

ANNUAL REPORT 2021-2022 | **DHAULADHAR NATURE PARK (ZOO)**



CONTENT TABLE

Sr. No.	Section	Page No.
1	Report of the Zoo Director	1
2	Report of the Officer In-charge	2
3	History of the Zoo	3
4	Vision	4
5	Mission	4
6	Objective	4
7	About us	5-6
8	Organization chart	7
9	Human Resources	8
10	Capacity building of the zoo personnel	9
11	Zoo Advisory Committee	9
12	Health Advisory Committee	9
13	Statement of income and expenditure of Zoo	10-12
14	Daily feed schedule of animals	13
15	Vaccination schedule of animals	14
16	De-worming schedule of animals	15
17	Disinfection schedule	16-17
18	Health check-up of employees for zoonotic diseases	17
19	Development works carried out in the zoo during the year	18-21
20	Education and awareness programs during the year	21-29
21	Special arrangements for upkeep of animals	30-40
22	Rescue and Rehabilitation	40-41
23	Animal acquisition/ transfer/ exchange during the year	42
24	Rescue and Rehabilitation of wild animals carried out by zoo	43-44
25	Annual inventory of animals	45-47
26	Mortality of animals	48
27	Status of compliance with conditions stipulated by the Central Zoo Authority	49-52
28	List of free living wild animals within the zoo premises	53-57



REPORT OF THE ZOO DIRECTOR

Dhauladhar Nature Park (ZOO), Gopalpur is situated in the serene environments of Dhauladhar Mountains in Kangra District. The Zoo is under the jurisdiction of Hamirpur Wildlife Division which also covers two Protected Areas, viz. Pong Dam Lake Wildlife Sanctuary & Dhauladhar Wildlife Sanctuary.

The working of the Zoo is totally different from any other field assignments because you have an extended family of Animals whose care is of utmost importance. It gives you an opportunity to know the animals and their behavior in a better manner. It is unique learning experience for everyone who is dealing with care of the animals. There are unique ways of understanding the animals and enriching their experience in the Enclosures. The Zoo staff needs to constantly monitor and act according to the needs of the animals. The Zoo staff is constantly engaged in providing suitable environment to the animals by various means like enriching their enclosures, feeding them in playful manner, interacting with them in ways that are not known to human beings etc.

The job of the Zoo staff is highly appreciable who are always on their toes to cater to the needs of the animals. Along with that they are constantly trying to enrich the experience of the visitors by providing them best of the facilities inside the Zoo while enforcing the Zoo manners among the visitors.

This year the Zoo has welcomed newly born Asiatic Lion Cubs in the month of November which has added to the Zoo attraction. The Zoo has also celebrated Wildlife week and World Wildlife Day for creating awareness among the public regarding wild animals.

The Zoo is constantly striving to fulfill the guidelines of the CZA and act according to the Master Plan for better management of the Zoo.

Zoo Director-cum-DCF (WL)
Hamirpur Wildlife Division

REPORT OF THE OFFICER-IN-CHARGE

I have the pleasure of working as Officer In charge of Dhauladhar Nature Park (Zoo) Gopalpur. I extend my heartfelt thanks to the Government of HP and Zoo Director for allowing me to serve as in-charge of beautiful small category Zoo in the foothills of the Dhauladhar Mountain Range.

Dhauladhar Nature Park Gopalpur spreads over an area of 12.5 hectares and is housing 8 species of Mammals, 5 species of Pheasants, 3 species of Raptors, 5 species of Birds and 2 species of Reptiles in a natural type habitat. Rescued animals from various parts of Himachal Pradesh were also given equal care and treatment. Conservation Education is one of the main objectives of the Zoo. Hence Zoo organizes various educational activities to reach as many people as possible. As a part of Wildlife week celebration from 2nd to 8th October the Zoo conducted competitions like painting, essay writing and quiz for the school children.

Significant development work was carried out in the Zoo and many welfare measures were taken for the Zoo staff during the year. The rescue team of DNP Gopalpur Zoo have effectively and scientifically rescued and rehabilitated different wild animals during the year. All the rescue operations were carried out with immense care and expert handling of animals.

Dharamshala and Palampur area being one of the most visited tourist destinations of the Himachal Pradesh and the visitor camping sites are attached to DNP Gopalpur Zoo. I take this opportunity to thank animal section, Veterinary section, Administrative section, Revenue section, Security section, Garden section, Store and feed section and everyone who has dedicated their time and hard work in development of Zoo.

Range Forest Officer
Dhauladhar Nature Park
(ZOO) Gopalpur

HISTORY OF THE ZOO

The Park is located at a place which presents panoramic view of the unique feature of Dhauladhar Mountain Ranges and the valley, hence got the name Dhauladhar Nature Park. Construction work for establishment of Zoo in Gopalpur area started in October, 1991 and officially inaugurated & opened to public by the Hon'ble CM Himachal Pradesh, Sh. Shanta Kumar, on 23.April.1992. Entry fee was imposed w.e.f 25.May.1992. Sh. N. S. Thakyal was officially appointed as the Range Forest Officer cum Zoo In-charge on 01.Feb.1993. Establishment of this Zoo was done with the name 'Dhauladhar Nature Awareness Center Gopalpur'. But in June 1994, name was changed to 'Dhauladhar Nature Park'. This park is situated 12 KM from Palampur on Palampur-Dharamshala road. Famous "*Chamundaji*" temple which is one of the important pilgrimages is about 6 KM from Gopalpur. The tea gardens in adjoining areas add to the beauty of area. This park came into existence during 1992. The proximity of this place to tourist spots like Palampur, Dharamshala and "*Chamundaji*" Temple makes this park an attraction to thousands of tourists annually. The HPKVV Palampur, Veterinary College, IVRI and ICAR and numerous schools and colleges of at least seven districts of the state, benefit their students by undertaking their visits to this Park for educating them. Dhauladhar Nature Park is spread over 12.5 hectares with beautiful landscaped gardens interspersed with small forested patches with an abundance of free ranging birds & Butterfly. Himachal Pradesh has been bestowed by Nature with diverse climate conditions. The Climate and terrain ranges from sub-tropical to alpine and cold desert conditions which inhabits a wide spectrum of flora and fauna.

VISION

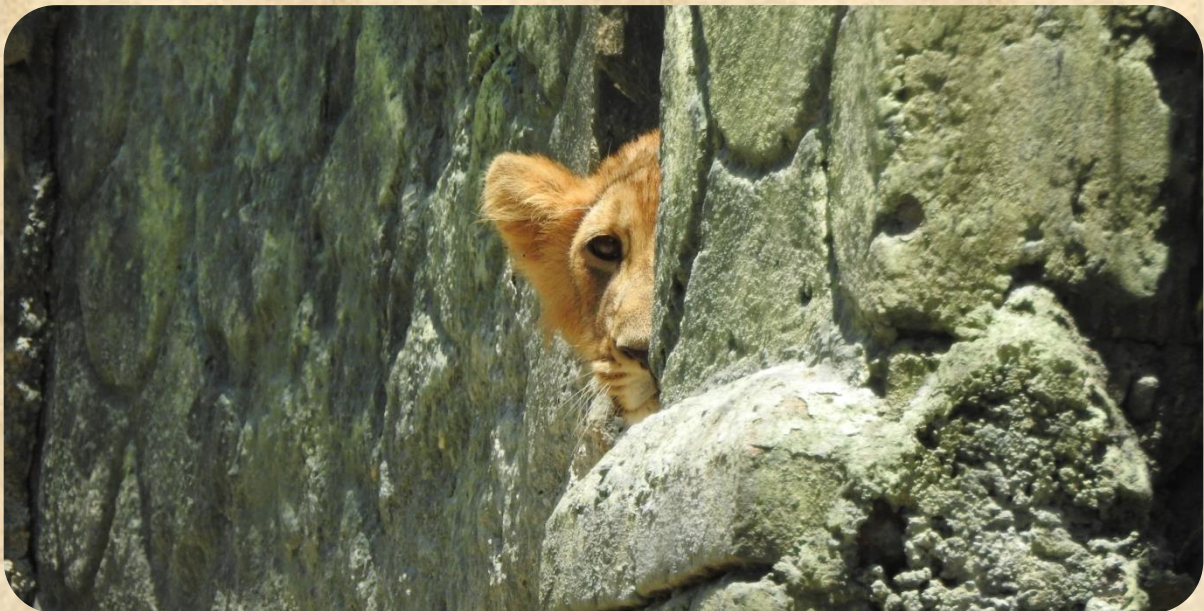
Provide naturalistic habitat to various wild animals and create awareness towards conservation of flora & fauna of the region.

MISSION

Develop amongst visitors' empathy for Wildlife through animal welfare & care, and to motivate them to support the cause of conservation of Wildlife.

OBJECTIVE

- a. To create awareness among visitors about Nature and Wildlife.
- b. Rescue & Rehabilitation of wild animals.
- c. To provide research opportunities to students on various aspects about wildlife, animals' ecology, behavior & disease investigation.



ABOUT US

S.No.	Particulars Information	Basic Information about the Zoo
1	Name of the Zoo	Dhauladhar Nature Park(ZOO) Gopalpur
1.	Year of Establishment	1992
2.	Address of the Zoo	Dhauladhar Nature Park, Gopalpur, P.O. Palampur Dist: Kangra
3.	State	Himachal Pradesh
4.	Telephone Number	01894-252034
5.	Fax Number	01894-252034
6.	E-mail address	rodnpgopalpur@gmail.com
7.	Website	www.gopalpurZoo.com
8.	Distance from nearest Airport:	32 KM (Gaggal Airport)
9.	Railway Station:	12 KM (Chamundaji)
10.	Bus Stand:	200 mtrs (Gopalpur)
11.	Recognition Valid upto (Date)	
12.	Category of Zoo	Small Zoo
13.	Area (in Hectares)	12.5 hectare
14.	Number of Visitors (2021-2022)	Adult :86740 Children+ Children Tour : 17486 Total Indian : 86740 Total Foreigners : 72 Total Visitors: 104298
15.	Facilities Available in Zoo	Drinking water Urinals Lawns Shelters Food court and canteen Zoo Visitor guides Wheelchair (free of cost)
16.	Weekly Closure Day of the Zoo	Monday

Management Personnel of the Zoo

17.	Name with designation of the Officer in-charge	Sh. Darshan Singh, RFO
18.	Name of the Veterinary Officer	Dr. Anshul Chandel
19.	Name of the Curator	NIL
20.	Name of the Zoo Biologist	Sh. Vishal Thakur.
21.	Name of the Education Officer	NIL

22. Name of the Compounder/ Lab Assistant **NIL**

Owner / Operator of the Zoo

23. Name of the Operator

H.P. Forest Department

24. Address of the Operator

**Deputy Conservator of
Forests, Wildlife Division
Hamirpur 177001**

25. Contact details/Phone number of
Operator

01972222319

26. E-mail address of Operator

dfohamirpurwildlife@gmail.com



ORGANIZATION CHART



HUMAN RESOURCES

Sr. No.	Designation	Number of Sanctioned Posts	Names of the incumbent
1.	Zoo Director	1	Sh. Rahul M. Rohane, IFS
2.	Range Forest Officer	1	Sh. Darshan Kumar
3.	Block Officer	2	Sh. Darshan Kumar
			Sh. Suminder Kapoor
4.	Forest Guard	7	Smt. Reetu Patial
			Sh. Suresh Thakur
			Ku. Meena Kumari
			Smt. Anjali Devi
			Sh. Raj Kumar
			Sh. Kewal Krishan
			Sh. Sandeep Kumar
			Sh. Prabhat Singh
5.	Animal Attendant	3	Sh. Niranjn Singh.
			Sh. Hari Singh.
			Sh. Balbir Singh
6.	Mali	4	Sh. Punnu Ram
			Sh. Suresh Kumar
			Sh. Rikhi Ram
			Smt. Taro Devi.
7.	Forest Worker	2	Sh. Jagdish Chand
			Sh. Sarwan Kumar
8.	Chowkidar	1	Smt. Raksha Devi
1.	Veterinary Doctor	1	Dr. Anshul Chandel
2.	Zoo Biologist	1	Sh. Vishal Thakur

CAPACITY BUILDING OF ZOO PERSONNEL

S. No.	Name and designation of the Zoo personnel	Subject matter of Training	Time period	Name of the Institution where the Training attended

ZOO ADVISORY COMMITTEE

a) **Date of constitution :-** 1/2018

b) **Members :**

- I. DCF, Wildlife Division Hamirpur – Chairman
- II. Veterinary Officer (Wild Life), DNP Gopalpur – Member
- III. Range Forest Officer (wild life), DNP Gopalpur – Member
- IV. Dr. Pradeep Sharma Asstt Professor Veterinary Medicine, DGCN COVAS, CSKHPKV Palampur - Member
- V. Zoo Biologist – Member
- VI. Sh. Bhupinder Singh Retd. Dy. Ranger DNP Gopalpur – Member
- VII. Pradhan Gram PanchayatGopalpur – Member
- VIII. Deputy Ranger and all Forest Guards DNP Gopalpur – Member

c) **Dates on which Meetings held during the year : nil**

HEALTH ADVISORY COMMITTEE

- I. DCF, Wildlife Division Hamirpur – Convener
- II. Veterinary Officer, DNP Gopalpur – Coordinator
- III. Dr. Adarsh Kumar, Professor and Head, Dept. – Member
- IV. Dr. Pradeep Sharma Asstt Professor Veterinary Medicine, DGCN COVAS, CSKHPKV Palampur - Member
- V. Sh. Bhupinder Singh Retd. Dy. Ranger DNP Gopalpur – Member
- VI. Pradhan Gram PanchayatGopalpur – Member
- VII. Deputy Ranger and all Forest Guards DNP Gopalpur – Member

STATEMENT OF INCOME AND EXPENDITURE OF THE ZOO

Table 1: Statement of income of Zoo

S. No.	Name of Work	Amount (collection/received)	Remarks
1.	Ticket window	4171800	

Table 2: Statement of expenditure of Zoo (HPZCBS).

S. No.	Name of Work	Expenditure in Rs.
1.	Feeding articles of captive zoo animals	5000000
2.	Salary of on contract staff	550000
3.	Cleaning of night sheds	100000
4.	Office expense	100000
5.	Strengthening of Asiatic Black Bear enclosure	50000
6.	Strengthening and partition of Leopard enclosure	300000
7.	Strengthening of Goral and Barking Deer enclosure	50000
8.	Strengthening of Asiatic Lion enclosure	50000
9.	Purchase of medicines drugs and lab supplies	200000
10.	Partition of Asiatic Lion enclosure	1000000
11.	Annual healthcare examination of Zoo and MSC staff	50000
12.	Enrichment in Goral enclosure	50000
13.	Enrichment in Barking deer enclosure	50000
14.	Enrichment in Asiatic Lion enclosure	50000

15.	Enrichment in Leopard enclosure	50000
16.	Enrichment in Emu enclosure	50000
17.	Enrichment in Asiatic Black Bear enclosure	50000
18.	Awareness and printing material	200000
19.	Providing of zoo uniform	100000
20.	Cleaning of weeds	100000
21.	Improvement of toilet facilities in zoo	100000
22.	Repair and maintenance of Post-mortem room	100000
23.	Purchase of transportation, capture/trap and squeeze cages for small and large animals and birds	100000
24.	E-ticketing machine	200000
25.	Renovation of FRH at Gopalpur	300000
Total		8950000



Table 3: Statement of expenditure of Zoo (CAMPA).

S. No.	Name of Work	Expenditure in Rs.
1	Construction of fountain	150000
2	Annual maintenance of zoo	1000000
3	Water supply and storage tanks	150000
4	Veterinary equipments	100000
5	Training workshop of staff and publication of Annual Report	50000
6	Outreach and Zoo education program	50000
7	Watch tower	200000
8	Cleaning and sweeping zoo	200000
9	Hiring of vehicle	50000
10	Landscaping	50000
11	Improvement of signage in zoo	50000
12	Support to zoo for providing of feeding articles to captive zoo animals	2500000
13	Veterinary medicines and equipments	250000
14	Electricity/water and other expenses	250000
	Total	5050000

Table 3: Statement of expenditure of General head.

Sr. No.	Name of work	Expenditure in Rs.
1	Renovation of entry gate of zoo	50000
2	Construction of additional structure for quarantine facility in zoo	450000
	Total	500000

DAILY FEED SCHEDULE OF ANIMALS

<u>S. No.</u>	<u>Species</u>	<u>Feed Item</u>	<u>Quantity / Animal (In Kgs.)</u>	<u>Frquency of feeding</u>	<u>Day of Fasting</u>
1	Asiatic Lion	Mutton	Male- 8.0 Female- 6.0 Sub-adult-4.0	2 times week	Tuesday
		Chicken	Male- 8.0 Female- 6.0 Sub-adult-4.0	4 times week	
4	Common Leopard	Chicken	Male- 2.50 Female- 2.0	4 times week	Tuesday
6	Leopard Cat	Chicken	0.250	Daily	
7	Himalayan Griffon	Mutton	1.500	Twice a week	
8	Black Kites	Chicken	0.250	Daily	
9	Steppe Eagle	Chicken	0.300	Daily	
10	Himalayan Black Bear	C/Maize	1.125	Daily	
		Atta wheat	1.125		
		Ground nut	0.250		
		Gur	0.100		
		Green vegetables	0.800		
11	Wild Boar	Black Gram	0.300	Daily	
		Concentrate mix	0.500		
		Potatoes	0.5		
		Green vegetables	0.5		
		Green fodder	0.5		
12	Sambar Deer	Concentrate mix	2.5	Morning	
		Green fodder	10	Evening	
14	Barking Deer	Concentrate mix	0.500	Morning	
		Green fodder	3.000	Evening	
15	Himalayan Goral	Concentrate mix	0.600	Morning	
		Green fodder	5.000	Evening	
18	Emu	Mixed grains	0.500	Daily	
		Banana	3 nos.		
		Green vegetables	0.200		
		Fruits	0.100		
		Boiled Egg	2 nos.		
19	Turtle	Boiled Egg	2 nos.	Daily	
		Green vegetables	0.05		
20	Pheasants/Birds	Banana	0.25 nos.		
		Green vegetables	0.200		
		Fruits	0.05		
		Fruits	0.050		



VACCINATION SCHEDULE OF ANIMALS

S. No.	Species	Disease vaccinated for	Name of the Vaccine and dosage/ quantity used	Periodicity	Remarks
1	Leopard	Feline Rhinotracheitis –Calici-panleukopenia	Fel-o-Vax or Biofel-PCHR 1 ml S/C	Annually	
2	Leopard Cat	Feline Rhinotracheitis –Calici-panleukopenia	Fel-o-Vax or Biofel-PCHR 1 ml S/C	Annually	
3	Asiatic Lion	Feline Rhinotracheitis –Calici-panleukopenia	Fel-o-Vax or Biofel-PCHR 1 ml S/C	Annually	
		Canine Distemper	Purevax- 1 ml S/C	Annually	

DE-WORMING SCHEDULE OF ANIMALS

S. NO.	SPECIES	DRUG USED	MONTH	REMARKS
1.	Carnivores (Asiatic Lion, Leopard and Leopard Cat)	Fenbendazole, Albendazole, Praziquintal, Oxyclozanide, Ivermectin, Parantalpamoate, Piperazine levamisole	February, May, August, November	➤ Fecal sample examination done every quarter before scheduled deworming. ➤ Deworming medicines changed every time to avoid drug resistance and other side effects.
2.	Herbivores (Indian Gazelle, Barking Deer, Goral, Sambar)	Fenbendazole, Albendazole Piperazine, Levamisole	March, July, November	
3.	Black Bears and Wild Boar	Fenbendazole, Albendazole	March, July, November	➤ Dosage of dewormer used as indicated in literature.
4.	Birds (All Species)	Fenbendazole, Albendazole Piperazine	February, June, October	
5.	Reptiles	Fenbendazole, Albendazole, Ivermectin, Levamisole	As and when required	



DISINFECTION SCHEDULE

S. NO.	SPECIES	TYPE OF ENCLOSURE	DISINFECTANT USED AND METHOD	FREQUENCY OF DISINFECTION
1	Asiatic Lion and Leopard	Feeding cubicles With day kraal and exhibit area.	a. Benzalkonium chloride solution or Kohrsolin-Th b. Chlorine bleach sprayOr Lime Spray	a. Daily in Feeding cubicles b. Monthly in day kraal and exhibit area.
2	Black Bear	Feeding cubicle and exhibit area.	a. Benzalkonium chloride solution or Kohrsolin-Th b. Lime Spray	a. Daily in Feeding cubicles b. Monthly in day kraal and exhibit area.

3	Pheasantry	Interlink Chain and chicken mesh covered Enclosure	a. Kohrsolin-Th b. Lime Spray	a. Daily cleaning b. Spraying of disinfectant done once a week.
4	Herbivores	Enclosure type	Lime spray	Racking, cleaning and spraying of disinfectant taken up once in two months.
5	Reptiles		Lime Spray and lime paint	Once in a week

HEALTH CHECK-UP OF EMPLOYEES FOR ZONOTIC DISEASES

Entire Zoo staff was diagnosed for diseases and found free of any disease as per reports.



WORKING THE YEAR AROUND

I. DEVELOPMENT WORKS CARRIED OUT IN THE ZOO DURING THE YEAR:



Image 1



Image 2

Partition of Asiatic Lion enclosure



Image 3

Construction of new squeeze cage in Leopard night holding area



Image 4

Construction of new feed manger in Goral enclosure



Image 5



Image 6

Tile work in Leopard feeding cubicles



Image 7
Repair of drain in Leopard indoor holding area



Image 8
Tile work in keeper gallery of Leopard indoor holding area



Image 9



Image 10



Image 11
Painting and repair work of toilet facilities



Image 12



Image13

Roofing and drain work in and around hideouts in Barking Deer Himalayan Goral enclosure.

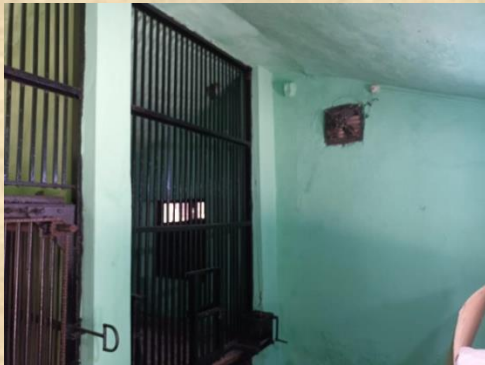


Image 14



Image 15

Painting work in Lion indoor holding area.



Image 16

Construction of new main entrance gate



Image 17

Tile work in Asiatic Black Bear indoor holding area



Image 18

New E-ticketing setup installed

II. EDUCATION AND AWARENESS PROGRAMMES DURING THE YEAR:

a. World Wildlife Day celebration:

On World Wildlife Day 2021, we aimed to raise awareness towards diversified benefits of flora and fauna among public mainly who live close to the forest area as well as motivating them to continue to use the resources in a sustainable manner. To attain the motive, we targeted the visitors to voluntarily participate in the program and put forward their views in the form of drawings/sketch/quotes/small paragraphs. Also, small sessions were done to actually make them realize the importance of this day and how they can contribute.



Image 19



Image 20



Image 21

b. World Wildlife Week celebration:



Image 22

Zoo visit of school children.



Image 23



Image 24

Painting, Essay writing, Poem writing, Slogan writing competition as per the theme.



Image 24



Image 25

Zoo tour



Image 26



Image 27

Selection of winners in theme based competitions



Image 28

Final words with the students.

c. Celebration of Azadi Ka Amrit Mohotsav

Azadi Ka Amrit Mohotsav was celebrated to commemorate the 75 years of Independence. It was celebrated in collaboration with Central Zoo Authority from 28.03.2022 to 03.04.2022.

CZA hosted a talk with DCF Wildlife Hamirpur cum Zoo Director titled know your species, know your zoo.



Image 29



Image 30



Image 31



Image 32



Image 33



Image 34



Image 35



Image 36



Image 37

Visitors were requested to volunteer to put forward their views and thoughts about Himalayan Tahr and its conservation. Visitors were also given educated about Conservation to co-existence: through people's connect.



Image 38



Image 39



Image 40

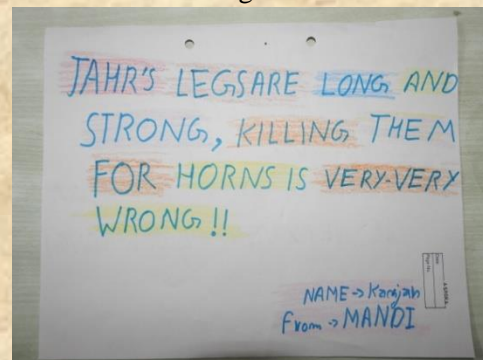


Image 41



Image 42

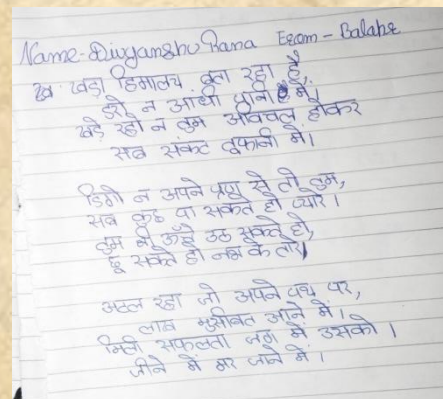


Image 43

Visitors of all ages participated and expressed their idea of conservation of Himalayan Tahr.

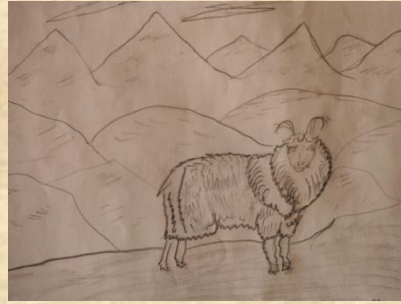


Image 44



Image 47



Image 46



Image 48

School children were invited and educated about species in focus Himalayan Tahr. Essay writing, Poem writing, slogan writing and drawing activities were conducted.

d. Celebration of first birthday of Asiatic Lion cubs



Image 49



Image 50



Image 51



Image 52



Image 53

First birthday of Dheera and Veera was celebrated on 22.11.2021. For birthday boys, a dummy was made with jute bags filled with paddy straw. A cake was also made by finely chopping the goat meat and chicken meat. The surprise was loved by both of them and visitors enjoyed the act.

e. Educating school children and trainees:

Educating school children about wild animals, their importance and need of environment conservation is crucial and it is conveyed



Image 54



Image 55



Image 56



Image 57



Image 58



Image 59



Image 60

Throughout the year, trainee batch of Range Forest Officer and Forest Guard visit this Zoo as part of their learning session.

f. Rescue and tranquilization techniques and equipments:

Hosted by Dhauladhar Nature Park (Zoo) the workshop of Rescue and tranquilization techniques and equipments was about learning, understanding and hands on training the concept of darts, dart gun and most importantly the on field implementation.



Image 61
Forest Guards from different Ranges were addressed by the experts.



Image 62



Image 63: Group photograph



Image 64



Image 65

Calibration of Dart gun

III. SPECIAL ARRANGEMENTS FOR UPKEEP OF ANIMALS:

1. Asiatic Lion



Image 66

Sub-adults born on 22.11.2020 were exposed to unfamiliar dummy structure to test their response and most importantly ignite the hunting behavior.



Image 67



Image 68

Wooden ball was hanged from a branch but with a twist. Nodes of bamboos were pierced from inside so that rope can be passed through it. The overall length of rope used for hanging the wooden ball was covered like that. This was done to protect the rope while the Lions are playing with the wooden ball. This is quite an effective way to ensure the longevity of the rope.



Image 69



Image 70

Tree logs were installed in slant position with maximum height of around three meters. Sub-adults enjoyed climbing, sitting, scratching paws and rubbing the body.



Image 71

Hanged tyre is one of the favorites of Lions especially sub-adults when it comes to leisure time pass.



Image 72



Image 73

Raised wooden platforms were installed along with the previously installed planks but with a bit more height.

2. Common Leopard



Image 74

Offering frozen meat led to engagement of animal for quite a long period. This activity is followed in this zoo only during summers.



Image 75

A bamboo swing of low height was installed in the enclosure of Rita the Leopardess.



Image 76



Image 77

A wood log wrapped with coconut rope was installed in the enclosure of Rita the Leopardess.

Raised resting/perching wooden platforms are best suited for Leopards to perch on and for scratching the paws.



Image 78



Image 79



Image 80



Image 81



Image 82



Image 83



Image 84



Image 85



Image 86



Image 87



Image 88



Image 89

Bamboo platforms installed under the tree canopy are always preferred by the Leopards.

3. Asiatic black bear

Providing bamboo shoots along with root portion is an activity of interest for Asiatic Black Bear. As it is impossible for the housed population to have access to such kind of objects, hence it is the responsibility of staff to make these objects available.



Image 90



Image 91

Asiatic Black Bears are fond of climbing trees. Hence, it is important to provide climbing facilities along with perching site on the top.

4. Barking Deer

A naturalistic U-shaped open roof hideout made up of bamboo, elephant grass and palm leaves with earthen ground.



Image 92



Image 93



Image 94



Image 95



Image 96



Image 97



Image 98



Image 99



Image 100

A naturalistic hideout made up of bamboo and grass with earthen floor. Water proofing of roof has been done to take care of the rain.



Image 101
Bedding of paddy straw and dry grass in the hideouts during winters.



Image 102

5. Himalayan Goral



Image 103



Image 104

Raised wooden platform were installed to facilitate the climbing and resting at site above ground level. Variation in height has been provided with three platforms at 1m, 2m and 3m from ground.



Image 105

Piles of Pine tree needles attract these animals. They were observed resting on these piles and playing with.



Image 106



Image 107

Naturalistic bamboo hiding hut was installed in the enclosure especially for kids.



Image 108



Image 109



Image 110

Feeding the animals keeping in view of their natural feeding habits is crucial and should be encouraged.

6. Pheasant Aviary



Image 111



Image 112



Soil/clay egg laying/retreating hideouts were created out of bamboo soil/clay and grass.

Image 113

7. Small birds



Image 114



Image 115

Hanging whole fruits/vegetables are an interesting feed activity for birds.



Image 116



Image 117



Image 118

The barren earthen floor of enclosure was enriched with grass. Birds love to feed on the new emerging leaves.

8. Wild Boar



Image 119

Wallows are extremely important for these animals to relax and stay cool in peak summers.

9. Black Kite



Image 120

Injured Black Kites are housed in off-visitor area. Floor of indoor facility is provided with bedding of saw husk. Perches were provided at low height.



Image 121



Image 122

10. Himalayan Griffon Vulture



Image 123



Image 124

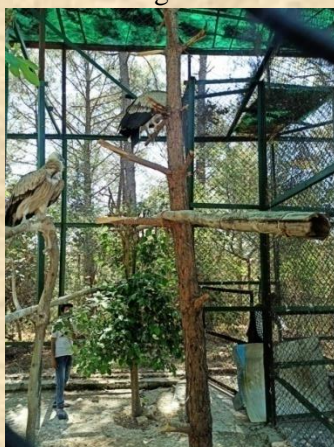


Image 125



Image 126

New perching facility for Vultures.

11. Turtle



Image 127

Tree logs were placed on the earthen surface in the enclosure. Indian Flap-shell Turtles were observed to occupy the space beneath the logs in a burrow.

IV. RESCUE AND REHABILITATION:

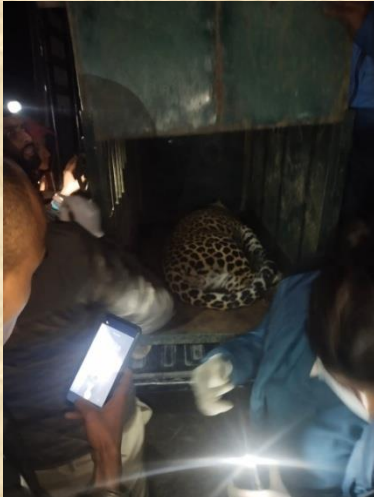


Image 128



Image 129



Image 130



Image 131



Image 132



Image 133

Over the year, several wild animals were rescued due to natural/human induced circumstances. They were given necessary treatment and efforts were put in so that they get rehabilitated.



Image 134

Rescue team of Dhauladhar Nature Park (Zoo) along with the territorial staff after rehabilitation of rescued Common Leopard.

ANIMAL ACQUISITION / TRANSFER / EXCHANGE DURING THE YEAR

Table 1: Animal exchange program between Dhauladhar Nature Park and Bhiwani Zoo:

Animal arriving in the Zoo					
B.	Animal going from the Zoo				
	H. No.	Species	Numbers (M:F)	Going to which Zoo	Date of deposition from the Zoo
	Nil	Common Leopard (<i>Panthera pardus</i>)	0:3	Greens Zoological Rescue and Rehabilitation Centre	27.09.2021



RESCUE AND REHABILITATION OF WILD ANIMALS CARRIED OUT BY THE ZOO

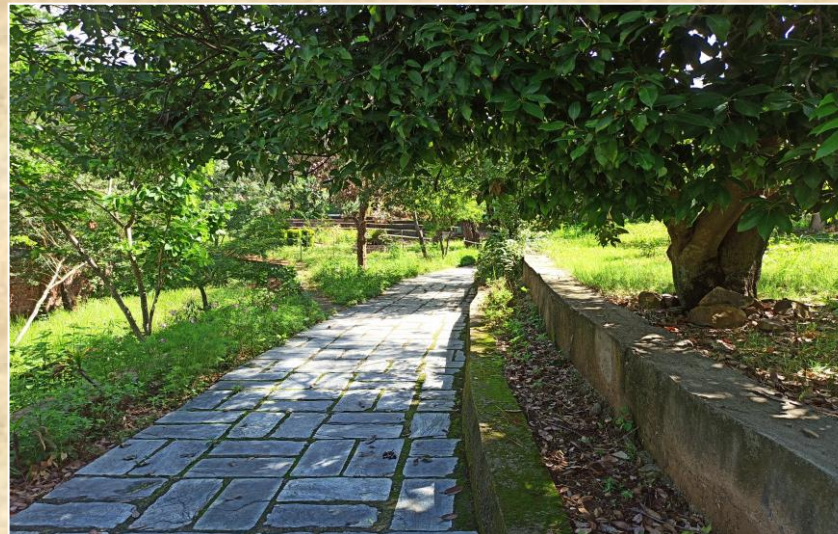
Sr. No.	Date of Rescue	Species with number of animals rescued	Sex (M:F:U)	Received from	Date of Submission of Report to the CWLW / CZA	Action taken	
						Date and Place of rehabilitation in their habitat	Reasons for housing in the Zoo, if not released in their habitat
1	06.04.2021	Barking Deer fawn	F	DFO Dalhousie			
2	12.04.2021	Sambar Deer	F	RFO Shahpur			
3	16.04.2021	Vulture	U	RFO Jaisinhpur			
4	16.04.2021	Blue bull	M	RFO Nadaun			
5	04.05.2021	Sambar Deer	U	RFO Joginder Nagar			
6	01.06.2021	Indian Flap-shell turtle	F	Local people from Gaggal		Rehabilitated at the site of rehabilitation	
7	14.06.2021	Barking Deer fawn	M	RFO Kangra			
8	23.06.2021	Indian Peafowl	F	RFO			
9	08.07.2021	Black Kite	U	RFO Dharamshala			
10	15.06.2021	Black Kite	U	Palampur			
11	01.07.2021	Black Kite	U	Thural			
12	19.07.2021	Barking Deer	M	RFO Joginder Nagar			
13	28.07.2021	Barking Deer	M	RFO Bir			
14	04.08.2021	Wedge-tailed Green Pigeon	M	Locals from Dadi, Dharamshala			
15	17.08.2021	Blue bull infant	F	RFO Nagrota Surian			
16	20.08.2021	Indian Peafowl sub-adult four number	U	RFO Nurpur			
17	17.09.2021	Asian Barred Owlet sub-adult	U	Local from lambapatt, Gopalpur			
18	07.10.2021	Sambar Deer		RFO Nadaun			
19	08.12.2021	Common Leopard	F	RFO Jawali		Rehabilitated near the rescued site	
20	16.11.2021	Indian Gray Hornbill sub-adult	U	Received from locals from Una			
21	27.11.2021	Indian Peafowl	M	RFO Dehra			
	08.12.2021	Common Leopard	F	RFO Nurpur		Rehabilitated near	

						the rescued site on date 12.12.2021	
22	15.12.2021	Common Leopard	M	RFO Daroh			Died in the zoo on 03.01.2022 due to severe injuries.
23	25.12.2021	Indian Gray Hornbill	M	Sheela beat			
24	01.01.2022	Sambar Deer sub-adult	M	Rescued from Mundi beat			
25	08.02.2022	Common Leopard	F	Rescued from Mundi		Rehabilitated near the rescued site on date 08.02.2022	
26	18.03.2022	Palm Civet	U	Received from Dharamshala			



ANNUAL INVENTORY OF ANIMALS

FORM II [see rule 11(1)] Part-A																						
ANNUAL INVENTORY RETURN/REPORT FOR THE YEAR 2020-21 IN RESPECT OF DHAULADHAR NATURE PARK GOPALPUR, HIMACHAL PRADESH																						
Endangered species																						
S. No.	Animal name	Scientific name	Opening Stock				Births			Acquisitions			Disposals			Deaths			Closing Stock			
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
Birds																						
1	Gray Parrot	<i>Psittacus erithacus</i>	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
Total			0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
Mammals																						
1	Asiatic Lion	<i>Panthera leo persica</i>	3	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	4
Total			3	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	4
Total			3	1	1	5	0	0	0	0	0	0	0	0	0	0	0	0	3	1	1	5



FORM II [see rule 11(1)] Part-A																								
ANNUAL INVENTORY RETURN/REPORT FOR THE YEAR 2020-21 IN RESPECT OF DHAULADHAR NATURE PARK GOPALPUR, HIMACHAL PRADESH																								
Other than Endangered species																								
S. No.	Animal name	Scientific name	Opening Stock				Births			Acquisition			Disposals			Deaths			Closing Stock					
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T		
Birds																								
1	Red Jungle fowl	<i>Gallus gallus</i>	4	8	0	1	2	0	0	0	0	0	0	0	0	0	0	1	0	4	7	2	1	3
2	Indian Peafowl	<i>Pavo cristatus</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
3	Kalij Pheasant	<i>Lophura leucomelanos</i>	2	5	0	7	1	1	0	0	0	0	0	0	0	0	0	2	0	3	4	0	7	7
4	Gray Peacock Pheasant	<i>Polyplectron bicalcaratum bakeri</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	2
5	Cheer Pheasant	<i>Catreus wallichii</i>	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	3
9	Himalayan Griffon	<i>Gyps himalayensis</i>	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2
10	Black Kite	<i>Milvus migrans</i>	0	0	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6	6
11	Steppe Eagle	<i>Aquila nipalensis</i>	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
13	Emu	<i>Dromaius novaehollandiae</i>	3	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	5	5
14	Budgerigar	<i>Melopsittacus undulatus</i>	0	0	1	1	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	20	2	0
15	Cockatiel	<i>Nymphicus hollandicus</i>	0	0	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6	6
16	Rosy-faced lovebird	<i>Agapornis roseicollis</i>	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

Details of mortality of animals

Sr. No.	Animal Name (with individual identification mark if any)	Sex	Date of death	Reason of death as per the post-mortem report
1.	Common Leopard	F	27.05.2021	
2.	Common Leopard	F	25.12.2021	
3.	Asiatic Black Bear	M	29.05.2021	
4.	Barking Deer	M	17.04.2021	
5.	Barking Deer	M	23.09.2021	
6.	Barking Deer	M	20.12.2021	
7.	Barking Deer	M	24.12.2021	
8.	Barking Deer	M	28.12.2021	
9.	Sambar Deer	F	13.02.2022	
10.	Himalayan Goral	F	07.04.2021	
11.	Red Jungle Fowl	F	29.01.2022	
12.	Kalij Pheasant	F	02.10.2021	
13.	Kalij Pheasant	F	25.10.2021	
14.	Rosy-faced Love bird	U	12.03.2022	

COMPLIANCE REPORT ON SUGGESTIONS/RECCOMENDATIONS OF CZA

Sl.	Norm No.	Condition	Time period to comply	Status with regard to compliance of condition
1. General requirements				
1	10.1(2)	Tall plants of local forestry species should be planted inside the enclosures with specific objective of enrichment based on habitat and animal behavior.	One year	Plantation of local floral species has been started.
2	10.1(5)	The perimeter wall of 2m height along the nallah boundary should be constructed with spiral bladed fencing on the top for proper protection of the Zoo.	One year	Noted for compliance at the time of construction of wall.
3. Development and Planning				
3	10.3(3)	The enclosures of all the animals need to be developed or revamped as per the approved Master (Layout) Plan. Prior approval of designs should be obtained from the CZA.	Two years	Current Master Layout Plan is under the approval process. Designing of enclosures will be resumed after the approval.
4. Animal housing, display of animals and animal enclosure				
4	10.4(2)	Natural landscape should be developed in enclosure housing Turtle, Pheasantry, Leopard etc. using vegetative and natural materials like Logs, Stones etc	Six months	Efforts are being done to follow up the suggestion.
5	10.4(2)	The Black Bear enclosures should be shifted immediately to newly proposed location so that proper environment is provided to the Black Bears.	One year	The design of enclosure has been approved and construction work will be started as soon as funds are received.
6	10.4(3)	The Zoo should have fire-fighting equipment in case of fire accident in the zoo. The zoo should also conduct mock drills for disaster management.	Three months	Noted for compliance.

7	10.4(2)	The zoo should develop/ modify the enclosures as per the Master (Layout) Plan and get it approved by CZA in time bound manner so that the animals are house in more nature friendly enclosures and in natural landscape.	One year	Master Layout Plan is under approval and designing of enclosure will be resumed after the approval.
8	10.4(2)	The Black kite enclosure needs major improvements. The area is congested and lacks bathing facility and sun basking area. The Himalayan Griffon, Black Kite & Steppe Eagle should be housed in different enclosures with proper partition to avoid any disturbance or incitement to each other.	One year	Noted for compliance.
9	10.4(2)	The Black kite should be immediately shifted to another enclosure and the partition present in the present enclosure should be removed so that adequate space is available for Himalayan Griffon.	Three months	Complied with.
10	10.4(6)	The Zoo shall enrich the enclosures as per the habitat and behavior of the animal species housed.	One year	Noted for compliance.
11	10.4(10)	Well-equipped Indoor Interpretation facility should be created to create awareness among the public about the wildlife and Zoo animals.	Six months	Noted for compliance.
5. Upkeep and healthcare of animals				
12	10.5(6)	The Zoo Director should ensure that the Veterinary Officer periodically visits the CHC.	Immediately	
13	10.5(6)	The zoo should deploy Animal keeper in each enclosure so that proper cleaning and hygienic care of the animals can be taken.	One year	Noted for compliance.
14	10.5(6)	The Zoo should have round the clock surveillance system for effective monitoring and security of the animals in all the enclosures.	Six months	Partially implemented and rest will be done as per the availability of funds.
15	10.5(8)	The disinfection schedule prepared should be displayed outside each enclosure for proper monitoring of healthcare of the animals.	Immediately	Complied with.
16	10.5(9)	All the staff handling animals should be screened against zoonotic diseases at least once in a year and records should be maintained.	Every year	Noted for compliance.
6. Veterinary and infrastructure facilities				

17	10.6(1)	A Zoo Hospital should be constructed at the earliest so that proper medical facilities for the Zoo animals can be provided One full time pharmacist should be deployed to assist the Veterinarian during medical care of the animals	One year	Site selection and demand for funds is under process. Implementation of the suggestion will be done on priority basis. Services of Pharmacist are being taken in the Zoo.
18	10.6(2)	One full time Pharmacist should be deployed to assist Veterinarian during medical care of the animals.	One year	Noted for compliance.
19	10.6(3)	Isolation and quarantine facility should be made available immediately for treatment and care of rescued animals.	One year	Noted for compliance
20	10.6(6)	The Zoo should sign a MoU with Animal Sciences University to promote research activities in the Zoo.	One year	Noted for compliance.
9. Acquisition and breeding of animals				
21	10.9(2)	The Zoo Director should take the matter of exchange of surplus animals with CZA and other Zoo Directors in the country so that the surplus animals are disposed of.	Three months	Noted for compliance.
22	10.9(9)	To safeguard against ill effects of inbreeding and population increase in Sambar in the zoo, the population of Male & Female should be separated and enclosed in different enclosures	Three months	Complied with
10. Research activities				
23	10.10	The Zoo biologist should prepare research papas/reports on the behavior studies of the Zoo animals based on the daily observations recorded by the zoo staff	One year	Noted for compliance.
12. Visitors facilities				
24	10.12(1)	The Zoo should have proper Ticket counter cum Information centre for proper facilitation of the visitors.	One year	Noted for compliance.

25	10.12(1)	The parking facility should be developed by expanding the present parking area so that proper regulation of tourist vehicle can be done.	One year	At present, Asiatic Black Bears are housed at the proposed parking site. After the shifting of Asiatic Black Bears, the construction of parking and ticket window facility will be done at priority.
26	10.12(1)	The Zoo should also have a cloak room adjacent to the Ticket C counter so that the visitors carry minimum baggage inside zoo and efforts must be made to avoid any eatables and plastic items inside the Zoo,	One year	Complied with.
27	10.12(2)	The Zoo Director should ensure that the Snake anti-venom is available in the Centre at all the time.	Immediately	Noted for compliance
Rule 11. Maintenance of record and submission of inventory				
28	11(1)	The exotic birds housed in the zoo should be included in the inventory and reported to CZA in Annual Inventory report.	Immediately	Complied with.

LIST OF FREE LIVING WILD ANIMALS WITHIN THE ZOO PREMISES

- a. **Mammals:** Wild Boar, Leopards, Indian Grey Mongoose, Rhesus macaque.
- b. **Birds:** as per the survey, 88 species of birds have been reported in the Zoo premises. List attached as annexure 1.
- c. **Reptiles:** - Rat Snake, Russell's viper, Common Trinket, Checked Keel-back, etc.
- d. **Butterflies** -as per the survey, 53 species of butterflies have been reported in the Zoo premises. List attached as annexure 2.



ANNEXURE 1: List of free living birds within the zoo premises

S.No.	Name of birds	Scientific Names
1	Alexandrine Parakeet	<i>Psittacula eupatria</i>
2	Plum-headed Parakeet	<i>Psittaculacyanocephala</i>
3	Slaty-headed Parakeet	<i>Psittaculahimalayana</i>
4	Rose-ringed Parakeet	<i>Psittaculakrameri</i>
5	Ashy Drongo	<i>Dicrurusleucophaeus</i>
6	Black Drongo	<i>Dicrurusmacrocerus</i>
7	Spangled Drongo	<i>Dicrurushottentottus</i>
8	Ashy Prinia	<i>Priniasocialis</i>
9	Jungle Prinia	<i>Priniasylvatica</i>
10	Plain Prinia	<i>Priniaainornata</i>
11	Striated Prinia	<i>Priniacriniger</i>
12	Asian Brown Flycatcher	<i>Muscicapadaurica</i>
13	Asian Paradise flycatcher	<i>Terpsiphoneparadisi</i>
14	Grey-headed Canary Flycatcher	<i>Culicicapaceylonensis</i>
15	Verditer Flycatcher	<i>Eumyiasthalassina</i>
16	Ultramarine Flycatcher	<i>Ficedulasuperciliaris</i>
17	Asian Koel	<i>Eudynamysscolopacea</i>
18	Common Hawk Cuckoo	<i>Hierococcyxvarius</i>
19	Lesser Cuckoo	<i>Cuculuspoliocephalus</i>
20	Bank Myna	<i>Acridotheresginginianus</i>
21	Common Myna	<i>Acridotherestrictis</i>
22	Jungle Myna	<i>Acridotheresfuscus</i>
23	Barn Swallow	<i>Hirundorustica</i>
24	Red-rumped Swallow	<i>Hirundodaurica</i>
25	Wire-tailed Swallow	<i>Hirundosmithii</i>
26	Bar-tailed Treecreeper	<i>Certhiahimalayana</i>
27	Chestnut-bellied nuthatch	<i>Sittacastanea</i>
28	Black Bulbul	<i>Hypsipetesleucocephalus</i>
29	Himalayan Bulbul	<i>Pycnonotusleucogenys</i>
30	Red-vented Bulbul	<i>Pycnonotuscafer</i>
31	Black-chinned Babbler	<i>Stachyrispyrrhops</i>
32	Common Babbler	<i>Turdoidescaudatus</i>
33	Jungle Babbler	<i>Turdoidesstriatus</i>
34	Black Francolin	<i>Francolinusfrancolinus</i>
35	Grey Francolin	<i>Francolinuspondicerianus</i>
36	Black kite	<i>Milvusmigrans</i>
37	Blue-throated Barbet	<i>Megalaimaasiatica</i>
38	Brown-headed Barbet	<i>Megalaimazeylanica</i>
39	Coppersmith Barbet	<i>Megalaimahaemacephala</i>
40	Great barbet	<i>Megalaimavirens</i>
41	Blyth's Reed Warbler	<i>Acrocephalusdumetorum</i>
42	Grey-hooded Warbler	<i>Seicercusxanthoschistos</i>

43	Hume's Warbler	<i>Phylloscopushumei</i>
44	Brown-fronted Woodpecker	<i>Dendrocoposauriceps</i>
45	Fulvous-breasted Woodpecker	<i>Dendrocoposmacei</i>
46	Grey-headed Woodpecker	<i>Picus canus</i>
47	Black-rumped Flameback	<i>Dinopium benghalense</i>
48	Cattle Egret	<i>Bubulcus ibis</i>
49	Little Egret	<i>Egretta garzetta</i>
50	Indian Pond Heron	<i>Ardeola grayii</i>
51	Chestnut shouldered Petronia	<i>Petronia anthocollis</i>
52	House Sparrow	<i>Passer domesticus</i>
53	Russet Sparrow	<i>Passer rutilans</i>
54	Chestnut-crowned laughing Thrush	<i>Garrulaxerythrocephalus</i>
55	Orange-headed Thrush	<i>Zosterocitta trita</i>
56	Variegated laughing Thrush	<i>Garrulax variegatus</i>
57	Blue Whistling Thrush	<i>Myophonus caeruleus</i>
58	Large-billed Crow	<i>Corvus macrorhynchos</i>
59	Common Rosefinch	<i>Carpodacus erythrinus</i>
60	Egyptian Vulture	<i>Neophron percnopterus</i>
61	Eurasian Golden Oriole	<i>Oriolus oriolus</i>
62	Great Tit	<i>Parus major</i>
63	Grey Bushchat	<i>Saxicola ferrea</i>
64	Pied Bushchat	<i>Saxicola caprata</i>
65	Indan Robin	<i>Saxicoloides fulvicata</i>
66	Oriental Magpie Robin	<i>Copsychus saularis</i>
67	Laughing Dove	<i>Streptopelia senegalensis</i>
68	Red Collared Dove	<i>Streptopelia tranquebarica</i>
69	Spotted Dove	<i>Streptopelia chinensis</i>
70	Long-tailed Minivet	<i>Pericrocotus ethologus</i>
71	White-throated Fantail	<i>Rhipidura albicollis</i>
72	White-browed Fantail	<i>Rhipidura aureola</i>
73	Oriental White-eye	<i>Zosterops palpebrosus</i>
74	Pied Kingfisher	<i>Ceryle rudis</i>
75	Purple Sunbird	<i>Nectarinia asiatica</i>
76	Red-backed Shrike	<i>Lanius collurio</i>
77	Red-billed Blue Magpie	<i>Urocissa erythrorhyncha</i>
78	Yellow-billed Blue Magpie	<i>Urocissa flavirostris</i>
79	Red junglefowl	<i>Gallus gallus</i>
80	Red-wattled Lapwing	<i>Vanellus indicus</i>
81	Rock Pigeon	<i>Columba livia</i>
82	Scaly-breasted Munia	<i>Lonchura punctulata</i>
83	Spotted Forktail	<i>Enicurus maculatus</i>
84	White-capped Water Redstart	<i>Chaimarrornis leucocephalus</i>
85	Common Tailorbird	<i>Orthotomus sutorius</i>
86	White-breasted Waterhen	<i>Amaurornis phoenicurus</i>
87	Rufous Sibia	<i>Heterophasia capistrata</i>
88	Shikra	<i>Accipiter badius</i>

ANNEXURE 2: List of free living butterflies within the zoo premises

S.No.	Name of species
1	Common Mormon
2	Common Crow
3	Dark Clouded Yellow
4	Dark Grass Blue
5	Common Leopard
6	Chocolate Pansy
7	Common Lime
8	Common Sailer
9	Blue Pansy
10	Common Emigrant
11	Indian Cabbage White
12	Fulvous Pied Flat
13	Common Hedge Blue
14	Common Grass Yellow
15	Mottled Emigrant
16	Swift ?
17	Lemon Pansy
18	Large Threering
19	Common Costor
20	Indian Tortoiseshell
21	Painted Lady
22	Peacock Pansy
23	Spangle
24	Indian Red Admiral
25	Striped Tiger
26	Club Beak
27	Bath White
28	Tabby
29	Indian Fritillary
30	Guava Blue
31	Common Sergeant
32	Large Hedge Blue
33	Glassy Tiger
34	One Spot Grass Yellow
35	Ringed Argus
36	Common Wall
37	Common Bushbrown
38	Common Redeye
39	Common Jester
40	Common Small Flat

41	Vagrant
42	Zebra Blue
43	Pale Palm Dart
44	Dark Evening Brown
45	Yellow Pansy
46	Plain Tiger
47	Spotted Small Flat
48	Great Satyr
49	Sorrel Sapphire
50	Striped Blue Crow
51	Grass Demon
52	Common Brimstone
53	Pea Blue



