

M.C. Zoological Park, Chhatbir, Punjab.



Annual Report for the year 2018-2019



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About M.C. Zoological Park, Chhatbir

M.C. Zoological Park, popularly known as Chhatbir Zoo is an important destination in North India for Nature lovers, Tourists, Conservationists and Wildlife enthusiasts. Fulfilling the category of large zoo, the zoo continuously adds new species into 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 popularity day by day, which is acknowledged by the upward growing visitation year by year.

In 2017-18, apart from animal exchange programmes, a world class Walk-in-Aviary has been dedicated to the public, a new feather added in the cap of Chhatbir zoo. Providing plastic free environment, hassle free ticketing system and congestion free parking facility to the public 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.*



1. **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.

2. **Vision of the Zoo:** The zoo has a generalized vision of creation of wildlife and nature related awareness to its visitors.
3. **Mission of the Zoo:** The mission of the zoo has been to educate and motivate the visitors of the zoo for better wildlife conservation values.
4. **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.

5. About us

Basic Information about the Zoo		
Sr. No.	Particulars	Information
1.	Name of the Zoo	M.C.Zoological Park, Chhatbir
2.	Year of Establishment	1977
3.	Address of the Zoo	V.P.O Chhat, Tehsil: Derabassi, District : Sahibzada Ajit Singh Nagar PIN: 140601 (PUNJAB)
4.	State	PUNJAB
5.	Telephone Number	-
6.	Fax Number	-
7.	E-mail address	mczpchhatbir@gmail.com
8.	Website	www.chhatbirzoo.gov.in
9.	Distance from nearest	Chandigarh International Airport:13 km
		Chandigarh Railway Station: 18 km
		Mohali Bus Stand: 14 km
10.	Recognition Valid upto (Date)	20.01.2019
11.	Category of zoo	Large
12.	Area (in Hectares)	202 ha.
13.	Number of Visitors (2018-19)	Adult : 630006
		Children : 238982

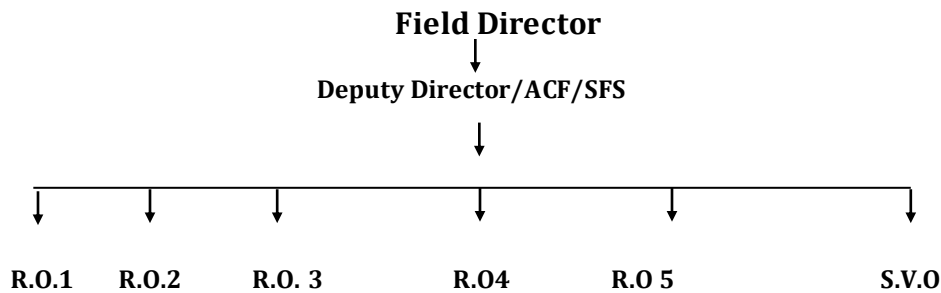


		Divyang: 1212 Below 3 Year- 14172 Total Indian : 884372 Total Foreigners : Data not available Total Visitors : 884372
14.	Visitors' Facilities Available in Zoo	<ul style="list-style-type: none"> • Battery operated vehicles: Introduced in 2009, the facility to run 16 battery operated vehicles in Chhatbir zoo has been outsourced for catering 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 IFS, Field Director
	Name of the Veterinary Officer	Dr. Ashish Kumar
	Name of the Curator	-
	Name of the Biologist	Dr. Aarti B. Chavda
	Name of the Education Officer	Mr. Harpal Singh (Additional charge)
	Name of the Compounder/Lab Assistant	Mr. Bajinder Kumar Vet. Inspector Mr. Ramdev Vet. Comp. Mr. John Denial Lab. Tech. Ms. Baljt Kaur Lab. Tech.



Owner / Operator of the Zoo		
17.	Name of the Operator	Dr. Kuldip Kumar IFS
18.	Address of the Operator	PCCF (Wildlife) cum 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	cwlwpunjab@gmail.com

6. 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, Wildlife Hospital



7. Human Resources

Manpower of the Zoo*

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



8. 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.	Senior Veterinary Officer	Recent Trends In Captive Wild Animal Management	07.01.2019 to 09.01.2019	Shri Chamarajendra Zoological Gardens, Mysuru
2.	Zoo Keepers	"Management of wild animals in captivity with special reference to improved health care and behavioral enrichment"	18.03.2019 to 22.02.2019	M.C.Zoological Park, Chhatbir, Punjab

9. Zoo Advisory Committee ----- Under Process

- a. Date of constitution
- b. Members
- c. Dates on which Meetings held during the year

10. Health Advisory Committee ----- Under Process

- a. Date of constitution
- b. Members
- c. Dates on which Meetings held during the year



11. Statement of revenue and budget of the Zoo

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

Year	2018-19
Non plan	36800000
Plan(FT)	18740000
Puncampa	25258000
Punjab Zoo Development Society	42575000
CZA	4637000
Total	128010000

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

Year	Ticket Revenue	Other revenue	Total
2018-19	42244520	23616967	65861487
Grand Total	42244520	23616967	65861487

12. Daily feed Schedule of animals

FEED CHART CHHATBIR ZOO		
Monkeys All Species		
S.No	Particulars	Qty. of Feed in K.G.
1	Banana	2 no.
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 8
2	Buff.Meat for full grown	10
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
Himalyan Black Bear		
1	Roti of Maize Crushed	0.25
2	Milk	0.5
3	Bread	0.2
4	Apple	0.3
5	Banana	3 no.
6	Papaya	0.3
7	Sweet Carrot	0.1
8	Khichri	1
Chinkara		
S.No.	Particulars	Qty. of Feed
1	Black Gram	0.25
2	Gur	0.1
3	Green fodder	5
Emu		
1	Black Gram	0.3
2	Onion	0.1
3	Garlic	0.04
4	Palak	0.2
5	Egg (Boild)	2 no.
6	Banana	20 no.
7	Papaya	2
8	Cabbage	0.2
9	Apple	0.6
10	Peas Green	0.4
11	Mixed Crushed for birds	0.4



Elephant		
1	Mix Crushed Roti	2
2	Gur	1
3	Black Gram	2
4	Banana	6 no.
5	Papaya	0.6
6	Green Fodder	250
Elephant (baby)		
1	Mix crushed roti	1
2	Gur	0.5
3	Black Gram	1
4	Banana	3 no.
5	Papaya	0.3
6	Green Fodder	50
Leopard/ Jaguar		
1	Buff.Meat	4
Civet/ Cat all species		
1	Buff.Meat	0.5
2	Egg (Boild)	1no.
3	Banana	1 no.
4	Milk	0.25
5	Papaya	0.1
Hog Deer		
1	Black Gram	0.1
2	Gur	0.1
3	Green Fodder	15
4	Cattle Feed	0.15
Jackal		
1	Buff.Meat	3
Chimpanzee		
1	Sugar	0.1



2	Banana	10 no.
3	Apple	0.75
4	Palak	0.2
5	Carrot	0.25
6	Egg (Boild)	1no.
7	Onion	0.1
8	Milk	0.5
9	Bread	0.2
10	Cucumbar	0.25
11	Cabbage	0.2
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
Kaliz pheasant		
1	Mix Crushed for Birds	0.1
2	Palak	0.05
3	Wheat	0.05
4	Soyabeen Crushed	0.05
5	Cabbage	0.05
Porcupine		
1	Carrot	0.1
2	Potato	0.1
3	G.Nut	0.1
4	Palak	0.2
5	Onion	0.025
6	Bread	0.1
7	Apple	0.1
8	Turnip	0.1
9	Sweet Carrot	0.1
10	Peas Green	0.1
11	Cucumber	0.1
12	Cabbage	0.2
Stork all species		
1	Fish	0.3
Common Crane		



1	Mix Sabat Dana	0.5
2	Palak	0.05
3	Cabbage	0.05
Duck all species		
1	Mix Crushed for Birds	0.2
2	Palak	0.05
3	Cabbage	0.05
Barking Deer		
S.No.	Particulars	Qty. of Feed
1	Black Gram	0.1
2	Gur	0.1
3	Green Fodder	15
4	Cattle Feed	0.15
Chousinga		
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/ Pegions		
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	G.Nut	0.01
4	Green Chilly	0.01
5	Paddy	0.01
6	Peas Green	0.01
7	Cucumber	0.01
Budgrigars/ 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
Kokatto		
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	Buff.Meat or live day old chicken	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
Affrican cape Buffellow		
1	Black Gram	0.5
2	Gur	0.5
3	Green Fodder	50
4	Cattle Feed	0.5



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		
2	Ice for Beer	100
4	Water Mellon (apx)~	On Vet's recommendation
5	Chicken/mutton on	On Vet's recommendation



	in case of sick, oldage	On Vet's recomendation
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 of animals

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	Fellowvex-PCT 1 ml s/c	Half-Yearly	
2	Tigers	Panleukopenia, Calci virus (2 strain), Infectious	Fellowvax-PCT 1 ml s/c	Half-Yearly	



		Feline Rhinotracheitis			
3	Leopards	Panleukopenia, Calci virus (2 strain), Infectious Feline Rhinotracheitis	Fellowvax-PCT 1 ml s/c	Half-Yearly	

14 (b) Vaccination Schedule of animals

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	Half-Yearly	
2	Tigers	Canine distemper	Pure Vax-Ferret distemper Vaccine	Half-Yearly	
3	Leopards	Canine distemper	Pure Vax-Ferret distemper Vaccine	Half-Yearly	

14 (c) Vaccination Schedule of animals

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 3 ml S/C	Half-Yearly	
3	Swamp deer	FMD and HS	Raksha-Biovac 3 ml S/C	Half-Yearly	
4	Hog deer	FMD and HS	Raksha-Biovac 3 ml S/C	Half-Yearly	
5	Elephant	Tetanus	T.T Vaccine 3 ml S/C	Half-Yearly	

15 De-worming Schedule of animals

Sr.No.	Species	Drug used	Month
1	Lion	Fenbendazole	Feb-Mar 2019
2	Tiger	Fenbendazole	Feb-Mar 2019
3	Leopard	Fenbendazole	Feb-Mar 2019
4	Jaguar	Fenbendazole	Feb-Mar 2019
5	Hyena	Fenbendazole	Feb-Mar 2019
6	Jackal	Fenbendazole	Feb-Mar 2019



7	Wolf	Fenbendazole	Feb-Mar 2019
8	Cats	Praziquantel/Pyrantel Pamoate/ Fenbendazole	Feb-Mar 2019
9	Hippo	Fenbendazole	Feb-Mar 2019
10	Porcupine	Praziquantel/Pyrantel Pamoate/Fenbendazole	Feb-Mar 2019
11	Owl/Fruit Bat	Syp. Piperazine	Feb-Mar 2019
12	Elephant	Fenbendazole	Feb-Mar 2019
13	Deers	Albendazole/Praziquantel/Pyrantel Pamoate/ Fenbendazole	Feb-Mar 2019
14	Bears	Fenbendazole	Feb-Mar 2019
15	Wild Boar	Fenbendazole	Feb-Mar 2019
16	Primates	Fenbendazole	Feb-Mar 2019
17	Birds	Syp. Piperazine	Feb-Mar 2019
18	Bison	Fenbendazole	Feb-Mar 2019
19	Reptiles	Syp. Albomar	Feb-Mar 2019

16 Disinfection Schedule

Disinfection Schedule of Animal Complexes for 2018-19													
S.No	Name of Complex	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	Monkey Complex-I	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●
2	Monkey Complex-II	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●
3	Tiger Complex	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●
4	Hippo Complex	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●
5	Emu Complex	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●
6	Elephant Complex	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●
7	Lion Safari Complex	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●
8	Leopard Complex	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●
9	Cat Complex	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●
10	Bear Complex	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●



11	Bird Aviary	●	●	●	●	●	●	●	●	●	●	●	●
12	Pheasantry	●	●	●	●	●	●	●	●	●	●	●	●
13	Small Deer Complex	●	●	●	●	●	●	●	●	●	●	●	●
14	Off Display Area	●	●	●	●	●	●	●	●	●	●	●	●
15	Deer Safari Complex	●	●	●	●	●	●	●	●	●	●	●	●
16	Small Bird Aviary	●	●	●	●	●	●	●	●	●	●	●	●
17	Zebra Complex	●	●	●	●	●	●	●	●	●	●	●	●
18	Swamp Deer Complex	●	●	●	●	●	●	●	●	●	●	●	●
19	Blue Bull Complex	●	●	●	●	●	●	●	●	●	●	●	●
		●	DAILY DISINFECTION PROTOCOL										
		●	WEEKLY DISINFECTION PROTOCOL										
		●	FORTNIGHTLY DISINFECTION PROTOCOL										

PARAMETERS	
PROTOCOL SHOWING WITH ● MARK	
PHYSICAL REMOVAL OF ORGANIC MATTER	
PRESSURE CLEANING WITH PLAIN WATER	
EFFICACY OF FLY-CATCHER& MOUSE-TRAP	
CLEANING OF WATERING BOWLS	
REMOVAL OF EXCRETA FROM OPEN ENCLOSURE IN A COVERED CONTAINER AND DISPOSED	
CLEANING OF FOOT-DIPS AND THEIR MATS	
DISINFECTANT USED IN FOOT-DIP (ALTERNATELY) A) 1% 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 ANIMAL'S 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
4. Collect all the bins from the animal's houses and incinerate all the feed wastage and excreta everyday
5. Burn all the excreta and other feed wastage in incinerator or burried in the pits under the layer of lime powder
6. same procedure has been done with the feed wastage of Gharial and crocodiles also
7. All the fodder wastage and dung of herbivores also has been removed from the surrounding of animal's enclosures including the Elephants and its disposal 1 km away from the animal enclosure area and further disposal through vermicomposed 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. Rinsed the surface with hot boiled water completely
5. Dry surface with wiper or floorduster effectively

Fortnightly disinfection schedule

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

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

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

18 Development Works carried out in the zoo during the year

1. Animal Exchange Program-



During the period of 2018-2019 in the month 02/2019 animal exchange between Chhatbir Zoo and Rohtak Zoo has been done, the details of which has been attached in relevant page.

2. Infrastructure Development in Zoo -



Cloak Room





- 3 Zoo Waste Management**-To ensure the eco-friendly and useful disposal of the leftover green fodder and herbivore dung waste the zoo has set up an solid and liquid resources management practices. Team of Chhatbir zoo converts the dung of herbivores, fodder waste and garden foliage into compost manure for fertilization of zoo landscaping



- 4 Pollution Free Zones**-One such strategy involves switching over to the eco-friendly practices in the overall management of the zoo. This involves various new initiatives taken by the zoo management in the recent past by adopting such steps not only the natural environment of the zoo has been improved but the zoo visitors also have been sensitised towards noble cause of environment conservation.



14

Plastic Free Zoo



13

Plastic Free Zoo

5 New Initiatives on the Cards



New Initiatives on the Cards



Chhatbir Evening Zoo

15



16

Food Plaza With Roof Top Garden Resturant





Bicycle Riding Facility in Zoo

17

19 Education and Awareness programmes / Important Events and happenings during the year

International Tiger Day 2018



On 29th July 2018 Chhatbir Zoo celebrated International Tiger day by organizing a campaign on Tiger awareness among zoo visitors. It was specifically organized at the Tiger enclosures of the zoo, So as to give realistic touch of the issue.

International Tiger Day held annually on July 29 to give worldwide attention to the reservation of tigers. It is both an awareness day as a celebration. It was founded at the Saint Petersburg Tiger Summit in 2010. This was done

because at that moment wild tigers were too close to extinction. Many animal welfare organizations pledged to help these wonderful creatures and are still helping to



raise funds to reach this goal. The goal of Tiger Day is to promote the protection and expansion of the wild tiger's habitats and to gain support through awareness for tiger conservation. Therefore, it is high time for the humankind to understand the plight of Tigers in country and do their bit in the noble cause of Tiger conservation. The zoo plays a pivotal role as far as awareness generation of wildlife in the general and Tigers in particular are concerned.

It becomes more relevant in the area of country where Tiger population does not exist in natural areas like Punjab, Haryana, HP etc. So people in this area need to be specifically made

aware about the issue and importance of Tiger conservation and thus zoo's role becomes all the more important. So today's celebration of International Tiger day in Chhatbir zoo has played a significant role in creation of awareness about Tiger conservation where school children of various schools apart from common visitors were enlightened about the subject.



20 Important Events and happenings in the Zoo

Report regarding celebration of Wildlife Week 2018 at Chhatbir Zoo

Wildlife Week 2018 has been successfully celebrated at Chhatbir Zoo. Various events and activities were organized to create awareness towards "*Nature and Wildlife*". Everything was planned in the month of September 2018 to run all the activities and events smoothly. The entry of the visitors was allowed free during Wildlife week 2018 from 3rd October 2018 to 8th October 2018.

Many schools from surrounding urban and rural area were invited properly through written formal letters. All the Government and private schools were invited. The schedule which was chalked out to celebrate the wildlife week 2018 is given as under.

Schedule of Events for "Wildlife Week Celebrations, 2018"

Date	Events	Time		Remarks
3.10.2018 (Wednesday)	Wildlife Awareness Rally	9.30 am to 11 am		Chandigarh or Mohali
03.10.2018 (Wednesday)	Zoo Keepers Talk on Tigers	11.30 am to 1.00 pm 2.00 pm to 3.30 pm		Tiger Complex
4.10.2018 (Thursday)	Essay Writing Competition Middle Category Class 6 th to 8 th	Registration Time (10:00 am to 11:00 am)	Event Time (11:00 am to 1:00 pm)	Only 3 participant students will be allowed in each category from one school. Students will carry their own hard board. Only 3 participant students will be allowed in each category from one school. Only 3 participant student will be allowed in each category from one school. Students will be allowed to use only colors provided by the Zoo management. Students will carry their drawing boards only. Only 3 participant students will be allowed in each category from one school.
	Essay Writing Competition Senior Category Class 9 th to 10 th	Registration Time (10:00 am to 11:00 am)	Event Time (11:30 am to 1:00 pm)	
	Painting Competition Junior Category Class 1 st to 5 th	Registration Time (10:00 am to 11:00 am)	Event Time (11:00 am to 1:00 pm)	
	Painting Competition Middle Category Class 6 th to 8 th	Registration Time (10:00 am to 11:00 am)	Event Time (11:30 am to 1:00 pm)	
	Quiz Competition Senior Category Class 9 th to 10 th	Registration Time (10:00 am to 11:00 am)	Event Time (11:30 am to 1:00 pm)	
4.10.2018 (Thursday)	Reptile expert's Talk and show	11.30 am to 1.00 pm 2.00 pm to 3.30 pm		Reptile house



5.10.2018 (Friday)	Zoo Keeper's Talk	11.30 am to 1.00 pm 2.00 pm to 3.30 pm	Elephant Complex
6.10.2018 (Saturday)	Zoo Keeper's Talk	11.30 am to 1.00 pm 2.00 pm to 3.30 pm	Leopard Complex
7.10.2018 (Sunday)	Zoo Keeper's Talk	11.30 am to 1.00 pm 2.00 pm to 3.30 pm	Bear Complex
7.10.2018 (Sunday)	Photography competition for amateur photographers based on theme	11.30 am to 3.30 pm	Theme 1. Ignored wild treasures, 2. Explore the wild emotions.
7.10.2018 (Sunday)	Outreach Educational Activity (Street Play)	4.00 pm to 5.00. pm	Chandigarh or Mohali
8.10.2018 (Monday)	Valedictory function	11.30 am to 1.00 pm	Shallow lake park

Whole week were celebrated according to the pre-planned programme as per schedule

3rd October 2018

On 03-10-2018, Zoo Keeper Talk was held at the Tiger Complex. The Zoo Keeper of the Tiger Complex revealed to viewers and school children about the White Tiger and Royal Bengal Tiger in detail.



4th October 2018

On 4-10-2018, Essay writing competition, Painting competition and Quiz competition were held on Inter School Competition in which 200 students from around 30 schools participated.

Apart from this, there was a Zoo keeper talk on Elephant Complex where our zoo keeper given important information regarding elephants to all the students of different schools.



5th October 2018

A state level event was held on 05-10-2018. In which Mr. Sadhu Singh Dharamsot, Forest Minister of the Punjab Government attended as the Chief Guest.

In addition, Mr. Sadhu Singh Dharamsot, Forest Minister of the Punjab Government inaugurated the Student Zoo Club and gave prizes to the students who won the Inter School Competition. Finally addressed by the Chief Guest in which he gave information on environment and wildlife and gave prizes to the zoo officials who were responsible for the work at the Chhatbir Zoo during the whole week.

On 05-05-2018, Nikhil Sangar (Reptile Expert), informed about different species of snakes under the banner of Know about reptiles to the zoo visitors / school children.



6th October 2018

On 6-10-2018 Zoo Keeper Talk was held at Leopard Complex. In which ,people were made aware of leopards and reported wildlife safety reports.

7th October 2018



During the Wildlife Week 2018 at 6am on 7-10-2018, the Awareness Wilderness Run (mini marathon) was attended by about 200 participants. In addition, cycling race was also held, in which about 100 cyclists participated.

In addition, Zoo Keeper Talk was launched at the Beer Complex. People were made aware of Beer and reported wildlife safety reports.

8th October 2018

On 8-10-2018, the children of the City Global School, Zirakpur, played a unique drama about the conservation of wildlife and the environment.

Thus, the wildlife week was celebrated with great excitement and excitement.

World Sparrow Day 2018





International Day for Biological Diversity 2018

The International Day for Biological Diversity (or World Biodiversity Day) is a United Nations-sanctioned international day for the promotion of biodiversity issues. It is currently held on May 22.

The International Day for Biological Diversity falls within the scope of the UN Post-2015 Development Agenda's Sustainable Development. In this larger initiative of international cooperation, the topic of biodiversity concerns stakeholders in sustainable agriculture; desertification, land degradation and drought; water and sanitation; health and sustainable development; energy; science, technology and innovation, knowledge sharing and capacity-building; urban resilience and adaptation; sustainable transport; climate change and disaster risk; oceans and seas; forests; vulnerable groups including indigenous peoples; and food security. The critical role of biodiversity in sustainable development was recognized in a Rio+20 outcome document, "The World We Want: A Future for All".

From its creation by the Second Committee of the UN General Assembly in 1993 until 2000, it was held on December 29 to celebrate the day the Convention on went into effect. On December 20, 2000, the date was shifted to commemorate the adoption of the Convention on May 22, 1992 at the Rio Earth Summit, and partly to avoid the many other holidays that occur in late December.

Celebrating 25 Years of Action for Biodiversity let's move to save the biodiversity





World Environment Day 2018

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

The People's Day Above all, World Environment Day is the "people's day" for doing something to take care of the Earth. That "something" can be focused locally, nationally or globally; it can be a solo action or involve a crowd. Everyone is free to choose.



The Theme Each World Environment Day is organized around a theme that focuses attention on a particularly pressing environmental concern. The theme for 2018 is beating plastic pollution.

The Host Every World Environment Day has a different global host country, where the official celebrations take place. The focus on the host country helps highlight the environmental challenges it faces, and supports the effort to address them. This year's host is India.

Plastic Pollution facts:

- Every year the world uses **up to 5 trillion** plastic bags
- Each year, at least 13 million tonnes of plastic end up in the oceans, the equivalent of a full garbage truck every minute.
- In the **last decade**, we produced more plastic than in the whole **last century**
- 50 percent of the plastic we use is **single-use** or disposable
- We buy 1 million plastic bottles **every minute**

Plastic makes up **10% of all of the waste** we generate





21 Seasonal special arrangements for upkeep of animals

Summer care arrangements

M.C. Zoological Park Chhatbir is primarily established with the objective of conservation of rare fauna, education and awareness on wildlife to general public and research on the wildlife behavior and disease management. The Chhatbir zoo have 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 done by the Chhatbir zoo 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 kanna (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 have been made in elephant enclosure, Manipur deer enclosure, Swamp deer enclosure and Deer safari for volleying and mud bath of animals. Concrete water pool are 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 are being provided to all the monkeys, bears and elephants.

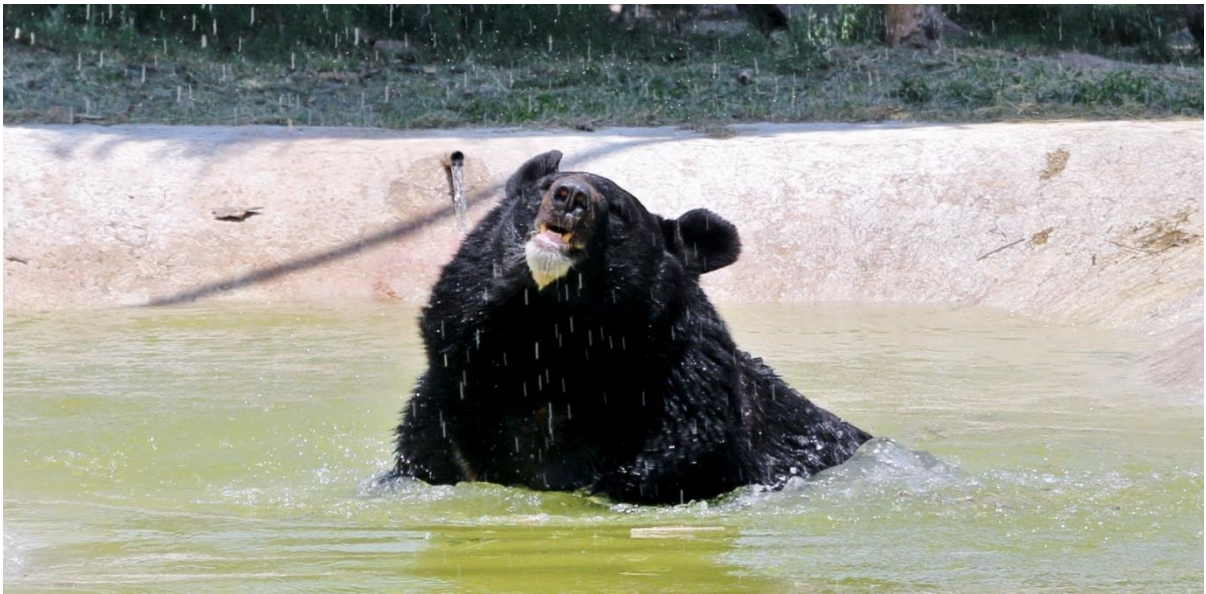
Glucon-D powder mixed in the drinking water of all the carnivores and omnivores animals.

Banana fruit has been replaced with papaya during summers.

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

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





Winter care arrangements

M.C. Zoological Park Chhatbir is primarily established with the objective of conservation of rare fauna, education and awareness on wildlife to general public and research on the wildlife behavior and disease management. There is a small lake where hundreds of migratory birds visit every winter. The Chhatbir zoo having trained and dedicated manpower. Every year special seasonal care and support has been provided to the animals for their better up-keep. Zoo management tries its best to provide hygiene and comfortable environment to keep them stress free. The winter care arrangements done by the Chhatbir zoo 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 fiber sheets.

Herbivores: Creation of temporary shelter/hut made from kanna (secrem-munja) Thach and wooden logs and bamboo etc. with the help of binding wire and ropes with the facility of water proof arrangements (black tarp 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 cozy flooring.

Birds: All the cages of birds have been covered with fiber 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.

Reptiles: Reptile house has been equipped with oil fin heaters which are very good for reptiles as these heaters are not effecting the natural humidity of the enclosure s. Apart that all the cells of reptiles have been provided wheat husk and dry leaf foliage which gives coziness to the reptiles. 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

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

Jiggery (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

Alsoe seeds and nutrition supplements to small birds





22 Animal acquisition / transfer / exchange during the year

1	Rudy Shel Duck	2	acquisition through Exchange	19.02.2019	Animal Exchange From Rohtak Zoo, Haryana Vide this office letter No. 906 Dated 06.06.2018
2	Grey lag goose	2	acquisition through Exchange		
3	Pintail	2	acquisition through Exchange		

Transfer

1	Barn Owl	1	Transfer	03.11.2018	Transferred by DFO Bathinda from Bir Talab Zoo to Chhatbir Zoo.
2	Rosy Pelican	1	Transfer through exchange	19.02.2019	Transfer Vide this office letter No. 906 Dated 06.06.2018
3	Painted Stork	4	Transfer through exchange	19.02.2019	
4	Whistling Teal	4	Transfer through exchange	19.02.2019	

23 Rescue and Rehabilitation of wild animals carried out by the Zoo

1	Langur Common	1	Rescued	29.05.2018	Rescued by DFO Wildlife Patiala on 29.05.2018
2	Barn Owl	1	Rescued	30.10.2018	Rescued by DFO Wildlife Patiala.
3	Barn Owl	1	Rescued	03.11.2018	Rescued by DFO Wildlife Patiala.
4	Crocodile	1	Rescued	01.01.2019	Rescued by DFO UT Chandigarh on 20.12.2018.



24 . Annual Inventory of animals (2018-19)

MAHENDRA CHAUDHARY ZOOLOGICAL PARK, CHHATBIR, PUNJAB																											
INVENTORY OF WILD ANIMALS AND BIRDS BETWEEN 01.04.2018 to 31.03.2019																											
SCHEDULE 1 OF WILDLIFE (PROTECTION ACT, 1972)																											
Sr. No	Species	Scientific Name	Position as on 01.04.2018				Birth			Acquisition by Rescue/gift			Acquisition by Transfer			Disposal by Death			Disposal by Transfer			Position as on 31.03.2019					
			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	<i>Pavo cristatus</i>	5	3	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	3	0	8
2	PEAFOWL WHITE	<i>Pavo cristatus</i>	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3
3	KALEEJ PHEASANT	<i>Lophura leucomelanos</i>	2	3	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	1	6
Total Birds			9	7	1	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	7	1	17
MAMMALS																											
1	BLACK BUCK	<i>Antelope cervicapra</i>	10	18	8	36	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	10	16	9	35	
2	WHITE BUCK	<i>Antelope cervicapra</i>	2	5	0	7	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	2	3	1	6	
3	CHINKARA	<i>Gazella bennetti</i>	4	2	0	6	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	4	1	0	5	
4	DEER BROW ANTLERED	<i>Cervus eldi</i>	1	1	2	4	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	4	6	
5	DEER SWAMP	<i>Cervus duavauceli</i>	2	7	0	9	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	2	6	1	9	
6	ELEPHANT INDIAN	<i>Elephas maximus</i>	1	3	0	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3	0	3	
7	LEOPARD	<i>Panthera pardus</i>	6	4	0	10	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	1	4	0	5	
8	LIONS INDIAN	<i>Panthera leo persica</i>	1	3	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	4	
9	MACAQUE LION TAILED	<i>Macaca silenus</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
10	TIGER BENGAL	<i>Panthera tigris tigris</i>	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4	
11	FOUR HORNED ANTELOPE	<i>Tetracerus quadricornis</i>	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	



12	GAUR (Indian Bison)	<i>Bos gaurus</i>	3	0	0	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	2
13	LEOPARD CAT	<i>Felis bengalensis</i>	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
14	WHITE TIGER	<i>Panthera tigris tigris</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	
15	MOUSE DEER	<i>Tragulus meminna</i>	2	2	1	5	0	0	1	0	0	0	0	0	0	0	1	0	0	0	2	2	1	5
16	OTTER SMOOTH COATED		1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	
17	INDIAN WOLF	<i>Canis lupus</i>	1	2	0	3	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	1
	Total		38	53	11	102	1	0	6	0	0	0	0	0	9	7	1	0	0	0	30	46	16	92

MAHENDRA CHAUDHARY ZOOLOGICAL PARK, CHHATBIR, PUNJAB

INVENTORY OF WILD ANIMALS AND BIRDS BETWEEN 01.04.2018 to 31.03.2019

SCHEDULE 1 OF WILDLIFE (PROTECTION ACT, 1972)

Sr. No.	Species	Scientific Name	Position as on 01.04.2018				Birth			Acquisition by Rescue/gift			Acquisition by Transfer			Disposal by Death			Disposal by Transfer			Position as on 31.03.2019			
			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	<i>Gavialis gangeticus</i>	1	3	14	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	14	18	
2	CROCODILE	<i>Crocodylus palustris</i>	3	0	0	3	0	0	0	0	0	1	0	0	0	1	0	0	0	0	2	0	1	3	
3	PYTHON (Indian rock)	<i>Python molurus molurus</i>	0	0	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7	
4	BENGAL MONITOR LIZARD	<i>Varanus bengalensis</i>	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	
5	YELLOW MONITOR LIZARD	<i>Varanus flavescens</i>	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
6	INDIAN FLAP SHELL TURTLE	<i>Lissemys punctata</i>	0	0	21	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	



7	INDIAN SOFT SHELLTURTLE	<i>Nilssonia gangetica</i>	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
8	INDIAN ROOFED TURTLE	<i>Pangshura tecta</i>	1	3	46	50	0	0	0	0	0	0	0	0	0	0	5	0	0	30	1	3	11	15
9	INDIAN SPOTTED TURTLE	<i>Geoclemys hamiltonii</i>	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Total			5	6	94	105	0	0	0	0	0	1	0	0	0	1	5	0	0	30	4	6	60	70

MAHENDRA CHAUDHARY ZOOLOGICAL PARK, CHHATBIR, PUNJAB

INVENTORY OF WILD ANIMALS AND BIRDS BETWEEN 01.04.2018 to 31.03.2019

SCHEDULE II OF WILDLIFE (PROTECTION ACT, 1972)

Sr. No.	Species	Scientific Name	Position as on 01.04.2018				Birth			Acquisition by Rescue/gift			Acquisition by Transfer			Disposal by Death			Disposal by Transfer			Position as on 31.03.2019				
			M	F	U	Total	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	Total	
MAMMALS																										
1	BEAR HIMALYAN BLACK	<i>Selenarchos thibetanus</i>	1	5	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	0	6
2	BEAR SLOTH	<i>Melursus ursinus</i>	0	1	0	1	0	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	5	6	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	4	0	5	
4	JACKAL	<i>canis aureus</i>	2	4	1	7	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	3	1	0	5	
5	LANGUR COMMON	<i>Presbytis entellus</i>	2	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3
6	MACAQUE ASSAMESE	<i>Macaca assamensis</i>	11	2	0	13	0	0	0	0	0	0	0	0	0	1	0	0	0	0	11	1	0	0	12	
7	MACAQUE BONNET	<i>Macaca radiate</i>	5	1	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	1	0	0	6	
8	MACAQUE	<i>Macaca mulatta</i>	5	5	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	0	0	10	



	RHESUS																									
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>	2	4	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	0	6	
11	INDIAN GREY MONGOOSE	<i>Herpestes edwardsi</i>	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	2	
	Total		30	25	6	61	0	0	0	1	0	2	0	0	0	1	2	1	0	0	0	30	23	7	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 01.04.2018 to 31.03.2019

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

Sr. No.	Species	Scientific Name	Position as on 01.04.2018				Birth			Acquisition by Rescue/gift			Acquisition by Transfer			Disposal by Death			Disposal by Transfer			Position as on 31.03.2019				
			M	F	U	Total	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	Total	
	Birds																									
1	CRANE SARUS	<i>Grus antigone</i>	7	2	3	12	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	6	2	3	11	
2	DOVE	<i>Streptopelia chinensis</i>	15	15	10	40	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	15	15	9	39	
3	DUCK SPOT BILL	<i>Anas poecilorhyncha</i>	5	5	1	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	1	11	
4	DUCK COMBED	<i>Sarkidiornis melanotos</i>	10	10	6	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	6	26	
5	FOWL RED JUNGLE	<i>Gallus gallus</i>	2	7	6	15	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	2	7	9	18	
6	PARAKEET ROSE	<i>Psittacula krameri</i>	15	15	15	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	15	15	45	



	RINGED																							
7	PARAKEET ALEXANDRINE	<i>Psittacula eupatria</i>	7	7	7	21	0	0	2	0	0	0	0	0	0	0	0	0	0	0	7	7	9	23
8	PARAKEET BLOSSOM HEADED	<i>Psittacula roseate</i>	2	2	1	5	0	0	6	0	0	0	0	0	0	0	0	0	0	0	2	2	7	11
9	PARTRIDGES GREY	<i>Francolinus pondicerianus</i>	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
10	PARTRIDGES BLACK	<i>Francolinus francolinus</i>	0	0	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8
11	PELICANS ROSY	<i>Pelecanus philippensis</i>	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2
12	QUAIL COMMON	<i>Coturnix coturnix</i>	0	0	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8
13	STORK BLACK NECKED	<i>Xenorhynchus asiaticus</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
14	STORK PAINTED	<i>Mycteria leucocephala</i>	15	15	65	95	0	0	18	0	0	0	0	0	0	0	0	2	2	0	13	13	83	109
15	STORK WHITE	<i>Ciconia ciconia</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
16	SHIKARA	<i>Accipiter badius</i>	0	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
17	BARNOWL	<i>Tyto alba</i>	0	0	9	9	0	0	2	0	0	2	0	0	1	0	0	1	0	0	0	0	13	13
18	GREAT HORNED OWL	<i>Bubo bubo</i>	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
19	BLACK KITE *	<i>Milvus migrans</i>	0	0	2	2	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
20	WHITE IBIS	<i>Threskiornis melanocephala</i>	0	2	6	8	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	4	6
21	WOOLY NECKED STORK	<i>Ciconia episcopus</i>	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
22	COMMON MOORHEN	<i>Gallinula chloropus</i>	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
23	WHITE BREASTED WATERHEN	<i>Amaurornis phoenicurus</i>	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
24	CATTLE EGRET	<i>Bubulcus ibis</i>	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
25	INDIAN POND HERON	<i>Ardeola grayii</i>	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
26	NIGHT HERON	<i>Nycticorax nycticorax</i>	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
27	LESSER CUCAL	<i>Centropus bengalensis</i>	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2



28	COMMON MYNA	<i>Acridotheres tristis</i>	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4		
29	JUNGLE BABBLER	<i>Turdoides striatus</i>	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4		
30	WEAVER BIRD	<i>Polceus philippinus</i>	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4		
31	SPOONBILL WHITE	<i>Platalea leucorodia</i>	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3		
32	LESSER WISTLING TEAL	<i>Dendrocygna javanica</i>	0	0	14	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	10	10
33	GREY PELICAN	<i>Dendrocygna javanica</i>	0	0	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
34	CHAKUR PARTRIDGES	<i>Alectoris chukar</i>	1	1	0	2	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	5	7	
35	ROFOUS TREE PIE	<i>Dendrocitta vagabunda</i>	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	
36	WATER RAIL	<i>Rallus aquaticus</i>	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
37	RUDY SHELDUCK	<i>Tadorna ferruginea</i>	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	2
38	GREYLAG GOOSE	<i>Anser anser</i>	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	2
39	PINTAIL	<i>Anas acuta</i>	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	2
40	BIRD OF PREY	<i>unidentified</i>	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
	TOTAL		81	82	209	372	0	0	41	0	0	4	3	3	1	1	0	6	2	2	5	81	83	244	408		

* earlier written as spotted eagle reconfirm as kite

MAHENDRA CHAUDHARY ZOOLOGICAL PARK, CHHATBIR, PUNJAB

INVENTORY OF WILD ANIMALS AND BIRDS BETWEEN 01.04.2018 to 31.03.2019

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

Sr. No.	Species	Scientific Name	Position as on 01.04.2018				Birth			Acquisition by Rescue/gift			Acquisition by Transfer			Disposal by Death			Disposal by Transfer			Position as on 31.03.2019					
			M	F	U	Total	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	Total		
MAMMALS																											
1	BLUE BULL	<i>Boselaphus tragocamelus</i>	0	6	0	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	5	0	5



2	DEER BARKING	<i>Muntiacus muntjak</i>	10	14	2	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	14	2	25	
3	DEER HOG	<i>Axis porcinus</i>	6	9	5	20	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	6	9	8	23	
4	DEER SAMBAR	<i>Cervus unicolor</i>	14	27	16	57	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	13	27	26	66	
5	DEER SPOTTED	<i>Axis axis</i>	24	42	23	89	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	24	42	47	113	
6	HYEANA	<i>Hyaena hyaena</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	
7	PORCUPINE	<i>Hystrix indica</i>	0	0	34	34	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	42	
8	GORAL	<i>Nemorhaedus goral</i>	1	3	0	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	1	5	
9	WILD BOAR	<i>Sus scofa</i>	1	0	18	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	18	19	
	TOTAL		57	10	98	257	0	0	46	0	0	0	0	0	0	2	1	0	0	0	55	10	14	300		
REPTILES																										
1	BLACK HEADED ROYAL SNAKE	<i>Spalerosophis diadema</i>	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	
2	INDIAN STAR TORTOISE	<i>Geochelone elegans</i>	0	0	8	8	0	0	0	0	0	4	0	0	0	0	0	5	0	0	0	0	0	7	7	
	TOTAL		0	0	10	10	0	0	0	0	4	0	0	0	0	0	5	0	0	0	0	0	9	9		

MAHENDRA CHAUDHARY ZOOLOGICAL PARK, CHHATBIR, PUNJAB

INVENTORY OF WILD ANIMALS AND BIRDS BETWEEN 01.04.2018 to 31.03.2019

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

Sr. No.	Species	Scientific Name	Position as on 01.04.2018				Birth			Acquisition by Rescue/gift			Acquisition by Transfer			Disposal by Death			Disposal by Transfer			Position as on 31.03.2019				
			M	F	U	Total	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	Total	
MAMMALS																										
1	FRUIT BAT	<i>Pteropus giganteus</i>	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	
	TOTAL		0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4		



EXOTIC & OTHERS

Sr. No.	Species	Scientific Name	Position as on 01.04.2018				Birth			Acquisition by Rescue/gift			Acquisition by Transfer			Disposal by Death			Disposal by Transfer			Position as on 31.03.2019					
			M	F	U	Total	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	Total					
OTHER BIRDS																											
1	EMU	<i>Dromiceius novahollandiae</i>	8	8	7	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8	7	23
2	COCKATOO SULPHER CRESTED	<i>Kokatoe galerita</i>	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
3	COCKTIEL GREY	<i>Nymphicus hollandicus</i>	5	5	3	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	3	13	
4	BUDGRIGAR	<i>Melopsittacus undulates</i>	96	10	0	197	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	96	99	0	195	
5	PHEASANT RING NECKED	<i>Phasianus colchicus</i>	3	2	0	5	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	2	0	4	
6	PHEASANT GOLDEN	<i>Chrysolophus pictus</i>	4	5	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5	0	9	
7	PHEASANT SILVER	<i>Lophura nycthemerus</i>	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4	
8	LADY AHMREST PHEASANT	<i>Chrysolophus amherstiae</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
9	ZEBRA FINCHES	<i>Taeniopygia guttata</i>	10	10	10	30	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	14	34	
10	BLACK SWAN	<i>Cygnus atratus</i>	0	1	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	2	0	3	
11	LOVE BIRD	<i>Agapornis</i>	0	0	2	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	
12	GEESE COMMON	<i>Anser gene</i>	0	0	57	57	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59	59	
13	OSTRICH	<i>Struthio camelus</i>	0	2	0	2	0	0	0	0	0	0	3	3	0	0	2	0	0	0	0	0	3	3	0	6	
14	JAWA SPARROW	<i>Lonchura oryzivora</i>	0	0	10	10	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12	
15	DIMOND DOVE	<i>Geopelia coneata</i>	0	0	15	15	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	18	
16	BLUE & GOLD	<i>Ara ararauna</i>	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	2	



	MACAW																								
17	SUN CONURE	<i>Aratinga solstitialis</i>	0	0	0	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	4	4	0	8
18	JANDAYA CONURE	<i>Aratinga jandaya</i>	0	0	0	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	4	4	0	8
	TOTAL		12	13	10	371	0	0	1	0	0	0	1	1	0	1	4	0	0	0	14	14	11	405	

MAHENDRA CHAUDHARY ZOOLOGICAL PARK, CHHATBIR, PUNJAB

INVENTORY OF WILD ANIMALS AND BIRDS BETWEEN 01.04.2018 to 31.03.2019

EXOTIC & OTHERS

Sr. No	Species	Scientific Name	Position as on 01.04.2018				Birth			Acquisition by Rescue/gift			Acquisition by Transfer			Disposal by Death			Disposal by Transfer			Position as on 31.03.2019					
			M	F	U	Total	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T o t a l		
	OTHER MAMMALS																										
1	HIPPOPOTAMUS	<i>Hippopotamus amphibus</i>	1	3	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	4
2	JAGUAR	<i>Panthera onca</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
3	FELLOW DEER	<i>Dama dama</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
4	HAMADRYES BABBOON SACRED	<i>Papio hamadryas</i>	2	3	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	5
	TOTAL MAMMALS		5	6	0	11	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	4	6	0	10	
	OTHER REPTILES																										
1	GREEN IGUANA	<i>Iguana iguana</i>	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	2	2	0	4
	TOTAL		0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2	0	4	
115	TOTAL ANIMALS (Schdule I, II, III, IV & Others/Exotic)		354	417	551	1322	1	0	106	1	0	11	18	18	1	16	14	18	2	2	35	356	419	616	1391		



Summary of Death Report M.C.Zoological Park Chhatbir during 01.04.2018 to 31.03.2019

Sr. No.	Animal Name	Scientific name	Sex	No.	Date	Cause of Death
1	Jackal	<i>canis aureus</i>	Female	1	04.04.2018	Hypovolumic shock
2	Jackal	<i>canis aureus</i>	Male	1	11.04.2018	Hypovolumic shock
3	Ostrich	<i>Struthio camelus</i>	Female	1	24.04.2018	Hemorrhagic enteritis
4	Indian Wolf	<i>Canis lupis</i>	Male	1	13.05.2018	Hepatitis
5	Leopard	<i>Panthera pardus</i>	Male	1	17.05.2018	Renal failure
6	Star Tortoise	<i>Geochelone elegans</i>	Unk	1	04.06.2018	Shock caused by urine retention
7	Leopard	<i>Panthera pardus</i>	Male	1	05.06.2018	Renal failure
8	Swamp Deer	<i>Cerves duvacelli</i>	Female	1	08.06.2018	Senile changes of internal Organs
9	Star Tortoise	<i>Geochelone elegans</i>	Unk	1	18.06.2018	Acute respiratory distress
10	Blue Bull	<i>Boselaphus tragocamelus</i>	Female	1	13.06.2018	Senile changes of internal Organs
11	Leopard	<i>Panthera pardus</i>	Male	1	04.07.2018	Septicemia
12	Chinkara fawn	<i>Gazella bennetti</i>	Male	1	04.07.2018	Predation
13	Indian roofed turtle	<i>Pangshura tacta</i>	Unk	1	19.07.2018	Chronic respiratory problem
14	Chinkara	<i>Gazella bennetti</i>	Female	1	03.08.2018	Senile changes of internal organs
15	Assamese macaque	<i>Macaca assamensis</i>	Female	1	06.08.2018	Senile changes of internal organs
16	Dove	<i>Streptopelia chinensis</i>	Unk	1	11.08.2018	Acute respiratory distress
17	Barking deer	<i>Muntiacus muntjak</i>	Male	1	17.08.2018	Senile changes of internal organs
18	Star tortoise	<i>Geochelone elegans</i>	Unk	1	20.08.2018	Hepatocellular changes
19	Spoonbill	<i>Platalea leucorodia</i>	Unk	1	28.08.2018	Acute respiratory distress
20	Indian roofed turtle	<i>Pangshura tacta</i>	Unk	1	29.08.2018	Acute respiratory distress



21	Ring necked pheasant	<i>Phasianus colchicus</i>	Male	1	01.09.2018	Senile changes of internal organs
22	White Ibis	<i>Threskiornis melanocephala</i>	Unk	1	03.09.2018	Acute respiratory distress
23	White Ibis	<i>Threskiornis melanocephala</i>	Unk	1	04.09.2018	Acute invasive mycotic pneumonia
24	Star tortoise	<i>Geochelone elegans</i>	Unk	1	11.09.2018	Necrotic gastroenteritis
25	Indian roofed turtle	<i>Pangshura tecta</i>	Unk	1	16.09.2018	Hepatitis
26	Leopard	<i>Panthera pardus</i>	Male	1	21.09.2018	Multiple organ failure
27	Mouse deer	<i>Tragulus meminna</i>	Unk	1	22.09.2018	Enteritis
28	Black Buck	<i>Antelope cervicapra</i>	Female	1	24.09.2018	Asphyxia
29	White Buck	<i>Antelope cervicapra</i>	Female	1	26.09.2018	Senile changes of internal organs
30	Ostrich	<i>Struthio camelus</i>	Female	1	26.10.2018	Gastroenteritis,
31	Fellow deer	<i>Dama dama</i>	Male	1	27.10.2018	Respiratory distress
32	Barnowl	<i>Tyto alba</i>	Unk	1	05.11.2018	pneumonitis
33	White buck	<i>Antelope cervicapera</i>	Female	1	12.11.2018	Internal hemorrhage
34	Indian Wolf	<i>Canis lupis</i>	Female	1	08.12.2018	Suppurative hepatitis and renal lesion leading to CV collapse
35	Elephant	<i>Elephus maximus</i>	Male	1	10.12.2018	Degenerative senile lesion to be correlated with HPE examination
36	Star tortoise	<i>Geochelone elegans</i>	Unk	1	04.01.2019	Acute respiratory distress
37	Indian roofed turtle	<i>Pangshura tecta</i>	Unk	1	05.01.2019	Pneumonitis
38	Black buck	<i>Antelope cervicapera</i>	Female	1	06.01.2019	C-V collapse and generalised debility lesions
39	Marsh crocodile	<i>Crocodilus palustris</i>	Male	1	13.01.2019	C-V collapse due to generalized senile lesions
40	Leopard	<i>Panthera pardus</i>	Male	1	20.02.2019	Chronic renal failure
41	Civet	<i>Paradoxurus hemaphroditus</i>	Male	1	20.02.2019	Anaphylactic shock



42	Gaur	<i>Bos gaurus</i>	Male	1	20.02.2019	Acute pneumonitis
43	Sarus crane	<i>Grus antegone</i>	Male	1	27.02.2019	Haemorrhagic shock
44	Indian roffed turtle	<i>Pangshura tecta</i>	Unk	1	01.03.2019	Acute respiratory distress
45	Sambar	<i>Cervus unicolor</i>	Male	1	14.03.2019	Multiple organ failure due to peritonitis
46	Chakur	<i>Alectoris chukar</i>	Male	1	23.03.2019	Intracranial haemorrhage due to head injury
47	Budgrigar	<i>Melopsittacus undulates</i>	Unk	1	25.03.2019	Degenerative senile lesion
48	Budgrigar	<i>Melopsittacus undulates</i>	Unk	1	29.03.2019	Degenerative senile lesion
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BIRTS OF LIVE STOCK INVENTORY OF WILD ANIMALS AND BIRDS BETWEEN 01.04.2018 to 31.03.2019

Sr.No	Animal Name	Scientific Name	No.	Event	Date	Remarks
1	Chakur Partridge	<i>Alectoris chukar</i>	6	Birth	30.05.2018	Pheasantry
2	Red Jungle Fowl	<i>Gallus gallus</i>	3	Birth	30.05.2018	Pheasantry
3	Chinkara	<i>Gazella bennetti</i>	1	Birth	06.06.2018	Deer Safari complex
4	Sambar	<i>Cervus unicolor</i>	1	Birth	06.06.2018	Deer Safari complex
5	Spotted Deer	<i>Axis axis</i>	1	Birth	06.06.2018	Deer Safari complex
6	Painted Stork	<i>Mycteria leucocephala</i>	4	Birth	09.06.2018	Aviary
7	Mouse Deer	<i>Tragulus meminna</i>	1	Birth	12.06.2018	Small deer complex
8	Sambar	<i>Cervus unicolor</i>	1	Birth	13.06.2018	Deer Safari complex
9	Spotted Deer	<i>Axis axis</i>	1	Birth	15.06.2018	Deer Safari complex
10	Goral	<i>Nemorhaedus goral</i>	1	Birth	18.06.2018	Swamp Deer complex
11	Porcupine	<i>Hystrix indica</i>	1	Birth	19.06.2018	Nocturnal Houses
12	Porcupine	<i>Hystrix indica</i>	1	Birth	21.06.2018	Nocturnal Houses
13	Black Buck	<i>Antelope cervicapera</i>	1	Birth	15.09.2018	Zebra Complex
14	White Buck	<i>Antelope cervicapera</i>	1	Birth	15.09.2018	Zebra Complex
15	Deer Brow Antlered	<i>Cervus eldi thamin</i>	1	Birth	17.09.2018	Small deer complex



16	Deer Swamp	<i>cervus duvacelii</i>	1	Birth	20.09.2018	Swamp Deer complex
17	Parakeet Alexandrine	<i>Psittacula eupatria</i>	2	Birth	21.09.2018	Small aviary
18	Stork Painted	<i>Mycteria leucocephala</i>	4	Birth	22.09.2018	Aviary
19	Deer Hog	<i>Axis porcinus</i>	1	Birth	22.09.2018	Swamp Deer complex
20	Deer Sambar	<i>Cervus unicolor</i>	2	Birth	24.09.2018	Deer Safari complex
21	Deer Spotted	<i>Axis axis</i>	2	Birth	24.09.2018	Deer Safari complex
22	Porcupine	<i>Hystrix indica</i>	2	Birth	25.09.2018	Nocturnal Houses
23	Dimond Dove	<i>Geopelia coneata</i>	1	Birth	26.09.2018	Aviary
24	Geese Common	<i>Anser gene</i>	2	Birth	27.09.2018	Blue bull complex
25	Manipur Deer	<i>Cervus eldi thamin</i>	1	Birth	01.10.2018	at small deer complex
26	Hog Deer	<i>Axis porcinus</i>	1	Birth	02.10.2018	At swamp deer complex
27	Sambar	<i>Cervus unicolor</i>	1	Birth	05.10.2018	Deer Safari
28	Deer Spotted	<i>Axis axis</i>	1	Birth	06.10.2018	Deer Safari
29	Porcupine	<i>Hystrix indica</i>	1	Birth	07.10.2018	Nocturnal house
30	Painted Stork	<i>Mycteria leucocephala</i>	1	Birth	08.10.2018	Aviary
31	Dimond Dove	<i>Geopelia coneata</i>	1	Birth	09.10.2018	Aviary
32	Zebra Finch	<i>Taeniopygia guttata</i>	1	Birth	11.10.2018	Aviary
33	Jawa Sparrow	<i>Lonchura oryzivora</i>	1	Birth	12.10.2018	Aviary
34	Love bird	<i>Agapornis</i>	1	Birth	19.10.2018	Aviary
35	Hog deer	<i>Axis porcinus</i>	1	Birth	21.10.2018	At swamp deer complex
36	Sambar	<i>Cervus unicolor</i>	1	Birth	24.10.2018	Deer Safari
37	Spotted deer	<i>Axis axis</i>	1	Birth	28.10.2018	Deer Safari
38	Porcupine	<i>Hystrix indica</i>	1	Birth	30.10.2018	Nocturnal house
39	Painted Stork	<i>Mycteria leucocephala</i>	3	Birth	31.10.2018	Aviary
40	Dimond Dove	<i>Geopelia coneata</i>	1	Birth	04.11.2018	Aviary
41	Zebra finch	<i>Taeniopygia guttata</i>	3	Birth	06.11.2018	Aviary
42	Jawa Sparrow	<i>Lonchura oryzivora</i>	1	Birth	08.11.2018	Aviary
43	Love bird	<i>Agapornis</i>	1	Birth	12.11.2018	Aviary
44	Spotted deer	<i>Axis axis</i>	1	Birth	13.11.2018	Deer Safari



45	Spotted deer	<i>Axis axis</i>	1	Birth	16.11.2018	Deer Safari
46	Spotted deer	<i>Axis axis</i>	1	Birth	19.11.2018	Deer Safari
47	Spotted deer	<i>Axis axis</i>	1	Birth	21.11.2018	Deer Safari
48	Spotted deer	<i>Axis axis</i>	1	Birth	23.11.2018	Deer Safari
49	Spotted deer	<i>Axis axis</i>	1	Birth	25.11.2018	Deer Safari
50	Spotted deer	<i>Axis axis</i>	1	Birth	29.11.2018	Deer Safari
51	Spotted deer	<i>Axis axis</i>	1	Birth	30.11.2018	Deer Safari
52	Spotted deer	<i>Axis axis</i>	1	Birth	02.01.2019	Deer Safari
53	Spotted deer	<i>Axis axis</i>	1	Birth	04.01.2019	Deer Safari
54	Spotted deer	<i>Axis axis</i>	1	Birth	05.01.2019	Deer Safari
55	Sambar	<i>Cervus unicolor</i>	1	Birth	06.01.2019	Deer Safari
56	Sambar	<i>Cervus unicolor</i>	1	Birth	07.01.2019	Deer Safari
57	Barnowl	<i>Tyto alba</i>	2	Birth	08.01.2019	Nocturnal house
58	Porcupine	<i>Hystrix indica</i>	2	Birth	10.01.2019	Nocturnal house
59	Black kite	<i>Milvus migrans</i>	4	Birth	12.01.2019	Aviary
60	Spotted deer	<i>Axis axis</i>	1	Birth	22.01.2019	Deer Safari
61	Spotted deer	<i>Axis axis</i>	1	Birth	24.01.2019	Deer Safari
62	Spotted deer	<i>Axis axis</i>	1	Birth	28.01.2019	Deer Safari
63	Sambar	<i>Cervus unicolor</i>	1	Birth	02.02.2019	Deer Safari
64	Sambar	<i>Cervus unicolor</i>	1	Birth	04.02.2019	Deer Safari
65	Spotted deer	<i>Axis axis</i>	1	Birth	07.02.2019	Deer Safari
66	Spotted deer	<i>Axis axis</i>	1	Birth	09.02.2019	Deer Safari
67	Painted Stork	<i>Mycteria leucocephala</i>	3	Birth	10.02.2019	Aviary
68	Spotted deer	<i>Axis axis</i>	1	Birth	11.02.2019	Deer Safari
69	Spotted deer	<i>Axis axis</i>	1	Birth	18.02.2019	Deer Safari
70	Painted Stork	<i>Mycteria leucocephala</i>	3	Birth	20.03.2019	Aviary
71	Blossom headed parakeet	<i>Psittacula roseate</i>	3	Birth	20.03.2019	Aviary
72	Blossom headed parakeet	<i>Psittacula roseate</i>	3	Birth	29.03.2019	Aviary
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25 Mortality of animals

Sr. No.	Animal Name	Sex	No.	Date	Cause of Death
1	JACKAL	Female	1	04.04.2018	Hypovolumic shock
2	JACKAL	Male	1	11.04.2018	Hypovolumic shock
3	OSTRICH	Female	1	24.04.2018	Hemorrhagic enteritis
4	INDIAN WOLF	Male	1	13.05.2018	Hepatitis
5	LEOPARD	Male	1	17.05.2018	Renal failure
6	STAR TORTOISE	Unk	1	04.06.2018	Shock caused by Urine retention
7	LEOPARD	Male	1	05.06.2018	Renal failure
8	SWAP DEER	Female	1	08.06.2018	Senile changes of internal organs
9	STAR TORTOISE	Unk	1	18.06.2018	Acuterespiratory distress
10	BLUE BULL	Female	1	13.06.2018	Senile changes of internal organs
11	LEOPARD	Male	1	04.07.2018	Septicemia
12	CHINKARA FAWN	Male	1	04.07.2018	Predation
13	INDIAN ROOFED TURTLE	Unk	1	19.07.2018	Chronic respiratory problem
14	CHINKARA	Female	1	03.08.2018	Senile changes of internal organs
15	ASSAMESE MACAQUE	Female	1	06.08.2018	Senile changes of internal organs
16	DOVE	Unk	1	11.08.2018	Acuterespiratory distress
17	BARKING DEER	Male	1	18.08.2018	Senile changes of internal organs
18	STAR TORTOISE	Unk	1	20.08.2018	Hepatocellular changes
19	SPOONBILL	Unk	1	28.08.2018	Acuterespiratory distress
20	INDIAN ROOFED TURTLE	Unk	1	29.08.2018	Acuterespiratory distress
21	RING NECKED PHEASANT	Male	1	01.09.2018	Senile changes of internal organs
22	WHITE IBIS	Unk	1	03.09.2018	Acuterespiratory distress
23	WHITE IBIS	Unk	1	04.09.2018	Acute invasive mycotic pneumonia
24	STAR TORTOISE	Unk	1	11.09.2018	Necrotic gastroenteritis
25	INDIAN ROOFED TURTLE	Unk	1	16.09.2018	Hepatitis
26	LEOPARD	Male	1	21.09.2018	Multiple organ failure
27	MOUSE DEER	Unk	1	22.09.2018	Enteritis
28	BLACK BUCK	Female	1	24.09.2018	Asphyxia
29	WHITE BUCK	Female	1	26.09.2018	Senile changes of internal organs
30	OSTRICH	Female	1	26.10.2018	Gastroenteritis
31	FELLOW DEER	Male	1	27.10.2018	Respiratory Distress



32	BARNOWL	Unk	1	05.11.2018	Pneumonitis
33	WHITE BUCK	Female	1	12.11.2018	Internal hemorrhage
34	INDIAN WOLF	Female	1	08.12.2018	Suppurative hepatitis and renal lesion leading to CV collapse
35	ELEPHANT	Male	1	10.12.2018	Degenerative senile lesion to be correlated with HPE examination
36	STAR TORTOISE	Unk	1	04.01.2019	Acuterespiratory distress
37	INDIAN ROOFED TURTLE	Unk	1	05.01.2019	Pneumonitis
38	BLACK BUCK	Female	1	06.01.2019	C-V collapse and generalized debility lesions
39	MARSH CROCDILE	Male	1	13.01.2019	C-V collapse and generalized debility lesions
40	LEOPARD	Male	1	20.02.2019	Chronic renal failure
41	CIVET	Male	1	20.02.2019	Anaphylactic shock
42	GAUR	Male	1	20.02.2019	Acute pneumonitis
43	SARUS CRANE	Male	1	27.02.2019	Hemorrhagic shock
44	INDIAN ROOFED TURTLE	Unk	1	01.03.2019	Acuterespiratory distress
45	SAMBAR	Male	1	14.03.2019	Multiple organ failure due to peritonitis
46	CHAKUR	Male	1	23.03.2019	Intracranialhemorrhage due to head injury
47	BUDGRIGAR	Unk	1	25.03.2019	Degenerative senile lesion
48	BUDGRIGAR	Unk	1	29.03.2019	Degenerative senile lesion

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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 partially. The work in this regard will be undertaken shortly



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	An appropriately designed kraals in respect of lion is in place. The component for creating open kraals in respect of Bengal tigers has been incorporated under PUNCAMPA 2020-21 whose financial allocation has been year marked and estimates are under the process of approval. This work will be done 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 bound" 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 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. It required 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 Canidae enclosure has been shifted. The abandoned canidae 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 Center.	Two Years	An off display area for rescued Leopards is under planning and this condition will be implemented in due course of time.
13	4	White peacock aviary is too small in dimension. It's area should be extended.	Six months	The new walk in aviary has been created with large size enclosures for different birds including peacock. The white peacock presently displayed in small cage will be shifted to newly designed aviary shortly.
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 periphery of the enclosure.	Six months	This condition is being implemented in letter and spirit and viewing area is decreased one third of the periphery of enclosure by raising the green fence.
16	4	Water bird aviary should be camouflaged by planting of shrubs and bamboos to maintain privacy for birds.	Six months	This condition is being implemented in letter and spirit and viewing area is enriched by raising the greenery along the barrier.
17	4	The reptile house should have appropriately designed visitors' gallery. The size of the display chamber should be increased merging neighboring enclosures.	Six months	Reptile house with appropriate designed display chambers having proper enrichment and visitor gallery has already been established.
18	4	Nocturnal house should be properly furnished with requisite signage and fittings to make it educative and functional.	Six months	Interpretative material and signages for whole zoo including nocturnal house is under process under project of Asian Development Bank (Tranch - 3) for the Chhatbir zoo. The nocturnal house will be fitted with signages very shortly.
19	4	Crocodile enclosure is too small. It needs to be redesigned/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 2020-21.
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 pheasant enclosures chambers are having dimensions as per CZA guidelines however possibilities are being explored for further increasing the area.
21	4	Good efforts for environmental enrichment of enclosures have been done but it looks to artificial. Efforts to be made to make it naturalistic by planting tress an shrubs.	Six months	Naturalistic enrichment by planting trees and shrubs have been done in most of the enclosures.
22	4(9)	Stand-off barriers at some of the enclosures is too high. These are too law 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 of 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.



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 house is being created with a reasonable distance from the kitchen.
25	5	Tiger and Lion enclosures should have pucca flooring leaving no empty space below the floor. The wooden feeding platform should be detachable so that thorough cleaning of meat traces and blood can be done.	Six months	The pucca flooring has been done in respect of Lion houses and Tiger houses.
26	5(2)	The zoo should have appropriately designed water storage tank.	Two year	The execution of constructing 5 lakh Lt storage water tank is under process.
27	5(6)	Curatorial staff should maintain records of the biological behavior 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	Zoo hospital is maintaining adequate number of wards in respect to animals, birds, reptiles and other live stocks.
29	6(6)	The zoo should have an MoU with the Center of Wildlife Sciences, Ludhiana on veterinary diagnosis and veterinary research.	Immediate effect	Zoo authorities are constantly in touch with head of center for wildlife sciences, GADVASU, Ludhiana for appropriate action.
Post-mortem and disposal of carcasses of animals :				
30	7(1)	Post mortem room of the zoo should have a proper changing room and shower facility and appropriate post-mortem equipment.	Three months	The compliance has been done.
Acquisition and breeding of animals :				
31	9(4)	Mates should be arranged for single jaguar, swan and fallow deer.	Six months	The issue of pairing of Jaguar is being taken up on priority with other zoos of India. Pairing of Swan has been done. Fallow Deer has expired.
Research activities :				
32	10(1)	The zoo should have detailed Disaster Management Plan and should have mock drills regularly.	Immediate effect	Quick response team has already been constituted and to implement Disaster Management Plan mock drills are being initiated.
33	10(1)	Zoo should have a detailed research plan and execute it effectively.	Immediate effect	Detailed research plan is under process of being executed.
Visitors Facilities :				
34	12(3)	Zoo should have ramp and wheel chairs to facilitate the differently abled persons.	Immediate effect	The wheel chairs are in place and ramp has been made where needed for facilitating differently abled persons.
General observations :				
35	General	There are many exotic trees especially Eucalyptus (disambiguation) in the zoo which are posing a potential threat to the animal enclosures, boundary wall, building and other infrastructure of zoo. These exotic tree species should be		Plan is being made to replace exotic trees like eucalyptus with indigenous tree species of the region in phased manner, as per rules.



	replaced with indigenous tree species of the region which will improve the vegetation cover and ecological ambiance of the zoo.	
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27 List of free living wild animals within the zoo premises

a. 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>

b. Birds

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



27	Purple heron	<i>Ardea purpurea</i>
28	Indian Pond heron or Paddy bird	<i>Ardeola grayii</i>
29	Cattle egret	<i>Babulcus ibis</i>
30	Large egret	<i>Egretta alba</i>
31	Smaller or Median egret	<i>Egretta</i>
32	Little egret	<i>Egretta garzetta</i>
33	Night heron	<i>Nycticorax nycticorax</i>
34	Painted stork	<i>Mycteria leucocephalus</i>
35	Whitenecked stork	<i>Ciconia episcopus</i>
36	Ruddy shelduck or Brahminy duck	<i>Tadorna ferruginea</i>
37	Pintail	<i>Anas acuta</i>
38	Common teal	<i>Anas Crecca</i>
39	Spotbill duck	<i>Anas poecilorhycha</i>
40	Mallard	<i>Anas platyrhynchos</i>
41	Gadwall	<i>Anas Penelope</i>
42	Shoveller	<i>Anas clypeata</i>
43	Common Pochard	<i>Aythya ferina</i>
44	Comb Duck	<i>Sarkidiornis melanotos</i>
45	Blackwinged Kite	<i>Elanus careruleus</i>
46	Crested honey buzzard	<i>Pernis Ptilorhynchus</i>
47	Pariah Kite	<i>Milvus migrans</i>
48	Shikra	<i>Accipiter badius</i>
49	Asiatic Sparrow Hawk	<i>Accipiter nisus</i>
50	Greater spotted eagle	<i>Aquila clanga</i>
51	Lesser spotted eagle	<i>Aquila pomarina</i>
52	Marsh harrier	<i>Circus aeruginosus</i>
53	Crested serpent eagle	<i>Spilorins cheela</i>
54	Black partridge	<i>Francolinus francotinus</i>
55	Grey partridge	<i>Francolinus pondicerianus</i>
56	Grey quail	<i>Coturnix coturnix</i>
57	Jungle bush quail	<i>Perdica asiatica</i>
58	Indian Pea Fowl	<i>Pavo cristatus</i>
59	Little bustard quail	<i>Turnix sylvatica</i>
60	Indian bustard quail	<i>Turnix suscitator</i>
61	Demoiselle crane	<i>Anthropoides virgo</i>
62	Ruddy crane	<i>Porzana fusca</i>
63	Moorhen	<i>Gallinula chloropus</i>
64	Coot	<i>Fulica atra</i>
65	Whitetailed lapwing	<i>Vanellus leucurus</i>



66	Redwattled lapwing	<i>Vanellus indicus</i>
67	Blackwinged stilt	<i>Himantopus himantopus</i>
68	Green Pigeon	<i>Treron phoenicoptera</i>
69	Blue rock pigeon	<i>Columba livia</i>
70	Rufous turtle dove	<i>Streptopelia orientalis</i>
71	Ring dove	<i>Streptopelia decapcto</i>
72	Spotted dove	<i>Streptopelia chinensis</i>
73	Rose ringed parakeet	<i>Psittacula eupatria</i>
74	Blossom headed parakeet	<i>Psittacula cyanocephala</i>
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	Centropus Sinensis Sinensis
79	Barn owl	<i>Tyto alba</i>
80	Collared scops owl	<i>Otus bakkamoena</i>
81	Great horned or Eagle owl	<i>Bubo bubo</i>
82	Dusky horned owl	<i>Bubo coromadus</i>
83	Brown fish owl	<i>Bubo Zeylonensis</i>
84	Spotted owlet	<i>Athene brama</i>
85	Indian Jungle night jar	<i>Caprimulgus indicus</i>
86	House swift	<i>Apus affinis</i>
87	Palm swift	<i>Cypsiurus parvus</i>
88	Small blue kingfisher	<i>Alcedo atthis</i>
89	Blue tailed bee eater	<i>Merops philippinus</i>
90	Small green bee-eater	<i>Merops orientalis</i>
91	Hoopoe	<i>Upupa epops</i>
92	Grey hornbill	<i>Tockus birostris</i>
93	Large green barbet	<i>Megalaima zeylanica</i>
94	Lesser golden backed woodpecker	<i>Dinopium benghalense</i>
95	Golden oriole	<i>Oriolus oriolus</i>
96	Black drongo or king crow	<i>Dicrurus adsimilis</i>
97	Blackheaded or Brahminy myna	<i>Sturnus pagodarum</i>
98	Common myna	<i>Acridotheres tristis</i>
99	Bank myna	<i>Acridotheres ginginianus</i>
100	Tree pie	<i>Dendrcitta vagabunda</i>
101	House crow	<i>Corvus splendens</i>
102	Jungle Crow	<i>Corvus macrorhynchos</i>
103	Redvented bulbul	<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 saularis</i>
111	River chat or whitecapped redstart	<i>Chaimarrornis leucocephalus</i>
112	Indian robin	<i>Saxicoloides fulicata</i>
113	Tree creeper	<i>Certhia himalayana</i>
114	Purple sunbird	<i>Nectarinia asiatica</i>
115	House sparrow	<i>Passer hispaniolensis</i>
116	Baya weaver bird	<i>Ploceus philippinus</i>
117	Blackthroated weaver bird	<i>Ploceus benghalensis</i>
118	Red munia or Avadavat	<i>Estrilda amandava</i>
119	Whitethroated munia	<i>Lochura malabarica</i>
120	Spotted munia	<i>Lochura punctulata</i>
121	Crested bunting	<i>Melophus lathami</i>

c. Reptiles

S. No	English Name	Scientific Name
1	Python (Indian rock)	<i>Python molurus molurus</i>
2	Bengal Monitor	<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	Checkerd keel back	<i>Xenochrophis piscator</i>
9	common krait	<i>Bungarus caeruleus</i>

