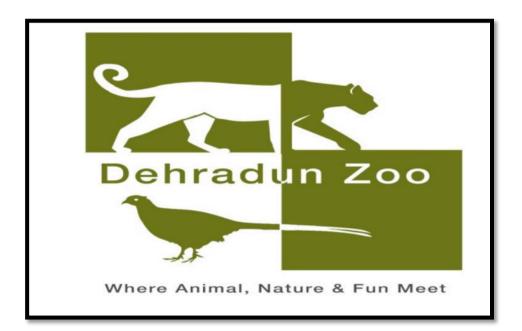
Dehradun Zoo

Annual Report for the year of 2021-22



Malsi Dehradun, Uttarakhand

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1. Report of the Officer-in-charge

The year 2021-22 was a tough as well as remarkable year for Dehradun zoo. The back bone of tourist places was broken by the out-break of Covid-19 all over the world. Beside the world-wide immense effects of spread of Covid-19, Dehradun zoo could stand still up-right due to proper implementation of safety features and strictly following all the guidelines of CZA and Health ministry of India and the guidelines issued by the State govt. A great come-back is seen in the increasing graph of tourists visiting Dehradun zoo. This year the zoo has achieved many mile stones. In these 12 months zoo remained completely closed for tourists for about two and a half month due to Covid-19 guidelines of the CZA, the State and the Centre government. In spite of so many restrictions this year more than four lakh eighty nine 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 animal upkeep & hygiene, basic infrastructures and visitor facilities with better hygiene and sanitization. Despite of all limitations the zoo has maintained about 458 animals and birds of different species in healthy condition. Zoo has registered 25 births, 17 deaths of different species of animals this year. The zoo also instrumental for treatment of 21 rescued animals. Many animal enclosures were renovated and enriched as per the requirement of the animal.

For capacity building, we used to send our staff to different zoos for training but in the last two Years these trainings were restricted due to Covid-19 pandemic. To enhance the knowledge of the zoo staff and animal keepers, different animal experts were invited in the zoo on different occasions. A dedicated veterinarian has been posted in the zoo. A snake- specialist is also appointed on MoU basis. The zoo keepers and supporting staff are also trained. To improve visitor's facilities beside rain/sun sheds, sitting benches at different places under trees and in sunny areas are placed for shade and warmth. R.O. drinking Water facility near Snake house & Aquarium is developed and visitor path & parking facility is improved.

"Education & awareness" is one of the important objective and mandate of the zoo, for which many programs and events on animal awareness and waste management were organized in the zoo. Awareness program with the help of Waste Warriors was carried on importance of dry waste management (Re-use, Recycle & Reduce), sanitation and cleanliness. Animal awareness programs in co-ordination with Uttarakhand Science and Education Centre (USERC) & Matty Organization, Dr. Rajat Bhargava (BNHS) Mumbai and others were also organized.

The guidelines of Covid-19 were strictly implemented in Dehradun Zoo. Important events in accordance with 'Aazadi Ka Amrit Mahotsav', such as Biodiversity Day (Awareness on social media), World environment day (Awareness on social media), Harela, Wildlife week, World wildlife day, Earth Day, World Pangolin Day, Sparrow Day, World Forestry Day and other important days were celebrated in online /offline mode in Dehradun zoo. Different programs like "Science with Fun", Puppet Show, etc. were organized to create an idea of cleanliness, awareness and interest, for conservation to co-existence among people. Many students, researchers and trainees from different institutes such as FRI, WII, BIFT, Dolphin Institute Dehradun, Birsa Agricultural University, Ranchi, CASFOS Burnihat, etc. visited the zoo to learn the captive management of animals, and zoo management. The events such as great backyard bird counting, national moth day was organized in the zoo. During this period many dignitaries from the state and outside the state visited the zoo. This year fifth meeting of the governing body Dehradun Zoo Management Society was conducted on dated 27.10.2021 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 38(H) of Wildlife (Protection) Act, 1972 by order No. 19-123/93-CZA (267) (M) 450 dated 09.03.2012. The first master layout plan was approved by CZA on dated 11.06.2013, F.No.

19-123/93-CZA(267)(Vol. I)(M)/3322, 14.08.2013 and the revised master layout plan was approved by CZA on dated 11.02.20216, 19-123/93-CZA(267)(Vol. I)(AK)/247/2016. Earlier it was a part of 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 government of Uttarakhand in year 2016 and registered under society registration act



1860. In December 2017 separate director was posted in the zoo for independent management of zoo. In Year 2017 the management society received the income tax exemption under section 12 and 80 G of income tax act. At first the zoo was evaluated in year 2015 and valid up to 10th

August 2017, second evaluation was in 2018 and valid up to 22.03.2019, third evaluation was conducted on 17th and 18th Feb 2020 and extended from March 2019 to 19th August 2021. Next evaluation is proposed to be in April 2022.

Over the years the basic infrastructures were improved, many old enclosures were renovated and new ones were 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 theatre Owere created for visitors. Cactus Garden was established and a Snake House was also created for visitors. A separate veterinary Doctor was posted in the Zoo and a snake expert was also appointed on MoU. Basic healthcare facility was created for better animal healthcare. Visitor paths are made obstacles-free and visitor friendly. Availability of wheel chairs for physically challenged visitors. Insured pure R.O. drinking water available at 3 different points -starting, middle and end for tourist. Clean washrooms with proper sanitation facility at three points in zoo. Availability of First aid. Beside the world-wide immense effects of spread of Covid-19, Dehradun zoo could stand still up-right due to proper implementation of safety features and strictly following all the guidelines of CZA and Health ministry of India and the guidelines issued by the State govt. A great come-back is seen in the increasing graph of tourists visiting Dehradun zoo Due to all these improvements the number of visitors increased to about 4.89 lakh. Despite of all limitations the zoo has maintained about 458 animals and birds of different species in healthy condition. At present only 5 Ha. out of total 25 Ha. area of the zoo is open for the visitors. After completion of the expansion plan all 25 Ha. area will be open for the visitors of zoo.

3. Vision

The vision of Dehradun zoo is as follows: -

- □ 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 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 -

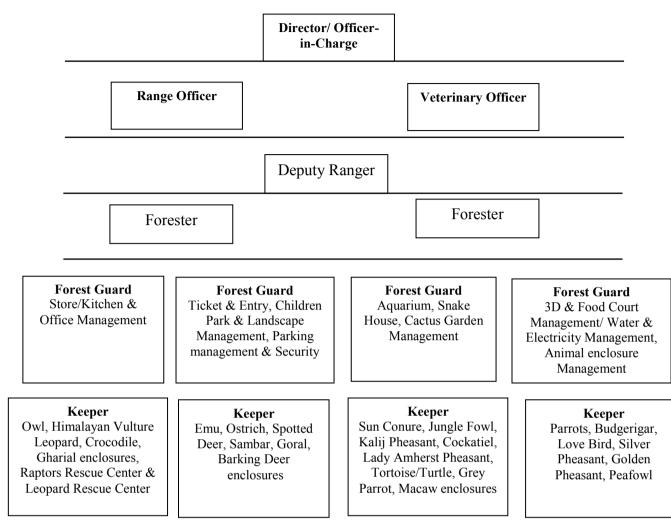
- □ To establish and sustain a population of physically, genetically and behaviorally healthy animals and displaying them in naturalistic ambience.
- □ To supplement the conservation strategies for the rare and endangered species of the Shiwalik landscape by *ex-situ* conservation efforts.
- □ To emerge as a center for educating, motivating and spreading the message of wildlife and biodiversity conservation to the public.
- To act as a rescue and transit center 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	New Mussoorie Road, PO-Sinola, District Dehradun, Uttarakhand, India. Pin code 248003				
4.	State	Uttarakhand				
5.	Telephone Number					
6.	Fax Number					
7.	E-mail address	zoodehradun@gmail.com				
8.	Website	www.dehradunzoo.org				
		Airport: Joly grant- 45 km				
9.	Distance from nearest	Railway Station: Dehradun -15 km				
		Bus Stand: ISBT- 20 Km				
10.	Recognition Valid up to (Date)	19.08.2021				
11.	Category of zoo	Mini Zoo				
12.	Area (in Hectares)	25 Ha.				
		Adult: 3,96,591				
		Children:92,775				
13.	Number of Visitors (Financial Year)	Total Indian:,4,88,877				
		Total Foreigners:489				
		Total Visitors: 4,89,366				
14.	Visitors' Facilities Available in Zoo	Parking, Clock room, Pure RO drinking water, Food court, Toilets, Rest Sheds, Sitting benches, Wheel chairs.				
15.	Weekly Closure Day of the Zoo	Monday				

S.No.	Particulars	Information
	Management Personnel of	f the zoo
	Name with designation of the Officer in-charge	Prasana Kumar Patro
	Name of the Veterinary Officer	Dr. Rakesh Nautiyal
16.	Name of the Curator	Mr. Mohan Singh Rawat
10.	Name of the Biologist	-
	Name of the Education Officer	-
	Name of the Compounder/ Lab Assistant	-
	Owner / Operator of th	e Zoo
17.	*Name of the Operator	Director Dehradun Zoo, Dehradun Zoo Management Society, Uttarakhand Forest Department, Government of Uttarakhand
18.	Address of the Operator	New Mussoorie Road, PO-Sinola, District Dehradun, Uttarakhand, India. 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

SI.	Designation	Number of	Names of the incumbent
No.	Designation	Sanctioned Posts	Numes of the meansent
1	Director	01	Mr. P K Patro
2	Range officer/ curator	01	Mr. Mohan Singh Rawat
3	Veterinary Officer	01	Dr. Rakesh Nautiyal
4	Deputy Ranger	01	Mr. Vinod Kumar Lingwal
5	F oundary	02	Mr. Charan Singh
	Forester	02	Mrs. Asha
6	Forest guard	04	Mrs. Pryianka Madhwal (Bhatt)
			Mr. Manoj Chamoli
			Mrs. Vineeta Chhimwal
			Mr. Amit Anthwal
7	Zoo keeper	04	Mr. Bhagat Singh
			Mr. Munna Lal
			Mr. Rameshwar
			Mr. Sompal
8	Contractual staff	24	
9	Security staff (PRD)	07	

9. Capacity Building of zoo personnel

SI.	Name and	Subject matter of Training	Period	Name of the Institution where
No.	designation of the		of	the Training attended
	zoo personnel		Training	
1	Mr. Bhagat Singh Chauhan (Keeper)	Up keeping of animals	3 days	Pt G B Pant High Altitute zoo, Nainital
		Up keeping/ care of the wild animals	One week	Dhauladhar Nature Park, Gopalpur, District Kangra (H.P.)
		"Northern Region Zoo Keepers Training Programme-2018"	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 Asistant Keeper (Contractual)	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

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
2019-20	615317	203.40
2020-21	266035	116.31
2021-22	489366	207.15

13. Financial statement of financial year 2021-22

Balance	Sheet	As on	31.03	.2022
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	Particulars	Note	31 March 2022	31 March 2021
1	EQUITY AND LIABILITIES	110.00		
1	Owners' Funds			
(a)	Working Capital Fund		-6,44,07,188	-5,36,57,728
223	Fund Accumulated/Set Apart	2		95,34,901
(b)	Reserves and surplus	3	12,92,55,602	9,99,62,904
			6,48,48,414	5,58,40,077
2	Non-current liabilities			
(a)	Long-term borrowings	4	6,68,35,000	6,68,35,000
	- I de la companya de		6,68,35,000	6,68,35,00
	Total		13,16,83,414	12,26,75,07
	1252.001	-		
Π.	ASSETS			
Ť	Non-current assets			
(a)	Property, Plant and Equipment and Intangible assets			
(1)	Fixed Asset and CWIP	7	12,92,55,602	9,99,62,90
6)	Other non-current assets	5	97,665	1,42,45
			12,93,53,267	10,01,05,35
2 C 1	Current assets		and the second second	
a) (Cash and bank balances	6	23,30,147	2,25,69,72
			23,30,147	2,25,69,72
7	Total	-	13,16,83,414	12,26,75,07
	Mut		Annexed to the Audit R	
(Member) सचिव/निदेशक	F	or M/s. Saurabh Kisha	n & Comnany
	देहरादून जू प्रबन्धन संस्था. मालसी (जूर्मराखण्ड)		Firm Registration No.	
	मालसी (जर्मरारागढ)		Chartered Accountants	
			1 /5	22
			1 Steam	10/ 400
			Ano Course	Sping
р	lace : Dehradun	4	The factor	1.
	ated : 19th September 2022		Saurabh Gupta	200
			IC.A. Membership No. 400	10
UDIN : 22400521ATGSTA3062				

11 | P a g e

Dehradun Zoo Management Society Dehradun Zoo, New Malsi Road, Post Sinola Provisional Income and Expenditure Account for the Year Ending 31.03.2022

Dehradun Zoo Management Society Statement of Income and Expenditure for the year ended 31st March 2022

	10.1411446	c 1.	. 1	201
111	noun		n 1	(2.)

		Note	31 March 2022	31 March 2021
	Particulars	8	2,85,68,852 2,29,846	2,05,97,115 5,83,022
1	Revenue from operations	9	2,87,98,698	2,11,80,137
 	Other Income Gross Receipts (I+II)		2,07,70,010	
(V (a) (b) (c)	Application of Income: Finance costs Other expenses Capital Expenditure incurred during the year	10 11	5,27,396 1,92,62,965 2,92,92,698 4,90,83, 059	1,74,520 78,54,270 5,78,30,558 6,58,59,348
٧	Total expenses Deficiet (Excess of Expenditure Over income)		-2,02,84,361	-4,46,79,21

संचिव(निदेशक देहरादून जू प्रबन्धन संस्था, मालसी (इत्तराखण्ड) (Member)

Place : Dehradun Dated : 19th September 2022 UDIN : 22400521ATGSTA3062 Annexed to the Audit Report of Even Date

For M/s. Saurabh Kishan & Company Firm Registration No. 010729C Chartered Accountants bariered Accountant 0000 Sanrabh Gupta F.C.A. Membership No. 400521

Dehradun Zoo Management Society Dehradun Zoo, New Malsi Road, Post Sinola Schedules annexed to Profit and Loss A/c For the year ended 31.03.2022

hradun Zoo Management Society tes forming part of the Financial Statements for	31 March 2022	31 March 2021
etione	2,07,98,279	1,17,73,260
Revenue from operations Receipts From Dehradun Zoo	49,000	1,90,000
A STATE OF A	49,000	1,34,500
a) Adoption of Birds		50,00,000
 Mise, Income Donation From IOC (Laechiwala Herbal Garce) 	-	4,99,355
Call (Calae System Installal)		30,00,000
The second	77,14,073	-
and a standard Nature Park		-
	7,500	
 Tender Fees 		2,05,97,115
constitute (Not)	2,85,68,852	2,00,00,0
Revenue from operations (Net)		
	31 March 2022	31 March 2021 5,83,022
Other income	2,26,271	5,85,022
a) Interest income	3,575	
 Interest on Income Tax Refund 	2,29,846.00	5,83,022.00
Total other income		
	31 March 2022	31 March 2021
0 Finance cost		
1) Interest expense	5,27,396	1,74,520
Interest on Loan		
	5,27,396	1,74,520
Total Finance cost		
	31 March 2022	31 March 2021
1 Other Expenses	51 March 2022	
	1,37,828	41,800
) Repairs and maintenance - Buildings	23.83.298	
A Repairs and maintenance - Zoo	20,00,270	11,22,20
) Lacchiwala Nature Park Maintenance	5,45,676	
Adventure Activities		
Administrative Expenses/ Zoo Running	79,40,744	
Advertisement Expenses	3,22,097	
	16,68,055	
a sent of Litterakhand	62,65,26	
) Payment to Government of Ottarakhand	-	41,50
Celebration Expenses		
	1,92,62,96	5 78,54,2
Total	-711	1
Total	1,92,62,96	2

Area Contraction

सचिव/निदेशक देहरादून जू प्रबन्धन संस्था, मालसीµतत्तराखण्ड)

Dehradun Zoo Management Society Schedule "A" of Fixed Assets

As on 31.03.2022

			Notes to Fixed As					WDV	
			As on 31.03.2	122		1	CETATION .	As On	
	an an Anna	W.D.V As On	Additions	Sold/Trf	Total	Rate	Amount	31 03 2022	
S No	Particulars	01 04 2021				10.22		27,01,685.00	
		annon man			27,01,685.00	0*+		1 21 04 000 00	
	3D Hall	27,01,685.00			1.21,04,000.00	0*1	1	37.69.014.00	
	Agamum	1,21,04,000.00			37,69,014.00	0*+	æ	1,29,825.00	
2	Cactus Garden	37,29,688.00	39,326.00		1,29,825,00	0%		76,383.00	
3	Venical Garden	1,29,825.00			76,383.00	0%	1	1,01,03,036 00	1
2	Electrical Fittings	76,383.00			1,01,03,036.00	0°	*	2,83,310 0)
3		1,01,03,036.00			2,83,310,00	0%		7,87,869.0	
0	Infrastructure	2,83,310.00			7,87,869.00	0%	÷	4,25,371.0	
7	Food Court Furniture & Fixture	7,87,869.00			4,25,371.00	0%		4,92,1130	0
8		4,25,371.00			4,92,113.00	0%	•	51,030 0	
9	Bio Crush Machine	4,92,113.00			51,030.00	0%	-	3,73,347 (
10	Office Equipments	51,030.00			3,73,347.00	0%		2,45,775	00
11	Ticket Machine	3,73,347.00			2,45,775.00	054		26,19,316	00
12	Crocodile Shelter	2,45,775 00			26,19,316.00	025		2,45,787	no
13	Leopard Shelter	21,44,630.00	4,74,686.00			0%	-	2,45,787	00
14	Snake Shelter	2,45,787.00			2,45,787.00	0%		3,33,202	00
15	Tortotoise Shelter	3,33,202.00			3,33,202.00	0%	-	9,912	
16	Vulture Shelter	9,912.00			9,912.00			55,139	
17	Ostrich Shelter	55,139,00			55,139.00			12,71,266	
18	Bird Shelter	12,71,266.00			12,71,266.00			4,79,908	
19	Rock Garden				4,79,908.00			8,75,84	3 00
20	Animal Clinic	4,79,908.00			8,75,843.00			1,59,90	0 00
21	Tiger Shelter	8,75,843.00			1,59,900.00			6,19,06	
22	Fox Shelter	1,59,900.00			6,19,065.00) 0%		48,63,75	
23	Bear Shelter	6,19,065.00			48,63,755.0		1	15,17,11	
	Solar System	48,63,755 00			15,17,112.0		-		
24	Hyna Shelter	15,17,112.00			66,200.0			66,20	
25	Wolf Shelter	66,200.00			49,65,348.0	7 S.1		49,65,3	48.00
26	Lacchiwala Herbal Garden	37,78,354.00	11,86,994.00		43,02,240.0	9 934			
27			17,01,006.00		4,96,24,511.0	0	1.1.1.1.	4,96,24,5	11.00
	Total(A)	4,79,23,505.00	17,01,000,00			-	a contraction	WDV	
		W.D.V.					Depreciation	As On	
The C		As On	Additions	Sold/ Trf	Total	Rat	e Amount	31.03.20	
S. No	Particulars	01.04.2021				1		31,00,10	
	Lacchiwala Nature Park Development	5,20,39,399.00	2,75,91,692.0)	7,96,31,091	.00 01	5	. 7,96,31	,091.0
1	(Funded by Ioan from MDDA)			Sec. Str.	7,96,31,091	00		- 7,96,3	1,091.
	Total(B)	5,20,39,399,00	2,75,91,692.0	0 .	7,90,51,074	.00			
	1							10.00.0	
		9,99,62,904.00	2,92,92,698.0	0 .	12,92,55,602	1.00		- 12,92,5	5,602

14. Daily feed Schedule of animals

SI.	Species	Nos.	Feed item	Qty. per a	nimal	Day of
No.			(in Kg)		fasting	
				Summer	Winter	
1	Grey Parrot	02	Gram	0.080	0.080	
	(Jacquot)		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 Conure, Sun	03	Wheat	0.140	0.140	
	Parakeet		Kanki	0.030	0.030	
	1 drukeet		Kangni	0.106	0.106	
			Tomato	0.050	0.050	
			Seasonal Fruits	0.120	0.120	
			Total	0.446	0.446	
3	Cockatiel	35	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	03	Bajra	0.020	0.020	
	Pheasant		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	
			Bottle 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	
			Bottle Gourd	0.080	0.080	
			Tomato	0.100	0.100	
			Egg	0.000	0.200	
			Total	0.540	0.740	

6	Macaw	06	White Gram	0.200	0.200	
		F	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	1
		_	Total	0.672	0.672	1
7	Tortoise/ Turtle	17	Onion	0.040	0.040	1
		_	Garlic	0.040	0.040	
		-	Green vegetables	0.600	0.600	
		-	Bottle Gourd	0.090	0.090	
		-	Tomato	0.170	0.170	
		_	Total	0.940	0.940	<u> </u>
8	Himalayan Vulture	01	Mutton/Chicken /Beef	1.000	1.000	Tuesday
_		-	Total	1.000	1.000	
9	Eagle	04	Mutton/Chicken /Beef	1.000	1.000	Tuesday
		⊢	Total	1.000	1.000	1
10	Leopard	01	Mutton/Chicken /Beef	5.000	5.000	Tuesday
	Ĩ	F	Total	5.000	5.000	1
11	Crocodile	03	Mutton/Chicken /Beef	3.000 3.000	1.000 1.000	Tuesday
			Total			<u> </u>
12	Gharial	04	Fish	3.000	2.000	Tuesday,
		_	Total	3.000	2.000	Thursday,
			I otal			Saturda,
						Sunday
13	Owl	07	Chicken(chicks) /Mice	0.800	0.800	Tuesday
			Total	0.800	0.800	
14	Ostrich	02	Gram	1.000	1.000	
			Maize	0.800	0.800	
			Wheat	0.800	0.800	
			Soybean	0.800	0.800	
		_	Egg	0.000	0.200	
		F	Green vegetable	0.500	0.500	<u>†</u>
		┝	Total	3.900	4.100	†
15	Emu	03	Gram	0.900	0.900	†
		⊢	Maize	0.600	0.600	+
			Wheat	0.600	0.600	
		⊢	Soybean	0.600	0.600	
		-		0.000	0.150	+
			Egg	0.500	0.500	
			Green vegetable	3.200	3.350	
16	Combog	11	Total	0.900	0.900	
10	Sambar	11	Gram	1.000	1.000	
		F	Maize	1.000	1.000	
		Ļ	Wheat Bran (Chowker)			<u> </u>
			Batisa	0.250	0.250	ļ
			Jaggery	0.000	0.400	
		Γ	Deoiled cake	0.000	0.300	
		F	Green grass	45.000	45.000	
1				48.150	48.850	

17	Goral	03	Gram	1.000	1.000
			Maize	0.600	0.600
			Wheat Bran (Chowker)	0.600	0.600
			Batisa	0.250	0.250
			Jaggery	0.000	0.300
			Deoiled cake	0.000	0.250
			Green grass	22.000	22.000
			Total	24.450	25.000
18	Indian Muntjac/	07	Gram	1.000	1.000
	Barking Deer		Maize	1.000	1.000
			Wheat Bran (Chowker)	1.000	1.000
			Batisa	0.400	0.400
			Jaggery	0.000	0.500
			Deoiled cake	0.000	0.450
			Green grass	38.000	38.000
			Total	41.400	42.350
19	Spotted Deer	96	Gram	10.411	10.411
10	Sponed Door		Maize	5.205	5.205
			Wheat Bran (Chowker)	5.205	5.205
			Batisa	2.103	2.103
			Jaggery	0.000	3.000
			Deoiled cake	0.000	5.700
			Green grass	718.356	718.356
			Total	741.280	749.980
20	Love Bird	24	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
			Bottle Gourd	0.090	0.090
			Total	0.780	0.780
21	Budgerigar	144	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
			Maize	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
		•			

23 Plu	im-headed	07	Gram	0.110	0.110			
Par	rakeet		Maize	0.110	0.110			
			Kanki	0.280	0.280			
			Kangni	0.280	0.280			
			Roasted gram	0.230	0.230			
			=	0.500	0.500			
			Green vegetable	0.070	0.070			
			Tomato	0.220	0.220			
			Seasonal Fruits	0.060	0.060			
			Green Chilly Total	1.860	1.860			
24 Sil				0.020	0.020			
Z4 Sil	ver Pheasant	04	Bajra					
			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			
			Bottle Gourd	0.080	0.080			
				Tomato	0.100	0.100		
			Egg	0.000	0.100			
			Total	0.540	0.640			
25	Golden Pheasant	Golden	02	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			
			Bottle Gourd	0.060	0.060			
			Tomato	0.060	0.060			
			Egg	0.000	0.100			
			Total	0.405	0.505			
26	Peacock	06	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			
27 F	Red Jungle	05	Poultry Feed	0.300	0.300			
1	Fowl		Bajra	0.030	0.030			
			Onion	0.060	0.060			
			Garlic	0.060	0.060			
				0.180	0.180			
			Green vegetables	0.120	0.120			
			Bottle Gourd	0.120	0.120			
			Tomato	0.120	0.120			
			Wheat					
			Egg	0.000	0.048			
			Total	0.930	0.978			

15. Vaccination Schedule of animals

SI. No.	Species	Disease vaccinated for	Name of the Vaccine and dosage/ quantity used	Periodicity	Remarks
1	Deer	FMD	Tetravalent	Twice in	
		HS	Vaccine 2	the year	
		BQ	intramuscula		
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

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

17. Disinfection Schedule

SI. 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 of 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

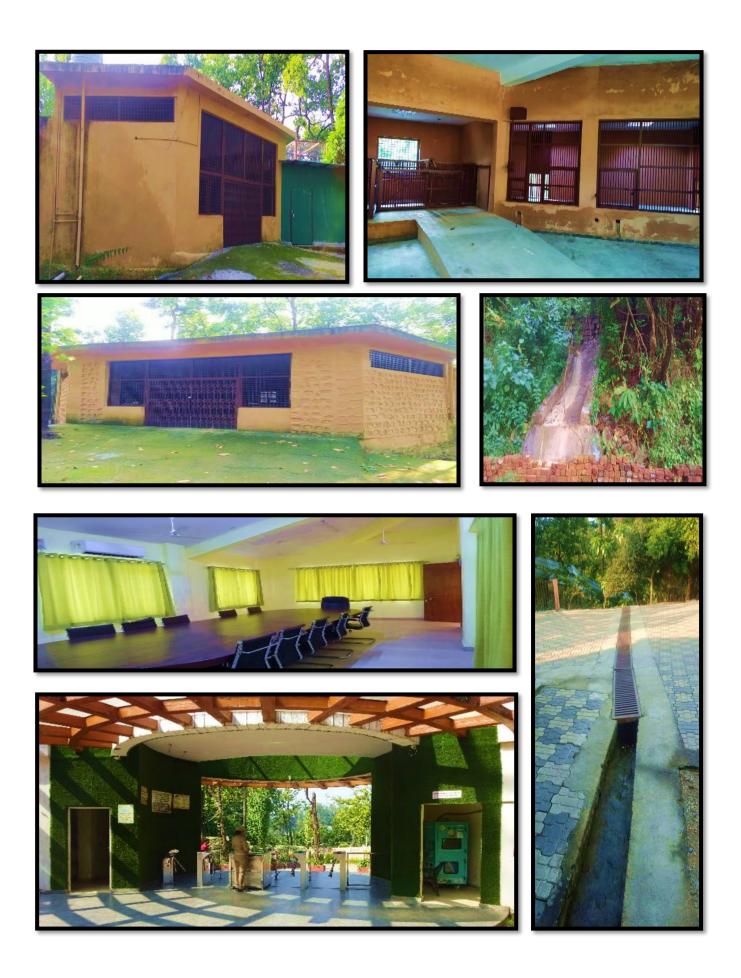
18. Health Check-up of employees for zoonotic diseases

SI. No.	Name	Designation	Date of Health Check up	Findings of Health Checkup
1	Mr. Bhagat Singh	Zoo keeper	09.09.2021	Nil
2	Mr. Munna Lal	Zoo keeper	09.09.2021	Nil
3	Mr. Rameshwar	Zoo keeper	09.09.2021	Nil
4	Mr. Sompal	Zoo keeper	09.09.2021	Nil
5	Mr. Deepak Chauhan	Assistant Zoo Keeper (Contractual)	09.09.2021	Nil
6	Mr. Suresh	Assistant Zoo Keeper (Contractual)	09.09.2021	Nil

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

- I. Construction work of Tiger Enclosure is to be completed soon.
- II. Construction work of Leopard Enclosure is to be completed soon.
- III. Paint work in Leopard Rescue Centre and modification of squeezer.
- IV. Repairing of all animal enclosures with required welding and masonry work.
- V. Construction of drain outside guard room in parking area and increased the height of the old drain.
- VI. Construction of pits at different places for making organic manure to be used in gardening.
- VII. Repairing of check dams at different places in Safari area.
- VIII. Repairing of damaged wall of tube well supplying water in zoo.
 - IX. Construction of drain near CC wall in parking area to prevent Land-slide on the side of the visitor path.
 - X. Made special seasonal arrangements in all enclosures, purchased blankets, fan heaters etc. and made wooden boxes with wire mash on one side to keep room heaters inside them.
- XI. Refilling of old fire extinguishers and purchased a new one.
- XII. Interior decoration of Conference Hall (Curtains of doors and windows).
- XIII. Gates for service roads of Leopard and Tiger enclosures.
- XIV. Repairing of damaged pipeline of tube well to avail proper supply of water.
- XV. Repairing of damaged pipeline of tube well to avail proper supply of water.
- XVI. Renovation of Ticket Plaza.
- XVII. Laying water supply pipeline in Safari region for proper supply of water from overhead water tank to different enclosures- Barking Deer, Black Bear, Sloth Bear, Goral, Spotted Deer, Tiger, Sambhar, Fox, Leopard and Hyna enclosure.





21. Education and Awareness programs during the year

- □ 08.04.2021 :- A Batch of 30 trainees from Forest Guard Training Institute, Rampur-mandi visited the zoo to study zoo management.
- □ 28.06.2021 :- Work on parasitic disease prevalence in birds and animals of zoo by Ph.D. student Dr. Shivani Sahu ID No. 31047.
- 18.08.2021 :- 15th Batch of 19 Deputy Ranger trainees from Forest Training Institute, Chail, (H.P.) visited the zoo to study zoo management.
- 05.09.2021 :- A Study tour of 24 gypsy drivers from Corbett National Institute for Wildlife Management And Nature Guiding, Corbett Tiger Reserve Ramnagar (Nainital).
- 05.10.2021 :- An educational group of 30 students from Maharana Pratap Sports Collage, Raipur, Dehradun visited the zoo, 3D-movie on wildlife conservation was shown and complete visit of zoo was arranged and refreshment was given to all.
- 06.10.2021 :- An educational group of 30 students from Maharana Pratap Sports Collage, Raipur, Dehradun visited the zoo, 3D-movie on wildlife conservation was shown and complete visit of zoo was arranged and refreshment was given to all.
- □ 19.10.2021 :- A batch of 37 trainees from UFTA, Haldwani visited the zoo to study zoo management.
- 24.10.2021 :- A batch of 23 Forest Guards from FTA, Jayanti, Almorha visited the zoo to study zoo management.
- □ 12.11.2021 :- A group of 29 officers including FRO, Dy. RO, Forester, Forest Guards from SFRI Kanpur, Forest Research Institute visited the zoo to study zoo management.
- □ 16.11.2021 :- A batch (2020-22) of 48 FRO trainees from UFTA, Haldwani visited the zoo to study zoo management.
- 24.11.2021 :- Field training (Dt. 04.12.2021 to 13.12.2021) of 6 BSc. Forestry Students from HNB Garhwal University, Shrinagar, Uttarakhand visited the zoo to study habit and Habitat of wild animals and zoo management.
- 01.12.2021 :- A Batch-103 of 42 Forest Guard trainees from Forest Guard Training Institute, Rampur-mandi visited the zoo to study zoo management.
- 15.12.2021 :- A group of 25 veterinary officers of Madhya Pradesh under their two-weeks training workshop on "Wildlife and Health Management" jointly organized by Wildlife Institute of India along with Madhya Pradesh State Veterinary Council and Madhya Pradesh Forest Department visited the zoo as a part of the course. The objective of the workshop was to expose the officer trainees to various aspects of captive management of wild animals and enhance basic skills and knowledge of the field veterinary officers of Department of Animal Husbandry, Madhya Pradesh, in dealing with wildlife emergencies including carrying out rescue/rehabilitations of wild animals in distress.
- 16.12.2021 :- A batch of 41 regular Forest Guard Trainees and 16th batch of 13 Deputy Ranger trainees total 54 trainees from FTI, Chail, Solan (H.P.) visited the zoo to study zoo management.

- □ 13.03.2022 :- A batch of 44 Forest Range Officers Training 2021-23 visited the zoo to study zoo management.
- 17.03.2022 :- A group from Wildlife Institute Of India, comprising of 10 Officer Trainees of the ongoing 42nd Post Graduate Diploma Course in Advanced Wildlife Management visited the zoo as part of their Ex-suit Conservation Management Module.
- 24.03.2022 :- A Group of 24 Veterinary Officers representing the states of Assam, Bihar, Jharkhand, Himachal Pradesh, Kerala, Punjab and Uttarakhand visited Dehradun zoo as part of the programme- 'Wildlife Health Bridge 2022A training course'. The objective of the training was to provide understanding of various aspects of ex-suit management of wild sentient and expose the participants to advancement in the area of wildlife health and associated topics.



□ World Environment Day, 05 June 2021: The World Environment Day was celebrated by the zoo staff in Dehradun Zoo by taking the pledge to save the environment by planting trees and saving wildlife.



□ Wildlife Week 1st Oct. 2021 to 07 Oct. 2021

This year on the occasion of 67th "Wildlife Week" Celebration sync with Azadi Ka Amrit Mahotsav campaign titled 'Conservation to coexistence: The people's connect', Dehradun Zoo, Uttarakhand Forest Department organized different online and offline activities aimed at building collaborations with universities, colleges and schools to ensure the culture of scientific inquiry and the promotion of the concept to citizen science. Many Special events were conducted during National Wildlife Week, from 1st October to 7th October 2021 at Dehradun Zoo, Malsi, Dehradun. The entry in zoo for students & children was free for this complete week (1-7) October. The basic Objective was to sensitize the young minds about the importance of wildlife conservation. The theme of this celebration was 'laj{k.k dk ladYi&,d tu Hkkxhnkjh@Sanrakshan ka Sankalp-Ek Jan Bhagigari' (A conservation collective).



On 1st October 2021, the day one of the opening of the "Wildlife Week" was initiated by a <u>'Raley</u> <u>for conservation of wildlife</u>' conducted in the morning by zoo staff. This day online Slogan competition on conservation of wildlife was conducted in to groups- S1 for school students- Class-9 to 12 and S2-for open category. During the day a 'magic show on science & fiction' for awareness among people to reduce frauds was conducted and also a 'puppet show' was organized to generate feeling and awareness among people for conservation of wildlife. In the evening the opening ceremony of 'wildlife week' was held in the benign presence of our Chief Guest – Mr. Pushkar Sing Dhami, The Hon. C.M. of Uttarakhand, along with Dr. Harak Singh Rawat, The Hon. Forest & Environment Minister, Uttarakhand, and Mr. Ganesh Joshi, The Hon. Soldier Welfare, Industrial Development, Khadi & Cottage Industry Minister, Uttarakhand in presence of Mr. Rajiv Bhartari, PCCF(HoFF), Uttarakhand, Mr. Anoop Malik PCCF Wildlife, Uttarakhand, and other forest officers and Guests inaugurated the wildlife week ceremony and different events were conducted like– 1. Posters on Oak Forests, 2. Birds of Uttarakhand coffee table book, 3. E-book (Common tree and wildlife of Uttarakhand), 4. Common butterflies of Uttarakhand, 5. Venomous snakes of Uttarakhand.

The Hon. C.M. Uttarakhand also announced Free entry for all children up to the age of 18 years will be given in every Zoo in Uttarakhand.

At the end of the day a refreshment party was organized for the guests.



2nd Oct. 2021 the second day of the "Wildlife Week"- Online competition of Digital Painting on wildlife was organized for Open category. Short Educational Movies on Butterflies, Leopards were shown to the students invited from different School to celebrate Wildlife week-2021 at Dehradun Zoo. Also a snake awareness program by Snake experts was conducted in the zoo to remove fear of snakes from minds of people and help reduce killing of innocent snakes. On the same day "Gandhi Jayanti" was also celebrated with great enthusiasm in the zoo.



3rd October, 2021: The third day of wildlife week celebration at Dehradun Zoo- To spread education and awareness on the importance of wildlife conservation on this day offline '**Face Painting'** for open category was conducted in the zoo premises. Students from different schools and university participated with great enthusiasm and beautiful efforts showing their love and affection towards wildlife and environment. At the end of face painting snacks party was organized for the participants.







4th October, 2021: The fourth day of wildlife week celebration at Dehradun Zoo- To spread education and awareness on the importance of wildlife conservation on this day online '**Mobile Photography'** in two categories was conducted Mp1-for school students- class 9 to 12 and Mp2-for open category. On the same day in offline mode '**Drawing competition'** among students from different schools and colleges in four categories D1(class-5 & 6), D2(class-7 & 8), D3(class-9 & 10) and D4(class-11 & 12) was conducted in the zoo premises in which about 70 students from different schools participated. Colour-kits with other drawing accessories were also distributed to them. Students from different schools participated with great enthusiasm and beautiful efforts showing their love and affection towards wildlife and environment. At the end of drawing competition short educational movie on wildlife was shown and refreshment snacks party was organized for the participants.





5th October, 2021: The fifth day of wildlife week celebration at Dehradun Zoo- To spread education and awareness on the importance of wildlife conservation, students from Maharana Pratap Sports Collage, Raipur, Dehradun and other nearby schools were invited to zoo and introduced to importance of the wildlife with the motto to educate on- 'संरक्षण का संकल्प-एक जन भागीदारी/Sanrakshan ka Sankalp-Ek Jan Bhagigari' (A conservation collective). After a complete zoo visit at the end on this day short educational movie on wildlife was shown and refreshment snacks party was organized for the participants.



6th October, 2021: The sixth day of wildlife week celebration at Dehradun Zoo- To spread education and awareness on the importance of wildlife conservation, participants were introduced to importance of the wildlife with the motto to educate on - 'संरक्षण का संकल्प-एक जन भागीदारी/Sanrakshan ka Sankalp-Ek Jan Bhagigari' (A conservation collective), thereafter

Mehndi competition on wildlife was organized for open category. A complete zoo visit was organized for the participants and at the end on this day short educational movie on wildlife was shown and refreshment snacks party was organized for the participants. On the occasion of wildlife week, adoption of a pair of Red Green winged Macaw by KASTURI 'an Association of IFS Officers Wives and Lady Officers Uttarakhand Chapter' for a period of one year was also done.



7th October, 2021: - This day was the sum up of all the competitions held at the Zoo along with the concluding day of the Wildlife Week-2021. In the morning till afternoon results of all competitions were finalized and all necessary arrangements for the conclusion ceremony of the "Wildlife Week" were done. "Wildlife Week" - 2021 Closing Ceremony was held in the benign presence of our chief guest: Mr. Rajiv Bharatari, PCCF(HoFF), Uttarakhand; along with other Special guests and other Officers of Forest Department. On this day all the officers, employees, students, and other people present in the closing ceremony of "Wildlife Week" took an oath to protect and save wildlife. Prizes were distributed to the worthy participants and forest staff and others working for the wellbeing of wildlife, helped in adoption of wild animals and saving the wild animals and the environment.









At the end of the "Wildlife Week" ceremony a refreshment party was given to the guests.

□ World Pangolin Day 19th Feb. 2022

This year on the occasion of 10th **"World Pangolin Day"** Celebration sync with Azadi Ka Amrit Mahotsav a grand Awareness campaign was jointly organized by Dehradun zoo, Uttarakhand Science and Education Centre (USERC) & Matty Organization.





□ World Sparrow Day 20st March 2022

This year on the occasion of **"World Sparrow Day"** awareness programme on how to save sparrows, was conducted and also a book on sparrows was inaugurated in presence of Mr. P.K. Patro, Director, Dehradun zoo, Dr. P.M. Dhakate, CCF WIldilfe, Dr.Rajat Bhargava, BNHS, Mumbai and many other present on this occasion.





World Forestry Day 21st March 2022

This year on the occasion of **"World Forestry Day"** awareness programme on how to save forests and wildlife was conducted and trees were also planted in presence of Mr. P.K. Patro, Director, Dehradun zoo, Dr. P.M. Dhakate, CCF WIldilfe, Dr.Rajat Bhargava, BNHS, Mumbai and many others present on this occasion.



22. Research Work carried out and publications

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

23. Conservation Breeding Program of the Zoo

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

24. Animal acquisition / transfer / exchange during the year

Exchange of animal with other zoos was not done, however on dated: 21.08.2021-A Female Goral(Julie)-Received from Paschim Pinder Range. Narayanbagad, DFO Badrinath Forest Division, Gopeshwar. She was rescued/handed by Mrs. Uma Devi to this range. The female Goral is habitual of hand feeding as grown up among humans and on dated: 15.09.2021- 3 Ostrich (1M:2F) were Donated by Mr. Rahul Rohila, Sunder Park, Sashtri Nagar, Delhi.

SI.	Date of	Species	Received from	Date of	Action Ta	ken
No.	Rescue	with number of animals rescued with their sex (M: F:U:T)	Rescued	Submission of Report to the CWLW / CZA	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	2/04/2021	Monkey (1F)	Mr. Jitendra, member of rescue team, Dehradun, UKFD		10.04.2021 rehabilitation in its natural habitat in Malsi Reserve Forest, Dehradun Forest Division	
2	04.04.2021	Monkey (1M)	Mr. Jitendra, member of QRT rescue team, Dehradun, UKFD		20.04.2021 rehabilitation in its natural habitat in Malsi Reserve Forest, Dehradun Forest Division	
3	09.04.2021	Monkey (1F)	Mr. Sudarshan, member of rescue team, Dehradun, UKFD		25.04.2021 rehabilitation in its natural habitat in Malsi Reserve Forest, Dehradun Forest Division	
4	16.04.2021	Leopard (1M)	R.O. Raipur Range. Mussoorie Forest Division UKFD		It was released by R.O., Raipur Range, Mussoorie, Forest Division on 17.04.2021 in its natural habitat.	
5	25.06.2021	Leopard (1M)	Badkot Range, Bhaniyawala		28.06.2021 Rescued weak and injured	

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

					leopard Died during treatment PM report and samples were handed over to R.O. Badkot Range for further actions.	
6	10.07.2021	14- Crocodile s (newly hatched) & 4 eggs	R.O. Roorkee Range, Haridwar Forest Division Mukhya Gangnahar, Meel 13 Roorkee Range,	10.07.2021		Since, crocodiles were very Small, so kept under Veterinarian' s care and will be released afterwards.

26. Annual Inventory of animals

			Dehrad	lun	Zoo	An	nual	Inv	ven	tory	Re	por	t 2()21-	-22								
Dehr adun Zoo	Uttara khand	2021-22					01.									n 2()22)					
S.No	SPEC IES NAM E	ANIMA L NAME	SCIEN TIFIC NAME	ST	OPEN FOCK 01-04	K As	on	BI	RTI	IS		QUIS ONS			ISPC ALS		DI	EAT	Ή	SI	госі	SING X As (3.2022	on
Enda		Species (S and II)	Schedule	М	F	U	Т	Μ	F	U	Μ	F	U	Μ	F	U	Μ	F	U	М	F	U	Т
1	Bird	Indian Peafowl	Pavo cristatus	2	4	0	6	0	0	0	0	0	0	0	0	0	0	0	0	2	4	0	6
2	Bird	Kalij Pheasant	Lophura leucome lanos	2	3	0	5	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	5
3	Mam mal	Leopard	Panther a pardus	1	1	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1
4	Reptile	Marsh Crocodil e (Mugger)	Crocod ylus palustris	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3
5	Reptile	Indian Soft- shell Turtle	Nilssoni a gangetic a	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
6	Reptile	Indian tent turtle/ Turtle Indian Roofed	Pangshu ra tecta	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	4
7	Reptile	Russell's Viper	Daboia russelii	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
8	Reptile	Reticulat ed Python	Malayo python reticulat us	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
9	Reptile	Checker ed Keelbac k	Fowlea piscator	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
10	Reptile	Spectacl ed Cobra/ Indian Cobra	Naja naja	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2

11	Reptile	Commo n Rat Snake	Ptyas mucosa	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
12	Reptile	Tricarin ate hill turtle	Melano chelys tricarina ta	3	3	0	6	0	0	0	0	0	0	0	0	0	0	0	0	3	3	0	6
13	Reptile	Gharial	Gavialis gangetic us	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4
14	Reptile	Indian Rock Python	Python molurus	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
15	Reptile	Python Burmese	Python bivittatu s	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
То	tal of En	dangered S	Species	1 7	2 5	3	4 5	0	0	0	0	0	0	0	0	0	1	0	0	1 6	2 5	3	4 4
Spee	cies (Sch	edule III :	and IV)		OPEN DCK 04-2	As on		BI	RTI	IS		QUIS ONS			SPC ALS		DI	EAT	Ή		госі	SING K As (.2022	
~p•				Μ	F	U	Т	Μ	F	U	M	F	U	Μ	F	U	Μ	F	U	M	F	U	Т
16	Bird	Himalay an Vulture	Gyps himalay ensis	1	1	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1
17	Bird	Eagle sp.	Accipitr idae	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
18	Bird	Fowl Jungle Red	Gallus gallus	2	3	0	5	0	0	2	0	0	0	0	0	0	0	0	0	2	3	0	5
19	Bird	Owl Brown Wood	Strix leptogra mmica	0	0	7	7	0	0	0	0	0	0	0	0	0	0	0	3	0	0	4	4
20	Bird	Owlet Spotted	Athene brama	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
21	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
22	Bird	Parakeet Alexand rine	Psittacu la eupatria	5	5	3	1 3	0	0	0	0	0	0	0	0	0	0	0	0	5	5	3	1 3
23	Bird	Parakeet Rose Ring	Psittacu la krameri	4	5	9	1 8	0	0	0	0	0	0	0	0	0	0	0	0	4	5	9	1 8
24	Bird	Pheasant Golden	Chrysol ophus pictus	1	2	0	3	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	2
25	Bird	Plum- headed Parakeet	Psittacu la cyanoce phala	0	0	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7

26	Mam mal	Indian Muntjac/ Deer Barking (Kakar)	Muntiac us muntjak	2	6	1	9	0	0	0	0	0	0	0	0	0	0	2	0	2	4	1	7
27	Mam mal	Deer Sambar	Rusa unicolor	2	6	0	8	1	2	0	0	0	0	0	0	0	0	0	0	3	8	0	1 1
28	Mam mal	Deer Spotted/ Chital	Axis axis	4 3	4 6	0	8 9	1	1	5	0	0	0	0	0	0	0	0	0	4 4	4 7	5	9 6
29	Mam mal	Himalay an Goral	Naemor hedus goral	4	2	0	6	2	0	0	0	1	0	0	0	0	4	2	0	2	1	0	3
30	Reptil e	Tortoise elongate d	Indotest uda elongata	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3
31	Reptil e	Turtle Indian Black (ssp. indopeni nsularis)	Melano chelys trijuga indopen insularis	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
32	Reptil e	Commo n Sand Boa	Gongyl ophis conicus	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
33	Reptil e	Commo n Vine Snake	Ahaetul la nasuta	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
34	Reptil e	Commo n Krait	Bungar us caeruleu s	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
			Total of Species (Sch III and IV)	7 0	8 1	3 4	1 8 5	4	3	7	0	1	0	0	0	0	5	5	3	6 9	8 0	3 6	1 8 5
	Exot	tic Species			OPEN DCK 4 04-2	As on		BI	RTI	IS		QUIS ONS			SPC ALS		DI	EAT	Ή	S	госі	SING K As o 2022	on
				Μ	F	U	Т	Μ	F	U	Μ	F	U	Μ	F	U	Μ	F	U	Μ	F	U	Т
35	Bird	Budgeri gar	Melopsi ttacus undulat us	5 0	5 0	4 4	1 4 4	0	0	0	0	0	0	0	0	0	0	0	0	5 0	5 0	4 4	1 4 4
36	Bird	Cockatie l	Nymphi cus hollandi cus	9	1 0	7	2 6	0	0	9	0	0	0	0	0	0	0	0	0	9	1 0	1 6	3 5
37	Bird	Sun Conure/ Sun Parakeet	Arating a solstitial is	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3

38	Bird	Emu	Dromai																				
			us novaeho llandiae	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3
39	Bird	Love Birds	Agapor nis roseicol lis	1 3	1 0	2	2 5	0	0	0	0	0	0	0	0	0	0	1	0	1 3	9	2	2 4
40	Bird	Macaw Blue & Yellow	Ara araraun a	1	1	0	2	0	0	2	0	0	0	0	0	0	0	0	0	1	1	2	4
41	Bird	Macaw Red & Green	Ara chloropt era	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
42	Bird	Ostrich	Strithio camelus	1	0	0	1	0	0	0	1	2	0	0	0	0	1	1	0	1	1	0	2
43	Bird	Grey Parrot /Jacquot/ Parakeet African Grey	Pisttacu s erithacu s	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
44	GreyGreyIII <td>3</td>														3								
45	Bird	Pheasant Silver	Lophura nycthe mera	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4
46	Reptil e	Green Iguana	Iguana iguana	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
			Total Exotic Species	8 2	8 0	5 6	2 1 8	0	0	1 1	1	2	0	0	0	0	1	2	0	8 2	8 0	6 7	2 2 9
			Grand Total	1 6 9	1 8 6	9 3	4 4 8	4	3	1 8	1	3	0	0	0	0	7	7	3	1 6 7	1 8 5	1 0 6	4 5 8
]	End	of F	Rep	ort													

27. Mortality of animals

SI. No.	Animal Name (withindividual identification mark,if any)	Scientific Name	Sex	Date of Death	Reason of Death as per the Post- mortem report
1.	Golden Pheasant	Chrysolophus pictus	Female	08.04.2021	Died due to septicemia caused by infection of broken eggs inside.
2.	Love Bird	Agapornis roseicollis	Female	23.06.2021	Died due to pneumonia which caused Asphyxia.
3.	Ostrich	Struthio camelus	Male	03.06.2021	Died due to shock caused due to injury, dislocate of lateral aspect of right foot resulting in trauma & hematoma.
4.	Himalayan Goral	Naemorhedus goral	Female	24.07.2021	Died due to Acute Tympanitis which caused asphyxia
5.	Himalayan Goral	Naemorhedus goral	Female	31.07.2021	Died due to Shock because of multiorgan Failure
6.	Indian Muntjac/ Deer Barking (Kakar)	Muntiacus muntjak	Female	12.09.2021	Died due to Neuralgia which leads to shock.
7.	Himalayan Goral	Naemorhedus goral	Male	02.09.2021	Died due to chronic pneumonitis which leads fo Asphyxia
8.	Himalayan Goral	Naemorhedus goral	Male	10.09.2021	Died due to chronic pneumonitis which leads fo Asphyxia
9.	Himalayan Goral	Naemorhedus goral	Male	06.11.2021	Died due to chronic Acute tympanitis which leads to Asphyxia
10.	Himalayan Goral	Naemorhedus goral	Male	24.12.2021	Died due to chronic Acute tympanitis which caused Asphyxia
11.	Indian Muntjac/ Deer Barking (Kakar)	Muntiacus muntjak	Female	04.01.2022	Died due to Acute tympanitis which leads to Asphyxia
12.	Leopard	Panthera pardus	Male	23.01.2022	Died due to septicaemia and multiorgan failure because of presence of pud &blood in plural cavity & congested lungs,liver & Kidney.
13.	Brown wood owl	Strix leptogrammica	U	04.01.2022	Died due to Asphyxia by the acute pneumonitis.
14.	Brown wood owl	Strix leptogrammica	U	20.01.2022	Died due to Asphyxia by the acute pneumonitis.
15.	Ostrich	Strithio camelus	Female	01.01.2022	Died due to multiorgan failure due to prolonged recumbence from Rickets.
16.	Brown wood owl	Strix leptogrammica	U	17.03.2022	Died due to Asphyxia by the acute pneumonitis.
17.	Himalayan Vulture	Gyps himalayensis	Male	29.03.2022	Died due to Cardiac arrest.

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)

- (1) File No. 19-123/93-CZA(Part), Computer No. 143363, Dated: 05.08.2022,
- (2) File No. 21-2/2019-CZA(Vol.I)(E)-Part(1) Computer No. 153933, Dated: 31.03.2021,
- (3) File No. 19-123/93-CZA(267)(Vol.II)(PKR)/2889/2018, Dated: 09.04.2018,
- (4) File No. 19-123/93-CZA(Vol.I)(267)(NS)/7592, Dated: 14.8.2015,
- (5) File No. 19-123/93-CZA(267)(M)/450, Dated: 09.03.2012,
- (6) File No. 19-123/93-CZA(267)(M) dated: 23.09.2009

Sr.	Norm	Condition Stipulated	Time	Since	Remark	(S
No	No. under RZR, 2009		Period to Comply	when pending	Status with regard to compliance of the conditions as submitted by the Officer-in-charge of the Zoo	Status with regard to compliance as noted physically by the evaluator during the visit
F.No	b.21-2/2019 -	CZA(Vol.1)(E)-Part(1) da	ted 31.03.2021			
	2. Admin pattern	nistrative and staffing				
1	10.2(2)	Since the zoo is housing endangered species, required scientific and technical staff under sub-rule (2) of Rule 9 under the Recognition of Zoo rules, 2009 should be appointed in the zoo	Six months	31.03.2021	Complied. Since it is a M Zoo, hence education offic biologist and separ veterinarian is not require However the dedice veterinarian has been posted the zoo. A snake- specialist also appointed on contract basis. The zoo keepers a supporting staff are a trained.	er, ate ed. ate in is ual
	3. Develop	ment and planning				
2	10.3(1)	Compliance with observation on Master Plan of the zoo should be submitted to the CZA as communicated	Immediately	31.03.2021	Conditional approval has be accorded by CZA	en
	6. Veteri facilities	nary and infrastructure				
3	10.6(3)	Separate quarantine and isolate facility should be developed in off-display area of the zoo	Six months	31.03.2021	Separate rescue centre raptors and leopard has be constructed. Isolation was has been provided in hospital	en rds
4	10.6(3)	Register on chemical mobilization of animals and usage of drugs should be maintained separately	Immediately	31.03.2021	Complied	
5	10.6(5)	Since the zoo is housing endangered species, required veterinary support staff should be appointed	Six months	31.03.2021	Not mandatory for mini z but process has been initial and compounder/ lab assista will be employed after complete establishment hospital.	ted ant
F.No		CZA(267)(Vol.II(PKR)/28	59/2018 dated	19.04.2018	1	
1 \		eneral requirements	T 1° / 1	00.04.0010		
1`	10.1(7)	The zoo should provide	Immediately	09.04.2018	Following steps were taken:-	

				[
		a proper waste disposal			- Zoo is declared as plastic and	
		system for treating both			polythene free area.	
		the solid and liquid			- Installed plastic crushing	
		wastes generated in the			machine for recycling of	
		zoo. There should be			plastic.	
		waste deisposal system			- Installed leaf shredder	
		having no adverse			machine for composting of	
		impact on the environment			biodegradable waste.	
		environment			- Reused the plastic and other non-degradable waste for	
					landscaping.	
					- All liquid waste is collected	
					in septic tank.	
	2. Ad	Iministrative and				
		iffing pattern				
2	10.2(1)	A full time officer in	One year	09.04.2018	By the special government	
		charge of the zoo should			order, the zoo is continued to	
		be posted with office in			headed by P. K. Patro who is in	
		the zoo premises			charge of Chief Conservator of	
					Forest, Forest Panchayat and Community Forestry,	
					Uttarakhand; Government has	
					taken this decision to continue	
					the tenure till the completion of	
					the expansion plan of the zoo.	
3	10.2(2)	It is not a Mini Zoo.	Immediately	09.04.2018	Till date Dehradun zoo is	
		The endangered species			categorized as mini zoo by	
		has been housed by the			CZA. However by visualizing	
		zoo. Hence, the			the future expansion plan and	
		standard and norms			as per the master plan all	
		applicable for small zoo			provisions are made to meet	
	10.2(2)	has to be applicable A full time veterinarian	Immodictel	00.04.2019	the provisions of small zoo.	
4	10.2(2)	of the zoo should be	Immediately	09.04.2018	Though for mini zoo, full time veterinarian is not mandatory	
		posted with his hqrs. at			as per the CZA norms, yet, full	
		the Veterinary Hospital			time veterinarian was	
		of the zoo.			appointed in 2018 by	
					government on deputation	
					basis from animal husbandry	
					department. Dr Rakesh	
					Nautiyal is incharge of	
	10.0/2	ant 1 11 1	.	00.04.0015	veterinary hospital of the zoo.	
5	10.2(2)	The zoo shall have an	Immediately	09.04.2018	As per the norms of CZA, for	
		official with Master's			mini zoo full time curator is	
		Degree in wildlife Sciences/Zoology as a			not required, yet proposal was	
		full time curator solely			sent to government. After full	
		responsible for looking			expansion separate curator will be posted	
		after the upkeep of				
		animal and maintenance				
		of animal enclosures				
6	10.2(2)	There should be one	Immediately	09.04.2018	As per the norms of CZA, for	
		Biologist also			mini zoo full time biologist is	
					not required, yet proposal was	
					sent to government. After full	
					expansion separate curator will	
	3. De	evelopment and			be posted	
		anning				
7	10.3(1)	The zoo should prepare	Immediately	09.04.2018	Conditional approval has	
		and get the Master Plan			already accorded by CZA.	
	10.0.0	approved by CZA				
8	10.3(3)	The pucca buildings	Immediately	09.04.2018	Complied, all buildings were	

		including the visitor facilities needs to be properly camouflaged and located in such a manner that the natural landscape of the zoo have not been masked and the cleanliness and hygiene of the zoo is not affected due to such animal enclosures/structures			coloured with natural shed and different species of plants and bamboos were planted to give it more natural. The cleanliness and hygiene has been maintained with highest standard.	
9	10.3(3)	The spotted deer enclosure should be made proper as per the CZA norms	Immediately	09.04.2018	Complied, As per master plan the spotted deer enclosure has been constructed as per CZA norms and most of the spotted deer are shifted to the new enclosure. Since the proposed area for visual display for tourists lies in safari area which is not opened for tourists so, only a few spotted deer are kept in old enclosure for display these will also be shifted to new enclosure after the completion of the Safari.	
10	10.3(6)	A collection plan of animals to be houses and displayed in the zoo should be prepared. The plan should be prepared keeping in view due regard to the availability of land, water, electricity and climatic condition of the area	Immediately	09.04.2018	Animal collection plan was sent along with the master plan. The present collection is as per the collection plan.	
11	an	The zoo should submit information to the CZA about the rescued animal that pertains to an endangered species nimal housing, display of imals and animal closures	Immediately	09.04.2018	Endangered animals were not rescued by the zoo, however the details of animals rescued and treated has been annexed as annexure-3	
12	10.4(2)	The enclosures at the zoo does not meet biological and behaviour requirement of animals and require drastic modification and improvement as approved in the layout plan be implemented	One year	09.04.2018	Modifications were made as per the requirement of animals.	
13	10.4(2)	Height of the leopard enclosure should be increased covering the existing trees that would provide natural environment to the animals. The logs/timber etc. needs to be improved.	One year	09.04.2018	At present the height of the leopard enclosure is about 4 meter and as per the approved master layout plan the leopard enclosure will be relocated, hence modification was not made.	

14	10.4(5)	The leopards are kept in	One year	09.04.2018	At present 2 leopards are kept	[]
14	10.4(3)	small enclosures	One year	07.04.2018	in two different enclosures and	
		without much scope for			the height is about 3.5 meter to	
		veridical movement due			4 meter due to undulating	
		to top chain link fence			surface and as per the approved	
		at a height of 3-1/2			master layout plan the leopard	
		meters and enrichment			enclosure will be relocated,	
		needs to be improved			hence modification was not	
			-		made	
15	10.4(6)	Special efforts to enrich	One year	09.04.2018	Complied by providing different furniture and natural	
		the environment of the enclosures should be				
		taken as the enclosure			enrichments. As per the approved master layout plan	
		enrichment is lacking			the leopard enclosure will be	
		em femilient is fucking			relocated, hence major	
					modification was not made.	
16	10.4(9)	All the animal	One year	09.04.2018	Complied. All enclosures were	
		enclosures in the zoo			provided with proper standoff	
		should be provided with			barriers as per the norms and	
		appropriate stand-off			adequate warning singes were	
		barriers and adequate			provided at different places.	
		warning signs for keeping the visitors at a				
		safe distance from the				
		animals				
17	10.4(9)	The zoo should plant	One year	09.04.2018	Complied. Live hedges were	
		hedge between the			planted between the standoff	
		standoff barrier and the			barriers and enclosures.	
		paddock wall in all				
18	10.4(1)	enclosures Every enclosure in the	One year	09.04.2018	Complied All onclosures were	
10	10.4(1)	Zoo should have a sign	One year	09.04.2018	Complied. All enclosures were provided with proper and	
		board in local language			informative singes.	
		as well as in English			informative singes.	
		displaying scientific				
		information about				
		biology and behaviour				
		etc. of the animals				
	5 TT	exhibited in it				
		okeep and healthcare of imal				
19	10.5(2)	The meat handlers	Immediately	09.04.2018	Complied with and meat	
		entering the facility			handles were provided with	
		should change into a			boots and coveralls.	
		clean and disinfected				
20	10.5(2)	boots and coveralls	Immodiatel	00.04.2019	Complied and most handless	
20	10.5(2)	The meat handlers should use clean gloves	Immediately	09.04.2018	Complied and meat handlers were provided with gloves.	
		when handling the meat			were provided with gloves.	
21	10.5(3)	The meat house should	Immediately	09.04.2018	There is no separate meat	
		be made fly proof			house as the meat requirement	
		~ 1			is very less. All provisions are	
					made in the kitchen. The	
					kitchen has been made fly	
					proof with flytraps and by	
22	10.5(3)	Zoo should install a	Immediately	09.04.2018	maintaining hygiene. Complied and freezer was	
22	10.3(3)	freezer of adequate	mineutatery	07.04.2018	Complied and freezer was procured.	
		capacity for storage of			provinci.	
		meat products till it is				
		fed to the animals				
23	10.5(3)	The store house for food	Immediately	09.04.2018	Complied and all efforts were	
		should be made rodent			made to make the store rodent	

	-					,
		proof and storage conditions of feed items need improvement to make it damp proof.			proof. All food items were stored in proper metal and plastic containers. Proper ventilation was provided to reduce dampness.	
24	10.5(4)	All herbivore enclosures should have a provision of a small enclosure cum shelter where feed is to be provided to the animal	One year	09.04.2018	Complied and shelters were provided.	
		eterinary and frastructure facilities				
25	10.6(1)	The veterinary health care facility in the zoo should be made functional	Immediately	09.04.2018	Complied with. Many equipment were procured. OT has been established.	
26	10.6(1)	The zoo veterinary hospital should have basic diagnostic facilities and comprehensive range of drugs	Immediately	09.04.2018	Funds received from CZA in March, full-fledged veterinary hospital will be established by march. All necessary equipment were already procured.	
27	19.6(3)	The zoo should have isolation and quarantine facilities located away from the hospital	Immediately	09.04.2018	Isolation facilities have been provided in hospital.	
28	10.6(3)	Zoo should have a post- mortem room for conducting post-mortem as per the CZA guidelines	Immediately	09.04.2018	Funds received from CZA and separate post mortem house was established.	
29	10.6(5)	The zoo should have one qualified lab assistant/compounder to assist the veterinarian in healthcare of the zoo animals	Immediately	09.04.2018	Not mandatory for mini zoo but process has been initiated and compounder/ lab assistant will be employed after the complete establishment of hospital.	
30	10.6(6)	Zoo should have a formal MoU on health care with the nearest veterinary institution and the MoU should contain names and contact details of persons who will assist the zoo in all aspects in health care management	Immediately	09.04.2018	Full time veterinary doctor for the zoo has been posted and in his absence the veterinarian from Rajaji national park has been taking care of the animals of zoo.	
	9. Acquis animals	ition and breeding of				
31	10.9(9)	To safeguard against uncontrolled growth in the population of prolific breeding species kept in the zoo, the zoo should implement appropriate population control measures	Immediately	09.04.2018	All animals were acquired recently, hence at present inbreeding is not an issue but in future all possible measures will be taken as per the master plan to prevent the inbreeding.	
32	10.9\$)	The zoo should acquire mates for single animals (four species of turtle, tortoise, spotted owlet, black buck (albino) etc.)	Immediately	09.04.2018	Complied. Black buck was died hence pairing is not required.	

		on priority basis				
33	10.9(10)	The zoo should	Immediately	09.04.2018	Complied	
55	10.7(10)	maintain separate	mineciatery	07.07.2010	Compilea	
		animal history cards.				
		Treatment cards and				
		herd sheet				
	11. Educ activities	cation and outreach				
34	10.11	The zoo should have	One year	09.04.2018	Complied. Singes with all	
51	10.11	appropriate signages	one year	09.01.2010	possible information were	
		and education and			placed at different locations for	
		outreach activities for			conservation education.	
		conservation education				
	12. Visitor	of the visitors of the zoo				
35	10.12(1)	The zoo should provide	Immediately	09.04.2018	Complied. Toilet and wash	
	10.12(1)	adequate civic facilities		0,10	room facilities were provided	
		for visitors at			at 4 places, RO drinking water	
		appropriate and			facilities were provided at 3	
		convenient places within the zoo which			locations, 2 rest sheds were provided. Benches were	
		should be accessible to			provided at different locations.	
		the physically			Ramps were provided at all	
		disadvantages persons			locations. Wheel chairs were	
					provided at entry gate.	
					Disability audit was conducted in the month of January 2020	
					and after receiving the audit	
					report the further construction	
					and measures are taken to	
26	10.12(2)	A	T	00.04.2019	make the zoo disable friendly.	
36	10.12(3)	Appropriate arrangements should be	Immediately	09.04.2018	Ramps were provided at all locations. Wheel chairs were	
		made to provide access			provided at entry gate.	
		within the zoo to			Disability audit was conducted	
		physically			in the month of January 2020	
		disadvantaged visitors including those in the			and after receiving the audit report the further construction	
		wheel chair at all			and measures will be taken to	
		enclosures and civic			make the zoo disable friendly.	
		facilities				
F.Nc		CZA(Vol.I)(267)(NS)/7592	dated 14.08.20	15		
1	1. Ge	eneral requirements The mini zoo is having	Six months	14.08.2015	Complied	
	-(-)	in its collection birds,	Sar montilis	1	h	
		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				
2	1(1)	The population of	Three	14.08.2015	Complied	
	× /	spotted deer housed at	months		Ĩ	
		the zoo and needs to be				
		controlled by				
		segregation of animal during rutting season				
		and by birth control				
		measures				

3	1(3)	The circulation path for visitors as shown in the approved layout plan should be completed for movement of visitors	Three months	14.08.2015	Complied	
		dministrative and affing pattern				
4	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 his territorial works	Three months	14.08.2015	At present not required, but after the full expansion of zoo and completion of the animal collection adequate administrative setup arrangement will be made. By the special government order, the zoo is continued to headed by P. K. Patro who is in charge of Chief Conservator of Forest, Forest Panchayat and Community Forestry, Uttarakhand; Government has taken this decision to continue the tenure till the completion of the expansion plan of the zoo.	
5	2(2)	There are 04 animal keepers, which are grossly inadequate for maintenance and upkeep of animals and should be increased	Three months	14.08.2015	Complied, Since the zoo is in its developing phase and due to lack of sufficient funds the number of zoo keepers was not increased but contractual employeesof the zoo who are trained acts as supporting staff with zoo keepers in the upkeep of animals. With the expansion of the zoo according to the master plan the number of zoo keepers will definitely be increased accordingly.	
		evelopment and anning				
6	3(5)	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	14.08.2015	Under the guidelines of the CZA, zoo has a leopard rescue centre and a raptors rescue centre which are functional, other rescued animals after treatment are generally returned to the respective forest divisions.	
		nimal housing, display of nimals and animal				
7		The enclosures at the zoo does not meet biological and behaviour requirement of animals and require drastic modification and	Six months	14.08.2015	Modifications were made as per the requirement of animals.	

		improvement as				
		approved in the layout				
		plan				
8	4(3)	The safety features both for visitors and animal keepers have to be	Six months	14.08.2015	Complied. The leopard enclosure is to be relocated according to the master plan as	
		upgrade as the night shelters for leopard is			per CZA norms new leopard enclosure has beenconstructed.	
		close to the visitor path and there is no proper			Since the new location of leopard enclosure is in Safari	
		animal keeper gallery			area, which is not opened for tourist as is not completely developed.So the leopards are	
					currently displayed in these enclosures only for time being. Leopards will be shifted to	
					their new enclosures hence modification was not made.	
9	4(5)	The leopards are kept in small enclosures	Immediate	14.08.2015	At present leopards are kept in the displayed enclosure and the	
		without much scope for veridical movement due			height is about 3.5 meter to 4 meter due to undulating	
		to top chain link fence			surface. The leopard enclosure	
		at a height of 3-1/2 meters and enrichment			is to be relocated according to the master plan as per CZA	
		needs to be improved.			norms new leopard enclosure	
		The mixed species enclosure for all			has been constructed. Since the new location of leopard	
		herbivores comp4rising			enclosure is in Safari area,	
		of chital, sambar,			which is not opened for tourist	
		barking deer and goral needs to be improved			as is not completely developed. So the leopards are currently	
		with separate enclosure			displayed in these enclosures	
		for each animal as approved in the layout			only for time being. Leopards will be shifted to their new	
		plan			enclosures hence modification was not made.	
10	4(9)	Standoff barriers have to be reconstructed in	One month	14.08.2015	Complied. A few enclosures are to be relocated in the	
		few enclosures as per			Safari region hence	
		CZA specification. Additional sign boards			modification was not made.	
		are required				
	an	pkeep & Healthcare of himals				
11	5(1)	Provision of foot bath of adequate size with	One month	14.08.2015	Yes, placed at all the entry points to enclosures, hospital	
		proper disinfectant at			and kitchen.	
		entry and exit points of animal house should be				
12	5(2)	provided The store house for food	Two months	14.08.2015	The store house forfoodiswell	
		is inadequate and			maintained, all efforts are	
		storage conditions need improvement and meat			made to make the store rodent proof. All food items are stored	
		house should be			in proper metal and plastic	
		separately provided			containers. Proper ventilation is provided to reduce	
					dampness. Meat is kept in	
					separate room.There is no separate meat house as the	
					meat requirement is very less.	
					All provisions are made in the	

		I				
					kitchen. The kitchen has been	
					made fly proof with flytraps	
12	5(2)	Written schedule of	Immediate	14.08.2015	and by maintaining hygiene.	
13	5(3)	Written schedule of vaccination and	Immediate	14.08.2015	Yes	
		deworming should be				
		prepared and displayed				
		at the enclosure				
14	5(3)	The zoo should	Immediate	14.08.2015	Yes	
17	5(5)	maintain records of the	minediate	14.00.2015	105	
		observation and social				
		behaviour, health status,				
		feed intake and				
		treatment. Animal				
		keeper's diary, daily				
		reports and history cards				
		and treatment cards				
		should be maintained in				
		the formats as				
	(prescribed by CZA.				
		eterinary and frastructure facilities				
15	6(1)	The zoo should have	Immediate	14.08.2015	Will be complied in next few	
		isolation and quarantine			months	
		facilities located away				
	- / - 1	from hospital	.	14.00 5555		
16	6(1)	The zoo veterinary	Immediate	14.08.2015	Funds received from CZA in	
		hospital should have basic diagnostic			March 2019, full-fledged	
		basic diagnostic facilities and			veterinary hospital is established by. Many	
		comprehensive range of			equipments with x-ray and	
		drugs			biochemical laboratory is	
		arugs			procured only few steps away	
					in completion of the full-	
					fledged veterinary hospital.	
17	6(3)	The zoo should have a	Six months	14.08.2015	Funds received from CZA and	
		post-mortem room in			separate post mortem house	
		the location as approved			was established.	
		in the layout plan				
	9. Acquis animals	ition and breeding of				
18	9(4)	The black buck, turtle,	Three	14.08.2015	Complied. Black buck was	
_		red jungle fowl and	months		dead hence pairing is not	
		sambar have to be			required.	
		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				
	12. Visitor	s facilities				
19	12(1)	a) Directional	One month	14.08.2015	Complied. Required steps are	
		signages			taken to improve directional	
		should be			signage at every crossing of the	
		provided at	Six months	14.08.2015	Z00.	
		every crossing			Roads, paths and lawns are	
		at the zoo			made smooth and presentable	
		b) Roads, paths			accordingly.	
		and lawns			l	

		should be made smooth and presentable				
20	12(2)	First-aid kit and anti- snake venom should be kept at the zoo premises	Three months	14.08.2015	First-aid kit and anti-snake venom are always available at the zoo office.	
21	12(3)	Ramp should be made for physically challenged visitors	Six months	14.08.2015	Complied. Ramp at all locations is made for physically challenged visitors.	

Rule 10: Standards and Norms subject to which recognition under section 38H of the Act shall be considered.

Norm No.	Condition	Detailed status of implementation and enclose recommendation	sure specific
		To be filled by the Zoo Director	Comments of the Evaluating Officers
1. Ge	neral requirements		
1.1	Does the zoo make efforts to maintain population of physically, genetically and behaviorally healthy animals for furthering the cause of wildlife conservation and communicating credible conservation message to the visitors?	This is a new zoo and the process of animal collection as per the collection plan incorporated in the master plan is going on. All efforts are being made to maintain population of physically, genetically and behaviorally healthy animals for furthering the cause of wildlife conservation and communicating credible conservation message to the visitors	
	b) If not please specify cases where it is violated?* Only in cases where stud books are maintained	-	
	(c) If any introduction of new blood has been made after last evaluation to increase the genetic viability of animals.	No, as all animals were acquired recently and due to covid-19 and Avian influenza/ Bird flu protocol introduction of no newblood has been made after last evaluation to increase the genetic viability of animals.	
1.2	Whether any endeavour has been made for proper landscaping and planting of appropriate species done to provide a naturalistic environment within the zoo?	Yes, all efforts were made for proper landscaping and planting of appropriate species to provide a naturalistic environment within the zoo.	
	(b)If not indicate cases of deviation.		
1.3	(a)Whether the movement of visitors in the zoo has been regulated in such a manner that zoo animals are not unduly disturbed?	Yes, the movement of visitors within the zoo has been regulated and staffs were deployed at important locations. CC TV Cameras were placed at important locations to monitor the visitors. Proper signage were also placed.	
	(b)Is the zoo closed to visitors at least one day in a week?	Yes	
	(c)Which day?	Monday	
1.4	(a)Whether the zoo has appropriate barriers along the boundary of the zoo in accordance with the standards issued by the Central Zoo Authority, as a safeguard against the un-regulated access of visitors to the zoo and zoo animals and being subjected to injury, pilferage and predation?	Yes, two layer chainlink fence were established along the boundary of the zoo in accordance with the standards issued by the Central Zoo Authority, as a safeguard against the un-regulated access of visitors to the zoo and zoo animals and being subjected to injury, pilferage and predation	
	(b) If not which stretch and its length?	J 77 F	
1.5	(a)Is the zoo surrounded by human landscape?	Partly on one side, 500 meters and rest of the boundary is surrounded by reserve forest	

		area.	
	(b)If yes, whether encompassed by a perimeter wall of at least two meter in height from the ground level on both sides?	6 meter Double chain linkfence is present	
1.6	(a)Is there residential colony constructed within the zoo premises?	No, all residential colony is established outside but near the zoo, across the road.	
	(b)If yes, whether separated by wall from the zoo premises by a boundary wall with a minimum height of two meters from the ground level?	-	
	(c) Is the entry to the residential colony through the zoo premises?	No	
1.7	(a)What are arrangements for managing solid and liquid waste and storm water?	Arranged, described earlier in compliance report.	
	(b) Is it adequate?	Yes	
1.8	(c)What are the short comings?(a) Is the zoo displaying sick, injured, infirm and tethered animals to the visitors?	No	
	(b) If yes, what are the species and each of their number?	-	
1.9	a) Is the zoo housing domestic animals within the zoo premises?	No	
	b) Is there adequate safeguards in place to prevent the entry of domestic livestock, stray animals and pets into the zoo premises?	Yes, zoo periphery is protected by 6 meter high double chain link fence. Proper signage also placed at the entry.	
		ative & Staffing Pattern	
2.1	Does the zoo have an officer of appropriate rank as "whole time in-charge" of the zoo with powers to take decision and ensure that adequate financial resources and infrastructural support is made available to such officer for proper housing, upkeep and healthcare of the zoo animals and managing the zoo in a planned manner?	Yes, at present CCF rank officer is incharge of the zoo, who is also member secretary of zoo society with appropriate financial resources and administrative power.	
2.2	Does the zoo have adequate scientific and technicalstaff to support the officer-in-charge of the zoo incarrying out the responsibilities of housing, upkeepand healthcare of zoo animals, research and visitoreducation as specified in the Table below, namely:SI Category of staff Large zoo Medium zooSmiCurator111111111111111111111111	Mini Zoo, hence education officer, biologist and separate veterinarian is not required. However the dedicate veterinarian has been posted in the zoo.	
2.3	If the scientific and technical posts are filled by direct recruitment, does the recruitment rule for such posts provide for their carrier progression including the benefit of flexible complementing scheme for their promotions?	NA	
2.4	In the event of emergency, what is the response time when the veterinarian is off the premises (i.e.	Within 45 minutes. Emergency protocol has been incorporated in master plan.	
	distance between officer, residence and zoo) 3. Develo	pment and planning	
3.1	(a)Has the zoo prepared and got the master plan approved by the Central Zoo Authority?	Yes,	
	(b)If not, what is the stage?	Conditional Approval accorded.	
3.2	(a)Has at least 30% of the area earmarked for the zoo been kept under green belt and natural vegetation and the area for animal housing does not exceed 30% area of the zoo?	Yes more than 80 % area is covered by natural forest.	
	(b)If not, approx what percentage?	-	

			1
3.3	(a)Have all 'pucca' buildings including the visitor	Yes, efforts made so far are mentioned in	
	facilities been planned and located in such a	compliance report.	
	manner that the natural landscape of the zoo have		
	not been masked and the cleanliness and hygiene		
	of the zoo is not been affected due to such animal		
	enclosures/structures?		
	(b)If not what improvements are suggested?	_	
3.4	Has the zoo prepared a collection plan in	Yes, it is incorporated in master plan.	
5.4		res, it is incorporated in master plan.	
	consultation with the Central Zoo Authority,		
	indicating the names of the species and maximum		
	number of animals of each species to be housed in		
	the zoo, having due regard to the congeniality of		
	the climatic conditions of the locality for the		
	general health and well being of the species,		
	availability of space and infrastructural support for		
	proper upkeep and healthcare of the species,		
	proximity of the zoo to the habitat range of the		
	species and the past record of the zoo in		
	management and breeding of the species and the		
	zoo is not compromising on housing and upkeep		
	standards of animals for accommodating new		
	species or additional animals of the species in its		
	collection?		
2.5		Vog for tractment or le	
3.5	(a) Has the zoo accepted any rescued animal for	Yes, for treatment only.	
	which it does not have appropriately designed		
	enclosure and upkeep facilities as well as the		
	facilities for keeping it in isolation during		
	quarantine period?		
	(b)If yes which species and from where received?	Most of the animals are received from	
		adjoining forest divisions. Different species	
		of animals such as birds, monkey and	
		Leopard.	
	(c) The location of quarantine and isolation area?	At present this facility is not available, after	
		treatment animals are generally returned to	
		the respective forest divisions.	
3.6	a) Has the zoo accepted any rescued animal for	No.	
5.0	housing?	110.	
	b) If so what is the species and number?	-	
	c) Has the details been reported to CWLW of the	-	
	state including a detailed report regarding the		
	source from which the animal has been received,		
	legality of its acquisition and the facilities available		
	at the zoo for housing, upkeep and healthcare?		
	d) If the rescued animal pertains to an endangered	NA	
	species whether a copy of the report has been sent		
	to the Central Zoo Authority?		
3.7	(a)Whether the Central Zoo Authority has advised	No	
	to transfer any animal to a particular zoo for	110	
	augmenting the number of founder animals for the		
	conservation breeding program?	NT 4	
	(b)Whether the same has been complied with?	NA	
	(c)If not, why?	NA	
4.1	(a)Are the animals displayed in nature immersing	Yes, details are given in the compliance	
	(naturalistic) enclosures?	report.	
	(b)How many such enclosures for which species	-	
	exist?		
4.2	(a)If the designs and dimensions of various	Yes, except leopard all the designs and	
••	enclosures have been decided having due regard to	dimensions of various enclosures have been	
	the biological behavior of the species and the	decided having due regard to the biological	
	number of animals to be housed		
	number of animals to be noused	behaviour of the species and the number of	
4.2		animals to be housed	
4.3	(a)Are the enclosures safe and secure for the	Yes,	

	animals, animal keepers and the visitors and has		
	requisite space for free movement, exercise and		
	expression of their natural behavior?		
4.4	(b) If not, in which cases?	-	
4.4	(a)Is adequate space available to the animals in	Yes	
	order to maintain safe distance from the dominant		
	animals in the group or herd?		
4.5	(b) If not, in which cases?	- -	
4.5	Which animals are kept in substandard enclosures	Leopard	
4.6	as per CZA specification? (a)Has efforts been made to enrich the	Vag dataila alma da airran in aguarlianas	
4.6		Yes, details already given in compliance	
	environment of the enclosures to meet the specific	report.	
	behavioural requirements of the animals in		
	accordance with the standards specified by the		
	Central Zoo Authority? (b)Where are the deviations?		
4 7		- X	
4.7	(a)Has adequate screening been provided between	Yes, natural screening has been done with	
	adjacent enclosures to safeguard against the	plantation of bamboo and other species.	
	animals getting unduly excited or stressed due to		
	visibility of animals housed in these enclosures?		
4.8	(b)What are the deviations?	 No	
Η.ð	(a)Has any new enclosure for endangered species	1NO	
	constructed without prior approval of the Central		
	Zoo Authority?		
4.0	(b)If yes, which ones and why?	- X/	
4.9	(a)Has the zoo provided appropriately designed	Yes, details already given in the compliance	
	and effective standoff barriers at every animal	report.	
	display enclosure to regulate the movement of		
	visitors in the zoo in a manner that facilitates the		
	visitors in getting unobstructed view of wild		
	animals, without reaching in the vicinity or		
	proximity of the animals and getting the		
	opportunity to physically touch or provoke the animals and are there adequate sign boards so as to		
	give warning to the visitors to keep a safe distance		
	from the animals?		
	(b)Where are the deviations?		
4.10	(a)Have appropriate signage been provided with	Yes, details already given in the compliance	
4.10	relevant information on the biology, behavior and	report.	
	the population status of the species in the wild at	Teport.	
	every display enclosure?		
	(b) If any deviations, details thereof.		
	(c) In case of large and medium zoos whether	NA, as it is a mini zoo.	
	interactive interpretation facilities have been	1074, as it is a mini 200.	
	provided for the purpose of explaining behaviour		
	and biology of the species displayed in the		
	enclosure?		
	(d) Details thereof.		
	5. Upkeep an	nd healthcare of animals	J
	5. Opkeep an		
5.1	Enclosures and animal facilities	Yes, the animals in its collection are	
	(a) Whether the animals in its collection are	maintained in socially and behaviourally	
	maintained in socially and behaviorally viable	viable groups.	
	groups?	0	
	(b) If any animal is separated from the group, the	-	
	justification for the same and whether the animals,		
	so separated, have been housed in accordance with		
	standards specified by the Central Zoo Authority		
	in this regard.		
	(c) Whether the food containers and water bowls	Yes	
	are cleaned and disinfected on daily basis?	~~~	
1	· · · · · · · · · · · · · · · · · · ·		

	(d) Whether grills and floor of feeding cells, night shelters and chain link fence of outdoor enclosures are being disinfected on routine basis.	Yes, by means of KMnO4, kharsoline, lime, turmeric powder.	
	(e) Whether perches and shelves are cleaned regularly and kept free of faeces and urine?	Yes	
	(f) Whether dirt substrates in outdoor planted exhibits are racked and spot- cleaned periodically?	Yes	
	(g) Whether the zoo has provision of secondary holding areas for safe movement of animals from primary enclosures for cleaning/ feeding/ medical procedures?	No	
	(h) Provision of footbath of adequate size with proper disinfectant at entry and exit points of animal house is provided or not?	Yes, placed at all the entry points to enclosures, hospital and kitchen.	
	(i) Whether the indoor exhibits have separate ventilation system between exhibits and visitors area to reduce the potentials of disease transmission, in case of reptile and nocturnal animal houses?	Except snake house and aquarium all exhibits are out-door and in these two indoor facilities proper ventilation has been provided.	
	(j) Whether the drainage system is covered properly and away from animal houses?	Yes, all drainage systems have been covered properly and away from animal houses.	
5.2	Nutrition and food hygiene <i>General</i> 1. Are the animals ensured timely supply of :		
	(a) adequate quality feed as per species specific diet of such a composition and in such quantities that nutritional and physiological requirement of each animal is fully met and no animal remains under-nourished on account of dominant animals not permitting other animals getting their share of the feed?	Yes, diet chart has been made as per specification and timely feeding has been carried out.	
	(b) Is round the clock supply of potable water to all the animals is ensured?	Yes, two separate tube-wells have been used for supply of potable water.	
	2. Whether inventory of daily received and distribution record of food items is maintained?	Yes, proper register has been maintained.	
	3. Whether the storage conditions of the food items are appropriate (free from moisture, moulds and pests)?	Yes, the storage conditions of the food items are appropriate (free from moisture, moulds and pests) separate storage facility has been provided.	
	4. Whether the food storage facilities and working platforms are cleaned and disinfected on regular basis?	Yes, on daily basis it has been cleaned with disinfectants.	
	5. Whether the regular inspection of food items is being done for its quality and freshness and transported hygienically to the respective enclosures?	Yes, regularly it has been checked by the concerned staff and range officers.	
	6. Whether random food and water samples are being tested periodically for microbiological, toxicological and any other contaminants at recognized laboratory	Yes, food sample are checked by range officer, veterinary officer and director also sample of water are being tested periodically for microbiological, toxicological and any other contaminants at recognized laboratory	
	<i>Carnivore food and hygiene</i> 1. Whether the meat house is fly proof and pest free and located at a reasonable distance from the feed store and kitchen?	NA	
	2. Whether the zoo maintains strict hygienic conditions in the entire food stream, from the butchery to feeding platforms in order to prevent food contamination and overgrowth of potential pathogenic bacteria?	Yes, the meat quantity is very less hence processed meat has been procured from outside.	

	3. Whether the zoo has a sufficient size	Yes	
	functioning freezer in the meat processing facility	1 65	
	for storage of meat products and to keep cold until		
	it is fed?		
	4. Whether the meat handlers entering the facility	Yes, details given in compliance report.	
	change into a clean and disinfected boots and coveralls?		
	5. Whether the meat handlers use clean gloves	Yes, details given in compliance report.	
	when handling the meat?	r es, detans given in compliance report.	
	6. Whether the meat preparation facility is	Yes, the meat quantity is very less hence	
	thoroughly cleaned and disinfected on regular	processed meat has been procured from	
	basis after the meat preparation is completed?	outside.	
	7. Whether there is a covered drainage system to	Yes	
	prevent wastes and water from the meat preparation facility from draining onto the ground		
	surrounding the facility where foot traffic will		
	carry pathogens around and where wildlife may		
	become exposed to the waste?		
	8. Whether the meat is fed on a clean and	Yes	
	disinfected surface and at a time when the animal		
	will consume it at quickly as possible?9. Whether the keepers use clean gloves, if they	Yes	
	handle the meat prior to feeding?	res	
	Food distribution	Yes, animal no. in each enclosure is	
	1. (a) Is the timing of distribution of food,	minimum hence presently it is not an issue.	
	placement of food and way of distribution of food		
	to the animals regulated in such a manner that the		
	animals get maximum opportunity to express natural instincts and skills and behaviour related to		
	feeding?		
	Removal of unused feed and excreta	Yes	
	Are the left over feed, excreta of animals and all		
	other wastes are removed promptly from the		
	feeding cells and kraals and the feeding cells and		
	kraals are washed and disinfected as per the advice of the authorized veterinary officers and the solid		
	and the liquid waste generated during the process		
	are disposed off in such manner that has no		
	adverse impact on the hygiene and cleanliness of		
	the zoo and the landscape surrounding the zoo?		
	(a) In which cases improvement is recommended?	-	
	(b) Are the dimensions and designs of the feeding	Yes	
	cells and kraal as per the standards specified by the Central Zoo Authority?		
	(c) Cases of deviation, if any?	No.	
	· · ·		
.3	Visual observation on daily activity pattern of	Yes, it is maintained in a proper format,	
	animals and preventive healthcare	annexed as annexure 4	
	1. (a) Do the curatorial and the veterinary staff keep a close watch on the general behavior and		
	health parameters of the zoo animals?		
	(b) Are the animals handled only by the staff	Yes	
	having experience and training in handling the		
	individual animals?	• •	
	(c) Whether periodical health monitoring of animals have been carried out regularly?	Yes	
	2. If any animal shows any sign of dullness, loss of	Yes	
	appetite, injury or abnormal behaviour: is the	105	
	animal thoroughly assessed and provided medical		
	attention promptly as per the standards specified		
	by the Central Zoo Authority in this regard from		
	time to time and the direction of the zoo		
	administration?		

3. Is every zoo animal screened for parasitic loads as per written schedule prepared by the zoo in consultation with the veterinary officer and prophylactic medicines administered as per clinical requirements and vaccination of animals against infectious diseases are also done, as per the schedule prescribed by the Veterinary Officer from time to time?	Yes, it was done in 2018, 2019, 2020 & 2022. Each and every animal of the zoo was screened for ectendo parasitic loads by the schedule in our zoo pathology by the veterinarian. We took measures for the prophylactic vaccination as a precaution done by the department of animal husbandry around the zoo for domestic animals as a ring vaccination against FMD, HS, BQ for ruminant, rabies, CD and other vaccination done with the state animal husbandry department around the zoo periphery.	
4. Whether the zoo have written schedule of vaccination and de-worming of different species of the zoo animals and displayed at the enclosure site?	Yes	
5. Does the zoo maintains detailed records of observations of biological and social behaviour and health status of the animals including feed intake, medication and treatment provided in the keeper's diary, daily reports, animal history cards and treatment cards, as per standards specified by the Central Zoo Authority?	Yes	
6. Are all staff involved with upkeep and healthcare of zoo animals screened against zoonotic diseases once every year and those found positive to any communicable disease are provided appropriate treatment till they get cured and become free of the infection and during the period of such treatment, the infected employees are kept	Yes, latest in September 2021. No staff involved with upkeep and healthcare of zoo animals was found positive.	
 away from the responsibility of upkeep and healthcare of the animals? 7. Whether the zoo has clause of employing a zoo keeper temporarily ailing for usefully utilizing 	No	
 them elsewhere in the zoo in the intervening period. 8. Every zoo should have formal linkages through a MoU on healthcare, preventive, health 	No	
management, surgical interventions, clinical tests, disease diagnosis and consultation in treatment and management during the period of convalescence.	NL.	
(a) Whether the zoo has any such MoU with the nearest veterinary institution?(b) Whether the MoU contains names and contact details of person/ persons to be contacted to assist	No	
zoo management in all aspects in health management for zoo animals?	d Infrastructure Facilities	
Zoo hospital	As it is a mini zoo, hospital is not mandatory;	
 6.1 (a) Are veterinary facilities appropriate to the size and type of the animal collection of the zoo including isolation ward and quarantine facilities located away from the hospital and other animal collections? 	As it is a mini 200, hospital is not mandatory, however a separate hospital has been established. Quarantine facility is not present.	
(b) Does the zoo have a full fledged veterinary unit with all basic diagnostic facilities, pharmacy, diagnostic and treatment room, comprehensive range of drugs, operation theatre and in-patient wards?	Yes, recently established with financial assistance from CZA.	
(c) Are there suitable and appropriately designed holding facilities for animals requiring extensive	Yes, but under the process of development.	

medical care?		
(d) Whether the veterinary facilities have a	Yes	
separate area / room for equipment cleaning and sterilization?		
(e) Whether the zoo has basic hospital and monitoring equipment:		
✓ refrigerator (50C)	Yes	
✓ stethoscope	Yes	
✓ freezer (-170C)	No	
 ✓ scales for weighing animals 	Yes	
 ✓ transponders for animal ID and transponder reader 	-	
 ✓ ultra-low freezer (-700C) for serum banking and diagnostic samples 	No	
✓ ophthalmoscope	Yes	
✓ otoscope,	Yes	
✓ thermometer	Yes	
 ✓ capture equipment (i.e. darts and dart projectors) 	Yes	
✓ laryngoscope and blades	Yes	
✓ endotracheal tubes	Yes	
✓ oxygen support (regulators and demand valves)	Yes	
✓ inhalation anesthesia machine that can support a tiger-sized animal	-	
 ✓ isoflurance vaporizer 	Yes	
 ✓ anesthesia monitoring equipment (single or multiparameter) 	-	
✓ pulse oximeter	Yes	
✓ ECG (blood pressure monitor included)	-	
✓ basic surgery instruments	Yes	
✓ surgical light	Yes	
✓ autoclave	Yes	
✓ basic dental instruments	Yes	
(f) Whether the zoo has basic diagnostic support to enable and make rapid assessments of physiologic status of sick and injured animals:		
 ✓ Hematocrit and hematocrit centrifuge for Packet Cell Volume 	Yes	
✓ Hand-held refractometer for Total Serum Solids	-	
✓ Hemacytometer and associated items for	-	
 Manual RBC and WBC counts ✓ Standard laboratory centrifuge, microscope and 	Yes	
glassware for Fecal Parasite Examination		
✓ Standard laboratory centrifuge and glassware for Serum / Plasma separation	Yes	
 g) Whether the zoo has arrangements of reference laboratory support and rapid transportation of diagnostic samples to nearest veterinary institution equipped with following facilities: ✓ Automated blood cell counting ✓ Clinical chemistry ✓ Bacterial culture and antibiotic susceptibility ✓ Viral isolation and identification ✓ Antibody/ antigen serology ✓ Pathogen identification through ELISA or PCR 	Yes, at present the facility of animal husbandry department situated at Rishikesh has been used. Procurement of few equipment is under process.	

1						
		Toxic agent analysis				
	\checkmark	Parasite identification				
			1 1 .1			
		the zoo acquired sophisticated			No only useful equipments has been	
		tic equipments for which ther			procured.	
		ally qualified manpower to op	erate and use	;		
	the sam					
	(i) Whe	ther the veterinarian and tech	nician have		Yes	
	requisit	e training for equipment use a	nd data			
	analysis	5?				
	(i) Are	there proper storage facilities	for various		Yes	
		ments and chemical immobiliz		,		
		mini zoo, does it have at least	facilities of a	a	Yes, it has a separate hospital and dedicated	
		nt room?			doctor.	
6.2		l restraint			Yes, restrain drugs kept in the possession of	
		ether the zoo has appropriate a			the veterinary officer and maintained in	
		t equipment, accessories and c			medicine register.	
	(2) Whe	ether the animal restraint equip	pment are		Yes	
		ept and maintained as per stan		ol		
	?	- 1	1			
	(3) Whe	ether the veterinarian and tech	nician have		Yes, doctor has been trained at WII.	
		e training in equipment use an				
		t techniques including handlin				
		nagement of human emergence				
		the restraint of an animal requ			Yes	
					res	
		al immobilization done exerci				
		d following the standards spec				
		by the Central Zoo Authority f	from time to			
	time?					
		ther the veterinarian has requi			Yes, trained at WII and sent for exposure visit	
		hal immobilization with specif	tic reference		under ZSL project to foreign country.	
	to wildl					
		here a dedicated refrigerator fo	or storage of		Yes	
		al restraint drugs?				
6.3		nary Support staff			Mini Zoo, Hence NA	
1		e zoo have the zoo veterinary		2		
1	as speci	ified in the Table below ; nam	ely –			
		Support staff	Large	N	Small Zoo	
1			Zoo	Z		
1	1	Lab Assistant (Technician)	1			
	2	Stockman / compounder	2		1	
1		pounder		Ц	-	
6.4	Wildlif	e veterinary medical educat	ion and	_	Yes zoo has coordination with WII and	
<u></u>	training				Panthnagar university.	
1		the zoo have linkages with th	e eminent		i unannugur university.	
1		ons and organizations working				
1		animal healthcare with the ob				
1	provide		jeenves to			
			nocis of			
	a)	Assistance in scientific diag				
1		diseases of serious nature an				
		the effective remedial treatm				
	b)	Training and upgrading tech	nical skills o	f		
		animal health staff.				
	c)	Development of protocols for	or preventive			
	- /	medicines and vaccination	1			
	2 Whet	ther the veterinary officer has	requisite		Yes, already explained.	
		deducation in wildlife medicir			res, anoury explained.	
		a caacaaaan ni whathe medlell				

3. Whether the zoo has any training programme/residency for skill development for the	No	
zoo veterinary medical officer in wildlife medicine in a large foreign zoo ?		
7. Post-mortem and d	lisposal of carcasses of animals	
.1 Post mortem facilities	Though the zoo is a mini zoo, a separate	
1. Does the zoo; unless it is mini zoo have a modern post mortem room, equipped with sufficient light and post mortem equipment?	postmortem house has been constructed with financial assistance from CZA.	
2. Whether the zoo veterinarian has specialized knowledge and skills in wildlife pathology?	Yes	
3. Is there availability of pathology support from nearest veterinary institution to provide specialized capabilities and consultation particularly for post mortem of an endangered species requiring definitive diagnosis and collection of samples in a scientific way and as per protocols required by reference laboratories / veterinary institute?	Details already provided in previous point.	
 4. Does every animal dying in the zoo is being subjected to a detailed post mortem examination by registered veterinarian to determine conclusively the cause of the death? 	Yes	
Are the findings of the post-mortem examination referred to in sub-paragraph (1) recorded in such format as have been prescribed by Central Zoo Authority in this regard and is it maintained for a period of not less than six years?	Such situation not yet arise, but it will be followed in such situation.	
 In the event of the post mortem being inconclusive and no specific reason for death is identified, do the zoo authorities send the samples of the tissues and organs, blood, viscera etc. for further examination to the qualified diagnostic laboratory having adequate specialization for further investigation and identifying the cause of death? 	Such situation not yet arise, but it will be followed in such situation.	
2. Whether the post mortem report is corroborated with other diagnostic findings in consultation with specialized reference laboratories / veterinary institutions?	Such situation not yet arise, but it will be followed in such situation.	
.4 Does the zoo ensure that the carcasses of the animals, after the post-mortem has been conducted, is disposed off by burying or burning in a manner that does not have any adverse impact on the hygiene and cleanliness of the zoo ?	Yes	
a) Are the carcasses of large cats disposed off by burning in the presence of Director of the zoo or any officer in the next rank to him and authorized by him in this behalf?	-	
b) Are the carcasses of animals which died due to Anthrax or such other communicable diseases not opened and subjected to post-mortem, as a safeguard against spread of the disease and they are buried intact?	No	
8.	Euthanasia	
.1 No animal in the zoo shall be euthanized unless doing so is essential for relieving from suffering from incurable disease /condition as per the norms of CZA.	Not yet done but the condition will be followed when situation demand.	
	and breeding of animals	1

9.1	Are animals of various species kept and maintained	Yes	
	in social viable groups and with such a sex ratio that		
	optimizes breeding and helps in developing a self-		
	sustaining population of each species?		
9.2	(a) Has the zoo acquired animals based on scientific	Animals are acquired after due permission	
	assessment of its lineage and genetic relatedness to	from CZA.	
	Safeguard against ill effects of inbreeding on the		
	zoo population, through exchange, loaning and		
	getting gifts of animals from other zoos?		
	(b)If there is any deviation, details thereof.	-	
9.3	(a)Has the zoo acquired single animals or	No	
	genetically non-viable number of animals unless		
	such acquisition is necessary for pairing of single		
	animals or making the group genetically/		
	biologically viable?		
	(b) Please indicate such cases.	-	
9.4	(a)Has the zoo tried to acquire mates for single and	Yes	
7.7	unpaired animals on priority basis and in the event	105	
	of any zoo failing to find a mate for single and		
	unpaired animal within a period of six months, the		
	1 1		
	unpaired or single animal have been transferred or		
	exchanged or given on breeding loan to any other		
	zoo in accordance with the norms specified by the		
	Central Zoo Authority in this regard?		
	(b)Please indicate unpaired species, its sex and for	-	
	the period it has been kept unpaired.		
9.5	Has the zoo transported animals from one place to	No	
	another and if so CZA transportation protocols were		
	followed?		
	For the purpose of transportation of animals from		
	one place to another, are the standards specified in		
	this regard by the CZA complied with.		
9.6	a. Has the Central Zoo Authority assigned any	No	
	endangered species for Conservation Breeding		
	Programme to the zoo, if so please indicate?		
	b. If a scientific conservation breeding plan species	NA	
	recovery plans for the species have been prepared or		
	not? If the plan is being followed by the zoo?		
	c. Is the Conservation Breeding Facility situated in	NA	
	off display area of the zoo?		
	d. Has the founder population of the species bred in	NA	
	zoo, indicate numbers bred in the zoo?		
	e. Have the animals been conditioned for	NA	
	reintroduction in the wild?		
	f. Has there been sufficient technical inputs from	NA	
	the species experts? Please elaborate the		
	responsibility of conservation breeding of the		
	identified critically endangered species to identified		
	zoos having technical capabilities and housing		
	facilities, preferably close to the distribution range		
	of the species and every zoo shall help the identified		
	zoos in implementing the breeding programme.		
	Please indicate specific cases for the zoo.		
9.7	Has the zoo spared surplus animals from the	No	
	breeding population to the participating zoos for		
	display purposes on the basis of quality of housing		
	and infrastructural facilities available with the		
	concerned zoos?		
9.8	With a view to prevent inbreeding and the loss of	No	
[heterozygosity is the zoo maintaining the animal		
	history cards & stud and herd book for the animals		
L	motory cards & stad and nero book for the animals		

	of endangered species housed in the zoo and putting		
	appropriate identification marks for transfer or		
	exchange animals with other zoos?		
9.9	a. Is the zoo limiting the number of animals of each	This is a new zoo and all animals were	
	species within the limits set by the animal collection	acquired recently except spotted deer.	
	plan of the zoo by implementing appropriate		
	population control measures like segregation of		
	sexes, vasectomy, tubectomy and implantation of		
	pellets etc., with due consideration of the health and		
	welfare of the animals and interest of their long		
	term survival? Please indicate species wise numbers		
	over the last three years.		
	b. What methods of population control were	Isolation for spotted deer.	
	employed and comparative success?	isolution for spotted deer.	
0.10		It has been in compared in mostor alon	
9.10	Has the zoo implemented disaster management	It has been incorporated in master plan.	
	plan, training and mock drills to prevent accidents		
	in zoo in accordance with master plan?		
	Indicate action taken for safeguard against any	-	
	accident/ escape of the zoo animals from the		
	premises of the zoo and in the event of any		
	accidental escape, immediate action was taken to		
0.11	retrieve the escaped animals?	N	
9.11	Has the zoo released any surplus captive animal into	No	
	the wild except in accordance with the norms		
	specified by the Central Zoo Authority in this		
	regard? Annex details		
9.12	Is the hybridization of species or races of same	No	
	species taking place in the zoo? Which species?		
		search Activities	
10.1	a. Has the zoo implemented a research plan as	No	
	indicated in the Master Plan and conducted research		
	on the prioritized species and specific areas of		
	concern?		
	b. Has the zoo accessed grants form CZA or other	No	
	institutions/agencies for the Research Project.		
	Indicate details and outcomes?		
	c. Is the zoo carrying out collaborative research for	No	
	evolving innovative strategies for providing the		
	animals housed in the zoo a better quality of life,		
	enhanced longevity, higher genetic and behavioural		
	viability and improved reproduction potential and to		
	achieve the said goal. (Every zoo, other than mini		
	zoos, shall make arrangements for meticulous		
	recording of data on the social behaviour, group		
1	dynamics and reproductive biology of the species		
	housed in the zoo and developing a data base to be		
	shared with other zoos and the identified		
1	institutions, in accordance with norms specified by		
	the Central Zoo Authority in this regard)		
	d. Research paper/ technical reports published.	No	
	Details of its implementation.		
	11. Education	and Outreach Activities	
11.1	a. Has the zoo made efforts to educate the visitors to	Yes, many school, college students are	
1	the zoo and the people at large about the	visiting the zoo. Researchers from WII also	
	significance of wildlife conservation for the general	visiting the zoo as a part of study tour.	
	well-being of the people and keeping the life	Different state forest department staffs also	
	support system of nature intact and to make people	visiting the zoo as a part of their study tour.	
	aware about the role played by the zoos in this		
1	regard and the ways and means through which		
	general public can participate and contribute for the		
	same?		
•			

1	h Wilson the see has an units signed and	Van dataila almo de sieren in comuliance	
	b. Whether the zoo has appropriate signage and interpretation facilities, Souvenir Shop, Library	Yes, details already given in compliance	
	Facility accessible, dedicated Website and carrying	report.	
	out the Outreach and awareness, Guided Tour,		
	celebrations of various events		
11.2	Is physical handling or performances by animals	No	
11.2	permitted as part of educational activity?	INO	
		sitor Facilities	
12.1	Is the zoo providing adequate civic facilities for	sitor racinties	
12.1	visitors at appropriate and convenient places in the		
	zoo including physically disadvantaged persons and		
	such facilities are so located that they do not mask		
	or impact the view of enclosures?	Ver et 2 als est	
	a. Drinking Water	Yes, at 3 places	
	b. Urinals	Yes, at 4 places	
	c. Ramps	Yes, at all places	
	d. Wheel chairs	Yes, at entry gate	
	e. Battery Operated vehicles	No	
	f. Lawns	Yes	
	g. Visitor shed	Yes, at 3 places	
	h. Kiosks	No	
	i. rain shelters	Yes, at 3 places	
	j. cloak rooms for the visitors	Yes, at entry gate	
	k. zoo visitor guides	No	
	1. Public Announcement systems, fire alarm	Yes	
	during emergency.		
12.2	Does the zoo have first aid facilities including snake	Yes, at entry gate and office	
	anti-venom and life saving drugs, readily available		
	in the zoo premises?		
12.3	Is the zoo making arrangements for providing	Yes, details already given in compliance	
12.3	access to the physically challenged persons for		
	viewing wild animals at various animal enclosures?	report.	
	viewing with animals at various animal enclosures?		

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

A. Mammals

S. No.	SPECIES NAME	COMMON NAME	SCIENTIFIC NAME	Numbers	
1		Deer Spotted (Chital)	Axis axis	51	
	Total				

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.

S.No	COMMON NAME	SCIENTIFIC NAME
1.	Himalayan Griffon	Gyps himalayensis
2.	Black Kite	Milvus migrans
3. Red-wattled Lapwing		Vanellusindicus
4.	Rock Pigeon	Feral Pigeon/ Columbia livia Feral

		Pigeon	
5.	Himalayan Swifftlet	Aerodramus Brevirostris	
6.	Alpine Swift	Tachymarptis melba/Apus Melba	
7.	Little Swift	Apus affinis/Indian House Swift	
8.	Indian Grey Hornbill	Ocyceros Birostris	
9.	Oriental Pied-Hornbill	Anthracoceros Albirostris	
10.	Lineated Barbet	Psilopogon Lineatus	
11.	Brown-headed Barbet	Psilopogon Zeylanicus	
12.	Grey-capped Woodpecke	Picoides Canicapillus	
13.	Lesser Yellownape	Picuschlorolophus	
14.	Grey Head woodpecker	Picuscanus	
15.	Long Tailed minivet	Pericrocotus Ethologus	
16.	Large-billed Crow	Corvus Macrorhynchos	
17.	Dusky Crag Martin	Ptyono Progne Concolor	
18.	Red-rumped Swallow	Cecropis Daurica	
19.	Yellow-bellied Fantail	Chelidorhynx Hypoxanthus	
20.	Grey headed Canary-Flycatcher	Culicicapa Ceylonensis	
21.	Cinereous Tit	Parus Cinereus	
22.	Chestnut-bellied Nuthatch	Sitta Cinnamoventris	
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	Phylloscopusx Anthoschistos	
30.	Whistler's Warbler	Phylloscopus Whistleri	
31.	Common Tailorbird	Orthotomus Sutorius	

32.	Grey-breasted Prinia	Prinia Hodgsonii or Franklin's prinia
33.	Oriental White-eye	Zosterops Palpebrosus
34.	Rusty-cheeked Scimitar-Babbler	Pomatorhinus Erythrogenys
35.	Jungle Babbler	Argya Striata
36.	Blue Whistling-Thrush	Myophonus Caeruleus
37.	Rufous-gorgeted Flycatcher	Ficedula Strophiata
38.	Red-breasted Flycatcher	Ficedula Parva
39.	Grey Bush chat	Saxicola Ferreus
40.	Common Myna	Acridotheres Tristis
41.	Grey Wagtail	Motacilla Cinerea
42.		

C. Reptiles

S.No.	SPECIES NAME	COMMON NAME	SCIENTIFIC NAME	Numbers
1.		Cobra	Najanaja	
2.		Rat Snake	Zamenis Longissimus	
3.		Russel viper	Daboia Russelii	These species are commonly
4.	Reptiles	Monitor lizard	Varanusspe	found in the zoo premises however, exact number
5.		Python	Python bivittatus	uncertain
6.		Common trinket	Coelognathus helena	
7.		Himalayan trinket	Orthriophis Hodgsoni	

(Nitish Mani Tripathi) Director, Dehradun Zoo