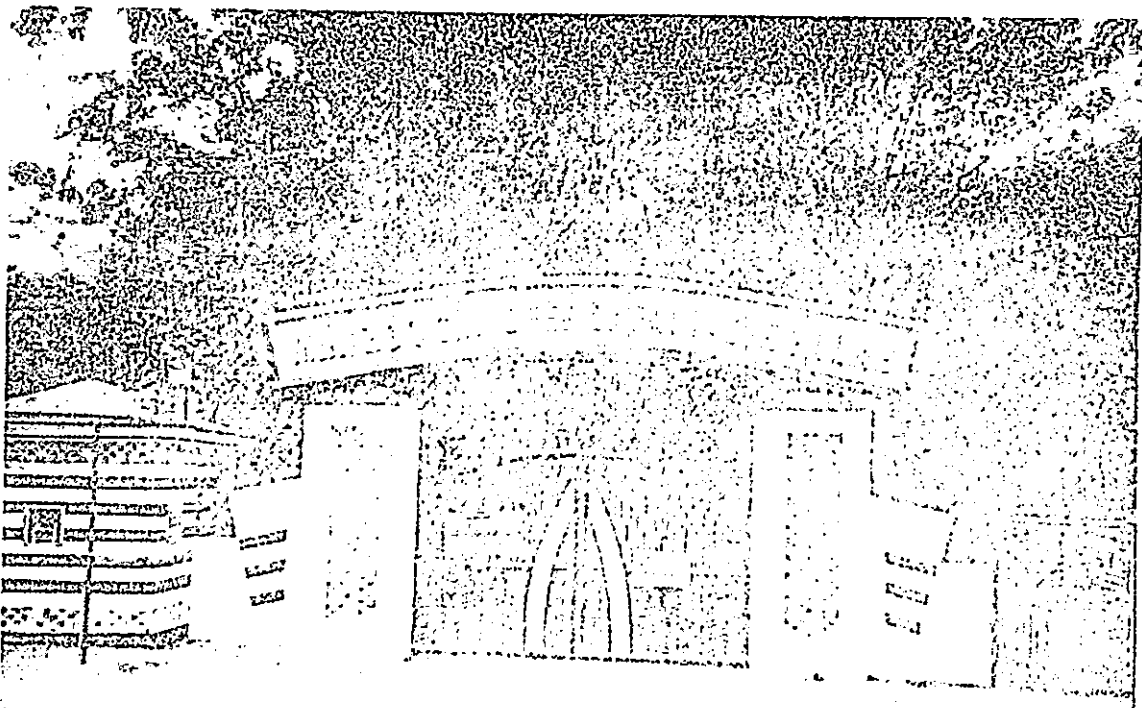


# Annual Report

## 2022-23

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Report of the activities of MINI ZOO CUM DEER SAFARI BIR  
TALAB BATHINDA from APRIL 2022 TO MARCH 2023



### 1) Report of the Officer-in-charge

As above.

### 2) History of the Zoo

Mini Zoo Bir Talab Bathinda was established in 1978 within Bir Talab Block Forest. Total Area of Bir Talab Forest is 161 Acre. Started in a modest way by Red Cross Society, Bathinda but later on it was adopted by Punjab Forest & Wildlife Preservation Department in the year 1982. Situated about 6 KM away from Bathinda town on Bathinda Multania Road and spread over approximately 10.40 hect. Area. The Mini Zoo is situated in the Block Protected Forest.

### 3) Vision

So many animals and Birds (Detailed in Sr no 26) in Mini Zoo Bir Talab. Main vegetation of the area includes elements of dry deciduous forests dominated by Mulberry (*Morus alba*), Neem (*Azadirachta indica*), Arjun (*Terminalia arjuna*), Shisham (*Dalbergia sissoo*) and other species. Neem (*Azadirachta indica*), Burma Drek (*Melia composita*) plantation has also been taken up. There are some research plots of casurina, Eucalyptus, teak, Maleyna, Khair etc. species. In all there are more than Fifty two different species of trees standing in the Bir Talab block forest. The fauna found free ranging within the Block Forest are Blackbuck (*Antelope cervicapra*), bluebull (*Boselaphus tragocamelus*), snakes, rhesus macaques, Longeared Hedgehog (Jhaha), Mongoose etc.

### 4) Mission

To educate the people regarding wildlife, their habitat, food habits and status etc.

### 5) Objective

Ex-situ maintenance and conservation of endangered species in captivity. To enhance knowledge of animal behavior by conducting research and study on management of wildlife in captivity and to educate the people regarding wildlife, their habitat, food habits and status etc.

## 6) About us

Sr.No	Particulars	Information
<b>Basic information about the Zoo</b>		
1	Name of the Zoo	Mini Zoo Cum Deer Safari, BirTalabBathinda.
2	Year of Establishment	1978
3	Address of the Zoo	Multania road BirTalab, Bathinda.
4	State	Punjab
5	Telephone Number	0164-2271555
6	Fax Number	0164-2271555
7	E-mail address	dfobathinda@gmail.com
8	Website	-
9	Distance from nearest	Airport: 30 Km
		Railway Station: 5 Km
		Bus Stand: 7 Km
10	Recognition Valid upto (Date)	2022
11	Category of zoo	Mini Zoo
12	Area (in hac)	59 hac
13	Number of Visitors (Financial Year)	Adult: 83545
		Children: 37992
		Total Indian:121528
		Total Foreigners: 9
		Total Visitors: 121537
14	Visitors facilities Available in Zoo	Drinking Units, Public Tollet, Canteen, Parking.
15	Weekly closure Day of the Zoo	Monday
<b>Management Personnel of the zoo</b>		
16	Name with designation of the Officer-in-charge	Sh Pawan Shridhar, Forest Range Officer.
	Name of the Veterinary Officer.	Dr. Sambhav Jain
	Name of the Curator	Sh Pawan Shridhar, Forest Range Officer.
	Name of the Biologist	Nil
	Name of the Education Officer.	Nil
	Name of the Compounder/Lab Assistant	Nil
<b>Owner/ Operator of the Zoo</b>		
17	Name of the Operator	Sh Pawan Shridhar, Forest Range Officer.
18	Address of the Operator	Mini Zoo-cum-Deer Safari ,Multania road, BirTalab, Bathinda.
19	Contact details/ Phone number of Operator	98149-26446
20	E-mail address of Operator	dfobathinda@gmail.com

7) Organization Chart

D.F.O Bathinda

Forest Range Officer Mini Zoo Bir  
Talab

Forester

Forest  
Guard

Forest  
Guard

Forest  
Guard

8) Human Resources

Manpower of the Zoo

Sr. No	Designation	Number of Sanctioned Posts	Name of the incumbent
1	Veterinary doctor	0	1 (visting)
2	Veterinary Pharma	0	2
3	Forest Ranger	0	1
4	Wild Life Inspector/ Dy. Ranger	1	0
5	Forester	1	2
6	Wild Life Guard	1	4
7	Forest Guard	1	4
8	Sen. Asst	0	1
9	JuniourAsstt	0	2
10	Store Keeper	0	1
11	Ticket Clerk	0	1
12	Computer Opr.	0	1
13	Tractor Driver/ Jeep Driver	0	3
14	Zoo Keeper	0	4
15	Gate Keeper	0	2
16	Chowkidar	1	4
17	Sweeper	0	2
18	Class IV peon	0	4
19	Mali	0	4
20	Labour	0	As per requirement

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
Nil				

10) Zoo Advisory Committee :-

- a) Date of constitution
- b) Members
- c) Dates on which Meeting held during the year

11) Health Advisory Committee :-

- a) Date of constitution
- b) Members
- c) Dates on which Meeting held during the year

12) Statement of income and expenditure of the Zoo  
Financial Performance

Revenue Mini Zoo during the financial year 2022-23 provide grant in Aid Rs. 283 lakhs. For annual maintenance & operation of Revenue Mini Zoo during the financial year 2022-23 the Society through the Zoo generated revenue worth Rs 38.40 lakhs. Major revenue earning were though entry fee, conrtacts and donations.

Expenditure

Total amount spent by mini zoo bir talab during 2022-23 for operating Zoo was 283 Lakh, major expenditure being on establishment and maintenance of animals and their enclosures.

13) Daily Feed Schedule of animals

Sr.No	Feed item	Quantity
1	Cattle Feed	45.900 kg (per day)
2	Satnaja	23.5 kg (per day)
3	Groundnut	1.400 kg (per day)
4	Kangani	3.765 kg (per day)
5	Paddy	450 gm (per day)
6	R.B.G	650 gm (per day)
7	Gur	6 1.200 kg (Twice a week)
8	Black Salt	25 kg (Twice a week)

9	Green fodder	43.3 Qtl
10	Fruit Apple Banana Mauseumi Papita	13.634 kg 176 Pc 3 pc 4.1 KG
11	Vegetables Onion Gralic Cucmuber Cabbage Patato Green chilli Green peas	1.835 kg 1.430 kg 2.034 kg 6.695 kg 950 gm 450 gm 8.1 kg
12	Buffelow meat	12 KG
13	Bread	950 gm
14	Baajra	1.255 kg
15	Black gram	35.100 kg
16	Palak	6.735 kg
17	Water melon	3.250 kg
18	Turnip	950 kg
19	Glucon-D	1.010 kg

14) Vaccination Schedule of animals

Sr.No	Species	Disease vaccination for	Name of the Vaccine and dosage/quantity used	Periodicity	Remarks
1	Leopard	Rabies	Nobivac Rabies/ One dose	Annually	As per directed by physician

15) De-worming Schedule of animals

Sr.No	Species	Drug used	Month
1	Black Buck	1g panacur/deer	5-2022
2	Sambar	10g panacur/deer	5-2022
3	Spotted Deer	1g panacur/deer	5-2022

#### 16) Disinfection Schedule

- a) Heat through steam to leopards.
- b) Sunlight in open enclosures.
- c) Washing with Phynile, soaps and detergents (synthetic).
- d) Pottassium permagnate for Leopords and Chlorine.
- e) Use of Dettol to wash pond containers/Utensils of Birds and animals to wash off germs.

#### 17) Health check-up of employees for zoonotic deseases

Sr.No	Name	Designation	Date of Health Check up	Findings of Health Check up
1	Roop Singh	Daily wages Labourer	-	-
2	Sadhu Singh	Daily wages Labourer	-	-
3	Ram Kumar	Daily wages Labourer	-	-
4	Gurdeep Singh	Daily wages Labourer	-	-
5	Rajinder Singh	Daily wages Labourer	-	-

#### 18) Development works carried out in the zoo during the year

##### a) Rain shelters

New 8 rain shelters were constructed during the financial year 2022-23 with the cost of 7.20 lakh. These rain shelters are situated inside the zoo campus.

##### b) Walking Paths

The walking paths were constructed in Butterfly park during the financial year 2022-2023 with the cost of 3.29 lakh. The entire Butterfly park has been established over area 5 acres which have a butterfly trail of about 1000 meter length with a landscaped garden.

##### c) Signages Boards

Signages Boards were established near all the cages to provide the information to visitors about the birds and animals in the cage during the financial year 2022-23 with the cost of 5lakh. These signages boards are a source of information and to give awareness to visitors about wildlife.

##### d) Rcc benches

In the financial year 2022-23 the 48 Rcc benches were built for the visitors facility at Mini Zoo with the cost of 2.59 lakh.

##### e) Solar LED panel lights

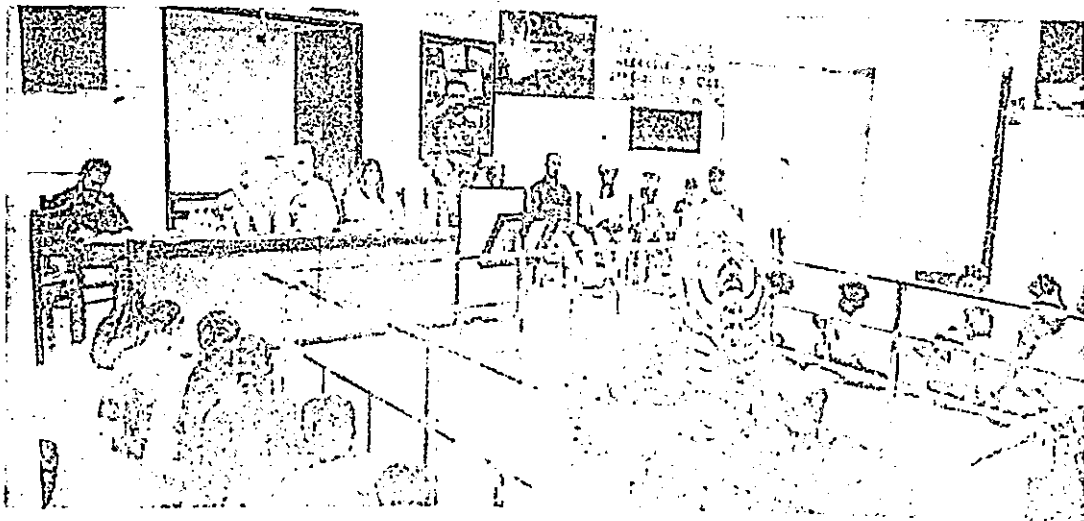
During the financial year 2022-23 40 solar street lights (12 watt) project was established with the help of Punjab Energy Development Agency. The cost of this project was 5.46 lakh. These solar lights are installed at various places inside zoo and sfari also. The solar street lights do not emit any harmful pollutants, which is beneficial for the environment and human health.

### Education and awareness programmes during the year

The prime objective of Mini Zoo of Mini Zoo is educating the visitors about wildlife conservation. Organization various education activities throughout the year with Support of local NGO's and sponsors. It encourages the youth to conserve and use it sustainably, especially the students of school and colleges. More than 10500 students were made aware of biodiversity and wildlife conservation through the above programs. More than 600 tree saplings were also planted during this period inside the Zoo campus. Major awareness activities undertaken during the year were:

- A. World Environmet Day 2022 : On occasion of World Environment Day on 5<sup>th</sup> June 2022, the MINI ZOO Park has embarked on a mission to enforce a ban on the entry of plastic botteles and polythene begs into the Zoo and has put in place stringent anti-littn measures within Zoo premises. In celebrity on world environment there are more than 500 plants of different species has been planted in Mini Zoo BIR TALAB to create Biodiversity.
- B. Wildlife Week Celebrations 2022 : Like every year, the Mini Zoo cum deer safari BIR TALAB was celebration from 2<sup>rd</sup> to 8<sup>th</sup> October, 2022 by organizing an array of events including best Eco club Award, Inter School Essay Competition, Inter School Debate Competition. The celebration was formally inaugurated by the chief guest Divisional Forest officer Sh. Swarn Singh, P.F.S to create Biodiversity.

### 19) Important Events and happenings





20) Seasonal special arrangements for upkeep of animals :

- a) Ecological enrichment for Captive animals like caves and bamboo platforms in display areas of leopard enclosure, Re-do of breeding hut of Indian peacock, and plantation of trees inside enclosure for biodiversity measures.
- b) List of wanted surplus animals and animals Collection plan of the Zoo has been prepared and finalized.
- c) All the birds and animals vaccinated against feline Pan Leucopenia, Calicivirus, Herpes Virus and Rabies infection using Biofel PCHR vaccine under annual vaccination Schedule. The cloven footed animals were vaccinated against FMD every nine months.
- d) Captive animals and birds were de-wormed of Endo and Ecto parasites.
- e) In summer season all the birds and animals were serviced with artificial rain to maintain temperature level.

21) Research Work carried out and publications

Though structured research activity is not done at present by the zoo staff, researchers from various scientific institutions/Universities do take interest in conducting research on captive animals.

22) Conservation Breeding Programme of the Zoo

The Mini Zoo largely has deer species in its collection. There is thus a need to focus on conservation breeding of some of the endangered deer species like Hog deer and barking deer etc.

23) Animal acquisition/ transfer/exchange during the year

A. Animals arriving in the Zoo					
H.No	Species	Number (M.F)	From which Zoo	Date of arrival in the Zoo	
	nil	nil			
	nil	nil			
B. Animals going from Zoo					
H.No	Species	Number (M.F)	Going to which Zoo	Date of deposition from the Zoo	
Nil					

24) Animal acquisition/ transfer/exchange during the year

A. Animals arriving in the Zoo				
H.No	Species	Number (M.F)	From which Zoo	Date of arrival in the Zoo
	nil	nil		
	nil	nil		
B. Animals going form Zoo				
H.No	Species	Number (M.F)	Going to which Zoo	Date of deposition from the Zoo
Nil				

25) Rescue and Rehabilitation of wild animals carried out by the Zoo

Sr.No	Date of Rescue	Species with number of animals rescued with their sex (M:F:U:T)	Received from	Date of Submission of Report to the CWLW /CZA	Action taken	
					Date and Place of rehabilitation in their habitat	Reasons for housing in the zoo, if not released in their habitat
Nil						

26) Mortality of animals

Sr. No.	Animal Name (With individual identification mark, if any)	Scientific Name	Sex	Date of Death	Reason of Death as per the Post-mortem report
1	Spotted Deer	Axis axis	Female	07/2022	
2	Partridge Black	Francalinus asiae	Female	08/2022	
3	Leopard	Panther Pardus	Male	11/2022	
4	Samber	Cervus unicolor	Male	11/2022	

27) Annual Animal Inventory report

Sr. No.	Name of Animal/Bird	During the Year																				
		Opening Stock on 01/04/21			Births			Acquisition			Disposals			Deaths			Closing Stock on 31/03/22					
		M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T			
Schedule I																						
MAMMAL																						
1	Black Buck (Antilope cervicapra)	60	54	114	6	8	14	0	0	0	0	0	0	0	0	0	0	0	0	66	62	128
2	Leopard (Panther pardus)	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	0	2
BIRD																						
1	Peafowl Indian (Pavo cristatus)	6	6	12	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	6	8	14
Schedule II																						
MAMMAL																						
1	Rhesus Macaque (Macaca malatta)	6	5	11	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	7	6	13
Schedule III																						
MAMMAL																						
1	Spotted Deer (Axis axis)	34	31	65	6	4	10	0	0	0	0	0	0	0	0	0	1	1	0	40	34	74
2	Hog Deer (Axis poronotus)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Sambar (Cervus unicolor)	24	16	40	5	8	13	0	0	0	0	0	0	0	0	0	1	0	1	28	24	52
4	Porcupine (Hystrix)	2	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	3
BIRD																						
1	Dove (Columbidae)	1	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4
2	Partridge Black (Francolinus asiaticus)	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	2
4	Partridge Brown (Francolinus francolinus)	0	6	6	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	6	7
5	Red Munia (Estrilda amaurogaster)	11	9	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	9	20
6	Parakeet (Psittacidae)	28	17	43	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	27	18	45
7	White Sparrow	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
8	Finch	2	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	4
Schedule IV																						
BIRD																						
1	Budgeriger (Melopsittacus undulatus)	108	95	203	9	13	22	0	0	0	0	0	0	0	0	0	0	0	0	117	108	225
2	Emu	9	4	13	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	10	5	15

28) Compliance with conditions stipulated by the Central Zoo Authority

Sr. No.	Norm No. Under RZR 2009	Condition Stipulated	Time Period to Comply	Since when pending	Status with regard to compliance of the conditions
<b>General requirement</b>					
1.	1(7)	Liquid waste management needs improvement by constructing well covered draining system as per approved Master			Done
<b>Administrative and staffing pattern</b>					
2	2(1)	The zoo should have whole time in-charge with adequate administrative and financial powers.			
3	2 (2)	Veterinar officer & scientific and technical staff may be employaed on need basis to fulfill objective of the zoo			
<b>Animal hosuing, display of animals and animal enclosures</b>					
4	4(6)	Species specific enrichment should be provided in enclosures for primates & birs aviary.			Done
5		Hedge should be planted at each Standoff battler.			Done
6	4(3)	A footbath of appropriate dimansions to suit a Safarivehicle needs to be constructed at the entrance & exit of the safaris.			Done
7	4(7)	Efforts should be made to develop adequate screening in-between Deer and Tiger safaris,			
8	4(10)	Displaying locations of signage may be reviewed & improved			Done
9	5(2)	The food and water samples should be got tested regularly and recordsshouldbe maintained.			Done
10	5(8)	Zoo animals should be screened for parasiticload and vaccinated as per written schedule and the schedule be			Done

		kept enclosure			
11	5(9)	Medical check-up/screening of the staff handling animals should be done twice a year & record should be maintained.			Done
12	5(10)	Should prepare and use Keeper's Diary, Daily Report Herd sheet and Treatment Card in format prescribed by the CZA.			Done
<b>9. Acquisition and breeding of animals</b>					
13	9(4)	The male hog deer should either be paired or be shifted to another zoo housing			
14	9(9)	Should adopt population control measure to control the population of prolifically breeding animals such as Sambar and Spotted deer.			Done
<b>11. Education and outreach activities</b>					
15	11(1)	Should conduct education program for school children & public to spread message of biodiversity conservation.			Done
<b>12. Visitors facilities</b>					
16	12(1)	One more drinking water point & urinal should be constructed for usage of visitors.			Done
17	12(2)	Provision of wheel chair be made to facilitate 'Divyangjan' among visitors			Done

**List of free living wild animals within the zoo premises**

- a) Mammals – Porcupine, mongoose .
- b) Birds – Parakeet, Fruit bats, Hawk, Eagle.
- c) Reptiles – non poisonous snakes, monitor lizard .

Cls

Divisional Forest Officer  
Bathinda Forest Division  
Bathinda

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Forest Range Officer  
Mint Zoo, Bis, Talab