M.C.Zoological Park Chhatbir



Annual Report for the year 2017-18



CONTENTS

Sr. No.	Section	Page No.
1.	Report of the Officer-in-charge	3
2.	History of the Zoo	4
3.	Vision	5
4.	Mission	5
5.	Objective	5
6.	About us	5
7.	Organizational Chart	7
8.	Human Resources	7
9.	Capacity Building of the zoo personnel	11
10.	Statement of income and expenditure of the Zoo	11
11.	Daily feed Schedule of animals	12
12.	Vaccination Schedule of animals	21
13.	De-worming Schedule of animals	22
14.	Disinfection Schedule	23
15.	Development Works carried out in the zoo during the year	25
16.	Education and Awareness programmes during the year Important Events and happenings in the zoo	31
17.	Seasonal special arrangements for upkeep of animals	44
18.	Research Work carried out and publications Conservation Breeding Programme of the Zoo	48
19.	Animal acquisition / transfer / exchange during the year	58
20.	Rescue and Rehabilitation of the wild animals carried out by the zoo	60
21.	Annual Inventory of animals	62
22.	Mortality of animals.	69
23.	Status of the Compliance with conditions stipulated by the Central Zoo Authority	72
24.	List of free living wild animals within the zoo premises	76



1. From the desk of Field Director



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 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, hazzle 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, Punjab.



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 cooperation, 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 27thNovember 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**: The mission of the zoo has been to educate and motivate the visitors of the zoo for better wildlife conservation values.
- 5. Objectives of the Zoo: M. C. Zoological Park, Chhatbir aims to compliment and strengthen the national efforts in conservation of endangered and rare species of wild fauna. Since its beginning, the park has aimed at the following objectives:
 - To support conservation of endangered and rare species through breeding under captive conditions.
 - To educate, motivate and create awareness in the society about the need for conserving wildlife, biodiversity and natural resources.
 - To provide opportunities for scientific research on wild fauna.

6. About us

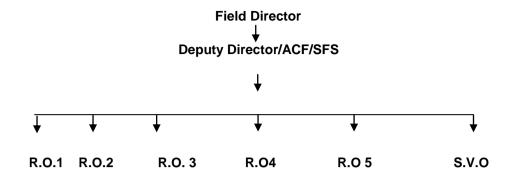
	Basic Information about the Zoo			
Sr. No.	Particulars	Information		
1.	Name of the Zoo	M.C.Zoological Park, Chhatbir		
2.	Year of Establishment	1977		
3.	Address of the Zoo	V.P.O Chhat, Tehsil: Derabassi, District : Sahibzada Ajit Singh Nagar PIN: 140601 (PUNJAB)		
4.	State	PUNJAB		
5.	Telephone Number	-		
6.	Fax Number	-		
7.	E-mail address	mczpchhatbir@gmail.com		
8.	Website	www.chhatbirzoo.gov.in		
9.	Distance from nearest	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 (2017-18)	Adult : 502060 Children : 256859		



		Total Indian : 758919
		Total Foreigners : Data not counted
		Total Visitors : 758919
14.	Visitors' Facilities Available in Zoo	 Battery operated vehicles: Introduced in 2009, the facility to run16 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 3 canteens, and an ice-cream parlor Guide map near the main gate Directional signs and display boards wherever suitable
15.	Weekly Closure Day of the Zoo	Monday
	Management Personr	nel 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	-
	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 o	
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



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)

8. Human Resources

Manpower of the Zoo*

STATEMENT SHOWING CADRE WORKING AND VACANCY POSITION OF DEPARTMENT OF FOREST

SR.	NAME OF DOCT	F.D (Zoo) as on 31/03/18				
NO.	NAME OF POST	NAME OF POST Name of Employee Cadre		Working	Vacant Posts	Remarks
1	2	3	4	5	6	7
1	IFS (senior duty post)	Dr. M.Sudhagar, IFS	1	1		
2	Senior veternary Officer (Zoo)	Dr. Ashish Kumar	1	1		
3	EACF		2	0	2	
4	Suprintendent	Sh. Gurmeet Singh	1	1		
5	Senior Assistant	Sh. Surinder Kumar	2	1	1	
6	Clerk/Jr.Assistant	1.Sh. Avtar Singh 2.Sh. Amritpal Singh	7	2	5	
7	Technical Assistant		2	0	2	
8	Junior Engineer	Sh. Balwinder Singh	1	1		



9	Forest Ranger	1.Sh. Ravinder Singh	4	2	2	
	Torest Ranger	2.Sh. Rakesh Chander	7	2	2	
10	Dy.Ranger	1.Sh. Bhalinder Singh 2.Sh. Makhan Singh	6	2	4	
11	Forester	1.Sh. Karnail Singh 2.Sh. Harpal Singh 3.Sh. Gurmeet Singh 4.Sh. Pritpal Singh	4	4	-	
12	Forest Guard	1.Sh. Charanjit 2.Sh. Dhanwinder Singh 3.Miss Kulwinder kaur 4.Sh. Rupinder Singh 5.Sh. Kulwinder Singh 6.Sh. Shivjot Singh 7.Sh. Anil Kumar 8.Sh. Malkeet Singh 9.Sh. Gagandeep Singh 10.Sh. Mohan Singh	10	10	-	
13	Veternery Compounder	1.Sh. Bajinder Kumar 2.Sh. Ramdev ji 3.Sh. Surinder Singh	3	3		
14	Veternery Attendent		3	0	3	
15	PRO Forest & Wildlife		1	0	1	
16	Drivers	1.Sh. Labh Singh 2.Sh. Amrik Singh 3.Sh. Subhash Chander 4.Sh. Baljit Singh	4	4	۸	
17	Zoo Sucurity supervisor		2	0	2	
18	Zoo Lab Technician	1.Sh. John Daniel 2.Smt. Baljit Kaur	2	2	-	
19	Head Cook	Sh. Prem Dutt	2	0	2	
20	Cook		2	0	2	
21	Multipurpose Worker	1.Sh. Bala Ram 2.Sh. Malkeet Singh 3.Sh. Gurmail Singh S/o Sh. Chet Singh 4.Sh. Balraj Singh 5.Smt. Raghunathi 6.Sh. Iqbal Singh 7.Sh. Amarjit Singh S/o Sh. Prem Singh 8.Sh. Avtar Singh 9.Sh. Seo Ram S/o Sh. Surjan Singh 10.Sh. Jaggar Singh 11.Sh. Dalbir Singh 12.Sh. Gurcharan Singh	30	46		



		13.Sh. Jamil 14.Sh. Des Raj 15.Sh. Ram Singh 16.Sh. Harbans Singh 17.Sh. Guljaar Singh 18.Sh. Maghi Ram 19.Sh. Manga Singh 20.Sh. Sunil Kumar 21.Sh. Pritam Singh 22.Sh. Balwant Singh 23.Sh. Gurnam Singh 24.Sh. Sardool Singh 25.Sh. Darshan Singh 26.Sh. Ghanshyam 27.Sh. Ajaib Singh 28.Sh. Surinder Singh 30.Sh. Gurpal Singh 30.Sh. Gurpal Singh 31.Sh. Darbara Singh 32.Sh. Surinder Singh 30.Sh. Balwant Singh 31.Sh. Darbara Singh 32.Sh. Surinder Singh 33.Sh. Surinder Singh 34.Sh. Balwant Singh 35.Sh. Parkash Singh 35.Sh. Parkash Singh 36.Sh. Sukhbir Singh 37.Sh. Amarjeet Singh 38.Sh. Ranjeet Singh 39.Sh. Sushil Kumar 40.Sh. Raj Kumar 41.Sh. Surinder Singh 37.Sh. Balwant Singh 38.Sh. Rajeet Singh 39.Sh. Sushil Kumar 40.Sh. Raj Kumar 41.Sh. Surinder Singh 37.Sh. Amarjeet Singh 38.Sh. Ranjeet Singh 39.Sh. Sushil Kumar 40.Sh. Raj Kumar 41.Sh. Surinder Singh 42.Sh. Balwant Singh 43.Sh. Anish Mohammad 44.Sh. Surjit 45.Sh. Prem Singh 46.Smt. Shakuntla 47.Sh. Bahadur 48.Sh. Mangat Ram				
		Sh. Anish Mohammad Sh. Surjit Singh Sh. Prem Singh Smt. Shakuntla Sh. Bahadur Sh. Mangat Ram				
22	Peon	Smt. Surinder Kaur Smt. Devi Suri Devi	3	2	1	



23	Zoo Keeper	1.Smt. Deepa Sharma 2.Sh. Makhan Singh 3.Sh. Sudhir Kumar 4.Sh. Dharampal Singh 5.Sh. J.P Nath 6.Sh. Charanjit Singh 7.Sh. Hounsla Parshad 8.Sh. Sonu Singh 9.Sh. Prithti Singh 10.Sh. Mewa Singh 11.Sh. Bant Singh 12.Sh. Mukhtiyar Singh 13.Sh. Khushaal Singh 14.Sh. Bittu 15.Sh. Moti Ram 16.Sh. Karan Singh 17.Sh. Rehmtulla	27	17	10	
24	Head Zoo Keeper		4	0	4	
25	Sanitary Inspector	Sh. Ravinderpal Singh	2	1	1	
26	Head Hygiene Worker/Hygiene Worker	1.Sh. Gurmail Singh 2.Smt. Sunita 3.Sh. Gurnam Singh 4.Sh. Jasveer Singh 5.Sh. Shiv Charan 6.Smt. Sukhmeet Kaur	23	6	17	
27	Mahavat	Sh. Aujid Thakuria	4	1	3	
28	Mechanic	Sh. Apar Apaar Singh	7	1	6	
Without Cadre						
29	Beldar	1.Sh. Apurba Deka 2.Sh. Sat Narayan 3.Sh. Pitamber	0	3		
	Total			112		



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.	Harpal Singh, ZEO	Middle level officer training by CZA	10/12/2017 to 14/12/2017	Sanjay Gandhi Biological Park, Patna.
2.	Dr. M Sudhagar IFS, Field Director	Mission 20-20 (Indian Zoos)	18/12/2017 to 21/12/2017	Sh. Chamarajendra Zoological Park, Mysoore.

10. Statement of income and expenditure of the Zoo

Expenditure of M.C Zoological Park chhatbir Zoo (2017-18)

Sr. No.	Name of Scheme	Actual Expenditure in 2017-18
1	Non Plan	87196642
2	Plan Scheme(Ft.21)	15686467
3	Pun Campa	22238319
4	Punjab Zoos Development Society	23472161
	Total	149688219

Revenue of Punjab Zoos Development Society, M.C. Zoological Park. (2017-18)

Sr. No.	Head	Sub head	Revenue of all wildlife division in 2017-18
1	2	3	4
1	Membership fee	-	
		i) Donation	33500
		ii) Endowments	
	Funds obtained through	iii) Bequests,	
2	national and international	iv) Gifts.	
	sources	v) Contributions	73700
		vi) Adoptions(Animal Adoption Scheme).	1204438.9
	Grants &/or Grant -in-aid,	i) Central Govt.	
3	recurring and non-recurring grants from following	ii) State Govt.	
	sources.	iii) Local Bodies/Corp. etc.	200000
		Sale of entry tickets.	38044520.38
4	Other Sources	Interest from PZDS Saving bank account including FFD	2602236
		3) Tax Refund (F.Y 2014-15) by Income Tax Department.	0
5		4) Misc.	146042
		Total	42304437.28



11. 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		
1 _	Gur	0.1		
2	Gui	0.1		



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			
Flankert (haka)					
	Elephant (baby)				
1	Mix crushed roti	1			
2	Gur	0.5			
3	Black Gram	1			
4	Banana	3 no.			
5	Papaya	0.3			
6	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	3 Cabbage	
	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	4 Grass		
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	3 Papaya			
4	4 Palak			
5	Carrot	0.1		
6	Cabbage	0.1		
7	Cucumbe	0.1		
	Extra Diet/Remarks			
2	Ice for Beer	100		
4	Water Mellon (apx)~	On Vet's recomendation		
5	5 Chicken/mutton on			
	in case of sick, oldage			
Preprations				
Wheat 20% Maize 20% Mix crushed for Birds Jawar 20% Black gram 20% Rice Kani 20%				
	Wheat 25% Sabat dana For Birds Paddy 20% Bajra 25%			
Black Mix crushed for Mammals Mai Bar				

12. 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	



13. De-worming Schedule of animals

Sr.No.	Species	Drug used	Month
1	Lion	Ivermectin	Aug-Sep 2017
2	Tiger	Ivermectin	Aug-Sep 2017
3	Leopard	Ivermectin	Aug-Sep 2017
4	Jaguar	Ivermectin	Aug-Sep 2017
5	Hyena	Fenbendazole	Aug-Sep 2017
6	Jackal	Fenbendazole	Aug-Sep 2017
7	Cats	Fenbendazole	Aug-Sep 2017
8	Hippo	Albendazole/Ivermectin	Aug-Sep 2017
9	Porcupine	Fenbendazole	Aug-Sep 2017
10	Owl/Fruit Bat	Syp. Albomar	Aug-Sep 2017
11	Elephant	Albendazole	Aug-Sep 2017
12	Deers	Albendazole/Fenbendazole	Aug-Sep 2017
13	Bears	Albendazole/Ivermectin	Aug-Sep 2017
14	Wild Boar	Ivermectin	Aug-Sep 2017
15	Primates	Ivermectin	Aug-Sep 2017
16	Birds	Syp. Albomar	Aug-Sep 2017
17	Bison	Fenbendazole	Aug-Sep 2017
18	Reptiles	Syp. Albomar	Aug-Sep 2017

Sr.No.	Species	Drug used	Month
1	Lion	Fenbendazole	Feb-Mar 2018
2	Tiger	Fenbendazole	Feb-Mar 2018
3	Leopard	Fenbendazole	Feb-Mar 2018
4	Jaguar	Fenbendazole	Feb-Mar 2018
5	Hyena	Fenbendazole	Feb-Mar 2018
6	Jackal	Fenbendazole	Feb-Mar 2018
7	Wolf	Fenbendazole	Feb-Mar 2018
8	Cats	Praziquantel/Pyrantel Pamoate/	Feb-Mar 2018
	Cats	Fenbendazole	1 CD-IVIAI 2010
9	Hippo	Fenbendazole	Feb-Mar 2018
10	Porcupine	Praziquantel/Pyrantel	Feb-Mar 2018
10	1 Oreapine	Pamoate/Fenbendazole	1 CD Wal 2010
11	Owl/Fruit Bat	Syp. Piperazine	Feb-Mar 2018
12	Elephant	Fenbendazole	Feb-Mar 2018
13	Deers	Albendazole/Praziquantel/Pyrantel	Feb-Mar 2018
10	Boots	Pamoate/ Fenbendazole	1 05 Wai 2010
14	Bears	Fenbendazole	Feb-Mar 2018
15	Wild Boar	Fenbendazole	Feb-Mar 2018
16	Primates	Fenbendazole	Feb-Mar 2018



17	Birds	Syp. Piperazine	Feb-Mar 2018
18	Bison	Fenbendazole	Feb-Mar 2018
19	Reptiles	Syp. Albomar	Feb-Mar 2018

14. Disinfection Schedule of Animal Complexes for 2017-18

S.No	Name of Complex	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	Monkey Complex-	•	•	0	0	•	0	•	0	0	0	0	•
2	Monkey Complex-	•	•	•	•	•	•	•	•	•	•	0	•
3	Tiger Complex	•	•	0	•	•	0	•	•	•	0	0	•
4	Hippo Complex	•	•	•	•	•	•	•	•	•	•	•	• • •
5	Emu Complex	•	•	0	•	•	0	•	•	•	•	•	•
6	Elephant Complex	•	•	0	0	•	•	•	•	•	•	•	•
7	Lion Safari Complex	•	•	•	0	•	0	0	0	0	0	•	•
8	Leopard Complex	•	•	•	•	•	0	0	0	•	0	0	•
9	Cat Complex	•	•	•	0	•	•	•	0	•	•	•	0
10	Bear Complex	•	•	0	0	•	0	•	•	•	•	0	•
11	Bird Aviary	•	0	•	•	0	•	•	•	•	•	•	•



12	Pheasantry	•	•	•	•	•	•	•	•	•	•	•	•
13	Small Deer Complex	•	•	•	•	•	•	•	•	0	•	•	•
14	Off Display Area	•	•	0	0	•	•	•	•	0	0	•	•
15	Deer Safari Complex	•	•	0	•	•	•	•	•	0	0	•	•
16	Small Bird Aviary	•	•	•	•	0	0	•	0	•	0	0	•
17	Zebra Complex	•	•	0	0	0	0	0	0	•	0	0	•
18	Swamp Deer Complex	•	•	0	0	0	0	•	0	•	•	•	•
19	Blue Bull Complex	•	•	0	•	0	•	•	0	•	•	•	•

•

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

MARI

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 floor duster effectively

Fortnightly disinfection schedule

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

15. Development Works carried out in the zoo during the year (2017-2018)

Walk in Aviary

The walk-through aviary for indigenous and exotic birds is a unique exhibit of its kind in the country. There are total five theme based exhibits in the aviary. The walk-through aviary has various landscape elements to enhance the beauty of the exhibits and water bodies with meandering water channel having wooden boardwalks, paved walkways along with different kinds of galleries & railings as per the themes. Every exhibit has a separate entry and exit point linked with other exhibit by an interpretative gallery.



Entry and Exit points:

To represent the birds and their habitat in the Walk in Aviary, a grand and thematic entry and exit points has been created.





In addition to the existing landscape, hundreds of selected plants have been planted to provide perches and hiding places for the birds housed.

There are enough feeding points and nest boxes for use of the birds selectively. The inmates of the aviary are a mixture of arboreal, terrestrial and aquatic birds. It is a visitor's delight to view the free flying birds overhead.



Terrestrial concept:



The Terrestrial exhibit has predominantly Terrestrial Birds such as Rose Ringed Parakeet, Alexandrine Parakeet, Cattle Egret, Little Egret, Eurasian Spoonbill, Eurasian Collared Dove, White Ibis, White Breasted Water hen, Common Moorhen, Indian Pond Heron and Night Heron.

Rock & Duck concept:



This section of the Walk-in Aviary consists of aquatic birds including Migratory Ducks such as Spot-Billed Duck, Comb Duck, Black Swan and Lesser Whistling Duck.



Woodland concept:



The Woodland exhibit has a beautiful pair of Sarus Cranes with Jungle Bush Quail, Black Partridge and Common house sparrow. In addition to that a Mini Aviary has been created for the exotic species like Diamond Dove, Grey Cockatiel, Zebra Finches, Budgerigar and Java sparrow.

Japanese design concept:



This exhibit has a beautiful young pair of Sarus Cranes along with Jungle Babbler, Red Jungle Fowl, Tree Pie, Red Wattled Lapwing and Indian Grey Partridge.



Rainforest concept:



Largest among the exhibits, this design has a huge waterfall facility with artificial rain shower system to simulate the environment of the rainforest Ecosystem. It accommodates Painted Stork, Rosy Pelican, Grey Pelican, White Stork, Woolly-Necked Stork and Black Necked Stork.





Externally aided projects

To facilitate the cleanliness and visitors satisfaction at Chhatbir zoo, some important components have been developed like development of Primary loop with re-metaling of primary circulation along with interlocking pavers (for walking) at both sides, construction of new Kiosk near Lion safari entrance and development of eight new visitor shelters at different locations inside zoo. These three components were being developed under ADB funded project by the Punjab Heritage and Tourism Promotion Board (Statuary body under Department of Tourism, Government of Punjab) and handed over to the zoo authority in this year.









16. Education and Awareness programmes / Important Events and happenings during the year International Tiger Day 2017



On 29th July 2016 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 togain support through awareness for tiger conservation.

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

general and Tigers in particulars are concerned.



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 zoos role becomes all the more important. So today's celebration of International Tiger day in Chhatbir zoo has play 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.



Celebration of Wildlife Week 20C17 at Chhatbir Zoo

Prepared by: Harpal Singh Zoo Education Officer

Wildlife Week 2017 has been successfully celebrated at Chhatbir Zoo. Various events and activities were organized to create awareness towards "*Nature and Wildlife*". Everything were planned in the month of September 2017 to run all the activities and events smoothly. The entry of the visitors was allowed free during Wildlife week 2017 from 3rd October 2017 to 8th October 2017. Proper branding and promotion with banners and news were planned and covered accordingly.



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 were chalked out to celebrate the wildlife week 2017 is given as under.



Schedule of Events for "Wildlife Week Celebrations,2017"

Date	Events	Tim	е	Remarks				
3.10.2017	Wildlife	9.30 am to	11 am	Mohali				
(Tuesday) Awareness Rally		44.00	4.00					
03.10.2017	Zoo Keppers Talk	11.30 am to		Tiger Complex				
(Tuesday)	(Tuesday) on Tigers Essay Writing		3.30 pm Event Time	Only 3 participant students will be				
	Competition Middle Category Class 6 th to 8 th	Registration Time (10:00 am to 11:00 am)	(11:00 am to 1:00 pm)	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.				
4.10.2017 (Wednesday)	Essay Writing Competition Senior Category Class 9 th to 10 th	Registration Time (10:00 am to 11:00 am)	Event Time (11:30 am to 1:00 pm)					
	Painting Competition Junior Category Class 1st to 5th	Registration Time (10:00 am to 11:00 am)	Event Time (11:00 am to 1:00 pm)	Only 3 participant student will be allowed in each category from one school. Students will be allowed to use only colors provided by				
	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)	the Zoo management. Students will carry their drawing boards only. Only 3 participant students will be				
				allowed in each category from one school.				
	Quiz Competition Senior Category Class 9 th to 10 th	Registration Time (10:00 am to 11:00 am)	Event Time (11:30 am to 1:00 pm)	No limit of Students				
4.10.2017 Reptile expert's Talk and show		11.30 am to 2.00 pm to	•	Reptile house				
5.10.2017 (Thursday)	Zoo Keeper's Talk	11.30 am to 2.00 pm to	•	Elephant Complex				
6.10.2017 Zoo Keeper's Tal (Friday)		11.30 am to 2.00 pm to		Leopard Complex				
7.10.2017 Zoo Keeper's Talk (Saturday)		11.30 am to 2.00 pm to	3.30 pm	Bear Complex				
7.10.2017 (Saturday)	Photography competition for amateur photographers based on theme	11.30 am to 3.30 pm		Theme 1.People animal interface 2.Animal emotions				
7.10.2017 (Saturday	Outreach Educational Activity (Street Play)	5.30 pm to 6.30. pm		Chandigarh or Mohali or zoo				
8.10.2017 (Sunday)	Valedictory function	11.30 am t		Shallow lake park				

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



2nd October 2017

Due to National holiday "Gandhi Jayanti" zoo was closed for the visitors. On this day whole staff of the zoo participated voluntarily in the zoo cleanliness drive as a little contribution in the "Swachh Bharat Mission"

3rd October 2017

On 3rd October, 2017 Chhatbir Zoo organized wildlife awareness campaign in the shape of a rally at Mohali in the collaboration with The Shamrock Sen. Sec. School Mohali. The rally started from the school area of Sector 69 and covered Sector 68, Punjab Forest Headquarters and back to the school. With the Cooperation of Mohali Local Administration and Police, the rally went successful by raising awareness slogans and Wildlife Conservation messages. Around 200 students, teachers and the official team of Chhatbir Zoo participated in this rally with high spirits. By seeing the young kids and dedicated Wildlife team, the Local people became enthusiastic and showed warm waves to the rally. The Chhatbir Zoo has initiated its public outreach programme of the Wildlife Week -2017 by giving a strong message regarding protection and conservation of Wild animals by involving school students. This even has been covered by various newspapers.



Apart from this, Chhatbir Zoo has organised Zoo Keepers talk today. The Zoo Keeper of the Tiger enclosure interacted with the visitors by sharing the knowledge about the importance of Tiger and its behaviour. The visitors, with all the interest, cleared their doubts about the tiger in the zoo and thanked the zoo keeper. This event also published in leading newspapers.







4th October 2017



ZOOS VERSUS FREEDOM

sked to paint on the theme of animals in the wild versus zoos, an estimated 80% of the children delivered a colourful, sensitive and love-filled verdict in favour of the latter. Deeply concerned, children discounted the freedom afforded by jungles and felt that wildlife was happier in zoos, better looked after and fed, and shielded from such threats as poaching/hunting, tree felling, contamination and other forms of human exploitation.

Such an unusual reflection of children's thoughts --- contrary to presumptive notions of freedom's supreme allure --- came to the fore during a painting competition organised at Chhatbir zoo on October 4 to celebrate "Wildlife Week". As many as 168 children (classes 1-8) drawn from 29 tricity schools participated.

The budding and creative souls expressed themselves through imagi-

native blurbs in the paintings such as a peacock declaring to a fellow avian: "Such a great life! The zoo is safer than the forest." That same painting had a parallel depiction of a hunter taking aim at a bird in the jungle and the targeted avian declaring wistfully: "I wish I was in the zoo. At least I was safe there."

The children's quixotic world view tilts against the broad emphasis of governmental forest and wildlife policies or even those lobbies wanting zoos closed. Innocent kids may not have adequate exposure to the wilderness and their views are shaped by a predominantly negative media that lacks a sense of the "bigger picture". However, what cannot be trifled is the children's purity of sentiment. They are right also, to an extent: vultures are safer in captivity than freedom granted in a contaminated, killer countryside!

Hopefully, the wilderness will not



Paintings depict animals and birds feeling safe and happy in zoos.

COURTESY: MC ZOOLOGICAL PARK, CHHATBIR

As a part of Wildlife Week Celebration 2017 in Chhatbir Zoo on 4th October 2017 various students from various schools of nearby areas in which total of 226 students from 22 schools participated in events like Painting competition (Junior and middle category), Essay writing competitions (middle and senior category and Quiz competition. Students shown keen interest in various competitions to make it a successful event. The unique outcome of competition events has been published in a very famous column of Hindustan Times "Wild Buzz"



Apart from above the programme named Reptile expert's talk and show was also conducted at Reptile House which also received great response from students and other visitors. Today the total visitation in the Zoo was 5043 visitors which included near about 2600 school students from about 42 different schools apart from more than 2400 common visitors. This event gave a strong courage to the visitors and this event has been covered in various newspapers



5th October 2017

On 5th October 2017 Zoo Keeper's talk held at elephant complex where the Mahouts of Chhatbir zoo were deputed to satisfy the quarries of the visitors regarding the Elephants.

Although it was a big festive day "Karva Chauth" but 30% more visitors visited on this day. Total presence were 3160 visitor as the average visitation is about 1800 to 2000 visitor per day

6th October 2017

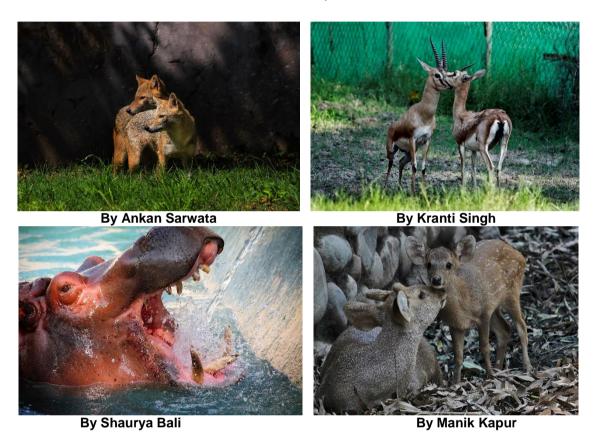
6th October were selected for the Leopard section where the experienced zoo keeper of Chhatbir zoo shared their experience with the visitors. Few local newspaper covered this event. 3160 visitor enjoyed the soothing weather of the zoo on 6th October.



7th October 2017

3 events were scheduled for 7th October one was Zoo Keeper's talk second was photography competition for amateur photographers and third was a street play. Total 46 amateur photographer were register their name for this event.

This photographic competition was based on 2 themes. 1st theme was "*People animal interface*" and 2nd was "*Animal emotions*" Many fantastic pictures were submitted by these photographers which will be used in the future for educational and awareness publication of the zoo.



"Hum Zinda Hain" A strong message on Wildlife protection was depicted through a *nukkad naatak* (street play) by *Alankrit theatre group* on 7th October 2017 at Chhatbir Zoo. It said that the ecological balance should be maintained by conserving wildlife and their habitat. The Visitors were memorized by the wonderful performance by the students volunteers who are also keen wildlife's.

The Bear complex's zoo keeper engages for zoo keeper's talk on 7th October 2017. Total 2941 visitors visited on this day. All the events and activities of the zoo were positively published in the leading newspapers.



Street play, photography competition held to mark National Wildlife Week



Around 46 amature
photographers took
part in the
photography
competition based on
two themes 'Ignored'
wild treasures' and
'Explore the wild
emotion'

recta wild in commoney. They is a common to the story of the s



8th October 2017

The newly acquired animals were released on 8th October in their respective enclosures for the display of the visitors. The Chakur partridges and Royal snakes acquired from



Jammu Zoo in the animal exchange were released by Worthy Principal Chief Conservator of Forests (Wildlife)

The valedictory function of Wildlife Week celebration 2017 was conducted on 08.10.2016 Worthy Principal Chief Conservator of Forests (wildlife), Punjab was the Chief Guest of valedictory day who came along-with Ms. Nidhi Srivastava, IFS, Conservator of Forests (Wildlife), Parks and Protected Areas Circle, Punjab. On this occasion tiny tots of Genius world school presented a play with a great massage on "Save Wildlife Save Mother Earth".

Genius word School also show an exhibition on "Best out of waste" in this exhibition the students and teachers exhibit the beautiful creatures created from the house waste items which can be used as decoration.

After that a massage on conservation of Nature and our social duties towards environment has been given by the worthy Chief Wildlife on this day. He explained about the efforts of the department done for the environmental



Kuldeep Kumar, Principal Chief Conservator of Forests, looks at the art work on display; and (below) pair of Royal Indian Snake in an enclosure at Chhat Bir Zoo on Sunday. PHOTOS: NITIN MITTAL

CHANDIGARH Tribune Mon, 09 October 2017 epaper.tribuneindia.com//c/22755.



protection and Wildlife conservation. He also express his thoughts regarding global environmental



threats and congratulate to the Zoo Authorities for their successful celebrations of wildlife week 2017. He specially mentioned about the article "Wild buzz" published in the newspaper.





Contribution to create nature awareness of Chhatbir zoo and other protected areas of the state were explained by the Zoo Controller and

Conservator of Forest (Wildlife) Ms. Nidhi Srivastva in her speech.

After that the Vote of Thanks were presented by the Field Director Chhatbir Zoo Dr. M.Sudhagar IFS. He threw a light on the contribution of all the NGOs, Institutes, Volunteers and staff of the zoo who make Wildlife Week Celebrations successful.



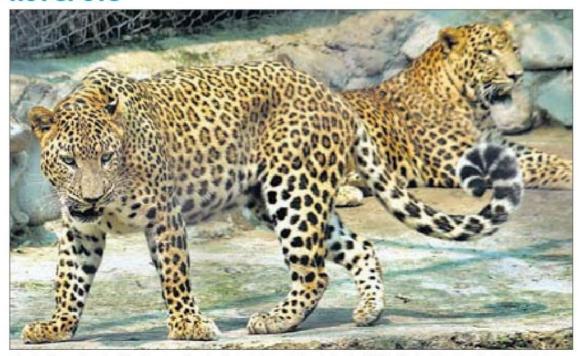
The Volunteers, Coordinators, Leading adopters and winners of the various competitive events were awarded with trophies and certificates. The participation certificates were distributed to all the students who participated in these competitions.







HOT SPOTS



 A pair of leopards at the Chhatbir zoo on Tuesday. Entry to the zoo is free during the Wildlife Week celebrations that will culminate on Sunday. The authorities have lined up a number of activities during the week. >>MORE ON P5



WILDLIFE WEEK

Chhatbir Zoo adds three new species to its family

Shub Karman Dhaliwal

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MOHAU: Ahead of the National Wildlife Week, Mahendra Chaudhary Zoological Park—popular as Chhatbir Zoo—has welcomed seven new members belonging to three species—Indian wolf, Royal snake and Chukar partridge.

With this, the total number of species at the zoo has reached 103. According the inventory that took place in June this year, the zoo has 1,250 birds and animals.

Acclimatising to the new environment right now, the new entrants will be released in their enclosures for public viewing by October 8, during the weeklong celebrations that begin on Tuesday.

EXCHANGE PROGRAMME

The zoo authorities have brought in three wolfs in exchange of swamp deers in an exchange programme with the Jaipur zoo.

"At present, no one is allowed to enter their enclosure or even meet them apart from the zookeeper. However, we will unveil them during the wildlife week celebrations," said M Sudhagar, field director of the zoo.

Among other exchanges is a new reptile: Royal snake, which has two to three distinct patterns during different life stages. It is found in deserts and semi-arid regions



 A representative image of Indian wolf. Still acclimatising to the new environment, the seven animals and birds will be released in their enclosures for public viewing by October 8.

of North-West India—from Kutch in Gujarat to non-Himalayan parts of Jammu and Kashmir. The zoo has acquired two of these snakes in an exchange programme with the J&K zoo.

Also, adding to its tally of birds, the zoo has brought two Chukar Partridges in exchange of a painted stork from J&K. The bird has well-marked black and white bars on the flanks and black band running from the forehead across the eye. The bird is around 32-35cm long with a light brown back, grey breast and buff belly.

The other recent entries in the zoo are grey pelicans, star tortoise, ostrich, otters and mouse deer.

In an outreach programme, the zoo officials will hold an awareness rally for schoolchildren in Mohali on Tuesday morning. Also, zookeepers will hold an

THE NEW ENTRANTS

Indian wolf: A sub specie of grey wolf, it is found in the Indian subcontinent. They are smaller, more slightly built, and have shorter fur.

Royal snake: The reptile bears two or three distinct forms during the three life stages; found in desert and semi-arid regions in North-West India

Chukar partridge: A gamebird, it belongs to the pheasant family. Around 32-35cm long, the rotund bird has a light brown back and grey breast

interactive session with schoolchildren visiting the park.



CELEBRATING WILDLIFE AT CHHATBIR



ਛੱਤਬੀੜ 'ਚ ਮਨਾਇਆ ਜੰਗਲੀ ਜੀਵ ਸੁਰੱਖਿਆ ਹਫ਼ਤਾ

ਤਰਨਪ੍ਰੀਤ ਸਿੰਘ, ਜ਼ੀਰਕਪੁਰ

ਛੱਤਬੀੜ ਚਿੜੀਆਘਰ ਵਿਖੇ 3 ਅਕਤੂਬਰ ਤੋਂ 8 ਅਕਤੂਬਰ ਤਕ ਮਨਾਏ ਗਏ ਜੰਗਲੀ ਜੀਵ ਸੁਰੱਖਿਆ ਹਫ਼ਤੇ ਦੇ ਆਖਰੀ ਦਿਨ ਸਮਾਪਤੀ ਸਮਾਰੋਹ ਕਰਵਾਇਆ ਗਿਆ। ਸਮਾਰੋਹ ਦੌਰਾਨ ਪ੍ਰਧਾਨ ਮੁੱਖ ਵਣ ਪਾਲ੍ਹ (ਜੰਗਲੀ ਜੀਵ) ਪੰਜਾਬ ਡਾਕਟਰ ਕੁਲਦੀਪ ਮੁਮਾਰ ਆਈਐੱਫਐੱਸ ਨੇ ਮੁੱਖ ਮਹਿਮਾਨ ਵਜੋਂ ਅਤੇ ਵਣ ਪਾਲ (ਜੰਗਲੀ ਜੀਵ) ਤੇ ਚਿੜੀਆਘਰ ਦੀ ਕੰਟਰੋਲਰ ਨਿਧੀ ਸ਼ੀਵਾਸਤਵਾ ਆਈਐੱਫਐੱਸ ਨੇ ਵਿਸ਼ੇਸ਼ ਮਹਿਮਾਨ ਵਜੋਂ ਸ਼ਿਰਕਤ ਕੀਤੀ। ਸਮਾਰੋਹ ਦੌਰਾਨ ਮੁੱਖ ਮਹਿਮਾਨ ਵੱਲੋਂ ਇਸ ਹਫ਼ਤੇ ਦੌਰਾਨ ਕਰਵਾਏ ਗਏ ਵੱਖ-ਵੱਖ ਮੁਕਾਬਲਿਆਂ ਵਿਚ ਹਿੱਸਾ ਲੈਣ ਵਾਲੇ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਇਨਾਮ ਤਕਸੀਮ ਕੀਤੇ ਗਏ।

ਚਿੜੀਆਘਰ ਦੇ ਫ਼ੀਲਡ ਡਾਇਰੈਕਟਰ ਐੱਮ ਸੁਦਾਗਰ ਵੱਲੋਂ ਇਸ ਹਫ਼ਤੇ ਦੌਰਾਨ ਤਨਦੇਹੀ ਨਾਲ ਮਿਹਨਤ ਕਰਨ ਵਾਲੇ ਵਲੰਟੀਅਰਾਂ, ਸਕੂਲੀ ਵਿਦਿਆਰਥੀਆਂ ਅਤੇ ਅਧਿਆਪਕਾਂ ਨੂੰ ਵੀ ਵਿਸ਼ੇਸ਼ ਤੌਰ 'ਤੇ ਸਨਮਾਨਿਤ ਕੀਤਾ ਗਿਆ। ਜ਼ੂ ਐਜੂਕੇਸ਼ਨ ਅਫ਼ਸਰ ਹਰਪਾਲ ਸਿੰਘ ਨੇ ਦੱਸਿਆ ਕਿ ਇਸ ਹਫ਼ਤੇ ਦੇ ਪਹਿਲੇ ਦਿਨ 3 ਅਕਤੂਬਰ



ਮੁਕਾਬਲਿਆਂ ਵਿਚ ਭਾਗ ਲੈਣ ਵਾਲੇ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਇਨਾਮ ਤਕਸੀਮ ਕਰਨ ਮੌਕੇ।

ਨੂੰ ਮੋਹਾਲੀ ਵਿਖੇ ਸ਼ੈਮਰੌਕ ਸਕੂਲ ਦੇ ਵਿਦਿਆਰਥੀਆਂ ਵੱਲੋਂ ਵਾਈਲਡ ਲਾਈਫ ਅਵੇਅਰਨੈਸ ਰੈਲੀ ਕੱਢੀ ਗਈ ਸੀ ਅਤੇ ਬਾਅਦ ਵਿਚ ਚਿੜੀਆਘਰ ਵਿਖੇ ਸ਼ੇਰਾਂ ਦੇ ਜੀਵਨ ਤੇ ਜ਼-ਕੀਪਰ ਟਾਕ ਕਰਵਾਈ ਗਈ। 4 ਅਕਤੂਬਰ ਨੂੰ ਸਕੂਲੀ ਵਿਦਿਆਰਥੀਆਂ

ਕੈਟਾਗਿਰੀ, ਮਿਡਲ ਕੈਟਾਗਿਰੀ ਅਤੇ ਸੀਨੀਅਰ ਕੈਟੀਗਿਰੀ ਦੇ ਲੇਖ ਮੁਕਾਬਲੇ ਅਤੇ ਪੇਂਟਿੰਗ ਮੁਕਾਬਲੇ ਗਏ ਸਨ।

ਇਸੇ ਦਿਨ ਹੀ ਰੈਪਟਾਈਲ ਹਾਉਸ ਵਿਖੇ ਜਾਨਵਰਾਂ ਦੇ ਮਾਹਿਰਾਂ ਵੱਲੋਂ ਰੇਗਣ ਵਾਲੇ ਜੰਤੂਆਂ ਸਬੰਧੀ ਸੈਲਾਨੀਆ ਨੂੰ ਜਾਣੂ ਦੀਆਂ ਵੱਖ-ਵੱਖ ਸ਼ੇਣੀਆਂ ਜੁਨੀਅਰ ਕਰਵਾਇਆ ਗਿਆ। 5 ਅਕਤੂਬਰ ਨੂੰ ਜ਼ੂ ਗਈ। ਇਸੇ ਦੌਰਾਨ ਫ਼ੋਟੋਗ੍ਰਾਫੀ ਮੁਕਾਬਲੇ

ਕੀਪਰ ਟਾਕ ਦੌਰਾਨ ਐਲੀਫੈਂਟ ਕੰਪਲੈਕਸ ਵਿਖੇ ਹਾਥੀ ਦੇ ਜੀਵਨ ਬਾਰੇ ਮਾਹਿਰਾਂ ਵੱਲੋਂ ਸੈਲਾਨੀਆਂ ਨੂੰ ਵਿਸਥਾਰ ਪੂਰਵਕ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਗਈ। 6 ਅਕਤੂਬਰ ਨੂੰ ਲੈਪਰਡ ਅਤੇ 7 ਅਕਤੂਬਰ ਨੂੰ ਰਿੱਛਾਂ ਦੇ ਜੀਵਨ ਸਬੰਧੀ ਜ਼ੂ ਕੀਪਰ ਟਾਕ ਰਾਹੀ ਜਾਣਕਾਰੀ ਦਿੱਤੀ



ਸੈਲਾਨੀਆਂ ਨੇ ਲਿਆ ਬੜੇ ਉਤਸ਼ਾਹ ਨਾਲ ਹਿੱਸਾ, ਭਾਗ ਲੈਣ

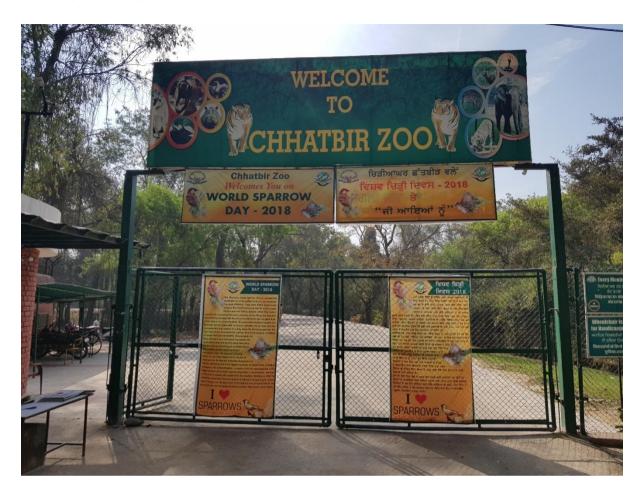
ਵਾਲੇ ਜੇਤੂਆਂ ਨੂੰ ਇਨਾਮ ਵੰਡੇ

ਵੀ ਕਰਵਾਏ ਗਏ ਅਤੇ ਜੰਗਲੀ ਜੀਵਨ 'ਤੇ ਆਧਾਰਤ ਇਕ ਨੁਕੜ ਨਾਟਕ 'ਹਮ ਜਿੰਦਾ ਹੈ' ਵੀ ਕਰਵਾਇਆ ਗਿਆ। ਇਸ ਤੋਂ ਇਲਾਵਾ ਇਸ ਹਫ਼ਤੇ ਚਿਤੀਆਘਰ ਵਿਚ ਮੌਜੂਦ ਜਾਨਵਰਾਂ ਨੂੰ ਗੋਦ ਲੈਣ ਲਈ ਵੀ ਸੈਲਾਨੀਆਂ ਨੇ ਕਾਫੀ ਦਿਲਚਸਪੀ ਦਿਖਾਈ। ਸਮਾਪਤੀ ਸਮਾਰੋਹ ਵਿਚ ਸੈਲਾਨੀਆਂ ਨੇ ਵੀ ਕਾਫੀ ਵਧ-ਚੜ੍ਹ ਕੇ ਹਿੱਸਾ ਲਿਆ ਅਤੇ ਆਪਣੇ ਵਿਚਾਰ ਸਾਂਝੇ ਕੀਤੇ।

ਸਮੂਹ ਸੈਲਾਨੀਆਂ ਵਿਚ ਕਾਫੀ ਉਤਸ਼ਾਹ ਨਜ਼ਰ ਆ ਰਿਹਾ ਸੀ। ਇਸ ਹਫ਼ਤੇ ਦੌਰਾਨ ਆਉਣ ਵਾਲੇ ਸਾਰੇ ਸੈਲਾਨੀਆਂ ਦਾ ਚਿੜੀਆਘਰ ਵਿਚ ਦਾਖ਼ਲਾ ਮੁਫ਼ਤ ਰੱਖਿਆ ਗਿਆ ਸੀ। ਉਨ੍ਹਾਂ ਦੱਸਿਆ ਕਿ ਇਸ ਹਫ਼ਤੇ ਦੌਰਾਨ ਕਰੀਬ 15 ਹਜ਼ਾਰ ਤੋਂ ਵੱਧ ਸੈਲਾਨੀਆਂ ਨੇ ਚਿੜੀਆਘਰ ਦੀ ਖ਼ਬਸੂਰਤੀ ਦਾ ਆਨੰਦ ਮਾਣਿਆ ਅਤੇ ਜ਼ੁ ਕੀਪਰ ਟਾਕ ਰਾਹੀਂ ਮਾਹਿਰਾਂ ਤੋਂ ਉਨ੍ਹਾਂ ਆਪਣੇ ਮਨਪਸੰਦ ਜਾਨਵਰਾਂ ਬਾਰੇ ਕਾਫੀ ਅਹਿਮ ਅਤੇ ਰੌਚਿਕ ਜਾਣਕਾਰੀਆਂ ਹਾਸਿਲ ਕੀਤੀਆਂ।



World Sparrow Day 2018









17. 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 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 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 enclosures. 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

Alsee seeds and nutrition supplements to small birds















18. Research Work/Conservation Breeding Programmes carried out in the Zoo

In-situ - Ex- situ linkage

Re- introduction of gharials in beas river system

VISIT TO ECO CENTRE - DEORI, GHARIAL REARING CENTRE, MORENA; MADHYA PRADESH

On dated 25 October 2017 a team of Chhatbir zoo visited Eco Centre cum Gharial rearing Centre. The team is headed by Dr. M.Sudhagar IFS, Field Director Chhatbir zoo with following team Members.

- Mr. Harpal Singh Zoo Education Officer cum Block Officer Animal Management
- Mr. Shivjot Singh Forest Guard Animal Management

Apart from Department of Forests and Wildlife preservation Punjab the experts of 2 NGO's also called o join the exposure visit these NGOs were WWF (World Wide Fund for Nature –INDIA and TSA (Turtle Survival Alliance)

Following expert members were present from the NGOs

WWF-INDIA

- Dr. Asghar Nawab (Senior Manager-Biodiversity; WWF-India Secretariat; New Delhi)
- Ms. Gitanjali Kanwar (Senior Project Officer, WWF-India Harike Field Office; Punjab)
- Mr. Sanjeev Kumar Yadav (Co-ordinator Aquatic Biodiversity, WWF-India Hastinapur Field Office; Meerut)

TSA

Mr. Nariman Vazifdar (Field Researcher)

OBJECTIVES OF THE VISIT:

Team visit was based on the following objectives

- To understands the Management of Gharials in captivity
- Creation of simulation of riverine habitat
- Transportation of Gharials
- Assessment of Gharial Cohorts to be brought to Punjab
- General discussion regarding husbandry, marking and behaviour aspects
- Exposure visit of natural habitat .



Team reached Morena on 24th October 2017 in the evening and DFO Morena Dr. Abdul Alim Ansari, IFS arranged boarding arrangements there and in the morning of 25th October 2017 Mr.Jyoti Prasad



Dandotiya (Forest Guard, Deori Hatchery In-charge, Morena; Madhya Pradesh) provided a guided tour to the team at eco centre and Chambal Wildlife sanctuary. Mr.Jyoti Prasad Dandotiya elaborated on the management practices adopted for the maintenance and safe keep of the captive Gharial stock. He also informed that at present there is a stock of 577 captive Gharial at the centre. The year wise live stock position at the centre was as under

- Year 2013 (21 hatchlings)
- Year 2014 (129 hatchlings)
- Year 2015 (130 hatchlings)
- Year 2016 (138 hatchlings)
- Year 2017 (159 hatchlings)



Mr. Jyoti Prasad explained that they are using intensive care with heaters and Lamp shades during winters for the first year's hatchlings. They recorded temperature and humidity and also maintain it regularly. After the completion of one year the hatchlings shifted to another enclosure which are double in size this enclosure is called yearlings enclosure.





They replace the water after every alternative day, They clean the surface of ponds and scraping it properly they use bleaching powder as a disinfectant and after applying the disinfectant they rinse it completely and refilled the pond with water,



Mr. Jyoti Prasad explained the stock of 50 Gharials (10:40) reserved for transportation to Punjab Harike Wetland for release are belongs to the batch of 2014. They measure at 1.50m; weigh around 12-16 kg. They had *scute* marked and their morphometric details recorded. The team of Chhatbir zoo restrain one reptile and identified its sexing





They also explained that the glass fixed at the surrounding of the rearing enclosures is not good. They are replacing it with proper mesh. Because glass is blocking the air circulation which is not good for the reptiles. They uses polyethylene and synthetic transparent sheets and fiber sheets

They have also the facility of rearing the turtles. The enclosure is the same but pond is differently designed like a moat which helps to maintain running water system as shown in the picture



They are providing dead fish there which are freshly caught by the local vendors. These are local fish available in the ponds and water bodies nearby. The maximum size of the fish is not bigger than 50 to 60 cm.





They explained that they restocking about 150 gharials every year in the Chambal river. According to Morena Wildlife Division they do not observe the Gharials after the release in the wild.





The transportation box were also been show by them. It was a simple rectangular cuboid wooden box with the dimension of 155X50X50 cm with both side openable doors. It has been minutely observed. Few nails and shaves were seen which are sharp and can cause wound reptiles. This will be well taken care while making transportation cages at Chhatbir zoo.



It has been discussed and suggested by the expert if Chhatbir zoo wants to create a river simulation and wave generation system to build-up the muscle tone in the Gharials against the high water tides, It should be initiate with the newly born hatchlings not with already grown and reared Gharials because the muscle tonicity developed only 1st and 2nd year. The water waves also set randomly without follow any set pattern therwise the Gharials will scheduled their biological clock accordingly. DFO Morena shared the Layout maps of Gharial rearing enclosures

After the detail discussion at rearing centre the team were move to take a exposure of Chambal river which is natural habitat of the Gharial and other wild fauna. It was observed that there was plenty sandy spaces which are available for basking and nest making.





Gharials were seen basking and some other reptiles like *Pangsura Tacta* and *Nilssonia gangetica* were seen.







It was observed that the river banks were also shared by the villagers for washing clothes and bathing and they are doing their routine activities just few yards away without any fear. The Gharial seems to be very shy in their natural habitat and it sudden disappear in the water when any boat or any human tries to come closer to it. Many agricultural activities were also seen at the river bank like Tractor cultivation and water pumping which seems to be unbothered by the reptiles over there.





It also been suggested and recommended by the experts that If we reintroduce 50 Gharials in Harike or Beas river, It is necessary to restocking every year minimum 100 reptiles in 1:4 ratio continuous for minimum 10 years. After that the possibilities of establish a to 5 colonies (3 to 5 reptiles in each colony) well settled in few areas of Punjab riverine system will be a successful reintroduction.





TRANSPORTATION OF GHARIAL HATCHLINGS:

Based on the inputs received from Eco centre, Morena, keeping in view of the safety of animals and considering the distance of the travel, transportation containers dedicated to the gharial hatchlings were designed and manufactured in the workshop of zoo

QUARANTINE AND OBSERVATION:

Gharial hatchlings were maintained in a specially designed pond enclosure and regularly monitored by the animal management wing and the veterinary wing

ACCLIMATIZATION AND ADAPTATION:

After passing the iniatial transport stress, gradually gharial hatchlings started taking fish and showing normal behavior. Gharials were trained to swim along and against the stream by creating a strong artificial flow in the water pond. Water temperature was monitored and regulated.

LIVE FISH FEEDING:

After 3 days of continuous monitoring, live fishes were introduced in phased manner by gradually replacing the dead fishes

HEALTH AND FITNESS MONITORING:

The veterinary wing was regularly monitoring the parameters like weight, movement, feeding and growth in regular intervals. The fitness certificated before release was issued by the S.V.O of chhatbir zoo

RELEASE OF GHARIAL HATCHLINGS IN BEAS RIVER SYSTEM:

As per the directions of chief wildlife warden punjab, the date was finalised for release. The release cohorts were isolated in the ratio of 1:4 and transported to Beas river system. With the assistance of field staffs of the DFO,Ferozepur wildlife division and technical members of WWF-India, the Gharial hatchlings were released twice in the beas river of punjab, the details are as follows.













19. Animal acquisition / transfer / exchange during the year

Acquisition

	1			•		
1	Flap shell turtle	Lissemys punctata	2	DFO Wildlife	07.01.2017	Rescued by staff of DFO Wildlife ropar from the village Lohgarh, Golden enclave #151-A, these turtles were kept in the Wildlife hospital on 19.06.2017
2	Diamond Dove	Geopelia cuneata	10	Gift	25.06.2017	10 no. Dimond dove brought at chhatbir zoo by Mr. Jashanpreet Singh Grewal resident of village Mundia District Ludhiana. Mr. Jashanpreet Singh is a NRI whohad these exotic birds and wanted to donate these birds to chhatbir zoo.
3	Black headed royal snake	Spalerosophis atriceps	2	Exchange	24.09.2017	Aquired from Manda Zoo vide letter no. WLP/Plan/769-71 dated 06.09.2017 of PCCF WL cum
4	Chakur Partridge	Alectoris chukar	2	Exchange	24.09.2017	CWLW J & K and PCCF WL cum CWLW Punjab letter no. 3875 dated 15.09.2017 and FD ZOO letter end. no. 2462-63 dated 22.09.2017 and Letter end. No. 2471-A dated 26.09.2017
5	Indian wolf	Canis lupus	3	Exchange	28.09.2017	Aquired from Jaipur Zoo vide CZA letter no. Letter no. 23-5/2017-CZA (AK)/1063/2017 Dated 09.06.2017 of CZA and FD ZOO end. No.1031-32 dated 14.06.2017 and letter end. No. 2496-97 dated 26.09.2017



6	Hamadryes Baboon	Papio hamadryas	1	Acquired	09.03.2018	Received One male Baboon from NZP, Delhi on dated 09.03.2018 in a part of animal exchange vide CZA letter no. F.No.23-3/2017-CZA(Pt.)(PKR)/1830/2017 Dated 25.10.2017 and NZP Delhi's Director letter no. F.No.IV-16/2010-NZP/Corres/Mang./4843-19 Dated 07.03.2018 and Field Director Chhatbir Zoo's letter end. No. 4496-98 Dated 09.03.2018
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20

Transfer by exchange

1	Leopard Painted Stork	Panthera pardus	3	Transfer Transfer	10.08.2017 24.09.2017	Transfer to Bathinda Zoo vide CZA letter no. F.No. 23-4/2016- CZA(AK)331/2017 dated 17.02.2017 Transfer toManda Zoo vide letter no. WLP/Plan/769-71 dated
3	Budgerigar		8	Transfer	24.09.2017	06.09.2017 of PCCF WL cum CWLW J & K and PCCF WL cum CWLW Punjab letter no. 3875 dated 15.09.2017 and FD ZOO letter end. no. 2462-63 dated 22.09.2017 and Letter end. No. 2471-A dated 26.09.2017
4	Spot bill duck		4	Transfer	26.09.2017	Transfer to Jaipur Zoo vide CZA letter no. Letter no. 23-5/2017-
5	Lady Amherst pheasant		2	Transfer	26.09.2017	CZA (AK)/1063/2017 Dated 09.06.2017 of CZA and FD ZOO end. No.1031-32 dated
6	Swamp Deer		2	Transfer	30.09.2017	14.06.2017 and letter end. No. 2496-97 dated 26.09.2017
7	Hamadryes Baboon	Papio hamadryas	1	Transfer	10.03.2018	Transfer One male Baboon to NZP, Delhi on dated 10.03.2018 in a part of animal exchange vide CZA letter no. F.No.23-3/2017-CZA(Pt.)(PKR)/1830/2017 Dated 25.10.2017 and NZP Delhi's Director letter no. F.No.IV-16/2010-NZP/Corres/Mang./4843-19 Dated 07.03.2018 and Field Director Chhatbir Zoo's letter end. No. 4496-98 Dated 09.03.2018



8	Leopard	Panthera pardus	1	Release	16.03.2018	Rescued by DFO Amritsir and team of Wildlife wing and Chhatbir zoo. This leopard entered in suburban area and confilcted with the villagers. It was broughtat Chhatbir Zoo hospital on 26.12.2017. Report sent to FD zoo wide letter no. 1084-II adted 26.12.2017. This leopard was sent to Bir Talab Bathinda vide FD ZOO's Letter end. no. 4539-40 dated 15.03.2018 as per directions of Chief wildlife wareden.
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29

20. Rescue and Rehabilitation of wild animals carried out by the Zoo Rescue

Rescued from DFO Wildlife Ropar in critically injured confition at 12 Rescue Pm on 28.04.2017. It was unable to 1 1 28.04.2017 Leopard Panthera and died move on hide limbs and kept in pardus Wildlife Hospital under treatment it died on 07.05.2017 One monitor lizard rescued from Zirakpur (Baltana) from a shoeroom on the telephonic order Rescue of Field Director Chhatbir Zoo. It Monitor Varanus 2 16.05.2017 1 and Lizard bengalensis was vev acitve and heathly lizard. It release was kept under observation in wildlife Hospital and released in the jungle (Bak side Zoo) on 18.05.2017 Rescued from village Paragpur by Civet 26.07.2017 3 1 Rescued RO Derabassi reported vide letter no. 539-II dated 27.07.2017 Indian Pangshura Rescued by DFO(WL) Hoshiarpur 4 55 Rescued 02.08.2017 roofed turtle tecta court case property vide letter no.1211 dated 02.08.2017 and Indian Geoclemys 5 spotted 2 Rescued 02.08.2017 reported vide letter no. 581-II dated hamiltonii turtle 02.08.2017 Rhesus Macaca 6 baby mulatta Rescued 13.09.2017 Rescued from CWLW office monkey 1 Python Rescued from village Mubarikpur molurus after called by Police Department. 7 Python 1 Rescued 25.10.2017 Report to FD ZOO vide letter no. 884-II dated 25.10.2017



8	leopard	Panthera pardus	1	Rescued	26.12.2017	Rescued by DFO Amritsir and team of Wildlife wing and Chhatbir zoo. This leopard entered in sub-urban area and conflicted with the villagers. It was broughtat Chhatbir Zoo hospital on 26.12.2017. Report sent to FD zoo wide letter no. 1084-II adted 26.12.2017.
9	Civet		1	Rescued	26.02.2018	Rescued by DFO Wildlife Philiaur and with the permission of PCCF WL cum Chief Wildlife Warden the animal was sent to Chhatbir Zoo.
10	Langur Infaint	Presbyties entellus	1	Rescued	15.03.2018	One infaint Langur (baby) rescued by Mr. Manmohan of # 489, Shiwalik Avenue,Naya Nangal Punjab who found this baby Langur on a highway where its mother Langur was killed by a road wehicle and this baby Langur was injured. Mr, Manmohan brought this baby Langur at Chhatbir Zoo Hospital for treatment and care. This baby Langur was hospitalized and reported to FD zoo vide letter no. 1363-II dated 16.03.2018. This Baby Langur did't survive and died on 31.03.2018
11	Water rail bird	Rallus aquaticus	1	Rescued	21.03.2018	Mr. Kulbhushan Kanwar president of Natural Biodiversity brought this bird in injured condition at Chhatbir zoo. Report sent to FD zoo vide letter no. 1383-II dated 23.03.2018. The animal was kept under observation for rehabilitation.
12	Rofus tree pie	Dendrocitta vagabunda	2	Rescued	23.03.2018	On 22.03.2018 night a tree was uprooted by the wind in the Sloth Bear Exhibit. 2 Chicks of tree pie was found abandoned by the zoo keeper during the tree removal process on 23.03.2018. These birds wre kept under observation for rehabilitation.



Release

	PIGEON	Columbidae	0.4	Dalaaa	00 00 0047	Balance of Calabara Bala
1	WHITE		31	Release	30.09.2017	Releae as per Guidelines Rule
	PIGEON	Columbidae				10(1)(9)
2	BLACK		17	Release	30.09.2017	
1	Python	Python molurus	1	Release	28.10.2017	Rescued Python on dated 25.10.2017 released back in the wild by the order of CWLW Punjab under the supervision of committee formed by CWLW in the wild habitat in Ropar Wildlife division. Report sent to FD Zoo vide letter no. 992-II dated 30.10.2017 against FD Zoo's letter no. 2852 dated 237.12.2017.

49

21. Annual Inventory of animals (2017-18)

INVENTORY OF WILD ANIMALS AND BIRDS BETWEEN 01.04.2017 to 31.03.2018 SCHEDULE 1 OF WILDLIFE (PROTECTION ACT, 1972)

	1	1			ЗСП	EDUL	- ' '	Or .	VVILL	LIFE	- (F	NOI	LUI	IOIV	AC	, i , i i	912)					1			
Sr · N o.	Species	Scientif ic Name	Р	ositio	on as 4.201			Birt	:h	C	qui on b esc giff	ue/	ic	qui: on b ansf	у	Di by	spos Dea	sal ath		spo: by ans				tion .03.2	as on 018
			M	F	U	Tot	М	F	U	М		U	М	F	U	M	F	U	М	F	U	M	F	U	Tot
											BIR	DS													
1	PEAFOWL INDIAN	Pavo cristatus	5	3	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	3	0	8
2	PEAFOWL WHITE	Pavo cristatus	2	2	0	4	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	1	0	3
3	KALEEJ PHEASANT	Lophura leucome lanos	2	3	0	5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	3	1	6
	Total Birds		9	8	0	17	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	9	7	1	17
	MAMMALS																								
1	BLACK BUCK	Antelop e cervicap ra	1 2	1 9	3	34	0	0	5	0	0	0	0	0	0	2	1	0	0	0	0	1 0	1 8	8	36
2	WHITE BUCK	Antelop e cervicap ra	4	4	0	8	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	3	3	1	7
3	CHINKARA	Gazella bennetti	4	2	0	6	0	0	2	0	0	0	0	0	0	0	1	1	0	0	0	4	1	1	6
4	DEER BROW ANTLERED	Cervus eldi	1	1	1	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	4
5	DEER SWAMP	Cervus duavauc eli	3	6	1	10	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	2	5	2	9
6	ELEPHANT INDIAN	Elephus maximu s	1	3	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	4



_		_				_				_			_				_	_	_				_	_	
7	LEOPARD	Panther a pardus	1 0	6	0	16	0	0	1	1	0	0	0	0	0	2	1	1	3	1	0	6	4	0	10
8	LIONS INDIAN	Panther a leo persica	1	3	0	4	0	0	4	0	0	0	0	0	0	0	0	4	0	0	0	1	3	0	4
9	MACAQUE LION TAILED	Macaca silenus	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
10	TIGER BENGAL	Panther a tigris tigris	3	2	0	5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	2	0	4
11	FOUR HORNED ANTELOPE	Tetracer us quadric ornis	3	2	0	5	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	1	0	1
12	GAUR (Indian Bison)	Bos gaurus	4	0	0	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	0	0	3
13	LEOPARD CAT	Felis bengale nsis	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
14	WHITE TIGER	Panther a tigris tigris	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
15	MOUSE DEER	Tragulu s meminn a	2	2	1	5	0	0	2	0	0	0	0	0	0	0	0	2	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	0	0	1	1	0	2
17	INDIAN WOLF	Canis Iupus	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	1	2	0	3
	Total	·	5 1	5 3	6	110	0	0	1 7	2	2	0	0	0	0	1 0	5	8	4	2	0	3 9	4 8	1 5	102

SCHEDULE 1 OF WILDLIFE (PROTECTION ACT, 1972)

S r. N o.	Species	Scientif ic Name			on as 1.201			Birt	h	Re	quis on b escu gift	y ie/	ic	qui on b ansi	у		spos Dea			spos by ansi				tion a .03.20	as on 018
			М	F	υ	To t	М	F	U	М	F	U	М	F	U	М	F	U	М	F	U	M	F	U	Tot
										RE	PTI	LES													
1	GHARIAL	Gavialis gangetic us	1	3	1 7	21	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	1	3	1 4	18
2	CROCODILE	Crocodil us palustris	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3
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 LIZARD	Varanus bengale nsis	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 flavesce ns	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 STAR TORTOISE	Geochel one elegans	0	0	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8



7	INDIAN FLAP SHELL TURTLE	Lissemy s punctat a	0	0	1 9	19	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	21
8	INDIAN SOFT SHELLTURT LE	Nilssoni a gangetic a	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
9	INDIAN ROOFED TURTLE	Pangsh ura tecta	1	3	0	4	0	0	0	0	0	5 5	0	0	0	0	0	9	0	0	0	1	3	4	50
1 0	INDIAN SPOTTED TURTLE	Geochel imis hmiltoni	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	2
	Total		5	6	5 5	66	0	0	0	0	0	5 9	0	0	0	0	0	1 2	0	0	0	5	6	1 0 2	113

SCHEDULE II OF WILDLIFE (PROTECTION ACT, 1972)

S r. N	Species	Scientif ic Name			on as 1.201			Birt	h	Re	quison bescu	y ie/	ic	qui on b ansi	у		spos Dea			spos by ansi				tion a .03.20	as on 018
			М	F	U	To t	М	F	U	М	F	U	М	F	U	М	F	U	М	F	U	М	F	U	Tot
		l .								MA	MM	ALS	;												
1	BEAR HIMALYAN BLACK	Selenar chos thibetan us	1	5	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	0	6
2	BEAR SLOTH	Melursu s ursinus	0	2	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1
3	CIVET	Paradox urus hemaph roditus	1	1	3	5	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	1	5	6
4	JACKAL	canis aureus	1	1	6	8	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	6	7
5	LANGUR COMMON	Presbyti es entellus	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
6	MACAQUE ASSAMESE	Macaca assame nsis	1 1	2	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1 1	2	0	13
7	MACAQUE BONNET	Macaca radiate	6	2	0	8	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	5	1	0	6
8	MACAQUE RHESUS	Macaca mulatto	5	5	0	10	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	5	5	0	10
9	MACAQUE PIG TAILED	Macaca enmestr ina	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4
1	JUNGLE CAT	Felis chaos	1	1	6	8	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2	4	0	6
	Total		2 9	2	1 5	66	0	0	0	0	1	2	0	0	0	4	4	0	0	0	0	2 7	2	1	61
										RE	PTI	LES													
1	COBRA	Naja naja	0	0	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6



	Total		0	0	1 2	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1 2	12
3	CHECKERE D KEELBACK	Xenochr ophis piscator	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
2	RAT SNAKE	Ptyas mucosa	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4

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

S r. N	Species	Scientif ic Name			on as I.201			Birtl	h	Re	qui: on b escu gift	y ue/	ic	qui on b ansi	у	Di by	spos Dea	sal		spos by ansi				tion : .03.2	as on 018
О.		Name	м	F	U	To t	М	F	U	М	F	U	М	F	U	М	F	U	М	F	U	М	F	U	Tot
		•								•	Bird	ls		•				•	•	•					
1	CRANE SARUS	Grus antigon e	7	3	2	12	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	7	2	3	12
2	DOVE	Streptop elia chinensi s	0	0	4 0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1 5	1 5	1 0	40
3	DUCK SPOT BILL	Anas poecilor hyncha	0	0	9	9	0	0	6	0	0	0	0	0	0	0	0	0	0	0	4	5	5	1	11
4	DUCK COMBED	Sarkidio rnis melanot os	1	2	1 9	22	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	1 0	1 0	6	26
5	FOWL RED JUNGLE	Gallus gallus	2	7	0	9	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	2	7	6	15
6	PARAKEET ROSE RINGED	Psittacul a krameri	0	0	4 3	43	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1 5	1 5	1 5	45
7	PARAKEET ALEXANDRI NE	Psittacul a eupartri a	2	2	1 7	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7	7	21
8	PARAKEET BLOSSOM HEADED	Psittacul a roseate	2	2	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	5
9	PARTRIDGE S GREY	Francoli nus pondice rianeus	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
1 0	PARTRIDGE S BLACK	Francoli nus francolin us	0	0	4	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8
1	PELICANS ROSY	Pelecan us philippe nsis	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
1 2	QUAIL COMMON	Coturnix coturnix	1	0	8	9	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	8	8
1 3	STORK BLACK NECKED	Xenorhy chus asiaticu s	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
1 4	STORK PAINTED	Mycteria leucoce phala	1 5	1 5	6 0	90	0	0	1 3	0	0	0	0	0	0	0	0	0	0	0	8	1 5	1 5	6 5	95



1 5	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
1 6	SHIKARA	Accipite r badius	0	1	2	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	2
1 7	BARNOWL	Tyto alba	0	0	6	6	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9
1 8	GREAT HORNED OWL	Bubo bubo	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
1	SPOTTED EAGLE		0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
2 0	WHITE IBIS	Threski ornis melanoc ephala	0	2	6	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	8
2	WOOLY NECKED STORK	Ciconia episcop us	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
2 2	COMMON MOORHEN	Gallinul a chlorop us	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
2 3	WHITE BREASTED WATERHEN	Amauro rnis phoenic urus	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
2 4	CATTLE EGRET	Bubulcu s ibis	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
2 5	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
2	NIGHT HERON	Nycticor ax nycticor ax	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
2 7	LESSER COUCAL	Centrop us bengale nsis	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
2	COMMON MYNA	Acridoth eres tristis	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
2 9	JUNGLE BABBLER	Turdoid es striatus	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
3	WEAVER BIRD	Polceus philippin us	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
3	SPOONBILL WHITE	Platalea leucoro dia	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
3 2	LESSER WISTLING TEAL	Dendroc ygna javanica	0	0	3	3	0	0	1 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1 4	14
3	GREY PELICAN	Dendroc ygna javanica	0	0	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
3 4	CHAKUR PARTRIDGE	Alectori s chakur	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	2
3 5	ROFOUS TREEPIE	Dendrici tta vagabu nda	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	2
3 6	WATER RAIL	Rallus aquaticu s	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1
	TOTAL		3	3	2	33	0	0	5	1	1	3	0	0	0	1	1	1	0	0	1	8	8	2	372



S r. N o.	Smaring			SC	==							l	l				1	1	1	l	1	1	I	9	ı
r. N	Consider				HED	ULE	III &	IV O	F WI	LDL	IFE	(PR	ОТЕ	CTI	ON A	ACT,	197	2)		l		1	ı		
	Species	Scientif ic Name		ositio 01.04				Birtl	h	Re	quis on b escu gift	y ue/	ic	quis on b ansf	y		spos Dea			spo: by ans				tion : .03.2	as on 018
			М	F	U	To t	М	F	U	М	F	U	М	F	U	M	F	U	М	F	U	М	F	U	Tot
	L			1	l					MA	MM	IALS	;							<u> </u>		1	ı	ı	
1 E	BLUE BULL	Boselap hus tragoca melus	1	6	0	7	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	6	0	6
2	DEER BARKING	Muntiac us muntjak	1 0	1 4	2	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1 0	1 4	2	26
3 [DEER HOG	Axis porcinus	9	9	0	18	0	0	5	0	0	0	0	0	0	3	0	0	0	0	0	6	9	5	20
4	DEER SAMBAR	Cervus unicolor	1 5	2 7	1 1	53	0	0	5	0	0	0	0	0	0	1	0	0	0	0	0	1 4	2 7	1 6	57
5	DEER SPOTTED	Axis axis	2 4	4 2	1 0	76	0	0	1 3	0	0	0	0	0	0	0	0	0	0	0	0	2 4	4 2	2 3	89
6	HYEANA	Hyaena hyaena	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
7 P	PORCUPINE	Hystrix indica	0	0	3 2	32	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3 4	34
8	GORAL	Nemorh aedus goral	4	5	2	11	0	0	0	0	0	0	0	0	0	4	3	0	0	0	0	1	3	0	4
9 V	WILD BOAR	Sus scofa	2	2	1	17	0	0	5	0	0	0	0	0	0	1	2	0	0	0	0	1	0	1 8	19
	TOTAL		6 6	1 0 6	7 0	24 2	0	0	3 0	0	0	0	0	0	0	1	5	0	0	0	0	5 7	1 0 2	9 8	257
										RE	PTI	LES													
1	BLACK HEADED ROYAL SNAKE	Spalero sophis diadem a	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	2
	TOTAL		0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	2
	<u>'</u>		SCI	HEDU	JLE	V , VI	& C	THE	ERS	OF V	VILE	DLIF	E (P	ROT	EC.	TION	I AC	T, 19	972)						
S r. N o.	Species	Scientif ic Name		ositio 01.04		7		Birtl	h	Re	quis on b escu gift	y ue/	ic	quis on b ansf	у	Di:	spos Dea	sal ith		spos by ans				tion .03.2	as on 018
			М	F	U	To t	М	F	U	М	F	U	М	F	U	M	F	U	М	F	U	М	F	U	Tot
	l			•	•	•	•			M/	MM	IALS	3		•						•	•	•	•	
1 F	FRUIT BAT	Pteropu s gigante us	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	0	4	4



EXOTIC & OTHERS

		ı							EXO	IIC 8	k O	IHEI	रऽ			1									
S r. N	Species	Scientif ic Name		ositio 01.04				Birt	h	Re	quison b escu gift	y ie/	ic	qui on b ansi	У		spos Dea			spo: by ans				tion : .03.2	as on 018
			М	F	U	To t	М	F	U	М	F	U	М	F	U	M	F	U	М	F	U	М	F	U	Tot
						ı			(отн	ER	BIRE	s									ı	ı	ı	1
1	EMU	Dromice ius novaholl andiae	8	8	8	24	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	8	8	7	23
2	COCKATOO SULPHER CRESTED	Kokatoe galerita	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
3	COCKTIEL GREY	Nymphi cus hollandi cus	1	1	8	10	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	5	5	3	13
4	BUDGRIGAR	Melopsit tacus undulat es	1 0 0	1 0 5	0	20 5	0	0	0	0	0	0	0	0	0	0	0	0	4	4	0	9	1 0 1	0	197
5	PHESANT RING NECKED	Phasian us colchicu s	3	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	0	5
6	PHEASANT GOLDEN	Chrysol ophus pictus	5	6	0	11	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	4	5	0	9
7	PHESANT SILVER	Lophura nycthem erus	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4
8	LADY AHMREST PHEASANT	Chrysol ophus amherst iae	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	1
9	ZEBRA FINCHES	Taeniop ygia guttata	1	1	2 8	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1 0	1 0	1 0	30
1 0	BLACK SWAN	Cygnus atratus	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
1	LOVE BIRD	Agaporn is	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
1 2	GEESE COMMON	Anser gene	0	0	5 7	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5 7	57
1	PIGEON WHITE	Columbi dae	0	0	3 1	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3 1	0	0	0	0
1 4	PIGEON BLACK	Columbi dae	0	0	1 7	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
1 5	OSTRICH	Struthio camelus	0	3	0	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	2
1 6	JAWA SPAROW	Lonchur a oryzivor a	0	0	1 0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1 0	10
1 7	DIMOND DOVE	Geopeli a coneata	0	0	0	0	0	0	5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1 5	15
	TOTAL		1 2 2	1 3 0	1 6 3	41 5	0	0	8	0	0	1	0	0	0	1	2	1	5	5	4 8	1 2 9	1 3 6	1 0 6	371



EXOTIC & OTHERS

S r. N	Species	Scientif ic Name			on as 4.201			Birt	h	c	qui: on b escu gift	y ue/	ic	qui on b ansi	у		spos Dea			spos by ansi				tion a .03.2	as on 018
			М	F	U	To t	М	F	U	М	F	U	М	F	U	М	F	U	М	F	U	M	F	U	Tot
									01	HEF	R M	MMA	ALS	;											
1	HIPPOPOMT AMUS	Hippopo tamus amphib us	1	3	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	4
2	ZEBRA		0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
3	JAGUAR	Panther aonca	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
4	FELLOW DEER	Dama dama	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
5	HAMADRYE S BABBOON SACRED	Papio hamadr yas	2	3	0	5	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	2	3	0	5
	TOTAL MAMMALS		5	7	0	12	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	5	6	0	11
1 0 6	TOTAL ANIMALS (Schdule I, II, III, IV & Others/Exoti c)		3 1 9	3 6 6	5 9 1	12 76	0	0	1 0 6	3	4	7 6	1	0	0	2 6	1 9	2 2	1 0	7	6	3 5 2	4 1 0	5 6 0	1322

22. Mortality of animals

Summary of Death Report M.C.Zoological Park Chhatbir during 01.04.2017 to 31.03.2018

Sr. No.	Animal Name	Scinctific name	Sex	No.	Date	Cause of Death
1	Sarus crane	Chrysolophus pictus	Female	1	01.04.2017	Senile changes in vital organs
2	Shikra	Geochelone elegans	Unk	1	25.04.2017	Haemorrhagic enteritis
3	Lion still birth	Panthera leo persica		2	27.04.2017	Still birth of Shilpa Lioness
4	White Peacock	Peregrene	Female	1	30.04.2017	Hypovolumic shock
5	Ostrich	Gazella bennetti	Female	1	01.05.2017	Haemorrhagic entritis
6	Lion still birth	Panthera leo		2	27.04.217	Still birth of Shilpa Lioness
7	Emu	lophura nycthemerus	Unk	1	15.05.2017	Haemorrhagic enteritis
8	Golden pheasant	Hyena hyena	Male	1	28.05.2017	Hypovolumic shock
9	Golden pheasant	Varanus	Female	1	08.06.2017	Internal Haemorrhags



10	Leopard	Panthera pardus		1	08.06.2017	Stilll birth of Bijli female leopard
11	Leopard	Bos gaurs	Male	1	18.06.2017	Senile changes of vital organs
12	Hog deer	Gazella bennetti	Male	1	24.06.2017	Internal Haemorrhags
13	Bonnet monkey	Macaca radiate	Male	1	11.07.2017	Internal haemorrhage due to snake bite
14	Black buck	Antelope cervicapera	Female	1	26.07.2017	Internal haemorrhage and mayopathy
15	Chinkara fawn	Gazella bennetti		1	27.07.2017	Heart faliure due to infighting
16	Black buck	Antelope cervicapera	Male	1	30.07.2017	Shock due ti hit injury
17	Sambar	Cerves unicolor	Male	1	27.08.2017	Septiceamia
18	Wild boar	Sus scrofa	Female	1	28.08.2017	Internal haemorrhage
19	Blue bull	Boselaphus tragocamelus	Male	1	31.08.2017	Heart faliure due to sanility
20	Wild boar	Sus scrofa	Female	1	05.09.2017	Hepatittis
21	Indian roofed turtle	Pangshura tacta	Unk	1	08.09.2017	Aleolar tissue changes, Respiratory faliure, Pleuriteis
22	Chinkara	Gazella bennetti	Female	1	08.09.2017	Internal haemorrhage and shock due to infighting
23	Zebra	Equus quagga	Female	1	10.09.2017	Disseminated intravascular coagulation due to snake bite
24	Common quail	Coturnix coturnix	Male	1	11.09.2017	Senile changes of internal organs
25	Bengal tiger	Panthera tigris	Male	1	20.09.2017	Multipal organ faliure due to senility
26	Hog deer	Axis porsinus	Male	1	21.09.2017	Senile changes of internal organs
27	White buck	Antelope cervicapera	Unk	1	30.09.201	Acute tympany
28	Indian roofed turtle	Pangshura tacta	Unk	1	30.09.2017	Respiratory failure
29	Hog deer	Axis porsinus	Male	1	12.10.2017	Senile cahnges of vital organs
30	Jackal	Antelope cervicapera	Male	1	23.10.2017	Senile cahnges of vital organs
31	Jungle cat	Felis chaos	Female	1	28.10.2017	Retrograde changes of vital organs
32	Leopard	Panthera pardus	Male	1	31.10.2017	Degeneration of tissues and organs
33	Bonnet Monkey	Macaca radiata	Female	1	02.11.2017	Degeneration of tissues and organs
34	Jungle cat	Felis chaos	Male	1	14.11.2017	Actue respriratory distress
35	Civet	Paradoxurus hemaphroditus	Male	1	19.11.2017	Actue respriratory distress
36	Indian roofed turtle	Pangshura tacta	Unk	1	22.11.2017	Actue respriratory distress
37	Leopard	Panthera pardus	Male	1	27.11.2017	Acute renal faliure



38	Indian roofed turtle	Pangshura tacta	Unk	1	05.12.2017	Actue respriratory distress
39	Indian roofed turtle	Pangshura tacta	Unk	1	12.12.2017	Actue respriratory distress
40	Rhesus monkey	Macaca mulata	Female	1	19.12.2017	Aspiratory pneumonia
41	Sloth bear	Melursus ursinus	Female	1	22.12.2017	Hepatocellular charcinoma
42	Bison	Bos gaurus	Male	1	01.01.2018	Suspected FMD
43	White buck	Antelope cervicapera	Male	1	03.01.2018	Suspected FMD
44	Black buck	Antelope cervicapera	Male	1	04.01.2018	Suspected FMD
45	Four horned antelope	Tetracerus quadricornis	Female	1	05.01.2018	Suspected FMD
46	Goral	Nemorhaedus goral	Male	1	06.01.2018	Suspected FMD
47	Four horned antelope	Tetracerus quadricornis	Male	1	08.01.2018	Suspected FMD
48	Goral	Nemorhaedus goral	Male	1	12.01.2018	Suspected FMD
49	Four horned antelope	Tetracerus quadricornis	Male	1	14.01.2018	Shock due to retention of urine
50	Four horned antelope	Tetracerus quadricornis	Male	1	17.01.2018	Suspected FMD
51	Goral	Nemorhaedus goral	Male	1	19.01.2018	Suspected FMD
52	Goral	Nemorhaedus goral	Male	1	23.01.2018	Suspected FMD
53	Indian roofed turtle	Pangshura tacta	Unk	1	23.01.2018	Acute respiratory distress
54	Indian roofed turtle	Pangshura tacta	Unk	1	24.01.2018	Acute respiratory distress
55	Goral	Nemorhaedus goral	Male	1	25.01.2018	Suspected FMD
56	Mouse deer	Tragulus meminna		1	26.01.2018	Suspected FMD
57	Goral	Nemorhaedus goral	Female	1	28.01.2018	Suspected FMD
58	Goral	Nemorhaedus goral	Female	1	01.02.2018	Suspected FMD
59	Mouse deer	Tragulus meminna		1	10.02.2018	Pneumnitis
60	Indian roofed turtle	Pangshura tacta	Unk	1	16.02.2018	Acute respiratory Faliure
61	Indian roofed turtle	Pangshura tacta	Unk	1	16.02.2018	Acute respiratory distress



62	Gharial	Gavialis gangeticus	Male	1	21.02.2018	Haemorrhagic shock dueto trauma
63	Gharial	Gavialis gangeticus	Male	1	22.02.2018	Septicemia caused by panniculitis
64	Gharial	Gavialis gangeticus	Male	1	23.02.2018.	Septicemia caused by panniculitis
65	Wild boar	Sus scrofa	Male	1	12.03.2018	Sepcaemic shock

67

23. Compliance with conditions stipulated by the Central Zoo Authority

		iance with conditions stipulated by the		<u> </u>
	Nor m No.	Condition Stipulated	Time period to Comply	Remarks
Ge	neral R	equirements		
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 appropriate design sewage treatment plant is proposed to be created under PUNCAMPA scheme 2017-18 and financial outlay of rupees1Cr has also been year marked for this. The estimates have been prepared and submitted to the higher authorities for approval. The work in this regard will be undertaken shortly
Ani	mal hou	ısing, display of animals and animal en	closures :	
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 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 2017-18 whose financial allocation has been year marked and estimates are under the process of approval. This work will be done very 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 put. The out of bound area around the leftover enclosures will be planted in the current year.



				I
7	4	Old cadge type primate enclosures should be demolished and adequate number of well-designed open top enclosures should be constructed.	Two Year	This observation has been considered and component of creating open top well designed enclosure in respect of primate chimpanzee/ baboon has been incorporated in the APO of Punjab Zoos Development societies in 2017-18. The demolition and thereafter construction of appropriate designed primate enclosure 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 whose allocation 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 tiger and lion feeding cells are being camouflage 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 excess number of rescued panthers 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 displaying in small cage will be shifted to newly designed walk in 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 consideration and funds for this purpose are short presently.
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 implementing in letter and spirit and viewing area is decreased one third of the periphery of enclosure by raising the vegetation 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 implementing in letter and spirit and viewing area is decreased one third of the periphery of



				enclosure by raising the vegetation fence.
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 signage's for whole zoo including nocturnal house is under preparation by the ongoing project of Asian Development Bank (Tranch - 3) for the Chhatbir zoo. The nocturnal house will be fitted with signage's with i/m 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 under process.
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 is being done.
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 due course of time.
23	4(10	All sign boards should have precise biological and ecological information.	Six months	The compliance is being done.
Upk	eep an	d healthcare of animals :	<u> </u>	
2 4	5	The zoo should have appropriately designed meat house at a reasonable distance from the kitchen.	Six months	A separate meat house has been created with a reasonable distance from the kitchen.
2 5	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 while a component for making pucca flooring of tiger houses has been incorporated in the PUNCAMPA 2017-18. This work will be completed in the current year.
2 6	5(2)	The zoo should have appropriately designed water storage tank.	Two year	The planning to make 5 lakh Lt storage water tank is under process.
2 7	5(6)	Curatorial staff should maintain records of the biological behavior observed by them.	Immediate effect	The compliance is being done.
Vete	rinary	and infrastructure facilities :		
2 8	6(1)	Zoo hospital should have requisite number of inpatient wards for	One year	Zoo hospital is maintaining adequate number of wards in respect to animals,



		herbivores and birds.		birds, reptiles and other live stocks.	
9	6(6)	Too 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.	
Pos	Post-mortem and disposal of carcasses of animals :				
3	7(1)	Post mortem room of the zoo should have a proper changing room and shower facility and appropriate postmortem equipment.	Three months	The compliance has been done.	

Acquisition and breeding of animals :				
3	9(4)	Mates should be arranged for single jaguar, swan and fallow deer.	Six months	The issue of pairing of swan and fellow deer is taken up on priority by dialoguing with other zoos of India.
Res	Research activities :			
3 2	10(1)	The zoo should have detailed Disaster Management Plan and should have mock drills regularly.	Immedi ate effect	Quick response team has already been constituted and to implement Disaster Management Plan mock drills are being initiated.
3	10(1)	Zoo should have a detailed research plan and execute it effectively.	Immedi ate effect	Detailed research plan is being prepared.
Vis	itors Fac	ilities :		
3 4	12(3)	Zoo should have ramp and wheel chairs to facilitate the differently abled persons.	Immedi ate effect	The wheel chairs are in place and ramp has been made where needed for facilitating differently abled persons.
Ger	neral obs	servations :		
3 5	Gene ral	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.



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

a. Mammals

S.No	English Name	Scientific Name
1	Samar	Cerves uicolor
2	Jackal	canis aureus
3	Porcupine	Hystrix indica
4	Hare	Lepus nigricollis

b. Birds

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



30	Large egret	Egretta alba
31	Smaller or Median egret	Egretta
32	Little egret	Egretta garzetta
33	Night heron	Nycticorax nycticorax
34	Painted stork	Mycteria leucocephalus
35	White necked stork	Ciconia episcopus
36	Ruddy shelduck or Brahminy duck	Tadorna ferruginea
37	Pintail	Anas acuta
38	Common teal	Anas Crecca
39	Spotbill duck	Anas poecilorhycha
40	Mallard	Anas platyrhynchos
41	Gadwall	Anas Penelope
42	Shoveller	Anas clypeata
43	Common Pochard	Aythya ferina
44	Nakta or Comb Duck	Sarkidiornis melanotos
45	Black winged Kite	Elanus careruleus
46	Crested honey buzzard	Pernis Ptilorhynchus
47	Pariah Kite	Milvus migrans
48	Shikra	Accipiter badius
49	Asiatic Sparrow Hawk	Accipiter nisus
50	Greater spotted eagle	Aquila clanga
51	Lesser spotted eagle	Aquila pomarina
52	Marsh harrier	Circus aeruginosus
53	Crested serpent eagle	Spilorins cheela
54	Black partridge	Francolinus francotinus
55	Grey partridge	Francolinus pondicerianus
56	Grey quail	Coturnix coturnix
57	Jungle bush quail	Perdicula asiatica
58	Indian Pea Fowl	Pavo cristatus
59	Little bustard quail	Turnix sylvatica
60	Indian bustard quail	Turnix suscitator
61	Demoiselle crane	Anthropoides virgo
62	Ruddy crake	Porzana fusca
63	Moorhen	Gallinula chloropus
64	Coot	Fulica atra
65	White-tailed lapwing	Vanellus leucurus
66	Red wattled lapwing	Vanellus indicus
67	Black winged stilt	Himantopus himantopus
68	Green Pigeon	Treron phoenicoptera
69	Blue rock pigeon	Columba livia
70	Rufous turtle dove	Streptopelia orientalis



71	Ring dove	Streptopelia decapcto
72	Spotted dove	Streptopelia chinensis
73	Rose ringed parakeet	Psittacula eupatria
74	Blossom headed parakeet	Psittacula cyanocephala
75	Pied crested cuckoo	Clamator jacobinus
76	Indian cuckoo	Cuculus micropterus
77	Koel	Eudynamys scolopacea
78	Coucal or crow pheasant	Centropus Sinensis Sinensis
79	Barn owl	Tyto alba
80	Collared scops owl	Otus bakkamoena
81	Great horned or Eagle owl	Bubo bubo
82	Dusky horned owl	Bubo coromadus
83	Brown fish owl	Bubo Zeylonensis
84	Spotted owlet	Athene brama
85	Indian Jungle night jar	Caprimulgus indicus
86	House swift	Apus affinis
87	Palm swift	Cypsiurus parvus
88	Small blue kingfisher	Alcedo atthis
89	Blue tailed bee eater	Merops philipppinus
90	Small green bee-eater	Merops orientalis
91	Ноорое	Upupa epops
92	Grey hornbill	Tockus birostris
93	Large green barbet	Megalaima zeylanica
94	Lesser golden backed woodpecker	Dinopium benghalense
95	Golden oriole	Oriolus oriolus
96	Black drongo or king crow	Dicrurus adsimilis
97	Blackheaded or Brahminy myna	Sturnus pagodarum
98	Common myna	Acridotheres tristis
99	Bank myna	Acridotheres ginginianus
100	Tree pie	Dendrccitta vagabunda
101	House crow	Corvus splendens
102	Jungle Crow	Corvus macrorhynchos
103	Redvented bubul	Pycnonotus cafer
104	Rufous bellied babbler	Dumetia hyperythra
105	Yellow eyed babbler	Chrysomma sinense
106	Brown flycatcher	Muscicapa latirostris
107	Paradise flycatcher	Terpsiphone paradisi
108	Yellow bellied wren warbler	Prinia flaviventris
109	Tailor bird	Orthotomus sutorius
110	Magpie robin	Copsychus salularis



111	River chat or whitecapped redstart	Chaimarrornis leucocephalus
112	Indian robin	Saxicoloides fulicata
113	Tree crepper	Certhia himalayana
114	Purple sunbird	Nectarinia asiatica
115	House sparrow	Passer hispaniolensis
116	Baya weaver bird	Ploceus philippinus
117	Black throated weaver bird	Ploceus benghalensis
118	Red munia or Avadavat	Estrilda amandava
119	White throated munia	Lochura malabarica
120	Spotted munia	Lochura punctulata
121	Crested bunting	Melophus lathami

c. Reptiles

S. No	English Name	Scientific Name
1	Python (Indian rock)	Python molurus molurus
2	Bengal Monitor	Varanus bengalensis
3	Indian Flap shell turtle	Lissemys punctata
4	Cobra	Naja naja
5	Rat Snake	Ptyas mucosa
6	Russell wiper	Daboia russelii
7	Red Sand boa	Eyrx johni
8	Checkerd keel back	Xenochrophis piscator
9	common krait	Bungarus caeruleus

