

Annual Report, 2019-20



Where Animal, Nature & Fun Meet

Malsi, Dehradun, Uttarakhand

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1. Report of the Officer-in-charge

The year 2019-20 was a remarkable year for Dehradun zoo. This year the zoo has achieved many mile stones. In these 12 months more than six lakhs fifteen thousand visitors visited the zoo. At the same time the revenue of the zoo has increased to more than 2 crores. This year the main focus was to improve the basic infrastructures and visitor facilities.

Despite of all limitations the zoo has maintained about 413 animals and birds of different species in healthy condition. Zoo has registered 42 births and 5 deaths of different species of animals this year. The zoo also instrumental for treatment of 27 rescued animals. Many animal enclosures were renovated and enriched as per the requirement of the animal.



For capacity building, five staffs were sent to different zoos. To improve visitor's facilities old toilets were renovated and parking facility improved.

Education and awareness is one of the important objective and mandate of the zoo, for which many programs and events were organized in the zoo. An awareness program with the help of Waste Warriors was carried on sanitation.

Important events such as Biodiversity Day, World environment day, Harela, Wildlife week, world wildlife day were organized in the zoo. Dehradun Zoo also organized a special event to help the families of "**Pulwama Martyrs**", by conducting different program like "Science with Fun", Open Music, Clay Modeling Bamboo craft making, LED Bulb Making etc.

Many students, researchers and trainees from different institutes such as WII, FRI, BIFT etc. were visited to learn the captive management of animals.

The events such as great backyard bird count, national moth day was organized in the zoo. During this period many dignitaries from the state and outside the state visited the zoo. Two meetings of governing body of the Dehradun zoo management society was conducted and many decisions were taken for the improvement of the zoo. Despite of all limitation, the management of the zoo has been improving day by day and the zoo management is committed to enhance the facility for animals as well as the visitors so that the objective of the zoo shall be achieved.



2. History of the Zoo

The Dehradun Zoo, earlier known as Malsi Deer Park was established as Van Chetna Kendra, in year 1976. Initially it was established with 3 Spotted Deer, 1 Goral, 2 Barking Deer, 3 Peafowl and 5 Budgerigar. The Deer Park was upgraded to Mini zoo under Section 28(H) of Wildlife Protection Act, 1972 by order on 19-123/93-CZA (267) (M) 450 dated 09.03.2012. The first master layout plan was approved by CZA in 2013 and the revised master layout plan was approved in year 2016. Initially it was managed by the Malsi range of Dehradun forest division, consequently for better management, a separate unit was created in year 2014. For independent and effective management of the zoo, Dehradun zoo management society was formed by Uttarakhand government in year 2016 and the society was registered under society act. The management society received the income tax exemption under section 12 and 80 G of income tax act in year 2017. The zoo was evaluated in 2017 and status was extended up to 2019. In December 2017 separate director was posted in the zoo for independent management of zoo.

Over the years the basic infrastructures were improved, many old enclosures were renovated and new one was constructed for housing the animals. Many facilities were created and existing one were improved for visitors. Animals and birds were housed as per the approved layout plan. Many new facilities such as aquarium and 3D theatres were created for visitors. New Cactus Garden was established. A separate veterinary Doctor was posted in the Zoo. Basic healthcare facility was created for better animal healthcare. Due to all these improvements the number of visitors increased to 6.15 lakh. At present only 5 ha. out of total 25ha. area of the zoo is open for the visitors and about 350 individuals of different birds and animals' species have been managed by the zoo.

3. Vision

The vision of Dehradun zoos is as follows: -

- The Dehradun zoo shall act as a Scientific institution engaged in conservation of wildlife and welfare of wild animals.
- This zoo shall be developed as a Centre of knowledge/ excellence on wildlife management and ex-situ conservation of animals.
- It shall be act as a Centre for education, awareness and recreation on the theme of nature, forest, wild life and sustainable lifestyle.
- This zoo shall facilitate the visitors to understand the biology and behavior of the species displayed and their importance in natural balance and appreciate composite and complex nature of different ecosystems.

4. Mission

The mission of establishment and development of Dehradun zoo are: -

- Compliment the national efforts in conservation of wildlife through conservation breeding of endangered wild animal species of the region in a planned and coordinated manner on scientific basis.
- Develop empathy amongst visitors for wild animals and motivate them to support the cause of conservation of wildlife.
- Develop an understanding amongst the visitors about the ecological linkages with the life supporting processes of nature and the need for sustainable life styles and living in harmony with nature.
- To act as Rescue Centre by receiving and keeping orphaned, seized, rescued, injured wild animals.
- To act as research, training and knowledge centre for wild life conservation, in-situ population and habitat management

5. Objectives

Dehradun Zoo is being conceptualized to achieve following objectives –

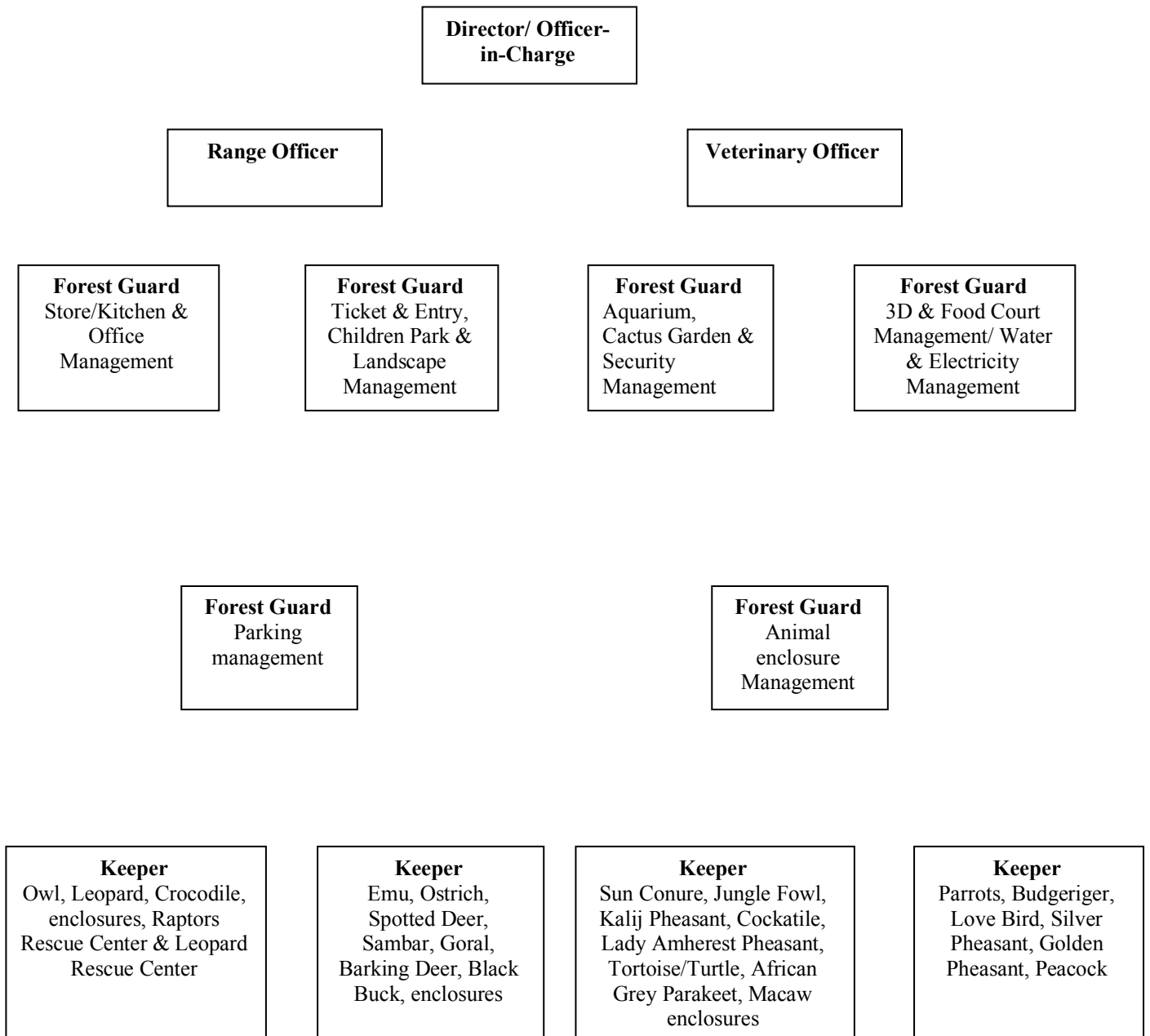
- To establish and sustain a population of physically, genetically and behaviorally healthy animals and displaying them in naturalistic ambience.
- To supplement the conservation strategies for the rare and endangered species of the Shiwalik landscape by *ex-situ* conservation efforts.
- To emerge as a centre for educating, motivating and spreading the message of wildlife and biodiversity conservation to the public.
- To act as a rescue and transit centre for the problem and injured animals rescued from the nearby areas.

6. About us

S.No.	Particulars	Information
Basic Information about the Zoo		
1	Name of the Zoo	DEHRADUN ZOO
2	Year of Establishment	1976 (Malsi Deer Park), 2012 (Dehradun Mini Zoo)
3	Address of the Zoo	Mussoorie diversion, Sinola, Malsi
4	State	Uttarakhand
5	Telephone Number	
6	Fax Number	
7	E-mail address	zoodehradun@gmail.com
8	Website	www.dehradunzoo.org
9	Distance from nearest	Airport: Jolygrant- 45 km Railway Station: Dehradun -15 km Bus Stand: ISBT- 20 Km
10	Recognition Valid up to (Date)	31 .03.2020
11	Category of zoo	Mini Zoo
12	Area (in Hectares)	25 Ha.
13	Number of Visitors (Financial Year)	Adult: 4,29,098 Children:1,86,219 Total Indian:6,13,168 Total Foreigners: 2,149 Total Visitors: 6,15,317
14	Visitors' Facilities Available in Zoo	Parking, Clock room, Pure RO drinking water, Food court, Toilets, Rest Sheds, Sitting benches.
15	Weekly Closure Day of the Zoo	Monday

S.No.	Particulars	Information
Management Personnel of the zoo		
16	Name with designation of the Officer in-charge	Prasana Kumar Patro
	Name of the Veterinary Officer	Dr. Rakesh Nautiyal
	Name of the Curator	Mr. M.M. Baijwan
	Name of the Biologist	-
	Name of the Education Officer	-
	Name of the Compounder/ Lab Assistant	
Owner / Operator of the Zoo		
17	*Name of the Operator	Director Dehradun Zoo, Dehradun Zoo Management Society, Uttarakhand Forest Department, Government of Uttarakhand
18	Address of the Operator	Mussoorie Diversion, Sinola, Malsi, Dehradun. Pin code: 248003
19	Contact details/Phone number of Operator	9412085077
20	E-mail address of Operator	prasana03ifs@gmail.com zoodehradun@gmail.com

7. Organizational Chart



8. Human Resources

Manpower of the Zoo

Sl. No.	Designation	Number of Sanctioned Posts	Names of the incumbent
1	Director	01	Mr. P K Patro
2	Range officer/ curator	01	Mr. M.M. Baijwan
3	Veterinary Officer	01	Dr. Rakesh Nautiyal
4	Forester	02	Mr. S.P. Binjola Mr. Vinod Kukmar Lingwal
5	Forest guard	06	Mr. Azmat Ali Mrs. Pryianka Madhwal (Bhatt) Miss. VineetaChimwal Mr. Manoj Chamoli Mrs. Asha Mr. Amit Anthwal
6	Zoo keeper	04	Mr. Bhagat Singh Mr. Munna Lal Mr. Rameshwar Mr. Sompal
7	Contractual staff	23	
8	Security staff (PRD)	07	

9. Capacity Building of zoo personnel

Sl. No.	Name and designation of the zoo personnel	Subject matter of Training	Period of Training	Name of the Institution where the Training attended
1	Mr. Bhagat Singh Chauhan (Keeper)	Up keeping of animals	3 days	Pt G B Pant High Altitude zoo, Nainital
		Up keeping/ care of the wild animals	One week	Dhauladhar Nature Park, Gopalpur, District Kangra(H.P.)
		"Northern Region Zoo Keepers Training	One week	Etawah Safari Park, Etawah.
2	Mr. Rameshwer Prasaad (Keeper)	Up keeping/ care of the wild animals Zoo Keepers Training Programme-2019	3 Days 5 Days	Kanpur Zoo Lion breeding Centre Etawah Safari Park, Etawah
3	Mr. Sompal(Keeper)	Management of wild animals in captivity	5 Days	M.C. Zoological Park, Chhatbir, Punjab
4	Mr. Deepak Chauhan (Assistant Keeper)	Management of wild animals in captivity	5 Days	M.C. Zoological Park, Chhatbir, Punjab
5	Mr. Sumit Dhulia (Assistant Keeper)	Management of wild animals in captivity	5 Days	M.C. Zoological Park, Chhatbir, Punjab

10. **Zoo Advisory Committee** -The governing body of the Dehradun Zoo Management Society is at present acting as advisory committee for the management of the zoo. The governing body is a 12-member committee headed by the Principal Secretary/ additional chief secretary Forest of Uttarakhand Government and the Director Dehradun zoo is the member secretary.

11. **Health Advisory Committee**- The proposal for formation of health advisory committee has been sent to the Uttarakhand government for approval.



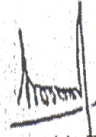
Provisional Income and Expenditure Account for the year ending 31.03.2020

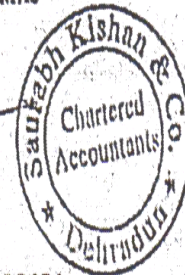
<u>Particulars</u>	<u>Sch. No.</u>	<u>Amount</u>
<u>Gross Receipts</u>	B	3,25,74,185.00
		<u>3,25,74,185.00</u>
<u>Expenses</u>		
Lacchiwala Nature Park Maintenance		21,29,279.00
Zoo Running / Administrative Expenses	C	86,02,847.00
Repair and Maintenance	D	34,53,553.82
Adventure Activities		4,52,280.00
Govt Share in Receipts		70,93,055.00
Finance Charges		19,06,780.00
Capital Expenditure incurred during the year		1,11,96,067.00
		<u>3,48,33,861.82</u>
Total Rs...		
Surplus/(Deficit) During the year		(22,59,676.82)

(Member)

Place : Dehradun
Dated : 12.06.2019

For M/s. Saurabh Kishan & Company
Firm Registration No. 010729C
Chartered Accountants


Saurabh Gupta
F.C.A.
Membership No. 400521



**Schedules annexed to Profit and Loss A/c
For the year ended 31.03.2020**

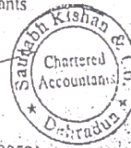
S.No.	Particulars	Amount
"B" - Gross Receipts		
	Interest on FDR	9,55,995.00
	Lacchiwala Tourist Spot Collection	84,77,740.00
	Tender Fees	35,300.00
	Zoo Collections	2,25,34,773.00
	Donations	3,12,000.00
	Interest on Saving Bank A/c	2,58,377.00
		<u>3,25,74,185.00</u>
"C" - Administrative Expenses		
1	Administrative Exp.	8,48,143.00
2	Advertisement Expense	5,11,010.00
3	Animal Welfare	2,50,000.00
4	Celebration Expense	7,34,072.00
5	Fuel Expense	3,90,328.00
6	Housekeeping Expense	2,77,843.00
7	Medicine for Animals	25,41,461.00
8	Printing and Stationery	1,75,460.00
9	Staff Welfare Expense	2,11,796.00
10	Water Expenses	29,943.00
11	Eco Tourism Expenses	18,000.00
12	Electrical Expense	24,90,137.00
13	Professional Fees	1,24,654.00
	Total Rs...	<u>86,02,847.00</u>
"D" - Repair and Maintenance		
1	Repair and Maintenance of Garden	9,10,012.00
2	Repair and Maintenance of Zoo	18,87,921.00
3	Repair and Maintenance of Building	6,38,600.82
4	Repair and Maintenance of Vehicle	17,020.00
		<u>34,53,553.82</u>

(Member)

Annexed to the Audit Report of Even Date

For M/s. Saurabh Kishan & Company
Firm Registration No. 010729C
Chartered Accountants

Saurabh Gupta
F.C.A.
Membership No. 400521



Place : Dehradun
Dated : 12.06.2019

**Schedule "A" of Fixed Assets
As on 31.03.2020**

Dehradun Zoo Management Society
Schedule "A" of Fixed Assets
As on 31.03.2019

S.No.	Particulars	W.D.V. As On 01.04.2018	Additions		Sold/ Trf	Total	Depreciation		W.D.V. As On 31.03.2019
			Before 30.09.2018	After 30.09.2018			Rate	Amount	
1	3D Hall(CWIP)	20,67,285.00	2,12,341.00	-	-	22,79,626.00	0%	-	22,79,626.00
2	Aquarium	1,11,42,086.00	69,105.00	1,32,750.00	-	1,13,43,941.00	0%	-	1,13,43,941.00
3	Cactus Garden	22,30,965.00	9,21,754.00	-	-	31,52,719.00	0%	-	31,52,719.00
4	Vertical Garden	-	1,29,825.00	-	-	1,29,825.00	0%	-	1,29,825.00
5	Electrical Fittings	76,383.00	-	-	-	76,383.00	0%	-	76,383.00
6	Infrastructure	28,86,642.00	38,21,018.00	30,47,056.00	-	97,54,716.00	0%	-	97,54,716.00
7	Food Court	2,83,310.00	-	-	-	2,83,310.00	0%	-	2,83,310.00
8	Furniture & Fixture	6,80,098.00	1,07,771.00	-	-	7,87,869.00	0%	-	7,87,869.00
9	Bio Crush Machine	4,25,371.00	-	-	-	4,25,371.00	0%	-	4,25,371.00
10	Office Equipments	2,92,872.00	1,99,241.00	-	-	4,92,113.00	0%	-	4,92,113.00
11	Ticket Machine	51,030.00	-	-	-	51,030.00	0%	-	51,030.00
12	Crocodile Shelter	79,085.00	2,94,262.00	-	-	3,73,347.00	0%	-	3,73,347.00
13	Leopard Shelter	1,20,075.00	-	1,25,700.00	-	2,45,775.00	0%	-	2,45,775.00
14	Snake Shelter	1,46,634.00	15,74,785.00	1,14,903.00	-	18,36,322.00	0%	-	18,36,322.00
15	Tortoise Shelter	1,98,484.00	47,503.00	-	-	2,45,987.00	0%	-	2,45,987.00
16	Vulture Shelter	-	3,03,540.00	29,662.00	-	3,33,202.00	0%	-	3,33,202.00
17	Ostrich Shelter	-	-	9,912.00	-	9,912.00	0%	-	9,912.00
18	Bird Shelter	-	-	55,139.00	-	55,139.00	0%	-	55,139.00
Total Rs...		2,06,80,320.00	76,80,945.00	35,15,122.00	-	3,18,76,387.00	-	-	3,18,76,387.00

As per our separate report of even date

For M/s. Saurabh Kishan & Company
Firm Registration No. 010729C
Chartered Accountants

(Saurabh Gupta)
F.C.A.
Membership No.

Place : Dehradun
Dated : 12.06.2019

14. Daily feeding Schedule of animals

Sl. No.	Species	Nos.	Feed item	Qty. per animal (in Kg)		Day of fasting
				Summer	Winter	
1	African Grey Parrot	02	Gram	0.080	0.080	
			Maiz	0.008	0.008	
			Kanki	0.026	0.026	
			Ground nut	0.026	0.026	
			Seasonal Fruits	0.100	0.100	
			Green Chilly	0.010	0.010	
			Total	0.250	0.250	
2	Sun Parakeet	05	Wheat	0.140	0.140	
			Kanki	0.030	0.030	
			Kangni	0.106	0.106	
			Tomato	0.050	0.050	
			Seasonal Fruits	0.120	0.120	
			Total	0.446	0.446	
3	Cockatiel	27	Bajra	0.110	0.110	
			Wheat	0.130	0.130	
			Kanki	0.110	0.110	
			Kangni	0.110	0.110	
			Green vegetables	0.210	0.210	
			Total	0.670	0.670	
4	Lady Amherst Pheasant	04	Bajra	0.020	0.020	
			Wheat	0.040	0.040	
			Kangni	0.100	0.100	
			Onion	0.040	0.040	
			Garlic	0.040	0.040	
			Green vegetables	0.120	0.120	
			Gourd	0.080	0.080	
			Tomato	0.100	0.100	
			Egg	0.000	0.200	
Total	0.540	0.740				
5	Kalij Pheasant	05	Bajra	0.020	0.020	
			Wheat	0.040	0.040	
			Kangni	0.100	0.100	
			Onion	0.040	0.040	
			Garlic	0.040	0.040	
			Green vegetables	0.120	0.120	
			Gourd	0.080	0.080	
			Tomato	0.100	0.100	
			Egg	0.000	0.200	
Total	0.540	0.740				

6	Macaw	05	White Gram	0.200	0.200	
			Roasted Gram	0.022	0.022	
			Walnut	0.060	0.060	
			Sunflower Seeds	0.200	0.200	
			Ground nut	0.040	0.040	
			Tomato	0.050	0.050	
			Seasonal Fruits	0.100	0.100	
			Total	0.672	0.672	
7	Tortoise/Turtle	17	Onion	0.040	0.040	
			Garlic	0.040	0.040	
			Green vegetables	0.600	0.600	
			Gourd	0.090	0.090	
			Tomato	0.170	0.170	
			Total	0.940	0.940	
8	Vulture	02	Chicken/ Beef	1.000	1.000	Tuesday
			Total	1.000	1.000	
9	Eagle	04	Chicken/ Beef	1.000	1.000	Tuesday
			Total	1.000	1.000	
10	Leopard	02	Chicken/ Beef	5.000	5.000	Tuesday
			Total	5.000	5.000	
11	Crocodile	03	Chicken	3.000	1.000	Tuesday
			Total	3.000	1.000	
12	Owl	11	Chicken	0.800	0.800	Tuesday
			Total	0.800	0.800	
13	Ostrich	01	Gram	1.000	1.000	
			Maiz	0.800	0.800	
			Wheat	0.800	0.800	
			Soybean	0.800	0.800	
			Egg	0.000	0.200	
			Green vegetable	0.500	0.500	
			Total	3.900	4.100	
14	Emu	03	Gram	0.900	0.900	
			Maiz	0.600	0.600	
			Wheat	0.600	0.600	
			Soybean	0.600	0.600	
			Egg	0.000	0.150	
			Green vegetable	0.500	0.500	
			Total	3.200	3.350	
15	Sambar	06	Gram	0.900	0.900	
			Maiz	1.000	1.000	
			Husk(Chowker)	1.000	1.000	
			Batisa	0.250	0.250	
			Jaggery	0.000	0.400	
			Oil cake	0.000	0.300	
			Green grass	45.000	45.000	
			Total	48.150	48.850	

16	Goral	07	Gram	1.000	1.000	
			Maize	0.600	0.600	
			Husk (Chowker)	0.600	0.600	
			Batisa	0.250	0.250	
			Jaggery	0.000	0.300	
			Oil cake	0.000	0.250	
			Green grass	22.000	22.000	
			Total	24.450	25.000	
17	Barking Deer	12	Gram	1.000	1.000	
			Maiz	1.000	1.000	
			Husk (Chowker)	1.000	1.000	
			Batisa	0.400	0.400	
			Jiggery	0.000	0.500	
			Oil cake	0.000	0.450	
			Green grass	38.000	38.000	
			Total	41.400	42.350	
18	Spotted Deer	86	Gram	10.411	10.411	
			Maiz	5.205	5.205	
			Husk (Chowker)	5.205	5.205	
			Batisa	2.103	2.103	
			Jaggery	0.000	3.000	
			Oil cake	0.000	5.700	
			Green grass	718.356	718.356	
			Total	741.280	749.980	
19	Black buck	0	Gram	0.100	0.100	
			Maiz	0.400	0.400	
			Husk (Chowker)	0.400	0.400	
			Batisa	0.080	0.080	
			Jaggery	0.000	0.060	
			Oil cake	0.000	0.050	
			Green grass	5.000	5.000	
			Total	5.980	6.090	
20	Love Bird	25	Bajra	0.150	0.150	
			Wheat	0.140	0.140	
			Kanki	0.140	0.140	
			Kangni	0.170	0.170	
			Green vegetables	0.090	0.090	
			Gourd	0.090	0.090	
			Total	0.780	0.780	
21	Budgerigar	142	Bajra	0.590	0.590	
			Wheat	0.560	0.560	
			Kanki	0.590	0.590	
			Kangni	0.500	0.500	
			Green vegetables	0.200	0.200	
			Total	2.440	2.440	

22	Parrot	31	Gram	0.110	0.110	
			Maiz	0.110	0.110	
			Kanki	0.280	0.280	
			Kangni	0.280	0.280	
			Roasted gram	0.230	0.230	
			Green vegetable	0.500	0.500	
			Tomato	0.070	0.070	
			Seasonal Fruits	0.220	0.220	
			Green Chilly	0.060	0.060	
			Total	1.860	1.860	
23	Silver Pheasant	04	Bajra	0.020	0.020	
			Wheat	0.040	0.040	
			Kangni	0.100	0.100	
			Onion	0.040	0.040	
			Garlic	0.040	0.040	
			Green vegetables	0.120	0.120	
			Gourd	0.080	0.080	
			Tomato	0.100	0.100	
			Egg	0.000	0.100	
			Total	0.540	0.640	
24	Golden Pheasant	03	Bajra	0.020	0.020	
			Wheat	0.030	0.030	
			Kangni	0.075	0.075	
			Onion	0.020	0.020	
			Garlic	0.020	0.020	
			Green vegetables	0.120	0.120	
			Gourd	0.060	0.060	
			Tomato	0.060	0.060	
			Egg	0.000	0.100	
			Total	0.405	0.505	
25	Peacock	03	Bajra	0.060	0.060	
			Wheat	0.180	0.180	
			Kanki	0.120	0.120	
			Kangni	0.120	0.120	
			Green vegetables	0.200	0.200	
			Total	0.680	0.680	
26	Red Jungle Fowl	04	Poultry Feed	0.300	0.300	
			Bajra	0.030	0.030	
			Onion	0.060	0.060	
			Garlic	0.060	0.060	
			Green vegetables	0.180	0.180	
			Gourd	0.120	0.120	
			Tomato	0.120	0.120	
			Wheat	0.060	0.060	
			Egg	0.000	0.048	
			Total	0.930	0.978	

15. Vaccination Schedule of animals

Sl. No.	Species	Disease vaccinated for	Name of the Vaccine and dosage/ quantity used	Periodicity	Remarks
1	Deer	FMD	Tetravalent	Twice in the	
		HS	Vaccine 2 ml	year	
		BQ	intramuscular		
2	Leopard	Rabies	1 ml	Yearly	
		Feline Pan Leucopenia	1 ml	Yearly	
3	Birds				Vaccination was not carried out
4	Turtle/Tortoise				Vaccination was not carried out
5	Crocodile				Vaccination was not carried out

16. De-worming Schedule of animals

Sl. No.	Species	Drug used	Month	Remark
1	Deer	Albendazole	May, September & December	Three times in the Year and Drugs are used according to the type of parasitic load and the condition of the pregnant and non-pregnant animal.
		Fenbendazole		
		Triclabendazole		
		Livamisole		
		Oxyclozanide		
2	Leopard	Albendazole	February, June & October.	Three times in the Year and Drugs are used according to the type of parasitic load and the condition of the pregnant and non-pregnant animal.
		Fenbendazole		
		Praziquantal		
		Parental Pamoate		
3	Birds	Fenbendazole		According to the examination of the fecal sample in every six months
		Praziquantal		
4	Turtle/Tortoise	Albendazole		According to the examination of the fecal sample in every six months
		Fenbendazole		
5	Crocodile	Albendazole		According to the examination of the fecal sample in every six months
		Fenbendazole		

17. Disinfection Schedule

Sl. No.	Species	Type of enclosure	Disinfectant used and method	Frequency of disinfection
1	Deer	Closed enclosure	Lime dust, spreading lime dust all over the captive area/ground	In the month October
			White wash of the feeding platform	First and last Monday of the month
2	Leopard	Closed enclosure	2% Solution of POP and kohrsolin, dilutions are disinfectants used for washing the area	First and last Monday of the month
3	Birds	Closed enclosure	Spraying of bactericidal (2% Solution of POP and kohrsolin , dilutions)	Last week of June & Sep
			Cleaning of water and feeder	Every Monday

18. Health Check-up of employees for zoonotic diseases

Sl. No.	Name	Designation	Date of Health Check up	Findings of Health Checkup
1	Mr. Bhagat Singh	Zoo keeper	04.05.2019	Nil
2	Mr. Munna Lal	Zoo keeper	04.05.2019	Nil
3	Mr. Rameshwar	Zoo keeper	02.05.2019	Nil
4	Mr. Sompal	Zoo keeper	02.05.2019	Nil
5	Mr. Deepak Chauhan	Assistant Zoo Keeper	04.05.2019	Nil
6	Mr. Sumit Dhulia	Assistant Zoo Keeper	02.05.2019	Nil

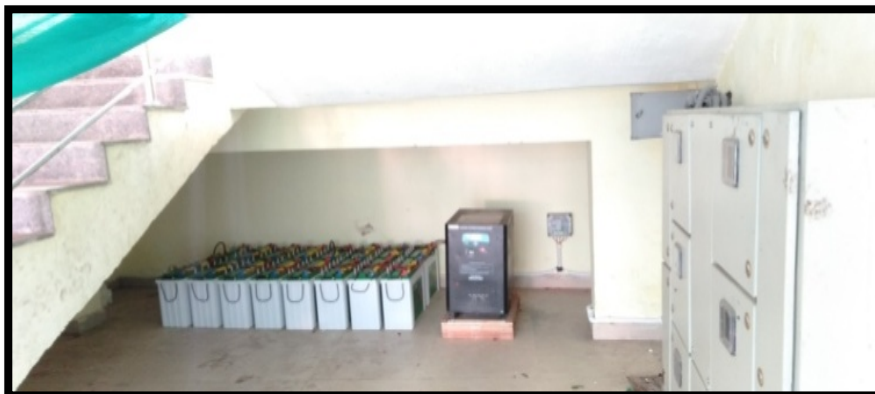


19. Development Works carried out in the zoo during the year

- i. Serpentine House.
- ii. Rock & Succulent Garden.
- iii. Post Mortem House.
- iv. CC roads, Iron & wooden bridges.
- v. 55 KW Solar powers under CSR Project supported by Gail India Ltd.,
- vi. VIII. Solar Street lights (15 Nos.) with Lithium ion battery
- vii. X. Renovation of residential huts and boundary wall in the colony.
- viii. XI. Tiger enclosure
- ix. XIV. Sun/ Rain shed near Aquarium.
- x. XVIII. Hyena enclosure.
- xi. Parking development
- xii. XXIII. Pipe line for water supply & underground Electric cabling
- xiii. XXXV. Goral Enclosure.







**SOLAR LIGHTING SYSTEM
STEP FOR CARBON NEUTRAL ZOO**

20. Education and Awareness programs during the year

List of visits by school, college, institutions and trainees

- 04.04.2019 :- An educational group of 146 students from Purkul Youth Development Society, Purkul, Dehradun visited the zoo to study habit and Habitat of wild animals.
- 10.04.2019:-A group of children with special need/ developmental disabilities from Latika Roy Memorial Foundation, Dehradun visited the zoo, special guidance was provided to these students.
- 25.04.2019 :- An educational group of 50 students from Govt. Primary School, Rikholi, Sahaspur, Dehradun visited the zoo.
- 25.04.2019 :- An educational group of 125 students from Govt. Primary School, Indira Nagar, Sahaspur, Dehradun visited the zoo.
- 06.05.2019 :- An educational programme was conducted in the zoo to educate the zoo staff for a proper conduct of behavior with physically challenged people/ children with special need/ developmental disabilities visiting the zoo.
- 23.05.2019 :- 123 Students on behalf of Uttarakhand State Council for Child Welfare visited the zoo to interact with wildlife and learn about wildlife.
- 29.05.2019 :- FRO Batch of 40 trainees From UFTA Haldwani visited the zoo to study zoo management.
- 04.06.2019 :- To create awareness among people to save forest from fires a Nukkar-Natak was organized in the zoo during the fire safety season.
- 21.06.2019 :- An educational tour of 100 students from Ramakrishna Mission Ashram, Rajpur, Dehradun visited the zoo.
- 17.07.2019 :- An educational tour of 40 students from Govt. Primary School, Telpura, Haridwar visited the zoo
- 20.07.2019 :- Officer Trainees of 2019-21 SFS Course of CASFOS visited the zoo to learn zoo management.
- 17.08.2019 to 18.08.2019 :- Training on Zoo Management was given to a group of B.Sc. Forestry students from Uttaranchal P.G. Collage of Bio-medical Sciences and Hospital, Dehradun.
- 17.08.2019 to 18.08.2019 :- Training on Zoo Management was given to a group of B.Sc. Forestry students from Dev Bhoomi Institute of Management, Dehradun.
- 29.08.2019 :- A Batch of 23 Foresters From UFTA Haldwani, Uttarakhand visited the zoo to study zoo management.
- 17.09.2019 :- A batch of 44 students of MSc Forestry visited the zoo to study about enclosures, cages, and moats(size and maintenance), zoonotic diseases, and their management, evaluation of the zoo according to CZA rules(based on visitors, species displayed, guidelines for housing animals and health monitoring protocol.
- 19.09.2019 :- A batch of 35 Officers of the rank DFO/ACF and Paramilitary Officers with other officers from FRI in collaboration with National Institute of Disaster Management (NIDM) New Delhi, Ministry of Home Affairs, GOI visited the zoo to study Forestry, wildlife and disaster risk reduction.
- 21.09.2019 :- A batch of 54 Regular Forest Guards trainees from FTI Chail, H.P. visited the zoo to study zoo management.

- 26.09.2019 :- 23 IFS from FRI visited the zoo for compulsory Training programme/ zoo management.
- 27.09.2019 :- Study tour of 2018-20 SFS batch II of Central Academy for State Forest Services, Combatores-reg. (SFS Officer Trainees) visited the zoo
- 03.10.2019 :- An educational group of 185 students from Doon International, Dehradun visited the zoo on Wildlife-Week, free entry was given to all the student
- 05.10.2019 :- An educational group of 317 students from GRD Academy, Niranjan pur, Dehradun visited the zoo on Wildlife-Week, free entry was given to all the students.
- 05.10.2019 :- An educational group of 45 students from Mount Litra School, Dehradun visited the zoo on Wildlife-Week, free entry was given to all the students
- 05.10.2019 :- An educational group of 38 students from Sun Shine Public School, Rishikesh, Dehradun visited the zoo on Wildlife-Week, free entry was given to all the students.
- 05.10.2019 :- An educational group of 20 students from Bubbles School, Turner Road, Dehradun visited the zoo on Wildlife-Week, free entry was given to all the students.
- 05.10.2019 :- An educational group of 69 students from Cambrian Hall, Dehradun visited the zoo on Wildlife-Week, free entry was given to all the students.
- 05.10.2019 :- An educational group of 45 students from Manav Bharti Primary School, Sahaspur, Dehradun visited the zoo on Wildlife-Week, free entry was given to all the students.
- 05.10.2019 :- An educational group of 65 students from Govt. Primary School, Vikas Nagar, Dehradun; Govt. Primary School, Malsi, Dehradun Govt. Primary School, Gunial Gaon, Dehradun visited the zoo on Wildlife-Week, free entry was given to all the students.
- 06.10.2019 :- An educational group of 123 students from GIC, Herbutpur, Dehradun visited the zoo on Wildlife-Week, free entry was given to all the students.
- 06.10.2019 :- An educational group of 98 students from GIC, Sahaspur, Dehradun visited the zoo on Wildlife-Week, free entry was given to all the students.
- 06.10.2019 :- An educational group of 17 students from Govt. Primary School, Raipur, Dehradun visited the zoo on Wildlife-Week, free entry was given to all the students.
- 16.11.2019 to 23.11.2019 :- Training on Zoo Management was given to a of B.Sc. Forestry students from HNBGU.
- 19.11.2019 :- A batch of 24 Forest Guards trainees from Jainti, Almora. visited the zoo to study zoo management
- 25.11.2019 :- A batch of 43 Forest Guards trainees from Forest Guard Training Centre, Rampur Mandi visited the zoo to study zoo management.
- 12.12.2019:-A group of 40 children with special need/ developmental disabilities on behalf of Zila Pariyojna Karyalya , Mayur Vihar, Sahastradhara Road, Dehradun visited the zoo, Free entry with special guidance was provided to these students.
- 20.12.2019:-A group of 100 children with special need/ developmental disabilities from Latika Roy Foundation, Dehradun visited the zoo, special guidance was provided to these students.
- 22.12.2019 :- FRO Batch of 41 trainees From UFTA Haldwani visited the zoo to study zoo management
- 25.12.2020 :- An educational group of 15 students from Govt. Primary School, Dhoran, Block-Raipur, Dehradun visited the zoo, free entry was given to all the students
- 22.01.2020 :- A Batch of 20 Forest Range Officers From Forest Survey of India visited the zoo

to study zoo management.

- 24.01.2020 :- A Group of 13 Veterinary Doctors visited the zoo to study zoo management.
- 30.01.2020 :- A Batch of 52 Regular Forest Guard From FTI Chail, Solan, H.P. visited the zoo to study zoo management.
- 05.02.2020 :- Training for National Training Programme for Ganga Prahari Spearhead team,
- Under the National Mission for Clean Ganga(NMCG) And the Wildlife Institute (WII) project “Planing and Management for aquatic species conservation and maintenance of eco-system services in the Ganga
- River Basin with Training coordinator Dr. Sangeeta Angom & Subject Matter Specialist Dr. Anupam Srivastav Was held at Dehradun zoo. Dr. Rakesh Kumar Nautiyal, Veterinary Officer, Dehradun Zoo Introduced all the volunteers to Dehradun zoo, its flora and fauna and
- animal of the zoo.
- 06.02.2020 :- An educational group of 95 students from Govt. Upper Primary School, Jamalpur Kala, Haridwar visited the zoo, free entry was given to all the students.
- 06.02.2020 :- An educational group of students from Govt. Primary School, Gujrowali, Doiwala, Dehradun visited the zoo, free entry was given to all the students.
- 06.02.2020 :- An educational group of students from Govt. Primary School, Balawala, Doiwala, Dehradun visited the zoo, free entry was given to all the students.
- 06.02.2020 :- An educational group of students from Govt. Primary School, Nathuwala, Doiwala, Dehradun visited the zoo, free entry was given to all the students.
- 06.02.2020 :- An educational group of students from Govt. Primary School, Badkot -II, Doiwala, Dehradun visited the zoo, free entry was given to all the students.
- 09.02.2020 :- A group of 20 IFS Officers From different states visited the zoo to
- study zoo management.
- 15.02.2020 :- An educational group of 129 students from Govt. Primary School, Chandpur, Vikasnagar, Dehradun visited the zoo, free entry was given to all the students.
- 15.02.2020 :- An educational group of students from Govt. Primary School, Harbanswala, Raipur, Dehradun visited the zoo, free entry was given to all the students.
- 20.02.2020 :- An educational group of 66 students from Govt. Primary School, Akhandvani Bhilag, Raipur, Dehradun visited the zoo, free entry was given to all the students
- 20.02.2020 :- An educational group of students from Govt. Primary School, Tunwala-II, Gujrowali, Doiwala,Dehradun visited the zoo, free entry was given to all the students.
- 20.02.2020 :- An educational group of students from Govt. Primary School, Samshergarh, Sankul Gujrowali, Doiwala, Dehradun visited the zoo, free entry was given to all the students
- 22.02.2020 :- An educational group of students from Govt. Primary School, Nakronda, Dehradun visited the zoo, free entry was given to all the students
- 22.02.2020 :- An educational group of 47 students from Govt. Primary School, Awaliwala, Dehradun visited the zoo, free entry was given to all the students
- 25.02.2020 :- An educational group of 23 students from Govt. Primary School, Dhalwala, Sahispur Block, Dehradun visited the zoo, free entry was given to all the students.
- 25.02.2020 :- An educational group of 47 students from Govt. Primary School, Tiperpur, Vikasnagar, Dehradun visited the zoo, free entry was given to all the students.
- 26.02.2020 :- Post Graduate Diploma Course-Advance Wildlife Management 25 IFS & Doctors Group visited the Zoo.
- 29.02.2020 :- An educational group of students from Govt. Primary School, Shastri

Nagar(Kawli), Dehradun visited the zoo, free entry was given to all the students.

- 02.03.2020 :- An educational group of 37 students from Govt. Primary School, Kandoli, Raipur, Dehradun visited the zoo, free entry was given to all the students.
- 07.03.2020 :- An educational group of 39 students from Govt. Primary School, Vani Vihar, Raipur, Dehradun visited the zoo, free entry was given to all the students.
- 07.03.2020 :- An educational group of 44 students from Govt. Primary School, Ladpur, Dehradun visited the zoo, free entry was given to all the students.
- 07.03.2020 :- An educational group of 37 students from Saheed Jaideep Singh Bhandari Govt. Primary School, Nehrugram, Dehradun visited the zoo, free entry was given to all the students.
- 12.03.2020 :- An educational group of 70 students from Govt. Junior High School, Kanchiwala, Block Sahispur, Dehradun visited the zoo, free entry was given to all the students.



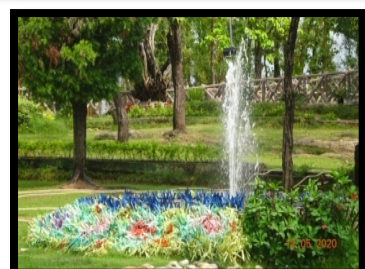




21. Important Events and happenings

- 22.05.2019 :- International Biodiversity Day, 22 May was celebrated with great joy and enthusiasm. Art competition among different groups of 58 students was conducted in zoo, after the prize distribution to the winners, a small treat/refreshment was given to all present.
- 05.06.2019 :- World Environment Day 5-June was celebrated with great joy and enthusiasm. Art competition among different groups of 44 students was conducted in zoo, after the prize distribution to the winners, a small treat as refreshment was given to all present.
- 25.07.2018:- "Harela celebration" on this occasion many trees were planted in the zoo premises by zoo staff from 17.07.2019 to 16.08.2019.
- 28.07.2018:- National Moth Week(20th to 28th July) was celebrated in the zoo. A night Camp was organized with Titli trust to find out the new species of moths in the area. Volunteer Students were imparted education on Moth species.
 - 01 to 7. 10.2018 :- Wildlife-Week celebration(01st to 7th October), on this occasion many events were conducted in the zoo, On 1st October 2019, the day one was initiated by conducting a "**Safai Abhiyan**" inside and outside the zoo area with the combined efforts of all the employees of the zoo, with the motto "Keep the surroundings clean for a better and healthy life". Day 2:- of the "Wildlife Week". On this day to spread education and awareness on the importance of wildlife conservation drawing and painting competition was conducted for the students of different schools. On day 3 & 4,-: Plantation work was carried out in the zoo. Day 5,-: A debate Competition in two groups-Debate in Hindi Group & Debate in English Group for students from different schools was conducted in the zoo on the topic "Wildlife Conservation vs. Development" After the debate competition was over snacks were also distributed to them. Day 7,-: Closing Ceremony was held in presence Mr. Rajiv Bharatari, PCCF (Wildlife)/ Chief Wildlife Warden, Uttarakhand; Special guest: Dr. Dhananjai Mohan, PCCF, Planning and Financial Management & Mr. G.S. Pande, CCF (Garhwal), Uttarakhand, Pauri and other Officers of Forest Department.
- 12.11.2020 to 26.01.2020:- Mrs. Baby Rani Maurya, Governer of Uttarakhand State visited Dehradun Zoo.
- 25.12.2019:- For Decoration of zoo on Christmas Day, Beautiful Flower structures were made by zoo staff using Waste plastic bottles thrown by tourist.
- 02.01.2020:- Serpentine House & Rock/Seculent Garden was Inaugurated by Dr. Harak Singh Rawat Forest Minister(U.K.); Mr. Ganesh Joshi, MLA, Mussoorie; Mr. Sunil Uniyal Gama, Mayer Dehradun and Mr. Jai Raj, PCCF Uttarakhand (Hoff) in presence of many other Forest officers.
- 21.01.2020 to 23.01.2020:- First Batch of Training on LED Light Making & Repairing Supported under CSR GAIL India Ltd. Organized by Dehradun Zoo with Training Partner SPECS Dehradun.
- 24.01.2020 to 26.01.2020:- Second Batch of Training on LED Light Making & Repairing Organized.







22. Research Work carried out and publications

As this a newly established Zoo there is no research program has been carried out by Zoo.

23. Conservation Breeding Program of the Zoo

As this a newly established Zoo, there is no conservation breeding program has been carried out by Zoo.

24. Animal acquisition / transfer / exchange during the year

Exchange of animal with other zoos was not done, however, 04 Gharial (2:2) acquired from Kamla Nehru Prani Sangrahalaya Zoo, Indore; 02 Indian Cobra (1:1), 02 Rat Snake (1:1), 02 Russell's viper (1:1), 02 Indian Rock Python (1:1) acquired from Pilikula Biological Park, and 02 Common Sand Boa (1:1), 02 Common Krait (1:1) acquired from Chennai Snake Park, Chennai.

Rescue and Rehabilitation of wild animals carried out by the Zoo

Sl. No.	Date of Rescue	Species with number of animals rescued with their sex (M: F:U:T)	Received from Rescued	Date of Submission of Report to the CWLW / CZA	Action Taken	
					Date & Place of rehabilitation in their habitat/ Date of death and reason of death	Reasons for housing in the zoo
1	2	3	4	5	6	7
1	3/04/2029	One Goral (F)	R.O., Pathani Range, Garhwal Forest Dept, Pauri.			New born grown up in zoo being not able to feed on its own
2	10.04.2019	One Golden Owl (U)	Dr. Jagdish Chachra, 4 EC Road, Santoshi Hospital, Dehradun		Died on 28.04.2019, due to asphyxia because of Acute pneumonia	
3	17.04.2019	One Kite (U)	Mr. Arshad, member of rescue team, Dehradun, UKFD		18.06.2019 rehabilitation in its natural habitat in Malsi Reserve Forest, Dehradun Forest Division	
4	18.04.2019	One Barking Deer (F)	Mr. Hayat Singh, Malsi Range, Dehradun Forest Division		Died on 24.06.2019 due to Asphyxia because of Acute Lympanitis	
5	20.04.2019	Two Owl (U)	Mr. Arshad, member of rescue team, Dehradun, UKFD		-	Owls were newly born and were not able to catch their prey and feed on their own
6	21.04.2019	One Monkey (M)	Mrs. Vandna Sharma, (Forest Guard) Malsi Range, Dehradun Forest Division		05.05.2019 released for rehabilitation in its natural habitat Handed over to Mr. Narendra Chamoli of Malsi Range, Dehradun Forest Division	
7	13.05.2019	One Goral (M)	Mr. Davendra Singh, R.O., Pathani Range, Garhwal Forest Dept, Pauri.		18.05.2019 rehabilitation in its natural habitat in Rikholi-Compartment no. 3 Dehradun Forest Division	

Sl. 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 & Place of rehabilitation in their habitat/Date of death and reason of death	Reasons for housing in the zoo
1	2	3	4	5	6	7
8	29.05.2019	One Goral (M)	Mr. Gambhir Singh Tomar, Forest Guard, Wildlife sanctuary, Mussoorie		06.06.2019 rehabilitation in its natural habitat in Rikholi-	
9	02.06.2019	One Barking Deer (F)	Mr. Sardar Singh & Ramesh Rawat, Raipur Range, Dehradun Forest		16.08.2019 Died due to Acute Pneumonia leading	
10	05.06.2019	One Owl (U)	Mr. Bhawani Dutt & Deepak Kumar, Members of Rescue		05.06.2019 rehabilitation in its natural habitat in	
11	10.06.2019	One Barking Deer (M)	Mr. Bheemraj Bairwan, Forester & Akhilesh Kumar, Forest Guard, Narendra Nagar Forest		28.03.2020 rehabilitation in its natural habitat in Rikholi- Comp. no. 2	
12	16.06.2019	One Parrot (U)	Mr. Ravindra Kumar, Pithuwala Dehradun		25.06.2019 rehabilitation in its natural habitat in Malsi Reserve	
13	17.06.2019	One Goral (M)	Mr. Ram Singh & Mr. Lakhpat Manola, Forest Guard, Manik Nath Range, Dagchour,		12.08.2019 rehabilitation in its natural habitat in Rikholi- Comp. no.	
14	19.06.2019	One Kite (U)	Mr. Bhawani Dutt & Deepak Kumar, Members of Rescue		25.06.2019 rehabilitation in its natural habitat in	
15	29.08.2019	One Bronze back Tree Snake (U)	Haridwar Forest Division, Haridwar, Uttarakhand.		14.09.2019 rehabilitation in its natural habitat in Rikholi-	

16	17.09.2019	One Kite (U)	Mr. Bhawani Dutt & Deepak Kumar, Members of Rescue Team UKFD, Dehradun		15.10.2019 rehabilitation in its natural habitat in Malsi Reserve Forest, Dehradun Forest Division	
17	22.09.2019	One Burmese Python	R.O. Asarodi Range, Dehradun Forest			Under treatment
Sl. No.	Date of Rescue	Species with number of animals rescued with their sex	Received from	Date of Submission of Report to the CWLW / CZA	Action Taken	
					Date & Place of rehabilitation in their habitat / Date of death and reason of death	Reasons for housing in the zoo
1	2	3	4	5	6	7
18	03.10.2019	One Monkey (M)	Mr. Ravi Joshi Members of Rescue Team UKFD, Dehradun		15.10.2019, rehabilitation in its natural habitat - forest of Rajpur compartment no 5,	
19	01.12.2019	One Spotted Deer (M)	MNC, Kidduwala Range, Mussoorie		07.01.2020 rehabilitation in its natural habitat in Rikholi-Compartment no. 2	
20	15.12.2019	One Kite (U)	Mr. Bhawani Dutt & Deepak Kumar, Members of Rescue Team UKFD, Dehradun		15.01.2019 rehabilitation in its natural habitat in Malsi Reserve Forest, Dehradun	
21	12.01.2020	One Monkey (M)	Mr. Arshad, member of rescue team, Dehradun, UKFD		18.01.2020 rehabilitation in its natural habitat in Rikholi-Compartment no. 2 Dehradun Forest	

26. Annual Inventory of animals

Dehradun Zoo Annual Inventory Report 2019-20																							
Dehradun Zoo	Uttarakhand	2019-20	01 April 2019 to 31 March 2020																				
S.No.	SPECIES NAME	ANIMAL NAME	SCIENTIFIC NAME	OPENING STOCK As on 01-04-2019				BIRTHS			ACQUISITIONS			DISPOSALS			DEATH			CLOSING STOCK As on 31.03.2020			
				M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
Endangered Species (Schedule I and II)				M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
1	Bird	Peafowl	Pavo cristatus	1	2	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Bird	Pheasant Kalij (Albino)	Lophura leucomelanos	2	2	0	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Bird	Vulture Indian	Gyps indicus	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Mammal	Leopard (Panther)	Panthera pardus	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Reptile	Crocodile Marsh (Mugger)	Crocodylus palustris	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Reptile	Turtle Fresh Water/Indian Soft-shelled	Lissemys punctata punctata	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Reptile	Turtle Indian Black	Melanochelys trijuga	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Reptile	Turtle Indian Roofed	Pangshura tecta	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Reptile	Gharial	Gavialis gangeticus	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0
10	Reptile	Python Burmese	Python bivittatus	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Total of Endangered Species				5	7	10	22	0	1	1	2	2	1	0	0	0	0	0	0	0	0	0	0
Species (Schedule III and IV)				OPENING STOCK As on 01-04-2019				BIRTHS			ACQUISITIONS			DISPOSALS			DEATH			CLOSING STOCK As on 31.03.2020			
				M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
11	Bird	Eagle (Unidentified)		0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

12	Bird	Fowl Jungle Red	Gallus gallus	2	4	0	6	0	0	0	0	0	0	0	0	0	0	2	0	2	2	0	4
13	Bird	Owl Brown Wood	Strix leptogrammica	1	0	5	6	0	0	0	0	0	2	0	0	0	1	0	0	0	0	7	7
14	Bird	Owlet Spotted	Athene brama	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
15	Bird	Owl Tawny Fish	Ketupa flavipes	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
16	Bird	Parakeet Alexandrine	Psittacula eupatria	5	5	3	13	0	0	0	0	0	0	0	0	0	0	0	0	5	5	3	13
17	Bird	Parakeet Rose Ring	Psittacula krameri	4	5	8	17	0	0	1	0	0	0	0	0	0	0	0	0	4	5	9	18
18	Bird	Pheasant Golden	Chrysolophus pictus	2	2	0	4	0	0	0	0	0	0	0	0	0	1	0	0	1	2	0	3
19	Bird	Plum-headed Parakeet	Psittacula cyanocephala	0	0	6	6	0	0	4	0	0	0	0	0	0	0	0	0	0	0	1	1
20	Mammal	Deer Barking (Kakar)	Muntiacus muntjak	5	7	0	12	0	0	0	0	0	0	0	0	0	0	0	0	5	7	0	12
21	Mammal	Deer Sambar	Rusa unicolor	2	3	0	5	0	0	0	1	0	0	0	0	0	0	0	0	2	3	1	6
22	Mammal	Deer Spotted (Chital)	Axis axis	39	46	0	85	0	0	3	0	0	0	0	0	2	0	0	3	4	6	3	86
23	Mammal	Goral	Naemorhedus goral	4	2	0	6	0	0	0	0	1	0	0	0	0	0	0	0	4	3	0	7
24	Reptile	Tortoise elongated	Indotestudina elongata	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
25	Reptile	Turtle (Unidentified)		1	1	0	2	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	3
26	Reptile	Tricarinate hill turtle	Melanochelys tricarinata	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
27	Reptile	Indian Cobra	Naja naja	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	2
28	Reptile	Rat Snake	Ptyas mucosa	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	2
29	Reptile	Russell's Viper	Daboia russelii	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	2
30	Reptile	Indian Rock Python	Python molurus	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	2
31	Reptile	Common Sand Boa	Eryx johnii	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	2
32	Reptile	Vine Snake	Ahaetulla nasuta	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	2
33	Reptile	Checked Keelback	Fowlea piscator	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	2

34	Reptile	Reticulated Python	Malayopython reticulatus	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	2			
35	Reptile	Common Krait	Bungarus caeruleus	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	2			
			Total of Species (Sch III and IV)	65	75	36	176	0	0	9	9	9	4	0	0	0	4	2	0	69	82	50	201				
Exotic Species				OPENING STOCK As on 01-04-2019				BIRTHS			ACQUISITIONS			DISPOSALS			DEATH			CLOSING STOCK As on 31.03.2020							
				M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T				
36	Bird	Budgeriger	Melopsittacus undulatus	50	50	40	1440	0	0	2	0	0	0	0	0	0	0	0	0	0	0	50	50	42	1442		
37	Bird	Cockatiel	Nymphicus hollandicus	10	10	5	25	0	0	2	0	0	0	0	0	0	0	0	0	0	0	10	10	7	27		
38	Bird	Conure Sun	Aratinga solstitialis	2	3	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	5		
39	Bird	Emu	Dromaius novaehollandiae	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3		
40	Bird	Love Birds	Agapornis	14	11	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	11	0	25		
41	Bird	Macaw Blue & Yellow	Ara ararauna	1	1	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3		
42	Bird	Macaw Red & Green	Ara chloroptera	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2		
43	Bird	Ostrich	Struthio camelus	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1		
44	Bird	Parakeet African Grey	Pittacus erithacus	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2		
45	Bird	Pheasant Lady Amherst	Chrysolophus amherstiae	2	1	0	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	1	1	4		
46	Bird	Pheasant Silver	Lophura nycthemera	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4		
47	Reptile	Iguana	Iguana iguana	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3	3		
			Total Exotic Species	85	83	45	213	1	0	5	0	0	3	0	0	0	0	0	0	0	0	1	0	86	82	53	221
			Grand Total	155	165	91	411	1	1	15	1	1	8	0	0	0	4	3	0	16	17	14	15	15	45	11	

27. Mortality of animals

Sl. 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	Ostrich	Strithio Camelus	Female	20.09.2019	Fracture of Limb leads to shock
2	Red Jungle Fowl	Gallus gallus	Female	02.11.2019	Sevier head injury lead to shock, (due to fight among birds)
3	Red Jungle Fowl	Gallus gallus	Female	04.11.2019	Sevier head injury lead to shock, (due to fight among birds)
4	Golden Pheasant	Chrysolophuspictus	Male	16.01.2020	Pneumonia & Heart Failure lead to shock
5	Spotted Deer	Axis axis	Male	23.02.2020	Asphyxia caused by Acute Lympanitis
6	Spotted Deer	Axis axis	Male	04.03.2019	Asphyxia caused by Acute Lympanitis
7	Owl Brown Wood	StrixLeptogrammica	Male	15-03-2020	Acute Pneumonia which may lead to asphyxia

28. Compliance with conditions stipulated by the Central Zoo Authority

Details on compliance of the conditions stipulated by the Central Zoo Authority (as per the earlier letter of grant of recognition issued to the zoo)

Letter No. 19-123/93-CZA(Vol.I)(267)(NS)/7592 dated: 14.8.2015, Letter No. 19-123/93-CZA(267)(M)/450 dated: 9.3.2012 and Letter No. 19-123/93-CZA(267)(M) dated: 23.09.2009

Sr. No.	Norm No.	Condition Stipulated	Time Period to comply	Since when pending	Remarks
					Status with regard to compliance of the conditions as submitted by the Officer-in-charge of the Zoo
1. General requirements					
1	1(1)	The mini zoo is having in its collection birds, mammals and reptiles and is in the process of improving enclosures as per the layout plan. Zoo has to strengthen conservation education and create interpretation facility in order to convey credible conservation message.	Six months		The process of strengthening of the zoo is under process, few new animal and birds enclosures were already constructed and few old enclosures were renovated as per the specification of the CZA and new enclosures designs for animals like tiger, leopard, black bear. Sloth bear and hyena were approved by CZA recently. Which will be constructed as per the availability of financial resources. To impart awareness and education among the visitors proper sign boards were place and 3D theatre was established. In future there is a plan to have a modern interpretation centre for awareness and education.
2	10.1(1)	(i) No Endeavour seems to have done to establish physically, genetically and behaviorally healthy animals. Animal display neither meets the prescribed health norms nor does facility seem to convey credible conservation message. (ii)The zoo should follow its primary objective to operate the deer park for conservation of	Within a year	9.3.2012	

3	10.1(3)	Visitors' movement is haphazard. Need to regulate by constructing appropriate directional signage.	Within three months	9.3.2012	Complied with
4	10.1(3)	The circulation path for visitors as shown in the approved layout plan should be completed for movement of visitors.	Three months	14.8.2015	Complied with
5	10.1(5)	Perimeter wall should be constructed towards human habitations and road side.	Three months	9.3.2012	The leopard pr have been cons
6	10.1(7)	The Deer Park should provide a proper waste disposal system for treating the both solid and liquid wastes generated in the Deer Park.	Six months	23.09.2009	Complied with
7	10.1(8)	Zoo has been displaying injured animals. It should immediately be shifted to off display enclosure.	With immediate effect	9.3.2012	Complied with
8	10.1(9)	The primary objective to operate the deer park shall be the conservation of wildlife. The rabbits housed in the Deer Park should be removed immediately	With immediate effect	23.09.2009	Complied with

Sr. No.	Norm No.	Condition Stipulated	Time Period to comply	Since when pending	Remarks
					Status with regard to compliance of the conditions as submitted
2. Administrative and staffing pattern					
9	10.2(1)	Full time officer in the rank of ACF should be posted with adequate administrative and financial power as at present the DFO, Dehradun is the Zoo Operator in addition to her territorial works. R.O. as manager has no administrative and financial power to manage the zoo.	Three months	9.3.2012	
10	10.2(2)	One veterinarian seen to be permanently engaged by the zoo operator. The Zoo operator may execute MoU with State Animal Health Department for regular deputation of veterinarian to zoo.	Three months	9.3.2012	
3. Development and Planning					
11	10.3(1)	The Zoo should prepare a long term Master Plan for its development in the format as circulated by the Central Zoo Authority and as per the approved/ agreed Concept Plan. The five copies of the said plan should be submitted to the Central Zoo Authority for its approval. Animal Collection Plan has not been prepared. The existing animals in the display seem to be collected by chance.	Within three months from the date of issue of this letter.	23.09.2009	The masterplan is under preparation and will be submitted within 3 month time
12	10.3(6)	The Deer Park operator should prepare a collection plan of the animals following the approved/agreed concept plan as communicated by this office letter No.19-123/93-CZA(267)(M) dated 12.3.2009.	Three months	23.09.2009	Along with the master plan it will be submitted.
13	10.3(7)	The zoo lacks quarantine facility. Even the Rescue Centre in off display needs to be revamped.	With immediate effect	9.3.2012	Complied with
14	10.3(7)	Zoo has accepted rescued animal or which it does not have appropriately designed enclosure and upkeep facilities as well as the facilities for keeping it in isolation during quarantine period. The Rescue centre and other facilities should be constructed as per approved layout plan and design.	Three months	14.8.2015	Complied, rescue centre for raptors (birds of prey) and leopard had been completed with the financial assistance from CZA. Isolation area will be demarcated in future after the implementation of expansion plan.

4. Animal housing, display of animals and animal enclosures					
15	10.4(2)	The Spotted Deer enclosure at the Deer Park shall be so designed to meet the biological requirements of the animals housed therein. The enclosures shall be of such size as to ensure that the animals get space for their free movement and exercise.	With immediate effect	23.09.2009	Complied with
16	10.4(2)	Height of the leopard enclosure should be increased covering the existing trees that would provide natural environment to the animals. More furniture size logs/ timber etc. needs to be placed for enrichment.	With immediate effect.	9.3.2012	The leopard enclosure is under construction at the new place as per the approved layout plan
17	10.4(2)	Star tortoise housed in ad-hoc enclosure should be shifted to proper enclosure.	With immediate effect.	9.3.2012	Complied with

Sr. No.	Norm No.	Condition Stipulated	Time Period to comply	Since when pending	Remarks
					Status with regard to compliance of the conditions as submitted by the Officer-in-charge of the Zoo
18	10.4(2)	The enclosures at the zoo does not meet biological and behavior requirement of animals and require drastic modification and improvement as approved in the layout plan.	Six months	14.8.2015	Complied with
19	10.4(3)	Provision of footbath of adequate size with proper disinfectant at entry and exit points of animal house should be provided.	One month	14.8.2015	Complied with
20	10.4(3)	The safety features both for visitors and animal keepers have to be upgraded as the night shelters for leopard is close to the visitors' path and there is no proper animal keeper's gallery.	Six months	14.8.2015	Complied with
21	10.4(5)	The leopards are kept in small enclosures without much scope for vertical movement due to top chain link fence at a height of 3- ½ meters and enrichment needs to be improved. The mixed species enclosure for all herbivores comprising of cheetal sambar, barking deer and goral needs to be improved with separate enclosure for each animal as approved in the layout plan.	Immediate	14.8.2015	The mixed herbivores population has been separated species wise. However, the condition of leopard enclosures has not been improved because these enclosures have to be shifted to new location as per the approved layout plan.
22	10.4(6)	Special efforts to enrich the environment of the enclosures should be taken as the enclosure enrichment is lacking.	Three months	9.3.2012	Complied with
23	10.4(7)	Screening between the enclosures is not adequate. Needs special attention.	Three months	9.3.2012	Complied with
24	10.4(8)	Renovation of the existing enclosures or any new enclosures to be constructed should be carried out only with prior approval of the design by the Central Zoo Authority.	Three months	9.3.2012	Complied with

25	10.4(9)	Proper stand-off barrier to prevent unregulated access to visitors should be constructed in all enclosures (except leopard) as per CZA specification. Additional sign boards and warning boards are required.	With immediate effect.	9.3.2012	Complied with
26	10.4(10)	The spotted deer enclosure in the park should bear a signboard in local language, Hindi and English displaying scientific and biological information regarding the exhibited animals.	Three months	23.09.2009	Complied with

5. Upkeep and healthcare of animals

27	10.5(1)	The spotted deer enclosure is too large and should be so designed to meet the managerial requirements of the animals housed therein.	With immediate effect.	9.3.2012	Complied with
28	10.5(2)	The Deer Park should ensure round the clock supply of water for drinking purposes in each enclosure.	With immediate effect	23.09.2009	Complied with and new bore well and pump house was constructed
29	10.5(3)	The store house for food is inadequate and storage conditions need improvement and meat house should be separately provided.	Two months	14.8.2015	Complied with and new kitchen and store was constructed
30	10.5(3)	Timing of distribution of food and placement and way of distribution of food should be followed as per guidelines with scientific approach in meeting the feeding requirements of the animals.	With immediate effect	9.3.2012	Complied with

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

a. Mammals

Sl. No.	SPECIES NAME	ANIMAL NAME	SCIENTIFIC NAME	Numbers
1		Deer Barking (Kakar)	Muntiacus muntjak	03
2		Deer Spotted (Chital)	Axis axis	51
Total				54

b Birds

During the great backyard bird counting celebration held in the Dehradun zoo premises about 41 species of birds cited and identified. The details are as follows.

1. Himalayan Griffon (*Gyps himalayensis*)
2. Black Kite (*Milvus migrans*)
3. Red-wattled Lapwing (*Vanellus indicus*)
4. Rock Pigeon (Feral Pigeon) (*Columbia livia* (Feral Pigeon))
5. Himalayan Swiftlet (*Aerodramus brevirostris*)
6. Alpine Swift (*Tachymarptis melba*/Apus Melba)
7. Little Swift (*Apus affinis*/Indian House Swift)
8. Indian Grey Hornbill (*Ocyroceros birostris*)
9. Oriental Pied-Hornbill (*Anthracoseros albirostris*)
10. Lineated Barbet (*Psilopogon lineatus*)
11. Brown-headed Barbet (*Psilopogon zeylanicus*)
12. Grey-capped Woodpecker (*Picoides canicapillus*)
13. Lesser Yellownape (*Picus chlorolophus*)
14. Grey Head woodpecker (*Picus canus*)
15. Long Tailed minivet (*Pericrocotus ethologus*)
16. Large-billed Crow (*Corvus macrorhynchos*)
17. Dusky Crag Martin (*Ptyonoprogne concolor*)
18. Red-rumped Swallow (*Cecropis daurica*)
19. Yellow-bellied Fantail (*Chelidorhynchus hypoxanthus*)
20. Grey headed Canary-Flycatcher (*Culicicapaceylonensis*)
21. Cinereous Tit (*Parus cinereus*)
22. Chestnut-bellied Nuthatch (*Sitta cinamoventris*)
23. Bar-tailed Treecreeper (*Certhia himalayana*)
24. Red-vented Bulbul (*Pycnonotus cafer*)
25. Himalayan Bulbul (*Pycnonotus leucogenys*), or white-cheeked bulbul
26. Himalayan Black Bulbul (*Hypsipetes leucocephalus*)
27. Pale-rumped Warbler (*Phylloscopus chloronotus*) or lemon-rumped warbler
28. Hume's Warbler (*Phylloscopus humei*)
29. Grey-hooded warbler (*Phylloscopus xanthoschistos*)

30. Whistler's Warbler (*Phylloscopuswhistleri*)
31. Common Tailorbird (*Orthotomussutorius*)
32. Grey-breasted Prinia (*Priniahodgsonii*) or Franklin's prinia
33. Oriental White-eye (*Zosteropsalpebrosus*)
34. Rusty-cheeked Scimitar-Babbler (*Pomatorhinuserythrognys*)
35. Jungle Babbler (*Argyastriata*)
36. Blue Whistling-Thrush (*Myophonuscaeruleus*)
37. Rufous-gorgeted Flycatcher (*Ficedulastrophia*)
38. Red-breasted Flycatcher (*Ficedulaparva*)
39. Grey Bush chat (*Saxicolaferreus*)
40. Common Myna (*Acridotherestrictis*)
41. Grey Wagtail (*Motacillacinerea*)

c. Reptiles

S.No.	SPECIES NAME	ANIMAL NAME	SCIENTIFIC NAME	Numbers
1	Reptiles	Cobra	<i>Najanaja</i>	These species are commonly found in the zoo premises however, exact number uncertain
2		Rat Snake	<i>Zamenis Longissimus</i>	
3		Russel viper	<i>Daboia russelii</i>	
4		Monitor lizard	<i>Varanus spe</i>	
5		Python	<i>Python bivittatus</i>	
6		Common trinket		
7		Himalayan trinket	<i>Orthriophishodgsoni</i>	



(P.K. PATRO)
CF/ Director Dehradun Zoo