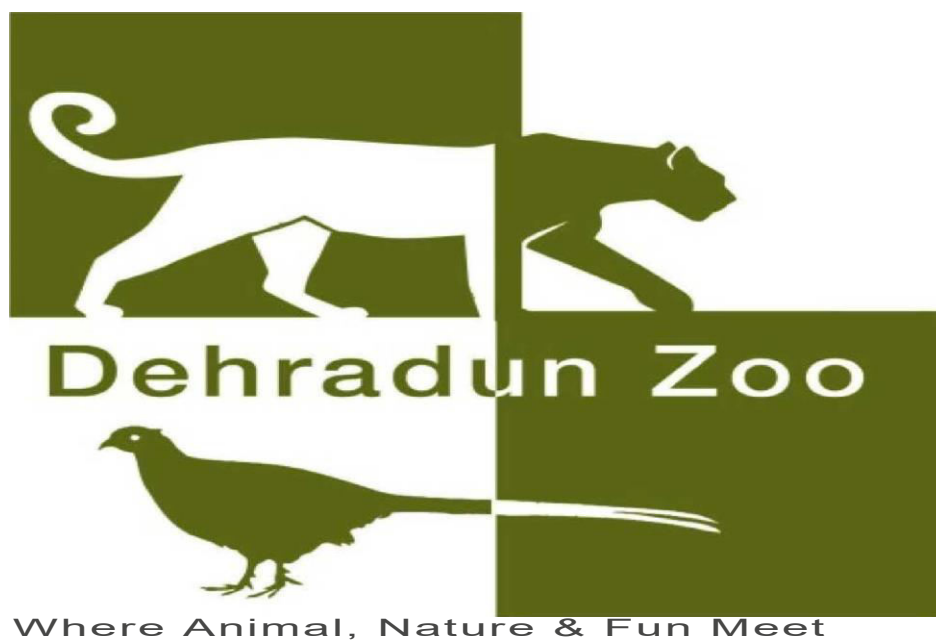


DEHRADUN ZOO



Annual Report for the year 2018-19

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1. Report of the Officer-in-charge

The year 2018-19 was a remarkable year in the history of dehradun zoo in many aspects. This year the zoo has achieved many mile stones. In this 12 months more then six lakh fifty thousand visitors visited the zoo. At the same time the revenue of the zoo has increased to 2 crores.

This year the main focus was to improve the basic infrastructures of the zoo and during this period infrastructure works such as Vulture Enclosure, Tortoise/Turtle Enclosure, Leopard Enclosure, Tiger Enclosure, Visitor Paths in front of Aquarium & Cactus Garden, Iron Railings around the gardens near Aquarium & Cactus Garden have been completed.

Despite of all limitations the zoo has maintained about 413 animals and birds of different species in healthy condition. This year 42 births, 5 death of different species animals occurred in the zoo. Besides 2 Red & Green Macaw were acquired in to the zoo population. The zoo also served as rescue centre, 27 animals were rescued by zoo. Many animal enclosures were renovated and enriched as per the requirement of the animal.

To enhance the capacity building, four persons were sent to different zoos or training on different aspects of the animal management.

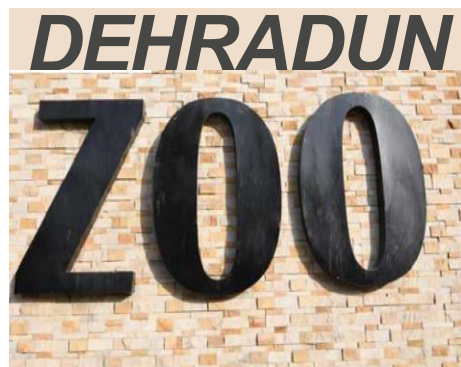
To improve visitors facilities old toilets were renovated and parking facility improved, drinking water facility provided at important locations.

Education and awareness is one of the important objective and mandate of the zoo, for which many programmes and events were organized in the zoo. An awareness programme in the zoo with the help of Waste Warriors was carried out to awake visitors to keep clean around them, where ever they go & where ever they live.

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

Many students, researchers and trainees from different institutes such as WII, FRI, BIFT etc were visited for learning the captive management of zoo 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 further 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. In past years the zoo was served as rescue centre for various species of wild animals and birds. The Malsi Deer Park was for the first time upgraded to Mini zoo by CZA under Section 28(H) of Wildlife Protection Act, 1972 by order on 19-123/93-CZA(267) (M) 450 dated 09.03.2012 for three years. The first master layout plan was approved by CZA in 2013. Initially it was managed by the malsi range of dehradun forest division, latter on for better management, a separate unit as established in year 2014. The recognition of mini zoo was extended for two years in year 2015. 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 revised master layout plan was approved in year 2016. 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 were constructed for better management and housing of 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 from 2.5 lakhs to 6.5 lakh. At present only 5 ha. out of total 25 ha. 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 institutions 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 –

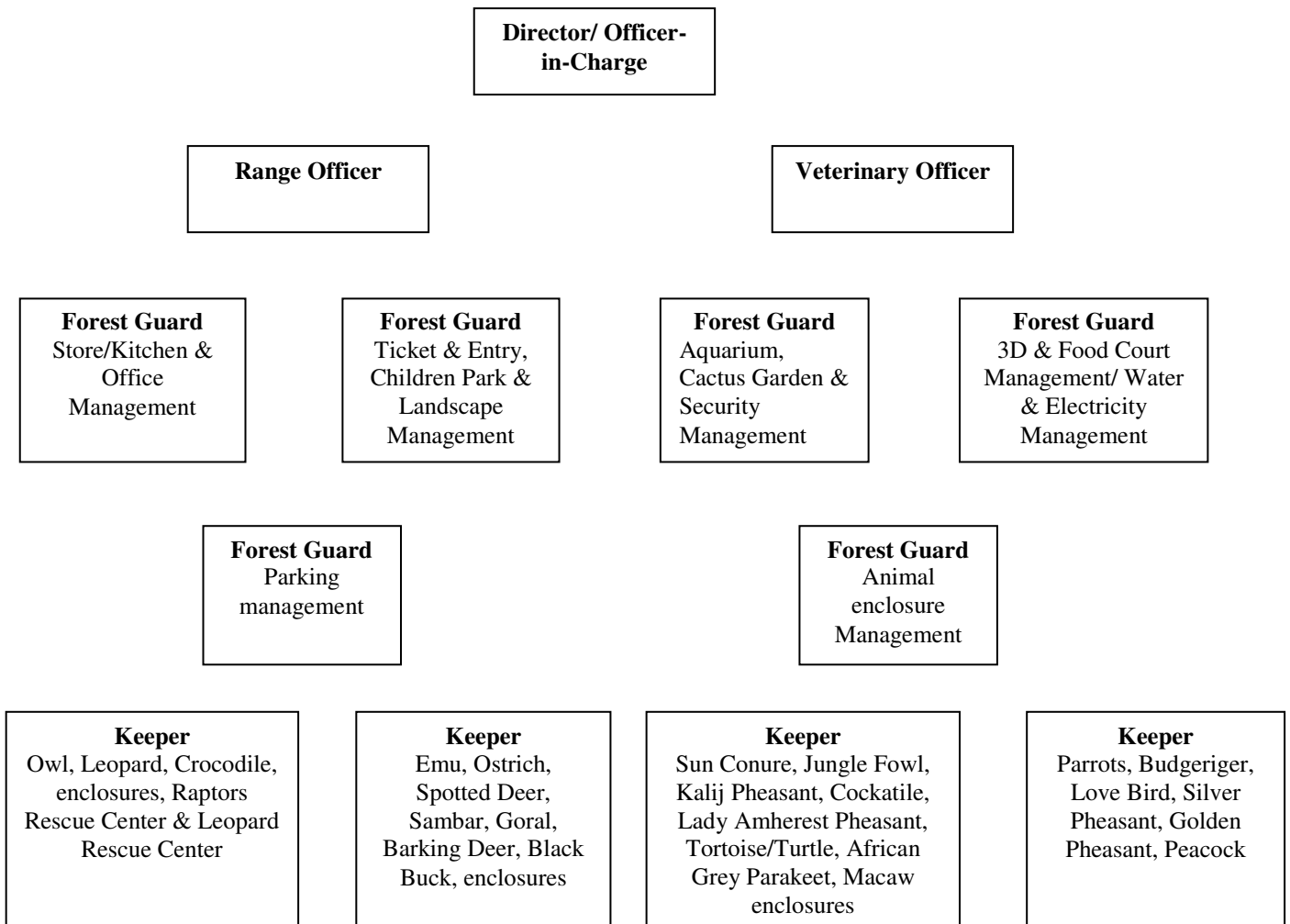
- To establish and sustain a population of physically, genetically and behaviorally healthy animals and displaying them in naturalistic ambience.
- To supplement the conservation strategies for the rare and endangered species of the Shivalik landscape by *ex-situ* conservation efforts.
- To emerge as 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	Musoorree diversion, Sinola, Mals
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 upto (Date)	31 .03.2019
11	Category of zoo	Mini Zoo
12	Area (in Hectares)	25 Ha
13	Number of Visitors (Financial Year)	Adult: 4,32,323 Children : 2,25,890 Total Indian :6,56,107 Total Foreigners :2,106 Total Visitors: 6,58,213
14	Visitors' Facilities Available in Zoo	Parking, Clock room, Pure RO drinking water, Food court, Toilets, rest sheds, sitting banches.
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 Noutiyal
	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	Musoorree 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.Vineeta Chimwal
			Mr. Manoj Chamoli
			Mrs. Asha
			Mr. Amit Anthwal
6	Zoo keeper	04	Mr. Bhagat Singh
			Mr.Munna Lal
			Mr. Rameshwer
			Mr. Sompal
7	Contractual staff	20	
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. Azmat Ali (Forest Guard)	Up keeping/ care of the wild animals	One week	Dhauladhar Nature Park, Gopalpur, District Kangra(H.P.)
2	Mr. S.P. Binjola (Forester)	Up keeping of animals	3 days	Pt G B Panth high altitute zoo, Nainital
3	Mr. Bhagat Singh Chauhan (Keeper)	Up keeping of animals	3 days	Pt G B Panth high altitute zoo, Nainital
	Mr. Bhagat Singh Chauhan (Keeper)	Up keeping/ care of the wild animals	One week	Dhauladhar Nature Park, Gopalpur, District Kangra(H.P.)
	Mr. Bhagat Singh Chauhan (Keeper)	"Northern Region Zoo Keepers Training Programme-2018"	One week	Etawah Safari Park, Etawah.
4	Mr. Rameshwer Prasaad (Keeper)	Up keeping/ care of the wild animals	3 Days	Kanpur Zoo
5	Mr. Sompal (Keeper)	Management of wild animals in captivity	5 Days	M.C. Zoological Park, Chhatbir, Punjab
6	Mr. Deepak Chauhan (Asistant Keeper)	Management of wild animals in captivity	5 Days	M.C. Zoological Park, Chhatbir, Punjab
7	Mr. Sumit Dhulia (Asistant 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.



12. Number of visitors and revenue of last six year

Year	Number of visitors	Revenue (in lakh)
2013-14	198700	23.28
2014-15	238225	25.61
2015-16	270744	40.77
2016-17	411740	76.73
2017-18	619450	198.85
2018-19	658213	211.52

12. Financial statement of financial year 2018-19

Dehradun Zoo Management Society
Dehradun Zoo Near Malsi Road Post Sinhola
Provisional Balance Sheet
As on 31.03.2019

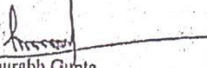
Particulars	Sch. No.	Amount (Rs.)
Sources of Funds		
Working Capital Fund		
Opening Balance	(41,54,675.18)	
Deficit during the year	(22,59,676.82)	(64,14,352.00)
Fixed Asset Capital Fund		
Opening Balance	2,06,80,320.00	
Capital expenditure incurred during the year	A 1,11,96,067.00	3,18,76,387.00
Loans		
Loan from Uttarakhand Forest Development Nigam		2,50,00,000.00
Total Rs...		<u>5,04,62,035.00</u>
Application of Funds		
Fixed Asset & CWIP		3,18,76,387.00
Current Assets		
Bank Balance		1,84,86,119.00
TDS A.Y. 2018 - 2019		1,864.00
TDS A.Y. 2019 - 2020		97,665.00
Total Rs...		<u>5,04,62,035.00</u>

Annexed to the Audit Report of Even Date

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

(Member)

Place : Dehradun
 Dated : 12.06.2019


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



Dehradun Zoo Management Society
Dehradun Zoo Near Malsi Road Post Sinhola
Provisional Income and Expenditure Account for the year ending 31.03.2019

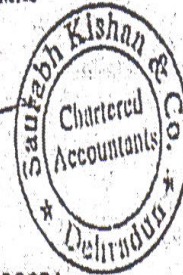
Particulars	Sch. No.	Amount
<u>Gross Receipts</u>	B	3,25,74,185.00
		<u>3,25,74,185.00</u>
<u>Expenses</u>		
Lacchiwala Nature Park Maintenance		21,29,279.00
Zoo Running / Administrative Expenses	C	86,02,847.00
Repair and Maintenance	D	34,53,553.82
Adventure Activities		4,52,280.00
Govt Share in Receipts		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)

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

Dehradun Zoo Management Society
Dehradun Zoo Near Mala Road Post Sinhola
Schedules annexed to Profit and Loss A/c
For the year ended 31.03.2019

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
		3,25,74,185.00
"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...	86,02,847.00
"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
		34,53,553.82

(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

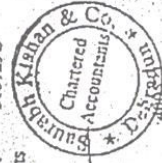
Dehradun Zoo Management Society
Schedule "A" of Fixed Assets
As on 31.03.2019

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		Total	Rate	Depreciation Amount	W.D.V. As On 31.03.2019
			Before 30.09.2018	After 30.09.2018				
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	47,303.00	-	2,45,787.00	0%	-	2,45,787.00
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. 286634

Place : Dehradun
 Dated : 12.06.2019

14. Daily feed Schedule of animals

Sl. No.	Species	Nos.	Feed item	Qty. per animal (in Kg)		Day of fasting
				Summer	Winter	
1	African Grey Parrot	2	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	5	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	22	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	3	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	4	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	4	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	20	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	2	Chicken Beef	1.000	1.000	Tuesday
			Total	1.000	1.000	
9	Eagle	4	Chicken Beef	1.000	1.000	Tuesday
			Total	1.000	1.000	
10	Leopard	2	Chicken Beef	5.000	5.000	Tuesday
			Total	5.000	5.000	
11	Crocodile	3	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	2	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	3	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	5	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	6	Gram	1.000	1.000	
			Maiz	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	
			Jaggery	0.000	0.500	
			Oil cake	0.000	0.450	
			Green grass	38.000	38.000	
			Total	41.400	42.350	
18	Spotted Deer	78	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	30	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	147	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	29	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	4	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	3	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	3	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	3	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 year	
		HS	Vaccine 2 ml		
		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	Frequen disinfet
1	Deer	Closed enclosure	Lime dust, spreading lime dust all over the captive area/ground	In the montl & Octc
			White wash of the feeding platform	First anc Monday mont
2	Leopard	Closed enclosure	2% Solution of POP and kohrsolin, dilutions are disinfectants used for washing the area	First and Monday mont
3	Birds	Closed enclosure	Spraying of bectricidal(2% Solution of POP and kohrsolin , dilutions)	Last week ■ June & Sep
			Cleaning of watrer 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 Check up
1	Mr. Bhagat Singh	Zoo keeper	04.03.2019	Nil
2	Mr. Munna Lal	Zoo keeper	04.03.2019	Nil
3	Mr. Rameshwar	Zoo keeper	02.03.2019	Nil
13	Mr. Sompal	Zoo keeper	02.03.2019	Nil
14	Mr. Deepak Chauhan	Assistant Zoo Keeper	04.03.2019	Nil
15	Mr. Sumit Dhulia	Assistant Zoo Keeper	02.03.2019	Nil

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

I. Vulture Enclosure

II. Tortoise/Turtle Enclosure

III. Leopard Enclosure

IV. Tiger Enclosure

V. Leopard Enclosure

VI. Visitor Paths Infront of Aquarium & Cactus Garden

VII. C.C.Road to Veterinary from Parking

VIII. Iron Railings around the gardens near Aquarium

& Cactus Garden

XI. C.C. road from Gate of Deer Enclosure to Leopard enclosure(Raja & Rani)

X. Brick wall with RCC Pillars in Parking.

XI. Two Galvanized water tanks each with 26,000 Ltr. water holding Capacity.

XII A new Tube-well for strengthening water supply unit of zoo.



20. Education and Awareness programmes during the year

□ 26.04.2018 :- A group of Doctors visited the zoo to study wildlife.



□ 29.04.2018:- An educational tour of a group of 30 students from Primary & Junior High School, Banoli, District Chamoli visited the zoo.

□ 07.05.2018:-A group of students with special need/developmental disabilities from Latika Roy Memorial Foundation, 42/2, Vasant Vihar, Dehradun visited the zoo, special guidance was provided to these students.



- 10.06.2018 :- A DDR batch of FRO from FTI Haldwani visited the zoo to study wild life.
- 29.06.2018 :- A group of 50 Doctors from Wildlife Institute of India visited the zoo to study wildlife.
- 07.09.2018:- An educational tour of a group of Forestry Students from H.N.B.G.U. Srinagar, Uttarakhand visited the zoo.
- 15.09.2018:-A group of 48 Regular Forest Guard trainees From Forest Training institute Chail, (H.P.) visited the zoo to study wildlife.
- 20.09.2018:- A group 28 of Foresters From FTI Haldwani to study wildlife.
- 26-09-2018:- A group of IFS Officers visited the zoo to discuss and study “Zoo Management” & “Plastic Management”.
- 26.09.2018:- A group of 49 Forest Guards From FTI & RC Sundernagar (H.P) visited the zoo to study wildlife.
- 26.09.2018:- An educational tour of a group of 40 students with 4 Teachers from Kendriya Vidyalaya Birpur, Dehradun visited the zoo.
- 26.09.2018:- Ecotourism and wildlife healthcare management study training at Dehradun zoo for B.Sc Forestry semester VII students of UCAS, Uttaranchal University, Dehradun.
- 02.10.2018:- Training on Zoo Management was given to a group of B.Sc. Students from H.N.B.G.U. Srinagar, Uttarakhand.
- 21.10.2018:- A group of Regular Forest Guard Trainee visited the zoo from Rampur Mandi to study wildlife.
- 24.10.2018:- A group of Divisional Forest Officers & PFS Officers visited the zoo to study “Zoo Management”.
- 24.10.2018:- An educational tour of a group of students from Amulay Jeeven Vikas Dehradun visited the zoo.
- 25.10.2018:- Training on Zoo Management was given to a group of B.Sc. Forestry Students from H.N.B.G.U. Srinagar, Uttarakhand.
- 26.10.2018:- An educational tour of a group of forestry students to study ex-situ management of wildlife from Dolphin P.G. Institute, Suddhowala, Dehradun, visited the zoo.



□ 26.10.2018:- 26 Forest Guard Trainees from training institute Jainti, Almora Visited the zoo to study wildlife.



□ 01.11.2018:- Field Training on Zoo Management was given to a group of B.Sc. Forestry Students from H.N.B.G.U. Srinagar, Uttarakhand.

□ 02.11.2018:- An educational group of students from Grace Academy, New Cantt Road, Dehradun visited the zoo.

□ 09.11.2018:- A team of IFS Officers visited the zoo to study Carbon emission.

□ 13.11.2018:- An educational group of students from Mohyal Public School, Haridwar visited the zoo.

□ 29.11.2018:- FRO Trainees from Kundal Academy of Development Administration and Management (Forest) Kundal, Tal Palus, District Sangli, Maharashtra visited the zoo to Study wildlife.



□ 29.11.2018:- A group of Trainee Scientists, CTO, ACTO, ICFRE Dehradun visited the zoo to study wildlife.

□ 20.12.2018:- A group of 17 Forester trainees visited the Zoo to study wildlife.

□ 20.12.2018:- An educational group of students from Ganga Darshan Foundation (U.K.) Jyoti Vihar, Dehradun visited the zoo.

□ 20.12.2018:- A group of 50 Children with disabilities with 20 care-takers from Latika Roy Foundation, Vasant Vihar, Dehradun visited the zoo

□ 20.12.2018:- An educational group of Primary students from Govt. Primary School Dharoj, I.T. Park, Dehradun visited the zoo to study Habit and Habitat of wild animals.

□ 01.01.2019:- A group of 18 Officer Trainees from WII visited the zoo to study Zoo Management & Wildlife.



□ 03.01.2019:- Field Training on Zoo Management was given to a group of B.Sc. Forestry Students.



□ 17.01.2019:- A group of Regular Forest Guards From FTI Chail, (H.P.) visited the zoo to learn Zoo Management & study Wildlife.

□ 17.01.2019:- Field Training on Zoo Management was given to a group of B.Sc. Forestry Students of UCAS, Uttaranchal, University, Dehradun.



□ 30.01.2019:- An educational group of 52 students from GIC Gangabhogpur, Yamkeshwar, Pauri, Garhwal visited the zoo to study Habit and Habitat of wild animals.

□ 05.02.2019:- An educational group of 188 students from GIC Daunk(Saklana), Tehri, Garhwal visited the zoo to study Habit and Habitat of wild animals.



□ 07.02.2019:- A batch of Officer trainees from Central Academy & Forest Education, Kurseong, Darjeeling visited the zoo to study wildlife in captivity.

□ 10.02.2019:- A batch of 20 Foresters from FTI Haldwani, visited the zoo to study Zoo Management and Wildlife.



□ 12.02.2018:- An educational group of 55 students from GHSS, Pajcugaon, Tehri, Garhwal visited the zoo to study Habit and Habitat of wild animals.

□ 12.02.2019:- An educational group of 69 students from GIC Mohan chatti, Pauri, Garhwal visited the zoo to study Habit and Habitat of wild animals.



□ 13.02.2019:- An educational group of 95 students from GIC Nainbag, Tehri, Garhwal visited the zoo to study Habit and Habitat of wild animals.

□ 14.02.2019:- An educational group of 113 students from GIC Kalsi, Dehradun visited the zoo to study Habit and Habitat of wild animals.



□ 24.02.2019:- A batch of FRO Trainees from Gujarat, headed by Officers from FRI, Dehradun visited the zoo to study Zoo Management & Wildlife.



□ 02.03.2019:- An educational group of 46 students from Govt. New Forest Primary School, FRI visited the zoo to study Habit and Habitat of wild animals.

□ 02.03.2019:- An educational group of 22 students from Govt. Primary School, Thakurpur, Sahaspur, Dehradun visited the zoo to study Habit and Habitat of wild animals.



□ 02.03.2019:- An educational group of 46 students from Govt. Primary School, Suddhowala, Sahaspur, Dehradun visited the zoo to study Habit and Habitat of wild animals.

□ 03.03.2019:- A batch of Forest 19 Guards from FTI Jainti, Almora visited the zoo to study wildlife and Zoo Management.

□ 08.03.2019:- A Media Training Class from FRI visited the zoo to study Zoo Management.



□ 08.03.2019:- An educational group of students from Govt. Primary School, Deepnagar, Dehradun visited the zoo to study habit and habitat of wild animals.



- 09.03.2019:- A batch of 25 Forest Guards from FTI Haldwani visited the zoo to study Zoo Management & Wildlife.



- 09.03.2019:- An educational group of 53 students from Govt. Primary School, Deepnagar, Ajabpur Kla, Dehradun visited the zoo to study Habit and Habitat of wild animals.

- 20.03.2019:- An educational group of Pre-primary students from The Asian School, Vasant Vihar, Dehradun visited the zoo to enrich and familiarize the students with the wild life.

- 23.03.2019:- An educational group of 30 students from Govt. Model Primary School Bareth, Chinyalisaur, Uttarkashi visited the zoo to study Flora and Fauna & Habit and Habitat of wild animals.

- 23.03.2019:- An educational group of 60 students students with special need/developmental Disabilities, Exposure visit on Development Block Level from education department, Raipur Dehradun visited the zoo to study Flora and Fauna & Habit and Habitat of wild animals.

- 23.03.2019:- A batch of 48 Forest Guards from FTI Sundernagar,(H.P.) visited the zoo to study Zoo Management & Wildlife.



- 30.03.2019:- A batch of 47 Forest Guards from Forest Guard Training Institute Rampur Mandi visited the zoo to study Zoo Management & Wildlife.



21. Important Events and happenings

- 22.05.2018:- International Biodiversity Day celebration, on this occasion students from different schools were called and a drawing competition was conducted to increase the awareness on Biodiversity among them.



- 05.06.2018:- World Environment Day celebration, on this occasion students from different schools were called and a drawing competition was conducted in the zoo to make all aware of the importance of environment.



- 21.07.2018:- "Harela celebration" in the zoo, on this occasion our chief guest, Minister of Forest Department, Uttarakhand Dr. Harak Singh Rawat started the tree plantation ceremony, many trees were planted in the zoo premises by many forest officers, other guests and zoo staff, after this plants and seeds of different varieties were distributed to the visitors present in the zoo.



- 22.07.2018:- National Moth Week was celebrated in the zoo. A night Camp was organized to find out the new species of moths in the area.



- 02.10.2018:- Wildlife-Week celebration(02nd to 8th October), on this occasion many competitions were conducted in the zoo, such as Mehndi, Debate, Photography, Quiz, Slagon and Drawing competition. T-shirts & caps with prints of animals etc were distributed to interact people with wildlife. Puppet show was organized to created awareness among people for saving wildlife. A jungle walk for all Forest officers present with their families Headed by Mr. Jai Raj, PCCF Uttarakhand (Hoff) was also organized.



- 05.10.2018:- Cactus Garden Inauguration by Dr. Harak Singh Rawat Forest Minister(U.K.) in preence of Mr. Jai Raj, PCCF Uttarakhand (Hoff) and other Forest officets.



- 19.01.2019:- An awareness program in the zoo with the help of Waste Warriors Was carried out to awake visitors to keep clean around them, where ever they go & where ever they live.



- 24.02.2019:- Dehradun zoo dedicated this day as a tribute to “Pulwama Martyrs”, we made an effort to facilitate the families of Pulwama martyrs, through a humble contribution by conducting different programs like “Science with Fun”, Open Music, Clay Modelling, Bamboo crafr making, LED bulb making, Miracle with science, Self defence training, Painting, Photography exhibition Puppet Show etc. in the zoo and the whole revenue collected on this day was donated into the account of C.R.P.F. for their welfare.



22. Research Work carried out and publications

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

23. Conservation Breeding Programme of the Zoo

As this a newly established Zoo as such there is no conservation breeding programme has been carried out by Zoo.

24. Animal acquisition / transfer / exchange during the year

In year 2018-19 there was no transfer for exchange of any animal species in the Zoo. However 27 animals, 02 tortoise, 10 turtles, 01 barking deer, 6 plum headed parakeet, 8 Owls rescued, and 2 Red and Green Macaw (1:1) acquired and kept in the Zoo.

25. 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	25.04.2018	One Brown wood Owl (U)	Mr. Narendra Sood, Raj Bhawan, Dehradun,		-	New born owl grown up in zoo being not able to catch its prey and feed on its own.
2	28.04.2018	One Brown wood Owl (U)	Mr. Manan Tiwadi Mohakampur, Lower Nehrugram, Dehradun by private individual		-	New born owl grown up in zoo being not able to catch its prey and feed on its own.
3	05.05.2018	One Brown wood Owl (U)	Mr. Narendra Chamoli Malsi Range, Dehradun		-	New born owl grown up in zoo being not able to catch its prey and feed on its own.
4	12.05.2018	Six Plum headed parakeet (U)	Guniyal Gaon, Dehradun, by private individual			Young ones were not able to fly properly, now habitual of easy feeding.
5	16.06.2018	One Barking Deer (F)	Mr. Darshan Gusain (Forester), Raipur Range, Mussoorie Forest Division		-	New born baby grown up in zoo being habitual of easy feeding and live in herd.
6	20.06.2018	One Brown wood Owl (U)	Mrs. Sheetal Chhetri, Raipur, Dehradun		-	New born owl grown up in zoo being not able to catch its prey and feed on its own
7	07.07.2018	One Tawny Fish Owl (U)	Mr. Savla Ram, (Forester) Raipur Range, Mussoorie		-	It had Injury in the wing but now not able to fly properly.
8	19.07.2018	One Owlet Spotted (U)	Mr. Ramesh Rathor, (Forester) Asharodi Range, Dehradun		-	New born owlet grown up in zoo being not able to catch its prey and feed on its own
9	19.07.2018	One Owlet Spotted (U)	Mr. Yashvant Rawat, (Driver) Raipur Range, Mussoorie		-	New born owlet grown up in zoo being not able to catch its prey and feed on its own
10	25.07.2018	One Owlet Spotted (U)	Range Officer Asharodi Range, Dehradun		-	New born owlet grown up in zoo being not able to catch its prey and feed on its own

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
11	12.08.2018	One, Tortoise Elongated (U)	Mr. Nitin Chhetri, (Forest Rescue Team)			
12	18.08.2018	One, Tricarinate Hill Turtle (U)	Range Officer, Jhajra Range, Dehradun			
13	24.08.2018	One, Tricarinate Hill Turtle (U)	Mr. Riru Raj Uniyal, Ajabpur Kla, Dehradun			
14	20.09.2018	One, Tricarinate Hill Turtle (U)	Mr. Sandeep Negi, Haripur Navada, Dehradun			
15	03.10.2018	One, Tortoise Elongated (U)	Mr. Ishwar Singh & Mr. Pradeep Rastogi, Asharodi Range, Dehradun			
16	09.10.2018	Five, Tricarinate Hill Turtle (U)	Mr. Bheem Raj Bairwan, (Forester) Shivpuri Range, Narendranagar Forest Division			
17	26.10.2018	Two, Tricarinate Hill Turtle (U)	Mr. Abhishek Sharma, 336, Khurbura, Kauli Road, Dehradun			

26. Annual Inventory of animals

Dehradun Zoo Annual Inventory Report 2018-19

Dehradun Zoo	Uttarakhand	2018-19	01 April 2018 to 31 March 2019																				
S.No.	SPECIES NAME	ANIMAL NAME	SCIENTIFIC NAME	OPENING STOCK As on 01-04-2018				BIRTHS			ACQUISITIONS by Rescue			DISPOSALS			DEATH			CLOSING STOCK As on 31.03.2019			
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	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3
2	Bird	Pheasant Kalij (Albino)	Lophura leucomelanos	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4
3	Bird	Vulture Indian	Gyps indicus	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
4	Mammal	Black Buck (Albino)	Antelope cervicapra	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
5	Mammal	Leopard (Panther)	Panthera pardus	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
6	Reptile	Crocodile Marsh (Mugger)	Crocodylus palustris	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3
7	Reptile	Turtle Fresh Water/Indian Soft-shelled	Lissemys punctata punctata	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
8	Reptile	Turtle Indian Black	Melanochelys trijuga	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
9	Reptile	Turtle Indian Roofed	Pangshura tecta	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
Total of Endangered Species				6	7	8	21	0	0	0	0	0	0	0	0	0	0	1	0	6	6	8	20
Species (Schedule III and IV)				OPENING STOCK As on 01-04-2018				BIRTHS			ACQUISITIONS by Rescue			DISPOSALS			DEATH			CLOSING STOCK As on 31.03.2019			
				M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
10	Bird	Eagle (Unidentified)		0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
11	Bird	Fowl Jungle Red	Gallus gallus	1	3	2	6	0	0	0	0	0	0	0	1	2	0	0	0	1	2	0	3
12	Bird	Owl Brown Wood	Strix leptogrammica	0	0	2	2	0	0	0	0	0	4	0	0	0	0	0	0	0	0	6	6
13	Bird	Owlet Spotted	Athene brama	0	0	1	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	4	4
14	Bird	Owl Tawny Fish	Ketupa flavipes	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1
15	Bird	Parakeet Alexandrine	Psittacula eupatria	5	5	0	10	0	0	0	0	0	0	0	0	0	0	0	0	5	5	0	10
16	Bird	Parakeet Rose Ring	Psittacula krameri	4	5	3	12	0	0	7	0	0	0	0	0	0	0	0	0	4	5	10	19
17	Bird	Pheasant Golden	Chrysolophus pictus	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3

18	Bird	Plum-headed Parakeet	Psittacula cyanocephala	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6	6	
19	Mammal	Deer Barking (Kakar)	Muntiacus muntjak	4	5	0	9	1	1	0	0	1	0	0	0	0	0	0	5	7	0	12		
20	Mammal	Deer Sambar	Rusa unicolor	1	2	0	3	1	1	0	0	0	0	0	0	0	0	2	3	0	5			
21	Mammal	Deer Spotted (Chital)	Axis axis	33	43	0	76	5	0	0	0	0	0	0	0	1	2	0	37	41	0	78		
22	Mammal	Goral	Naemorhedus goral	3	2	0	5	1	0	0	0	0	0	0	0	0	0	4	2	0	6			
23	Reptile	Tortoise elongated	Indotestuda elongata	0	0		1	0	0	0	0	2	0	0	0	0	0	0	0	0	3	3		
24	Reptile	Turtle (Unidentified)		0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1		
25	Reptile	Tricarinate hill turtle	Melanochelys tricarinata	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	10	10		
			Total of Species (Sch III and IV)	52	67	14	133	8	2	7	0	1	26	0	1	2	1	2	0	59	67	45	171	
Exotic Species				OPENING STOCK As on 01-04-2018				BIRTHS			ACQUISITIONS			DISPOSALS			DEATH			CLOSING STOCK As on 31.03.2019				
				M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T	
26	Bird	Budgeriger	Melopsittacus undulatus	50	50	22	122	0	0	25	0	0	0	0	0	0	0	0	0	0	50	50	47	147
27	Bird	Cockatiel	Nymphicus hollandicus	10	10	2	22	0	0	0	0	0	0	0	0	0	0	0	0	10	10	2	22	
28	Bird	Conure Sun	Aratinga solstitialis	2	3	0	5	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	5	
29	Bird	Emu	Dromaius novaehollandiae	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	
30	Bird	Love Birds	Agapornis	14	16	0	30	0	0	0	0	0	0	0	0	0	0	0	14	16	0	30		
31	Bird	Macaw Blue & Yellow	Ara ararauna	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2		
32	Bird	Macaw Red & Green	Ara chloroptera	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	2		
33	Bird	Ostrich	Strithio camelus	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2		
34	Bird	Parakeet African Grey	Pistacus erithacus	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2		
35	Bird	Pheasant Lady Amherst	Chrysolophus amherstiae	2	2	0	4	0	0	0	0	0	0	0	0	0	1	0	2	1	0	3		
36	Bird	Pheasant Silver	Lophura nycthemera	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4		
			Total Exotic Species	84	88	24	196	0	0	25	1	1	0	0	0	0	1	0	85	88	49	222		
			Grand Total	142	162	46	350	8	2	32	1	2	26	0	1	2	1	4	0	150	161	102	413	
End of Report																								

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	Lady Amherst Pheasant	Chrysolophus amherstiae	Female	19.04.2018	-
2	Black Buck (Albino)	Antilope cervicapra	Female	25.05.2018	Acute Ruminal Tympany
3	Spotted Deer	Axis axis	Female	23.12.2018	Pneumonia
4	Spotted Deer	Axis axis	Female	25.01.2019	Pneumonia
5	Spotted Deer	Axis axis	Male	30.03.2019	Respiratory Distress

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 wildlife.	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 by the Officer-in-charge of the Zoo
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)	o veterinarian see s 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 master plan is under preparation and will be submitted within 3 mont 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 for 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 are 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 signboards 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

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
31	10.5(6)	Number of field officer (front line) for cleaning food, water, upkeep etc. is too inadequate, should be increased, may be through outsourcing basis.	Three months	9.3.2012	Complied with
32	10.5(7)	Staff should carry proper observation on the animals showing dullness etc.	With immediate effect	9.3.2012	Complied with
33	10.5(8)	Written schedule of vaccination and de-worming should be prepared and displayed at the enclosure.	Immediate	14.8.2015	Complied with
34	10.5(9)	The Deer park operator should made arrangement for medical checkup of staff handling animals, for screening against zoonotic diseases every six months.	With immediate effect	23.09.2009	Complied with
35	10.5 (10)	The zoo should maintain records of the observation and social behavior, health status, feed intake and treatment. Animal keeper's diary, daily reports and history cards and treatment cards should be maintained in the format as prescribed by CZA.	Immediate	14.8.2015	Complied with

6. Veterinary and infrastructure facilities

36	10.6(1)(a)	The veterinary health care facility almost non-existent in the zoo.	Three months	9.3.2012	New hospital has been constructed
37	106(1)(b)	The zoo veterinary hospital should have basic diagnostic facilities and comprehensive range of drugs.	Immediate	14.8.2015	Complied with as per the requirement
38	10.6(3)	The zoo should have a post-mortem room in the location as approved in the layout plan.	Six months	14.8.2015	Incorporated in the hospital
39	10.6(3)	The zoo should have isolation and quarantine facilities located away from hospital .	Immediate	14.8.2015	Under construction

9. Acquisition and breeding of animals

40	10.9(1)	The park should keep only such number of spotted deer keeping in view of the carrying capacity of the existing animal enclosures.	Three months	23.09.2009	Complied with
41	10.9(4)	The Black buck, turtle, Red Jungle fowl and Sambar have to be paired on priority basis and if unable to pair, the zoo should transfer the animals or give on breeding loan to any other zoo in accordance with the norms specified by CZA.	Three months	14.8.2015	Except black buck other animal were paired.
42	10.9(8)	The Park shall maintain separate herd sheet for spotted deer.	With immediate effect	23.09.2009	
43	10.9(9)	The Deer Park should take up immediate safeguard against uncontrolled growth in the population of spotted deer by implementing appropriate population control measures.	With immediate effect	23.09.2009	Under consideration

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
11. Education and outreach activities					
44	10.11(1)	Zoo should educate visitors about significance of wildlife conservation. Volunteers may be engaged for the purpose and to control visitors.		9.3.2012	Under consideration
12. Visitors' facilities					
45	10.12(1)	Wheel chairs for the physically challenged persons should be made available in the park.	Three months	23.09.2009	The concerned facility for physically challenged persons is not available right now.
46	10.12(1)	Toilet, drinking water point and rest sheds have to be provided in the park.	Three months	23.09.2009	Complied with
47	10.12(2)	First-aid equipments including anti- venom should be made available in the park.	Three months	23.09.2009	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	46
Total				49

b. Birds

During the great backyard bird counting celebration held in the Dehradun zoo premises on dated 19.02.2018, about 41 species of birds cited and identified by experts. The details of the counts are as follows.

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

31. Grey-breasted Prinia (*Prinia hodgsonii*) or Franklin's prinia
32. Oriental White-eye (*Zosterops palpebrosus*)
33. Rusty-cheeked Scimitar-Babbler (*Pomatorhinus erythrogeus*)
34. Jungle Babbler (*Argya striata*)
35. Blue Whistling-Thrush (*Myophonus caeruleus*)
36. Rufous-gorgeted Flycatcher (*Ficedula strophias*)
37. Red-breasted Flycatcher (*Ficedula parva*)
38. Grey Bush chat (*Saxicola ferreus*)
39. Common Myna (*Acridotheres tristis*)
40. Grey Wagtail (*Motacilla cinerea*)

a. Reptiles

S.No.	SPECIES NAME	ANIMAL NAME	SCIENTIFIC NAME	Numbers
1	Reptiles	Cobra	<i>Naja naja</i>	These species are commonly found in the zoo premises however, exact number uncertain
2		Russel viper	<i>Daboia russelii</i>	
3		Monitor lizard	<i>Varanus spe</i>	
4		Python	<i>Python bivittatus</i>	
5		Common trinket		
6		Himalayan trinket	<i>Orthriophis hodgsoni</i>	
Total				


(P.K. Patro)
 Director
 Dehradun Zoo