brahminy duck	<i>Tadorna ferruginea</i>
37	Pintail	<i>Anas acuta</i>



38	Common teal	<i>Anas Crecca</i>
39	Spot bill 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	Black winged 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>Perdicula 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	White tailed lapwing	<i>Vanellus leucurus</i>
66	Red wattle lapwing	<i>Vanellus indicus</i>
67	Black winged 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>
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 owllet	<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	Black headed 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	Red vented 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/white capped 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	Black throated weaver bird	<i>Ploceus benghalensis</i>



118	Red munia or Avadavat	<i>Estrilda amandava</i>
119	White throated 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	Checkedred keel back	<i>Xenochrophis piscator</i>
9	Common krait	<i>Bungarus caeruleus</i>

