Padmaja Naidu Himalayan Zoological Park, Darjeeling, West Bengal

Annual Report for the year 2017-18



CONTENTS

S.No	Section	Page Number
1.	Report of the Officer-in-charge	1
2.	History of the Zoo	2
3.	Vision	2
4.	Mission	2
5.	Objective	2
6.	About us	3-5
7.	Organizational Chart	Annexure I
8.	Human Resources	6-8
9.	Capacity Building of the zoo personnel	9
10.	Zoo Advisory Committee	10
11.	Health Advisory Committee	10
12.	Statement of income and expenditure of the Zoo	11
13.	Daily feed Schedule of animals	12-17
14.	Vaccination Schedule of animals	18
15.	De-worming Schedule of animals	19

S.No	Section	Page Number				
16.	. Disinfection Schedule					
17.	. Health Check-up of employees for zoonotic diseases					
18.	Development Works carried out in the zoo during the year	23				
19.	Education and Awareness programmes during the year	23-34				
20.	Important Events and happenings in the zoo	35-49				
21.	Seasonal special arrangements for upkeep of animals	49-50				
22.	Research Work carried out and publications	51-52				
23.	Conservation Breeding Programme of the Zoo	53-62				
24.	Animal acquisition / transfer / exchange during the year	63-64				
25.	Rescue and Rehabilitation of the wild animals carried out by the zoo	64				
26.	Annual Inventory of animals	Copy Attached				
27.	Mortality of animals.	Copy Attached				
28.	Status of the Compliance with conditions stipulated by the Central Zoo Authority	66-68				
29.	List of free living wild animals within the zoo premises	69-72				

1. <u>Report of the Officer-in-charge</u>

The great majority of modern zoos focus heavily on conservation work and education. Padmaja Naidu Himalayan Zoological Park has developed an international reputation for its conservation work, in particular its breeding for release programmes for endangered and threatened native species. Padmaja Naidu Himalayan Zoological Park also has a strong commitment to its community education programme about conservation, environmental management, and the need to ensure biodiversity.

The activities of the Park during this annual got hampered during the ongoing Political unrest from June to September 2017. The visitors footfall remained confined to only about 4,34,111. Many of the regular activities of the park like animal exchange and educational programmes got affected.

Post June after the normal functioning of the office resumed, the newly constructed veterinary hospital was made functional and the old existing hospital wing was handed over to the Research and Education section of the park.

Births of endangered species like the Red panda (*Ailurus fulgens fulgens*), Temminck's Tragopan (*Tragopan temmincki*), other high altitude species were witnessed. Educational programmes resumed with the park entertaining 1,236 students from various school/colleges/universities/ training institutes imparting lectures and involving them in various activities concerning wildlife and its importance and the role that zoos have undertaken for their conservation.

Capacity building of the staffs was one of the major activities that the park got involved into, the veterinary officer of the park Dr Uttam Mani Pradhan was trained by the Central Zoo Authority in collaboration with the Smithsonian, U.S.A in New Delhi in the area of the of Animal health management and Veterinary wildlife medicine, similarly the Zoo Biologist including the zoo keepers were sent for capacity building. During my tenure as a Director i attended a workshop for preparing a visionary document for the zoo management in future at Mysore.

2. <u>History of the Zoo</u>

The Padmaja Naidu Himalayan Zoological Park Darjeeling formerly known as Himalayan Zoological Park, Darjeeling was established on 14th August, 1958. In 1975 Late Smt. Indira Gandhi, then the Prime Minister of India, dedicated the Himalayan Zoological Park in memory of Late Smt. Padmaja Naidu, Ex-Governor of West Bengal and the Park was renamed Padmaja Naidu Himalayan Zoological Park. The land on which the Zoological Park is standing was acquired by the British Govt. in the late 19th Century and developed as a Public Park known as Birch Hill Park. After Independence the Govt. of India and the Govt. of West Bengal decided to develop the Birch Hill Park as Zoological Park for Conservation of Eastern Himalayan ecosystem.

3. <u>Vision</u>

Conservation Breeding and Conservation Education.

4. <u>Mission</u>

Assisting the National efforts for conservation of the Eastern Himalayan Ecosystem by ex-situ conservation breeding of its endangered fauna, conservation education and research to augment these conservationinitiatives.

5. <u>Objective</u>

The Zoological Park is striving for the maintenance of ecological balance in the Eastern Himalayas with the following objectives:

- 1) Ex-situ Conservation & Captive breeding of endangered Himalayan animal species.
- 2) Educating, motivating and initiating awareness campaign among the local people as well as the visitors on the importance of conservation of Himalayan eco-system.
- 3) Initiating applied research on animal biology, behaviour and health care.

6. <u>About us</u>

S.No.	Particulars	Information
Basic	Information about the Zoo	
1	Name of the Zoo	Padmaja Naidu Himalayan Zoological Park.
2	Year of Establishment	14 th August, 1958
3	Address of the Zoo	Padmaja Naidu Himalayan Zoological Park, Jawhar Parbat (West), Dist Darjeeling, 734101
4	State	West Bengal.
5	Telephone Number	0354-2253709/2254250
6	Fax Number	0354-2252522
7	E-mail address	pnhzp@yahoo.com
8	Website	www.pnhzp.gov.in
9	Distance from nearest	Airport: Bagdogra` International Airport: 67 kms Railway Station:New Jalpaiguri Railway Station: 73.8 Kms
		Bus Stand: Tenzing Norgay Bus Stand: 64.1 kms
11	Category of zoo	Medium
12	Area (in Hectares)	Main Zoo including old breeding Centre - -27.341 hectares. Conservation Breeding Centre for Herbivores and Pheasants, Dow Hill,

S.No.	Particulars	Information
		Kurseong- 4.65 hectares Conservation Breeding Centre for Red Panda and Snow leopard, Topkedara, 3 rd Mile - 5 hectares
13	Number of Visitors (Financial Year)	Adult : -
		Children : -
		Total Indian : 4,25,394
		Total Foreigners : 8717
		Total Visitors: 4,34,111
14	Visitors' Facilities Available in Zoo	i. Rain Shelter ii. Restingbenches iii. Wheel Chairs iv. Kikos v. Drinking water vi. Toilets vii. Child care room
15	Weekly Closure Day of the Zoo	Thursday
Manag	gement Personnel of the zoo	
16	Name with designation of the Officer	Shri. Piar Chand IFS, Director
10	Name with designation of the Officer	Shin. Flar Chand IFS, Dilector
	in-charge	
	Name of the Veterinary Officer	Dr. Uttam Mani Pradhan
	Name of the Curator	Shri Purna Ghishing
	Name of the Biologist	Ms. Upashna Rai
	Name of the Education Officer	Ms. Pranita Gupta

S.No.	Particulars	Information		
	Name of the Compounder/ Lab	Compounder: Shri Pradip Singh/Lab Assistant: Shri. Vikash Chettri		
	Assistant			
Owne	r / Operator of the Zoo			
17	*Name of the Operator	i. Department of Forest, Govt. of West Bengal.ii. West Bengal Zoo Authority.		
18	Address of the Operator	Aranya Bhavan, Block-LA, 10-A, Sector-III, Salt Lake, Kolkata-700106		
19	Contact details/Phone number of Operator	. Department of Forest, Govt. of West Bengal: 033 2335 7751 West Bengal Zoo Authority:033- 23355010		
20	E-mail address of Operator	Department of Forest, Govt. of West Bengal:		
		micforest@wb.gov.in		
		West Bengal Zoo Authority:		
		mswbza@gmail.com		

* Rule 2(m) of the Recognition of Zoo Rules, 2009.

"Zoo Operator" means the person who has ultimate control over the affairs of the zoos provided that_____

I. in the case of a firm or other association of individuals, any one of the individual partners or members thereof; or

II. in the case of a company, any director, manager, secretary or other officer, who is in-charge of and responsible to the company for the affairs of the zoo; or

III. In case of zoo owned or controlled by the Central Government or any State Government or Union Territory Administration or any Trust or Society funded by the Central Government or a State Government or a Union Territory Administration, the Secretary of the concerned Department of that Government, or as the case may be the Union Territory Administration, shall be deemed to be the Zoo Operator.

7. Organizational Chart

(copy attached)

8. Human Resources

Manpower of the Zoo*

SI.No.	Designation	Number of Sanctioned Posts	Names of the incumbent
1	Director	1	Mr Piar Chand
2.	Asst. Director	1	-
3	Veterinary Officer	1	Dr Uttam Mani Pradhan
4	Zoo Biologist	1	Mrs Upashna Rai
5	Zoo Supervisor	2	Mr Purna Ghissing
6	Museum Supervisor	1	-
7	Estate / Security Supervisor	1	Mr Shiromani Syangden
8	Research Assistant	1	Miss Rohini Chettri
9	Education Assistant	1	Miss Pranita Gupta
10	Library Assistant	1	-
11	Taxidermist	1	Mr Sairus Bhaktaraj
12	Laboratory Assistant	1	Mr Vikash Chettri
13	Veterinary Assistant	2	

14	Asst. Zoo Supervisor	2	Mr Deepak Roka
15	Asst. Estate / Security Supervisor	2	Mr Siddharth Chettri
16	Gate Keeper	2	i. Mr Krishna Roy ii. Mr Ashok Chettri
17	Driver	2	Mr. Elvin Lepcha
18	Zoo Keeper	16	 i. Mr Subash Sharma ii. Mr Nipan Tamang iii. Mr Ruden Lepcha iv. Mr Amar Chettri v. Mr Binod Kumar Subba vi. Mr Bidhan Tamang vii. Mr Sachin Sunam viii. Mr Pinang ix. Mr Sanil Rai xi. Mr Pranay Thapa xiii. Mr Pawan Subba xiv. Mr Anil Das.
19	Cook	1	Mr Samson Tamang
20.	Head Clerk	1	-
21	Accountant	1	Mrs Karunal Niroula
22	PA to Director	1	Mrs Mamta Subba
23	Store keeper	1	Mr Ashim Gurung
24	UDC/OA/TA	2	Mrs Sangita Lama

25	LDC	4	Mr Gopal Pradhan, Mrs Ranju Gurung.
26	Ticket Clerk	2	Mr Mir Tshering Tamang
27	Support staff		
	a) Security	30	-
	b) Sanitation	10	Mr Chandra Pal Balmiki Mrs Chnda Devi Balmiki
	c) Garden	10	Mr Bharat Rasaily Mr Maiti Chettri Miss Aariti Rai
	d) Attendant	14	Mr Dawa Sherpa Mr Nawang Sherpa Miss Chumki
	e) Animal Attendant	16	

9. Capacity Building of zoo personnel

SI.No	Name and designation of the zoo personnel	Subject matter of Training	Period of Training	Name of the Institution where the Training
				attended
1	Dr Uttam Mani Pradhan. Veterinary officer.	Capacity building of Indian Zoo Veterinaries on animal health	16.09.2017- 19.09.2017	National Zoological Park, New Delhi.
		management in captivity.		
2	Miss Upashna Rai, Zoo Biologist.	Wildlife middle level zoo Officials Training Programme	11.12.2017- 14.12.2017	Sanjay Gandhi Biological Park. Patna, Bihar.
3	Mr Piar Chand I.F.S. Zoo Director	Vision 2030 of the zoos in India	18.12.2017- 21.12.2017	Sri Chamarajendra Zoological Gardens, Mysuru.
4	Miss Upashna Rai, Zoo Biologist.	Interactive session on Zoological Information Management System (ZIMS) & data entry in the software- reg.	12.02.2018- 13.02.2018	Sanjay Gandhi Biological Park. Patna, Bihar.
5	Mr Binod Subba Zoo Keeper	Zoo Keeper's training programme.	20.03.2018- 25.03.2018	Nandankanan Zoological Park, Odisha.

- 10. Zoo Advisory Committee
 - a. Date of constitution
 - b. Members
 - c. Dates on which Meetings held during the year
- 11. Health Advisory Committee
 - a. Date of constitution
 - b. Members
 - c. Dates on which Meetings held during the year

Note: The Park do not have any of the two Committees mentioned above, however the Park is governed by the West Bengal Zoo Authority, Govt. of West Bengal.

12. Statement of income and expenditure of the Zoo

SI.	Year	Source of	Receipt in Rupe		Expenditure in	
No	(2017-18)	fund	Non-Plan	Plan	Non-Plan	Plan
• 1	As grant in aids	Deptt. Of Forest, Govt. of West Bengal	8,93,75,000.00		8,93,75,000.00	
2	As grants under Non-plan	Zoo Authority of West Bengal	5,90,00,000.00		5,90,00,000.00	
3	As grants under state Plan/Annual Plan	Zoo Authority of West Bengal		28,90,636.00		28,90,636.00
4	Gate Fee Collection:					
	a) Zoo Ticket		1,49,06,645.00		12,76,080.00	
	b) Zoo Camera		2,76,080.00		2,76,080.00	
	c) Animal Adoption		61,00.00		61,00.00	
	d) Guest House		7,400.00		7,400.00	
	e) Souvenir Shop		47,377.00		47,377.00	
	f) Fee from rental store		1,52,560		1,52,560	
	Total Budget Rs N		n+ Plan= 16,38,26	 5,062+28,90,636	 = 16,67,16,698.	<u> </u>

13. Daily feed Schedule of animals

SI.	SI. Species		Species Feed item		Quantity		
No				Winter	Summer	fasting	
•							
	Mammals						
1	Red Panda (Ailurus fulgens	i. ii. iii. iv. v. vi.	Egg Banana Apple Honey Milk Bamboo leaves	1 pc 2 pcs 500 gms 50 ml 500 ml 4 kgs	1 pc 2pcs 500 gms 100 ml 500 ml 4kgs	No fasting day observed	
2	Snow Leopard(Uncia uncial)	i. ii. iii.	Beef Chicken Mutton	3kgs 3kgs 3kgs 3kgs	3kgs 3kgs 3kgs 3kgs	Thursdays	
3	Himalayan Wolf (Canis himalayensis)	i. ii.	Beef Chicken	1.5 kgs 1.5 kgs	1.5 kgs 1.5 kgs	Thursdays	
4	Himalayan Tahr (Hemitragus jemlachius)	i. ii. iv. v. vi. vii. vii. x.	Crushed Maize Gram Crushed wheat Barley Salt Wheat Bran Green fodder Molasses Turmeric Pulses (Mung, Musur soaked)	500 gms 250 gms 500 gms 250 gms 20 gms 1 kgs 20 kgs 30 gms 350 gms	500 gms 250 gms 500 gms 250 gms 20 gms 1 kgs 20 kgs 800 gms 30 gms 350 gms	No fasting day observed	
5.	Himalayan Goral(Naemorh aedus goral)	i. ii. iv. v. vi. vii. vii. ix. x.	Crushed Maize Gram Crushed wheat Barley Salt Wheat Bran Green fodder Molasses Turmeric Pulses (Mung, Musur soaked)	500 gms 200 gms 500 gms 200 gms 20 gms 500 gms 15 kgs 30 gms 350 gms	500 gms 200 gms 500 gms 200 gms 20 gms 500 gms 15 kgs 800 gms 30 gms 350 gms	No fasting day observed	
6.	Markhor(Capra falconeri)	i. ii. iv. v. vi. vii. vii.	Crushed Maize Gram Crushed wheat Barley Salt Wheat Bran Green fodder Molasses	500 gms 250 gms 500 gms 500 gms 20 gms 500 gms 20 kgs	500 gms 250 gms 500 gms 500 gms 20 gms 500 gms 20 kgs 800 gms	No fasting day observed	

		ix. x.	Turmeric Pulses (Mung, Musur soaked)	30 gms 350 gms	30 gms 350 gms	
7.	Barking Deer(Muntiacus muntjac)	i. ii. iv. v. vi. vii. vii. ix. x.	Crushed Maize Gram Crushed wheat Barley Salt Wheat Bran Green fodder Molasses Turmeric Pulses (Mung, Musur soaked)	500 gms 200 gms 500 gms 250 gms 20 gms 500 gms 15 kgs 30 gms 300 gms	500 gms 200 gms 500 gms 250 gms 20 gms 500 gms 15 kgs 800 gms 30 gms 300 gms	No fasting day observed
8	Blue Sheep(Pseudoi s nayaur)	i. ii. iv. v. vi. vi. vii. ix. x.	Crushed Maize Gram Crushed wheat Barley Salt Wheat Bran Green fodder Molasses Turmeric Pulses (Mung, Musur soaked)	500 gms 200 gms 500 gms 250 gms 20 gms 500 gms 15 kgs 30 gms 350 gms	500 gms 200 gms 500 gms 250 gms 20 gms 500 gms 15 kgs 800 gms 30 gms 350 gms	No fasting day observed
9.	Sambar Deer(Rusa unicolor)	i. ii. iv. v. vi. vii. vii. x.	Crushed Maize Gram Crushed wheat Barley Salt Wheat Bran Green fodder Molasses Turmeric Pulses (Mung, Musur soaked)	500 gms 450 gms 500 gms 450 gms 20 gms 2 kgs 30 kgs 30 gms 350 gms	500 gms 450 gms 500 gms 450 gms 20 gms 2 kgs 30 kgs 800 gms 30 gms 350 gms	No fasting day observed
10.	Yak(Bos grunniens)	i. ii. iv. v. vi. vi. vii. vii. ix.	Crushed Maize Gram Crushed wheat Barley Salt Wheat Bran Green fodder Molasses Turmeric	500 gms 450 gms 500 gms 450 gms 20 gms 2 kgs 30 kgs 30 gms	500 gms 450 gms 500 gms 450 gms 20 gms 2 kgs 30 kgs 800 gms 30 gms	

		Х.	Pulses (Mung, Musur soaked)	350 gms	350 gms	
11.	Royal Bengal Tiger(Panthera tigris)		Beef	14 kgs	14 kgs	Thursdays
12.	Common Leopard(Panth er pardus)	i. ii. iii.	Beef Chicken Mutton	3.5kgs 3.5kgs 3.5kgs	3.5kgs 3.5kgs 3.5kgs	
13.	Clouded Leopard(Neofel is nebulosa)	i. ii. iii.	Beef Chicken Mutton	2.5kgs 2.5kgs 2.5kgs	2.5kgs 2.5kgs 2.5kgs	Thursdays
14	Asiatic Black Bear(Ursus thibetanus)	i. ii. iii. iv. v. vi. vi.	Wheat chappati Rice Soup (beef/ mutton/ chicken) Sattu balls Soaked, boiled and crushed chana Vegetables like cabbage, potato, tomato, cucumber, raddish, carrot, turnip, peas, pumpkin, squash, tubers(locally available), maize, celery, all forms of leafy vegetables Fruits like guava, apple (in less quantity), sugarcane, grapes, whole watermelon, lemon (locally available) . Honey Milk	7 pcs 250 gms 1 lts 2 pcs 250 gms 1 kg 500-600 gms	7 pcs 250 gms 1 lts 2 pcs 250 gms 1kg 500-600 gms	
		x. xi.	Molasses Boiled eggs	250 ml 500 ml 250 gms	250 ml 500 ml 300 gms	
15	JackalCanis aures)	i. ii.	Beef Chicken	2pcs 1 kg 1kg	2pcs 1 kg 1kg	Thursdays

16	Leopard Cat(Prionailuru s bengalensis)	i. Mutton ii. Beef iii. Chicken	500 gms 500 gms 800 gms	500 gms 500 gms 800 gms	Thursdays
17	Himalayan Palm Civet(Pagumal larvata)	i. Banana ii. Apple	200-400 gms 200-400 gms	200-400 gms 200-400 gms	Thursdays
		iii. Cardomom iv.Mutton with mutton heart	50 gms 150 gms	50 gms 150gms	
18	Asian Palm Civet(Prionailu rus hermaphrodites)	i Banana ii.Apple iii.Beef iv.Mutton	200-400 gms 200-400 gms 150 gms 150 gms	200-400 gms 200-400 gms 150 gms 150gms	Thursdays
19	Common Grey langur(Semnopi thecus entellus)	i.Groundnuts ii.Potato/tubers ii.Green leafy vegetables, bamboo, fodder leaves. iv.Boiled eggs v.Apple	200gms 100 gms 300 gms 1pc 200-300 gms	200 gms 100gms 300 gms 1pc 200-300 gms	No fasting
20	Slow loris(Nycticebus bengalensis)	i.Egg ii.Banana with other seasonal fruits iii.Mutton	1pc 70 gms 50 gms	1pc 70 gms 50 gms	No fasting
21	Jungle cat(Felis chaus)	i.Mutton ii.Beef iii.Chicken	750 gms 750 gms 750 gms	750 gms 750 gms 750 gms	Thursdays
22	Pheasants				
	Total species		50 areas	50 area a	
	Himalayan Monal (Lophoph orus impejanus), Cheer Pheasant (Catr eus wallichii), Temminck's Tragopan (Trag opan	 i. Crushed maize ii. Onion iii. Green & leafy vegetables (lettuce, cabbage, leaves of raddish, carrots, citrus fruits, turnip, palak, raya, simraya, raddish and carrot 	50 gms 10 gms 100 gms	50 gms 10 gms 100 gms	No fasting

	temminickki), Grey Peacock Pheasant(Poly pectron bicalcaratum), Red Jungle Fowl(Gallus gallus), Kaleej Pheasant(Loph ura leucomelana), Golden Pheasant(Chry solophus pictus), Reeves Pheasant(Syrm aticus reevesii), Silver Pheasant(Loph ura nycthemea) and Lady Amhrest(Chrys olophus amherstia).	iv. v. vi. vii. viii. ix.	leaves kumra etc. Marble chips Mutton heart Wheat & paddy husk Boiled egg with shell Sattu Balls Eggs	10 gms 20 gms 50 gms 1 pc 20 gms 1 pc	10 gms 20 gms 50 gms 1pc 20 gms 1 pc	
23	Exotic Birds Red and Blue	i.	Groundnuts, soaked	25 gms	25 gms	No fasting
	Macaw(Ares		gram/pulses			, second g
	<i>chloropterus),</i> Blue and Gold	ii. iii.	Tomato (Solid) Green Chilly (Solid)	25 gms 50 gms	25 gms 50 gms	
				•		
	Macaw(Ares	iv.	Crushed Maize	50 gms	50 gms	
	Macaw(Ares chloropterus),		Green & leafy	50 gms 50 gms	50 gms 50 gms	
	Macaw(Ares chloropterus), Bare Eyed	iv.	Green & leafy vegetables			
	Macaw(Ares chloropterus), Bare Eyed Cockatoo(Caco	iv.	Green & leafy vegetables (seasonally available)	50 gms	50 gms	
	Macaw(Ares chloropterus), Bare Eyed Cockatoo(Caco tua sanguine), Sulphur	iv. v.	Green & leafy vegetables			
	Macaw(Ares chloropterus), Bare Eyed Cockatoo(Caco tua sanguine), Sulphur Crested	iv. v.	Green & leafy vegetables (seasonally available)	50 gms	50 gms	
	Macaw(Ares chloropterus), Bare Eyed Cockatoo(Caco tua sanguine), Sulphur Crested Cockatoo(Caco	iv. v.	Green & leafy vegetables (seasonally available)	50 gms	50 gms	
	Macaw(Ares chloropterus), Bare Eyed Cockatoo(Caco tua sanguine), Sulphur Crested Cockatoo(Caco tua sulphurea), African Grey	iv. v.	Green & leafy vegetables (seasonally available)	50 gms	50 gms	
	Macaw(Ares chloropterus), Bare Eyed Cockatoo(Caco tua sanguine), Sulphur Crested Cockatoo(Caco tua sulphurea), African Grey parrot(Paittacus	iv. v.	Green & leafy vegetables (seasonally available)	50 gms	50 gms	
	Macaw(Ares chloropterus), Bare Eyed Cockatoo(Caco tua sanguine), Sulphur Crested Cockatoo(Caco tua sulphurea), African Grey parrot(Paittacus erithacus),	iv. v.	Green & leafy vegetables (seasonally available)	50 gms	50 gms	
	Macaw(Ares chloropterus), Bare Eyed Cockatoo(Caco tua sanguine), Sulphur Crested Cockatoo(Caco tua sulphurea), African Grey parrot(Paittacus erithacus), Cocktaiels(Nym phicus	iv. v.	Green & leafy vegetables (seasonally available)	50 gms	50 gms	
	Macaw(Ares chloropterus), Bare Eyed Cockatoo(Caco tua sanguine), Sulphur Crested Cockatoo(Caco tua sulphurea), African Grey parrot(Paittacus erithacus), Cocktaiels(Nym phicus hollandicus),	iv. v.	Green & leafy vegetables (seasonally available)	50 gms	50 gms	
	Macaw(Ares chloropterus), Bare Eyed Cockatoo(Caco tua sanguine), Sulphur Crested Cockatoo(Caco tua sulphurea), African Grey parrot(Paittacus erithacus), Cocktaiels(Nym phicus hollandicus), Rose Breasted	iv. v.	Green & leafy vegetables (seasonally available)	50 gms	50 gms	
	Macaw(Ares chloropterus), Bare Eyed Cockatoo(Caco tua sanguine), Sulphur Crested Cockatoo(Caco tua sulphurea), African Grey parrot(Paittacus erithacus), Cocktaiels(Nym phicus hollandicus),	iv. v.	Green & leafy vegetables (seasonally available)	50 gms	50 gms	
	Macaw(Ares chloropterus), Bare Eyed Cockatoo(Caco tua sanguine), Sulphur Crested Cockatoo(Caco tua sulphurea), African Grey parrot(Paittacus erithacus), Cocktaiels(Nym phicus hollandicus), Rose Breasted cockatoo	iv. v.	Green & leafy vegetables (seasonally available)	50 gms	50 gms	

	Turaco <i>(Taurac</i>					
	Reptiles					
24	Indian Rock Python(Python molurus), Indian Sand Boa(Erynx johnii), Rat Snake(Ptyas mucosa) and Russell's Viper(Daboia russelii)	i. ii.	1 day old chick after every 10 days White mice after every 10 days	2 chicks 2 mice	2 chicks 2 mice	No fasting
	Checkered Keelback(Xeno chroptis piscator)	Fish a	after every 3-4 days	250gms	250gms	No fasting
	Elongated Tortoise (Indotestudo elongate)	i. ii.	Apple Banana	100 gms 100 gms	100 gms 100 gms	No fasting
	Bengal Monitor Lizard (Varanus bengalensis)	i. ii.	Chicken Fish	500 gms 500 gms	500 gms 500 gms	No fasting

14. Vaccination Schedule of animals

SI. No	Species	Disease vaccinated for	Name of the Vaccine and dosage/ quantity used	Periodicity	Remarks
1	 a) Himalayan Wolf (Canis himalayensis) b) Jackal (Canis aures) 	 Dhippl a) Cannine distemper b) Adenovirus c) Parvovirus d) Parainfluenza e) Heptatis f) Leptospirosis 	 Megavac 7 1ml s/c Rakshareb 1ml s/c 	Annual	
		2. Rabies			
2.	a) Snow Leopard	1) Feline	1 Biofel PCHE	Annual	
	<i>(Uncia uncial)</i> b) Royal Bengal Tiger <i>(Panthera</i> <i>tigris tigris)</i>	a. Panleucopeniab. Calcivirusc. Hepes virusd. Rabies	1ml s/c or I/M		
	c) Common Leopard <i>(Panther pardus)</i>				
	d) Jungle Cat (Felis chaus)				
	e) Leopard Cat (Prionailurus bengalensis)				
	f) Clouded Leopard (Neofelis nebulosa)				

15. De-worming Schedule of animals

SI.No.	Species	Drug used	Month
	Herbivores		
	a) Markhor (Capra		
	falconeri)		
	b) Himalayan Tahr		
	(Hemitragus		
	jemlachius)		
	c) Blue Sheep		
	(Pseudois nayaur)		
	d) Sambar Deer		
	(Rusa unicolor)		
	e) Yak (Bos grunniens)		
	f) Barking Deer		
	(Muntiacus muntjac)		
	g) Himalayan Goral		
	(Naemorhaedus	I. Albendazole	Quarterly.
	goral)	II. Fenbendazole	Deworming repeated
	Canines	III. Oxfendazole	if found positive in
	a) Jackal	IV. Praziquantel	stool examination.
	b) Himalayan wolf	V. Pyrantel pamoate	
	Felines		
	a) Snow leopard	(Used alternatively)	
	b) Royal Bengal		
	Tiger		
	c) Common leopard		
	d) Jungle cat		
	e) Clouded leopard		
	f) Leopard cat		
	a) Red Panda		
	a) Asiatic Black Bear		
	b) Pheasants & Birds		
	c) Slow Loris	l	

16. Disinfection Schedule

SI.No.	Species	Type of enclosure	Disinfectant used and method	Frequency of disinfection
1	All species	open	 a) Formalin b) Sodium hypochlorate 2% c) Khorsolin 10 ml X 1 litre. d) Cetradine 10 mlX 	After every fortnight
2	All species	Night Shelters	 1 litre a) A) Khorsolin 10 ml X 1 litre. b) Cetradine 10 mlX 1 litre c) Potassium permanganate d) Savlon e) Flame disinfection using LPG. 	Daily Used alternately with Khorsolin Daiily Daily

17. Health Check-up of employees for zoonotic diseases

SI.No	Name	Designation	Date of Health	Findings of
-			Check up	Health Check
				up
1	Mr. Subash Sharma	Zoo keeper	14.06.2018	No major
				ailments
				observed
2	Mr. Nipon Tamang	Zoo Keeper	14.06.2018	No major
				ailments
				observed
3	Mr. Pradip Singh	Veterinary	14.06.2018	No major
		Compounder		ailments
				observed
4	Mr. Ruden Lepcha	Veterinary Zoo	14.06.2018	No major
		keeper		ailments
		1		observed
5	Mr. Deepak Roka	Asst. Animal	14.06.2018	No major
		Supervisor		ailments
				observed
6.	Mr. Purna Ghishing	Animal Supervisor	14.06.2018	No major
				ailments
				observed

SI.No	Name	Designation	Date of Health	Findings of
			Check up	Health Check
				up
7	Mrs. Anju Sarwar	Office Peon	14.06.2018	No major
				ailments
				observed
8	Mrs. Ranju Gurung	LDC	14.06.2018	No major
				ailments
				observed
9	Mr. Gulshan Gurung	Estate Labourer	14.06.2018	No major
				ailments
				observed
10	Mrs. Mamta Subba	P.A. to Director	14.06.2018	No major
				ailments
				observed
18.	Mr. Vikash Chettri	Veterinary	14.06.2018	No major
		Laboratory		ailments
		Assistant		observed
19.	Dr. Uttam Mani	A.D.V.O	14.06.2018	No major
	Pradhan			ailments
				observed
20.	Mr. Krishna Roy	Guard	14.06.2018	No major
				ailments
				observed
21.	Mr. Chandan Tamang	Peon	14.06.2018	No major
				ailments
	-			observed
22.	Mr. Suresh Reshmi	Taxidermist	14.06.2018	No major
				ailments
				observed
23.	Mrs. Chanda Devi	Sweeper	14.06.2018	No major
	Balmiki			ailments
		0	44.00.0040	observed
24.	Mr. Chandra Pal	Sweeper	14.06.2018	No major
	Balmiki			ailments
25	Mr. Dowo Sharpa		14.06.2018	observed
25.	Mr. Dawa Sherpa	D.L.	14.00.2010	No major ailments
				observed
26.	Mr. Amar Chettri	Zoo Keeper	14.06.2018	No major
20.			17.00.2010	ailments
				observed
27.	Mr. Preetika	Asst. Acountant	14.06.2018	No major
	Lakhandri		11.00.2010	ailments
	Lanianun			observed
28.	Ms. Sabita Sunwar	Office peon	14.06.2018	No major
				ailments
				observed
L	1		1	5555.104

SI.No	Name	Designation	Date of Health	Findings of
			Check up	Health Check
				up
29.	Mr. Dipen Gurung	Zoo Keeper	14.06.2018	No major
	1 5	•		ailments
				observed
30.	Mr. Rakesh Sundas	Zoo Keeper	14.06.2018	No major
				ailments
				observed
31.	Mr. Binod Kumar	Zoo Keeper	14.06.2018	No major
	Subba			ailments
				observed
32.	Mr. Sushant Chettri	Zoo Keeper	14.06.2018	No major
				ailments
				observed
33.	Mr. Sachin Sunam	Zoo Keeper	14.06.2018	No major
				ailments
				observed
34.	Mr. Sujit Rai	Zoo Keeper	14.06.2018	No major
				ailments
				observed
35.	Mr. Sohit Pahari	Zoo Keeper	14.06.2018	No major
				ailments
				observed
36.	Mr. Lakpha Tamang	Zoo Keeper	14.06.2018	No major
				ailments
				observed
37.	Mr. Arjun Tamang	Zoo Keeper	14.06.2018	No major
				ailments
		7 1/	44.00.0040	observed
38.	Mr. Rinchen Tamang	Zoo Keeper	14.06.2018	No major
				ailments
		7	44.00.0040	observed
39.	Mr. Nima Tamang	Zoo Keeper	14.06.2018	No major
				ailments
40.	Mr. Nowong Shorpo	DL	14.06.2018	observed
40.	Mr. Nawang Sherpa	DL	14.00.2010	No major ailments
41.	Mr. Bikash Tamang	DL	14.06.2018	observed No major
41.	IVII. DINASII TAIIIAIIY		14.00.2010	ailments
				observed
42.	Mr. Bharat Rasaily	Mali	14.06.2018	No major
٦∠.	mi. Dharat Nasaliy		17.00.2010	ailments
				observed
43.	Mr. Kushal Chettri	Estate labourer	14.06.2018	No major
- 1 0.			11.00.2010	ailments
				observed
44.	Mr. Amit Pradhan	Office Staff	14.06.2018	No major
- 			17.00.2010	

				ailments observed
45.	Mr. Dhiraj Thapa	Guard	14.06.2018	No major
				ailments
				observed
46.	Mr. C.K. Chettri	Guard	14.06.2018	No major
				ailments
				observed
47.	Mr. Jiten Tamang	Guard	14.06.2018	No major
				ailments
				observed
48.	Mr. Ram Thami	Guard	14.06.2018	No major
				ailments
				observed
49.	Mr. Simon Gurung	Veterinary	14.06.2018	No major
		Compounder		ailments
				observed

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

- 1. Construction of chick rearing house near indigenous Pheasantry.
- 2. Construction of Ladies toilet.
- 3. Construction of Gents toilet.
- 4. Construction of boundary walls along the Lebong cart road below staff quarters.

19. Education and Awareness programmes during the year

The outreach programme of the Park involves students of all levels including trainees. The programme includes a tour of the park followed by an interactive session where topics such as role and functions of the modern zoo, conservation breeding programmes, environmental issues and the work of the zoo in working towards conserving rare and endangered species are discussed. Educational material regarding information on the housed animals of the park, conservation breeding programmes of the zoo, its biodiversity etc. are distributed to the students along with notebooks and lunches.

During the year 2017-2018 the education wing of the Park attended to 1663 students and 238 faculties from 47 institutes.

Date	Name of school/	Number	Number of	Education
Date	Training institute/	of	teachers/	incentives
	Colleges/	students/	instructors	moentives
	Universities	trainees		
07.04.2017	Faculty of	50	04	Education
	Agricultural, Banaras			Materials,
	Hindu University,			Packet
	Varanasi			lunch.Visit to
				Zoo and
				Interaction.
08.04.2017	College of	58	04	Education
	horticulture, Kerala			material,
	Agricultural			Packet
	University			Lunch. Visit to
				Zoo and
				Interaction.
15.04.2017	Grace Academy	52	12	Education
	English School,			material,
	Garidhura			Packet lunch,
				Visit to Zoo
				and
				Interaction.
19.04.2017	St. Michaels Higher	94	06	Education
	Secondary School			material, Visit
	,			to Zoo and
				Interaction.
25.04.2017	DF/Fr Training,	24	01	Education
	Rajabhatkhawa			material,
				Packet lunch.
				Visit to Zoo
				and
				Interaction.
05.05.2017	A.G. School	41	02	Education
				material, Visit
				to Zoo and
				Interaction.
06.05.2017	Rotary Club (Dr.	37	03	Education
	Grahams's Homes,			material,
	St Augustine School,			Packet lunch.
	Vrindavan School)			Visit to Zoo
				and
			-	Interaction.
07.05.2017	Karnataka Forest	46	04	Education
	Academy			material, Visit
				to Zoo and
				Interaction.

10.05.2017	SantNirankari Mission	31	15	Education material, Packet lunch. Visit to Zoo and
12.05.2017	Good Start Montessori School	36	05	Interaction. Education material, Visit to Zoo and
				Interaction.
20.05.2017	Darjeeling Montessori High School	92	13	Education material, Visit to Zoo and Interaction
26.05.2017	Kalijhora Primary School	09	06	Education material, Visit to Zoo and Interaction
23.10.2017	H.M.I Advance course Trainees	61	9	Education Materials, Visit to Zoo Interaction.
23.10.2017	H.M.I Basic course Trainees	65	1	Education Materials,Visit Zoo and Interaction
28.10.2017	Himalayan Run and Trek	55	6	Education Mate and Visit to Zoo.
09.11.2017	Zoological gardens, Trivandrum	11	1	Education Materials, Visit to Zoo Interaction.
13.11.2017	Sarda Nepali girls Primary School	05	4	Education Materials, Visit to Interaction and Packet lunch
13.11.2017	Surrotam Vedic Paths	09	4	Education Materials, Visit to Interaction and Packet lunch.
13.11.2017	R.N Sinha Primary School	27	0	Education Materials, Visit to Interaction and Packet lunch.
13.11.2017	Saipatri Primary	06	3	Education

	Cabaal			Motoriolo
	School			Materials,
				Visit to
				Interaction and
				Packet lunch
13.11.2017	Buddhist Primary	20	3	Education
	School			Materials,
				Visit to
				Interaction and
				Packet lunch
13.11.2017	Holy Angels School	25	1	Education
10.11.2017		20		Materials,
				Visit to
				Interaction and
40.44.0047		10		Packet lunch
13.11.2017		18	4	Education
	School			Materials,
				Visit to
				Interaction and
				Packet lunch
14.11.2017	Pinewood School,	63	9	Education
	Ghoom			Materials,
				Visit to
				Interaction and
				Packet lunch
18.11.2017	Ray of Hope School,	20	9	Education
10.11.2017	Chong tong	20	l o	Materials,
	Chong tong			Visit to
				Interaction and
				Packet lunch
				Fackel lunch
18.11.2017	Child Rights Week	40	7	Education
10.11.2017	inAssociation	40	1	Materials.
				,
	with District Child			Visit to
	Protection			Interaction and
	Unit Darjeeling			Packet lunch
19.11.2017	A.G Church (Sunday	42	7	Education
	School), Darjeeling			Materials,
				Visit to
				Interaction and
				Packet lunch
24.11.2017	St. Xavier's School,	26	3	Education
	Darjeeling			Materials, Visit
				Zoo
				and Interaction
25.11.2017	Relling Higher	10	2	Education
	Secondary School		_	Materials, Visit
				Zoo
				and Interaction.
28.11.2017	Anulia High School	22	8	Education
20.11.2017			0	
				Materials, Visit

				Zoo
				and Interaction.
05.12.2017	Banbole High School,	40	4	Education
00.12.2017	Uttar	40	7	Materials, Visit
	Dinajpur			Zoo
	Dinajpui			and Interaction.
08.12.2017	Crayons Preparatory	38	9	Education
00.12.2011	School	00	Ũ	Materials, Visit
				Zoo
				and Interaction.
11.12.2017	Mount View Primary	26	7	Education
_	School	-		Materials, Visit
				Zoo
				and Interaction.
22.12.2017	Kumdini High School,	21	1	Education
	Kalimpong			Materials,Visit
				Zoo
				and Interaction.
23.12.2017	SaraswatiVidhya	51	15	Education
	Daan Academy,			Materials, Visit
	Lebong.			Zoo
				and Interaction.
23.12.2017	CASFOS, Burnihat,	29	1	Education
	Assam			Materials, Visit
				Zoo
			4.0	and Interaction.
22.01.2018	St. Joseph School,	58	13	Education
	Winter Camp			Materials, Pack
				lunch, Visit to Ze
23.01.2018	CASFOC SFS	21	1	and Interaction. Education
23.01.2010	Training	21	I	Materials.Visit t
	Training			Zoo and Interac
				Packet lunch.
26.01.2018	Missionary of Charity	55	10	Education
20.01.2010	wholenary or enancy	00	10	Materials, Pack
				lunch, Visit to Z
				and Interaction.
01.03.2018	RFO Training Batch	32	1	Education
	CASFOS, Burnihat.			Materials,Visit t
	,			Zoo and Interac
02.03.2018	Telangana State Fore	63	1	Education
	Academy, Dulapally,			Materials, Visit
	Hyderbad			Zoo and Interac
05.03.2018	World Wildlife Day	32	10	Education
				Materials, Pack
				lunch. Visit to Z
				and Interaction.
18.03.2018	Guide Training	27	0	Education
	Course throughskill			Materials. Visit

	development for unemployed youths of GTA.			Zoo and Interac
20.03.2018	RFO Trainees from Kundal Forest Academy	32	2	Education Materials. Visit Zoo and Interac
30.03.2018	Rockvale Academy, Kalimpong	55	5	Education Materials, Pack lunch. Visit to Z and Interaction.



Educational tour of students of College of horticulture, Kerala Agricultural University



Educational Tour of students of Grace Academy English School



Educational tour of students of St. Michaels Higher secondary School.









DF/Fr Training, Rajabhatkhawa



Educational tour of students of Assembly of God Church School



Educational tour of Good Start Montessori School. M



Educational tour of Students from the Rotary Club, Darjeeling



Karnataka Forest Academy



Educational tour of students of students of Sant Nirankari Mission



St. Joseph School, Winter Camp



CASFOS SFS Training



Missionaries of Charity



RFO Training, CASFOS, Burnihat



TSFA Training, Hyderabad



RFO Training, Kundal forest Academy



Educational tour of Rockvale Academy, Kalimpong

20. Important Events and happenings

1. INTERNATIONAL BIODIVERSITY DAY, 2017

Padmaja Naidu Himalayan Zoological Park organized International Day for Biodiversity on 22nd of May 2017. The theme for this year's Biodiversity day was *"Biodiversity and Sustainable Tourism"*. The chief guest of the event was Shri V.K Yadav, IFS, Member Secretary, West Bengal Zoo Authority.

An extempore competition involving the students of different schools of Darjeeling was organized at the Bengal Natural History Museum auditorium by the zoo. Two students from either or class IX and X from twenty different schools were invited to participate in the competition. The program saw the participation of twenty students from ten different local schools. The participant school list is as follows.

S.No	Name of School	No of Participants		
1.	St. Teresa's Higher	2		
	Secondary School			
2.	Municipal Boys Higher	2		
	Secondary School			
3.	R.K.S.P	2		
4.	Nepali Girls Higher	2		
	Secondary School			
5.	Assembly of God Church	2		
	School			
6.	North Point School	2		
7.	St. Pauls School	2		
8.	West Point School 2			
9.	Gyanoday Niketan	anoday Niketan 2		
10.	Notre Dame Academy	2		

The extempore completion was judged by Dr Uttam Mani Pradhan, Veterinary Officer, Padmaja Naidu Himalayan Zoological Park and Mr Saibal Sengupta, Assistant Teacher, St Roberts Higher Secondary School, Darjeeling.

The event commenced at 10 am with the registration of the participant students and teachers, followed by hi-tea and the extempore competition followed by the screening of a wild life movie along with the distribution of packet lunch to all the students and teachers. The programme ended with the announcement of the winners of the competition and prize distribution.

WORLD BIODIVERSITY DAY 2017 PROGRAMME

10:00 am: Students and teachers assemble in the hall

10:00 am- 10:30 am: Registration

10:30 am- 10:40 am: Welcome speech by Miss Upashna Rai, Zoo Biologist

10:40 am- 11:00 am: Address by Director, PNHZP and Chief Guest

11:00 am- 11:30 am: Hi- tea

11:30 am- 1:00 pm: Extempore competition

1:00 pm- 2:00 pm: lunch and Wildlife movie

2:00 pm- 2:30 pm: Remarks of the Judges

2:30 pm- 3:00 pm: Prize Distribution and Vote of Thanks.

For the extempore competition, the students were given topics relevant to the theme for this year's International Biodiversity day. The students were made to pick up a piece of paper with the topic using a lucky draw system. The students were given 20 minutes to prepare their topics and each student was given a maximum time of 10 minutes each to speak on their respective topics.

S. No	Topics
1.	Positive contribution of tourism to biodiversity awareness
2.	The human side of biodiversity and sustainable tourism
3.	Impact of tourism on biodiversity
4.	Principles of sustainable tourism
5.	Safe and sustainable food and its value
6.	Can biodiversity conservation action benefit the poor?
7.	Sustainable tourism in protected areas
8.	Role of stake holders towards sustainable tourism
9.	Tourism and Biodiversity achieving common goals towards sustainability
10.	Role of NGOs in Sustainable Tourism
11.	Linking tourism and biodiversity conservation
12.	Role of social media in biodiversity
13.	Is tourism significant in biodiversity hotspot countries?
14.	Tourism driven impact in natural world heritage
15.	Recommendations for local residents in tourism destinations
16.	Guidelines for tourism in park and protected areas.
17.	Take only photographs leave only footprints.
18.	Renewable energy in the tourism industry.
19.	Sustainable tourism in the Himalayan region.
20.	Role of local communities in maintaining biodiversity

The students were judged based on relevance to the topic, presentation of ideas, language, confidence and fluency. The winners list and their topics are as follows.

Winner	Name	School	Торіс	
1 st	Mr Mahin. E. Alam	North Point School	Principles of sustainable	
			tourism	
	Mr Sahil Roka	Ram Krishna Siksha	Role of NGOs in	
2 nd		Parishad	Sustainable Tourism	
3 rd	Miss Sitoshna Chettri	Gyanoday Niketan	The human side of	
			biodiversity and	
			sustainable tourism	

The 1st prize winner was given a cash prize of Rs 3000 along with a certificate, book and a trophy. The 2nd prize winner was given a cash prize of Rs 2000 along with a certificate and a trophy. The 3rd prize winner was given Rs 1000 along with a certificate. All the participants were given certificates and education materials from the zoo along with packet lunches and caps. The teachers and the judges too received mementos from the park.

The main purpose of organizing an extempore competition for senior students of various local schools was to open a dialogue in between students and also between students and authorities that contribute towards conservation efforts and to understand the students perception and knowledge about our biodiversity, the problems plaguing it along with ways to counter the loss of biodiversity through individual and collective efforts.





















2. World Environment Day, 2017

Padmaja Naidu Himalayan Zoological Park, celebrated World Environment Day on 5th June 2017. This year's theme was "*Connecting People to Nature*". The park organized a sit and draw competition to celebrate the event and to educate students about environmental issues and the importance of working towards conservation.

The invitation to participate in the event was sent out to 20 schools who were requested to send two students each from either or class IV and V along with a teaching staff. A total of 11 schools accepted the invitation to compete in the event. 22 Students and 10 teachers of different schools of Darjeeling participated in the programme.

S.No	Name of School	Number of Participants
1.	St. Michaels Higher Secondary School	2
2.	St. Robert's Higher Secondary School	2
3.	Bloom Field High School	2
4.	Ram Krishna Siksha Parishad	2
5.	Sardeshwari Higher Secondary School	2
6.	Goodstart Montessori School	2
7.	Bethany School	2
8.	B. North Point School 2	
9.	Birch Hill School	2
10.	West Point School	2

11.	Notre Dame Academy	2

The programme for the day included an educational tour of the park by Miss Pranita Gupta, Education Assistant, Miss Rohini Chettri, Research Assistant and Mr Sairus Bhaktaraj, Taxidermist where the students were not only given information about the zoo and the captive animals but were also educated about the various conservation efforts of the zoo and also their roles in preserving our environment. The programme list is as follows:

WORLD ENVIRONMENTAL DAY 2017 PROGRAMME

10:00 am: Students and teachers assemble in the hall

10:00 am- 10:15 am: Registration

10:15 am- 10:30 am: Welcome address

10:30- 11:00 am: Hi- tea

11:00 am- 12:00 am: Educational tour of the Park

12:00 pm- 12:15 pm: Juice break

12:15 pm- 1:15 pm: Drawing/ Painting competition

1:15 pm- 2:00 pm: Lunch and Wildlife movie

2:00 pm- 2:30 pm: Prize Distribution and Remarks of the Judges

The theme for the sit and draw competition was "Connecting people with nature" and was judged by Dr Uttam Mani Pradhan, Veterinary officer, PNHZP and Miss Upashna Rai, Zoo Biologist, PNHZP. The participants were judged on the basis of relevance to the topic, their ideas and their ability to potray their ideas.

The winners list is as follows:

Prize	Name of Student	School	
1 st	Master Avinave Shankar	aster Avinave Shankar Bethany School	
2 nd	Master Saif Ali	Ram Krishna Siksha Parishad	
3 rd	Miss Ridhima Rai	West Point School	

The 1st, 2nd and the 3rd prize winners were given a cash prize of Rs 1000, Rs 800 and Rs 500 respectively along with a certificate, trophy and a book. All the participants were also given certificates, educational materials and caps. The teachers were also given mementos. All the attendees of the program were also given packet lunches and refreshments.

The main aim of organizing such a programme was to get children from primary division of local schools involved and educated regarding environmental issues and conservation measures and also to grasp their understanding on the particular subject and to broaden their knowledge.



















3. OBSERVING CHILD RIGHTS WEEK IN ASSOCIATION WITH THE DISTRICT CHILD PROTECTION UNIT, DARJEELING.

The District Child Protection Unit organized various programs involving children to create awareness on Children Rights and Protection. The week long program from 14th November- 20th November, 2017 included an outreach program for the children and their escorts at Padmaja Naidu Himalayan Zoological Park on 18th November 2017.

The program included 50 children and their escorts from various parts of Darjeeling. The outreach program comprised of an educational tour of the park, a talk on conservation and information on various measures taken up by the park for care and conservation of its captive animals along with a quiz competition and screening of a wildlife movie. The participants were given refreshments and educational materials at the end of the program.





4.CELEBRATION OF CHILDREN'S DAY BY THE PARK AND IN ASSOCIATION WITH HAYDEN HALL, DARJEELING

The park celebrated Children's day in association with Hayden Hall Community Development Centre, Darjeeling as well as host other schools on Children's Day separately.

The park organized an outreach program for children from Municipality Primary Schools from Darjeeling in association with Hayden Hall Community Development Centre. The program included 93 students and 30 teachers and was held on 13th November 2017.the outreach program comprised of an educational tour of the park along with quiz competition and the showing of a wildlife movie. The children and teachers were also provided with packet lunches, water and juice along with educational materials.

S.No	School Name	No of Students	No of Teachers
1.	Red Cross Primary School	20	5
2.	Buddhist Primary School	19	4
3.	Surottam Vedic School	13	4
4.	R.N Sinha Primary School	14	4
5.	Holy Angels	15	3
6.	Ashram School	5	4
7.	Saipatri Primary School	7	4

The park also organised and hosted several schools separately for the occasion of Children's Day. 55 students and 12 teachers from Pinewood school, Darjeeling and 25 students and 9 teachers from Ray of hope School, Chong Tong, Darjeeling were given an educational tour including a quiz competition and the showing of a wildlife movie. The children were provided with packet lunches and refreshments along with educational materials.







5. Report on Celebration of World Wildlife Day, 2018

Every year on 3rd March 2018 the world celebrates World Wildlife Day. The theme for this year World Wildlife Day was "Big Cats: Predators under Threat". Big cats are among the most widely recognized and admired animals across the globe. However, today these charismatic predators are facing many and varied threats, which are mostly caused by human activities. Over the past century we have been losing big cats, the planet's most majestic predators, at an alarming rate. World Wildlife Day 2018 gives us the opportunity to raise awareness about their plight and to galvanize support for the many global and national actions that are underway to save these iconic species.

In line with the UN General Assembly Resolution proclaiming World Wildlife Day, the CITES Secretariat calls on all member States and organizations of the United Nations system and other global, regional and sub-regional organizations, non-governmental organizations and all interested individuals, to: observe and raise awareness of the theme for World Wildlife Day 2018 in an appropriate manner; to associate the celebrations with major national and international conservation events, where appropriate; to organize campaigns to reduce the demand for illegal wildlife and their products using targeted strategies in order to influence consumer behaviour; and to make use of the World Wildlife Day logo as widely as possible.

Padmaja Naidu Himalayan Zoological Park celebrated World Wildlife Day on 5th March 2018. The park organised an outreach programme for the students of the local schools. 3 students from class 7-8 from each school were invited to participate in a poster making and poster presentation competition held at the park. The theme for the poster making competition was same as the theme for the world wildlife Day i.e. "Big Cats: Predators under threat"

S.No	Name of School		
11.	St. Michaels Higher		
	Secondary School		
12.	St. Robert's Higher		
	Secondary School		
13.	Municipal Boys Higher		
	Secondary School		
14.	Municipal Girls Higher		
	Secondary		
	School		
15.	Notre Dame Academy		
16.	West Point Higher		
	Secondary School		
17.	Turnbull Higher Secondary		
	School		
18.	Ram Krishna Siksha		
	Parishad Higher Secondary		
	School		
19.	Gyanoday Niketan		
20.	The Assembly of God		
	Church School		

The event started at 10:00 am with registration of the students and the teachers followed by the inauguration ceremony where the inaugural speech was given by Mr. Shiromani Syangden, Estate officer, PNHZP. Ms Upashna Rai, Zoo Biologist, PNHZP gave a presentation on the threats faced by big cats and the efforts being

made to conserve them. The poster making competition began after tea and the children were given an hour to complete their posters and 10 minutes each to present their posters in front of the audience. The winners were chosen on the basis of the creativity and message being conveyed by the posters. Accordingly the winners for the poster making/ presentation were as follows:

Prize	School	Student names	Standard
1 st Prize	St Michaels Higher	Sapna Rai	VIII
	Secondary School	Bibek Singh	VII
		Cheden Lepcha	VII
2 nd Prize	St Roberts Higher	Kalpit Gurung	VIII
	Secondary School	Prasanth Tamang	VIII
		Karan Das	VIII
3 rd Prize	Ram Krishna	Saif Ali	VII
	Siksha Parishad	Aviraj Rai	VIII
	Higher Secondary	Rajkumar Rai	VIII
	School		



First Prize

Second Prize



Third Prize

21. Seasonal special arrangements for upkeep of animals.

Winter (end November – February):

1. Bedding materials provided to the following animals

Leopard cat, Jungle Cat, Asian Palm Civet, Himalayan Palm Civet, Slow Ioris, Asiatic Black Bear.

- 2. Curtains in all the night shelters for warmth.
- 3. Heaters, and Blowers in the night shelters.
- 4. Luke warm water for drinking for all the animals.
- 5. Quantity of Molasses and honey increased to animals like herbivores Asiatic Black

bear and Red Panda.

- 6. Knitted thatched roof of dry bamboo used for covering the roof of the enclosures.
- 7. Bedding materials like blankets and straw provided for all the reptiles. Reptile house

closed for the visitors.

8. Wooden platforms and wooden frames provided in the night shelters for warmth.

Monsoon (June- September)

- 1. De-humidifiers used in the night shelters to lower the humidity.
- 2. Polythene sheets to cover the roof of the enclosures to keep the enclosures and the

Kraal area dry.

- 3. Shelters in the enclosure of the herbivores.
- 4. Regular clearing of enclosures with thick overgrowths.
- 5. Care taken to keep the night shelters dry for animal retirement at night.
- 6. Pheasants with chicks kept inside the chick rearing room.

Spring (March- May)

- 1. Enrichments for all species done- wooden platforms, aerial walkways, breeding boxes.
- 2. Feeding enrichments.

22. Research Work carried out and publications

SI. No.	Name	Institute	Tenure	Area of Work
1	Director Padmaja Naidu Himalayan Zoological Park	Padmaja Naidu Himalayan Zoological Park, Darjeeling.	Initiated from June 2017. The project is ongoing.	Status Survey of Himalayan Goral (<i>Nemorhaedus</i> <i>goral</i>) at Singalila National Park, Neora Valley national Park, Mahananda Wildlife Sanctuary, Senchal Wildlife Sanctuary and Kurseong Division.
2	Dr Mousumi Poddar Sarkar, Prof, Chemical signal and lipidomics Lab. Dept of Botany (Center of advance study UGC.)	PNHZ Park in collaboration with University of Calcutta.	April 2017- March 2018 / April 2018 – 31 st March 2020.	"Marking fluid" (MF) and urine samples of mammals of Felidae family of captive Indian tiger, Clouded Leopard, Black Leopard, Black Leopard, Snow Leopard, Snow Leopard, Common Leopard, Snow Leopard cat from PNHZ Park Darjeeling.

Zoo Interns& Volunteers

The zoo interns and volunteers are provided with all necessary help and a certificate at the end of the study:

SI No.	Name of the Intern	College/University/Other y Institution		College/University/Other y Institution		College/University/Other y Institution		Duration of Internship			
1	Mr. Khan AamirSohelZafarullah	MSc, (Wildlife Biology), A.V.C college (Autonomous), Tamil Nadu	India	19.05.2017 - 21.07.2017	Drivers of Physiological stress and Behavioral Diversity among Captive Red pandas in North Eastern India						
2	Miss Corinne Waheed	BSc, Agricultural Environmental Science, McGill University, Canada	Canada	07.12.2017 - 19.12.2017	Factors affecting the captive breeding success rates of the Red panda and Snow leopard at PNHZP.						
3	Mr. Rounak Lama	1 st year B.Sc. (Microbiology), St. Joshep's College, Darjeeling	India	February 2017, October 2017, November 2017	Study of soil micro flora at Padmaja Naidu Himalayan Zoological Park, Dowhill and Topkeydara.						
4	MrAkashThapa	3 rd year B.Sc. (Microbiology), St. Joshep's College, Darjeeling	India	February 2017, October 2017, November 2017	Study of soil micro flora at Padmaja Naidu Himalayan Zoological Park, Dowhill and Topkeydara.						
5	Ms. AvantikaThapa	MSc, Zoology, Government College	India	15.01.2018 - 27.03.2018	A short term study on the population and richness of Birds at Padmaja Naidu Himalayan Zoological Park.						

23. Conservation Breeding Programme of the Zoo

PROJECT SNOW LEOPARD

- Extremely threatened due to hunting, killing, IUCN (2006) lists as endangered (EN-C2a (i) on the IUCN Red List and IWPA lists it as a Schedule I species. CITES includes it as an Appendix I species. Population estimated below 2500.
- Snow leopard is an extremely beautiful animal distributed along the habitat scattered throughout a vast region surrounding the Central Asian deserts and plateaus ranging from Afghanistan to Uzbekistan. Throughout most of its range, snow leopards are associated with arid and semi arid shrub-land, grassland or steppe. The species is generally found at elevation between 3000m -4600m, although they are known to go above 5500 m in the Himalayas. Steep terrain broken by cliffs, ridges, gullies and rocky outcrops is preferred, although in certain parts like Mongolia and Tibet plateau they can be found in relatively flat country. In India, snow leopard is distributed in the Himalayan chain from Kashmir to Sikkim, northwards their territory extends into Tibet, Central Asia and the Altias in the region of stupendous rock and cliff above the tree- line some 12,000 -13,000ft (3660-3965m) above sea level.
- Hunting of the Snow leopard is one of the major threats to the species. Snow leopards have been hunted out of many of the areas of the high Central Asian Mountain. There is a demand for snow leopard bone from the Chinese medicine trade. Garments of Snow leopard fur were once highly priced in fashion world and although no longer in International trade, fur coats and novelty furs have seen for sale in shops throughout China, Taiwan and Mongolia.
- The species have become extremely rare in many parts of its native habitat. In India, where snow leopards occur on the southern slopes of the Himalayas. The species is listed as endangered under the Wildlife Protection Act (1972). In this respect PROJECT SNOW LEOPARD (PSL), a flagship species programme to strengthen wildlife conservation in the Himalayan high altitude was launched.
- PNHZ Park started work on captive breeding project of this rare species in the year 1983. Apart from a number of *insitu conservation efforts*, a *global captive breeding programme* is in place. Darjeeling zoo has been a part of this initiative since 1986.
- Experts Dr. Ingo Rieger and D. Walzthoeny from USA inspected the site in July 1983 and gave their approval.
- Site selection for off- display conservation breeding centre for snow leopard is the North- Western corner of Jawahar Parbat (Birch Hill) at

an altitude of 27 degree and longitude 88 degree East. Altitude is 6900ft.

• Founder stock of snow leopard at PNHZ Park (**1986- 2015**)

SI No.	Name of the animal	Sex	International Stud book Number	Acquired from
1	Kashi	F	1005	Zurich
2	Vishna	М	620	Helsinki
3	Persia	F	697	Toledo Zoo
4	Hank	М	1059	Litterock
5	Quizil	М	1472	Zurich
6	Quilla	F	1473	Zurich
7	Quetta	F	1474	Zurich
8	Tyson	М	1850	Hubstrand . Sweden
9	Neeta	F	2228	Leh
10	Meeta	F	-	Srinagar

• A total of fifty six snow leopard births have been recorded in the park. The table below depicts the birth at an interval of every five years and their survivality.

YEAR	SEX R	ATIO/TO	DTAL	BIRTH			
	М	F	U	Total	Μ	F	Total
				birth			survivality
1986-1991	0	2	2	4	0	0	0
1992-1996	6	3	1	10	1	2	3
1997-2001	8	5	0	13	1	2	3
2002-2006	11	7	1	19	5	4	9
2007-2013	6	4	0	10	0	1	1
	31	21	4	56	7	9	16

* Wild caught founder ("Meeta" 227) did not make any contribution to the breeding programme.

- Padmaja Naidu Himalayan Zoological Park in 2003 had 18 Snow leopards (9:9), one of the largest captive population, in a single zoo, in the world.
- Next step was to have at least 4-5 stable captive population of snow leopards at different high altitude zoos in the country, before any release/restocking in the wild can be contemplated. In 2004, a pair each of snow leopard was sent from Darjeeling zoo to Himalayan Zoological Park, Gangtok, Pandit Govind Ballabh Pant High Altitude Zoo, Nainital and Himalayan Nature Park, Kufri, Shimla to start subsidiary snow leopard breeding centers in these Himalayan zoos.

 In between 2004-2013 three individuals died with one cub survival that skewed the option for breeding leaving the captive stock with ten individuals and with limited breeding pairs. The analysis done so far regarding the population management of snow leopard in the facility came up with the following recommendations:

- Scientific management of the Breeding programme including development of husbandry protocols.

- In order to maintain the genetic variability and to provide with larger breeding options animal exchange should be made regularly in consultation with the International Stud book keeper. Individuals > 16 years should not be considered for breeding.

- Demographic and genetic analysis mandatory of captive stock.

- Newer breeding facilities to be established.

• Based on the recommendations

A short term research on the "*Study of Snow leopards*" funded by Central Zoo Authority looked into developing ex-situ husbandry aspects particularly to look into persistent problems that existed in the breeding programme majorly *cub mortality*and *brittle bone diseases*. The research work proved to be beneficial and provided recommendations for creating appropriate facilities for breeding, cub care and their survivality. Adopting these methods the 3 cubs born in 2012 and 2014 survived. Besides this the research work helped in giving inputs during the establishment of the new breeding centre for the snow leopards where the night shelters, breeding dens, enclosures, veterinary facilities have been developed based on the recommendations of the findings.

Genetic study of the captive stock was done by LaCONES, CCMB. Reports concluded that 1:1 out of the total captive stock are genetically more vibrant when compared with other samples and the two individuals can be used for conservation breeding.

Studbook analysis: *inbreeding- not advisable Low coefficient-advisable.* Demographic analysis suggested that new founders be added to the captive population and the population size be increased to at least 100 individuals with equal sex ratio in the period of next ten years. The population projection for both actual and modeled population suggest that the goal of maintaining at least 100 genetically viable and demographically stable individuals in captivity in India cannot be achieved without the addition of fresh founders and utilizing the reproduction potential of the captive population to the maximum.

Based on the genetic and demographic analysis of the captive stock 2:2 individuals was included in the captive. The captive stock in June 2014 is as follows:

SL.no.	Name	Stud #	Sex	Birth Date	Sire	Dam	Location	Transponder
1	Karan	1897	М	23.10.1995	1059	1474	Darj	981098102057256
2	Tista	2399	F	29.03.2002	1897	2228	Darj	00-0611-4DB1
3	Budha	2401	Μ	19.06.2002	1850	1797	Darj	00-061-FA9B
4	Prabhat	2405	М	8.07.2002	1850	1899	Darj	00-0618-24E0
5	Ritu	2538	F	11.032004	1897	2228	Darj	981098102056547
6	Yasmin	2540	F	25.05.2004	1850	1797	Darj	ID-00-00F6-8A38
7	Rare	2994	F	19.06.2012	2405	2538	Darj	95600002158446
8	Kim	2846	F	29.05.2012	2566	2430	Nurnberg, Darj	3968000005548177
9	Subash	2402	М	08.07.2002	1850	1899	Darj	00-0617-C8C5
10	Lavani	2861	F	06.05.2010	2469	2274	Lodz,Darj	968000005545293
11	Zima	2862	F	06.05.2010	2469	2274	Lodz,Darj	968000005542846
12	Sici	2935	М	22.05.2011			Jhilava zoo, Czech Republic	956000001977872
13	Morning	3159	U	02.05.2014	2401	2861	Darj	
14	Shining	3160	U	02.05.2014	2401	2861	Darj	

Total population and their sex ratio: 14 (5:7:2)

- Death of one male in 2014, death of 2 males in 2015 and 1 male in 2016 skewed the breeding options leaving the Park with 1 male and 8 female.
- In consultation with the International Stud book keeper an animal exchange programme has been proposed with Dudley zoo and Mulhouse zoo.
- Two males acquired from Dudley Zoo, London and Mulhouse Zoo, France.
- One of the male used for breeding.
- Three litters born to this male.

SL.no. Name		Stud#		Birth Date	Sire	Dam	Location	Transponder	Remark s
1	Tista	2399	F	29.03.2002	1897	2228	Darjeeling	00-0611-4DB1	
2	Ritu	2538	F	11.03.2004	1897	2228	Darjeeling	981098102056547	
3	Yashmin	2540	F	25.05.2004	1850	1797	Darjeeling	ID-00-00F6-8A38	
4	Rare	2994	F	19.06.2012	2405	2538	Darjeeling	956000002158446	
5	Kim	2846	F	29.05.2012	2566	2430	Nurnberg, Darj	3968000005548177	
6	Subash	2402	М	08.07.2002	1850	1899	Darj	00-0617-C8C5	
7	Lavani	2862	F	06.05.2010	2469	2274	Lepzig, Darj	968000005545293	
8	Zima	2861	F	06.05.2010	2469	2274	Lepzig, Darj	968000005542846	
9	Morning	3159	F	02.05.2014	2401	2862	Darj		
10	Makalu	3140	М	17.04.2014	2826	2813	Dudley Zoo, London	956000001458313	Acquired From Dudley Zoo London on 25.06.2016
11	Namkha	3141	M	16.06.2016	1847	2887	Mulhouse Zoo, France	250228730005176	Acquired from Mulhouse Zoo, France on 01.09.2016
12	Unidentified	3335	М	04.03.2018	3141	2861	Darjeeling		
13	Unidentified	3336	F	04.03.2018	3141	2861	Darjeeling		

Current stock of Snow leopard as on 31st May 2018.

FUTURE WORKS:

- 1) Regular genetic demographic and hormonal analysis of the captive stock to ensure maximum genetic variability.
- 2) Behavioural study in captivity.
- 3) Research on the health issues of the species in young, adults and old individuals. Frequent occurrence of pneumonia, brittle bone disease, what leads to the occurrence of such diseases in higher frequency in captivity? Its preventive measures etc.
- 4) More exchange programmes.
- 5) Linkage of the ex-situ conservation with in-situ conservation.

Project Red Panda

- Red panda *Ailurus fulgens* is a small mammalof the Himalayas, almost of the size of the jungle cat with chestnut coat and ringed tail. It is distributed in the Himalayas from Central Nepal through northern Burma in the mountains of southwestern China at altitudes between 900-13,000 feet. In India, red panda is distributed in Sikkim, Darjeeling Hills and Arunachal Pradesh.
- Red panda is threatened by habitat loss and fragmentation. Red panda was also hunted and trapped in large number to be kept as pets and for supply to zoos all over the world. The species is enlisted as Endangered by the IUCN (2006) with a declining population in its distribution range. The species is a protected species in all its range countries (Nepal, Bhutan, India, Burma and China). In India the species receives protection under the Indian Wildlife Protection Act (1972). The species is also under the CITES I Appendix. Population estimated below 2500.
- In captivity, a global captive breeding program is in place something which started in the early 1990s in Europe. Padmaja Naidu Himalayan Zoological Park, Darjeeling which at present has 17 (10:7) red pandas is also a part of this breeding program for the red panda. The zoo was able to restock four red pandas back to the wild as a conservation initiative.
- A planned conservation Breeding Project as a part of the Global Captive Breeding Project as a part of the Global Captive Breeding Master Plan was initiated in early nineties in the Zoological Park in response to the International Conservation efforts, through initiation of the project and improvement/modification of existing housing facilities which already existed.
- Zoological Park had one male (Basant) and three females (Amita, Chanda and Divya) all of wild origin in the stock at the beginning of the Project in 1990. Hence one male "Oscar" (d.o.b June 29,1992) was brought from Rotterdam Zoo in April 1, 1993 toaugment the existing population of 4 red Pandas in the zoological Park.
- The first successful planned breeding of red Panda occurred on 20.06.1994 when two cubs "Ekta" and "Friend" were born to "Basant" and "Amita"
- Hari (d.o.b June 30, 1993, Rotterdam), Gora (male, d.o.b-June 25,1993, Koln)and Indira (female d.o.b.-June 26,1993, Madrid) arrived in Darjeeling on November 10, 1994 to induce new blood and to continue the planned breeding programme.

- PNHZ Park in 2003 had a stable and genetically healthy population of 21 red pandas in captivity. Pair at Gangtok (Sikkim) Zoo (a subsidiary breeding center established in the region) has also started breeding.
- The zoological park was in a position of realizing the ultimate objective of the project of releasing zoo bred red pandas in the wild in the Singalila national park, to begin with
- Guidelines stipulated by the IUCN for re-introduction/re-stocking of captive born wild animals were followed in totality for the programme. All necessary clearances from Govt. of India and Govt. of West Bengal were obtained for the purpose.
- Pre-release monitoring of the red panda population and habitat in the Gairibans area of the Singalila National Park was organized during November/December, 2002.
- DNA based analysis was conducted in collaboration with Centre for cellular and Molecular Biology, Hyderabad for taxonomic status and genetic variability studies.
- An Intermediary release facility (50 sq m) for soft release o the animals were created near Gairibans Beat office (around 8500ft) of South Singalila Range in the Singalila national Park. The construction cost was fully funded by the Central Zoo Authority, Govt. of India.
- Both the animals were shifted to the intermediary release facility at Gairibans for acclimatization and kept there for 3-4 months. Though they were in the wild, they were still under the supervision and observation of some of the zoo staffs posted there. When the animals were thought to have acclimatized well to the environment, they were finally released into the wild.
- Radio collars of appropriate size and weight were fitted on the animals for their post-release monitoring for at least 12 months (or till batteries of the collars were functional).
- Out of the two female red pandas (Mini and Sweetie) released in 2003, sweetie gave birth to a cub in July 2004 in a hollow of an oak tree in Gairibans (SNP, Darjeeling).
- In 2007 and 2008 two wild caught males were added to the captive stock including one female from Auckland zoo to increase the breeding potential.
- In 2010 one captive born female was brought from Auckland Zoo, New Zealand to add variability to the existing population.
- In 2012 Red Panda census was carried out in two phases the objective of the census was to -Conduct meetings and train locals for the census, Assess the population number -Assess the habitat, Further verification of the population status by genetic analysis through fecal samples, Other existing animals in the Red Panda habitat, Threat analysis, GIS Mapping of both the National Parks.

- 31 Red Pandas through direct sighting in both National parks. Through genetic analysis 38 in SNP (17:4:17) and 32 (12:13:7) in NVNP.
- A short term research Project was also initiated from March 2012-2014 funded by Central Zoo Authority on "Study of Red Panda (*Ailurus fulgens*) in ex-situ facilities in co-relation with in-situ facilities for conservation breeding funded by Central Zoo Authority.
- The genetic analysis of blood and faecal samples observed showed that captive Red Panda at PNHZP, Darjeeling are genetically vibrant and can be used selectively for Conservation breeding (CCMB) in 2013.
- A collaborative work on the Red Panda Stress level-hormonal analysis with LaCONES, CCMB completed, results indicates cyclicity of all female individuals in 2013-2014.
- A Research project "Study on housing, enclosure enrichment, evaluation of existing housing and enrichment practices" also funded by Central Zoo Authority conducted by Wildlife Institute of India also includes the species Red Panda.
- New breeding facility at Topkedara for the Red Pandas.
- A short term research Project was also initiated from March 2013-2015 funded by Central Zoo Authority on *"Red Panda Nutrition-Towards an Integrated Aproach"*.
- Population Habitat Viability Analysis for Red Panda done on November 2014.
- Pt. Govind Ballabh Pand High Altitude Zoo, Nainital approved as participating Zoo by Central Zoo Authority vide letter F.N.O 24-7/2007-CZA(Vol.II)(A)/3613 dated 25.9.2013.
- A pair of Red Panda was transferred to Nainital Zoo on 25.11.14. The pair gave birth to two cubs in 2015, thus ensuring a captive population that shall later assist the breeding programme at Darjeeling Zoo.
- One captive female added to the captive stock from Sikkim Zoo for further breeding.

Current stock of Red Panda as on 31st March 2018

SL NO	NAME	STUD BOOK NO.	SEX	SIRE	DAM	DT OF ACQ	DOB	TRANSPONDER NO
1	Pokhraj	01128	М	Gora	Ekta	Ekta Captive born		ID-00-061-FD19
2	Ram	1088	М	John	Sheetal Captive born		22.6.10	0006B82659
3	Janaki	1089	F	John	Sheetal	Captive born	22.6.10	0006B7428B
4	Rigsel	0789	F	Rahul	Lucky	31.10.11 from Sikkim Zoo	28.05.07	0006B7107E
5	Smile	12123	F	Kaijalay	Samridhi	Captive born	19.6.2012	956000002159372
6	Shifu	13175	М	Kaijalay	Risgel	Captive born	27-6-2013	956000002147924
7	Kitchi	13176	F	Kaijalay	Risgel	Captive born	27-6-2013	956000002145534
8	Shova	11116	F	Ram	Lucky	22.02.2014 from Sikkim Zoo	07.6.2011	956000002158277
9	Shine	14174	F	Kaijalee	sambridhi	Captive born	04.7.2014	0007150CC1
10	Balam	15117	М	Kaijalee	Janaki	Captive born	07.6.2015	00074C5ADA
11	Prashana	15118	F	Ram	Shova	Captive born	16.6.2015	000715472D
12	Noel	15119	М	Shifu	Sheetal	Captive born	14.7.2015	-
13	Joel	15120	М	Shifu	Sheetal	Captive born	14.7.2015	00075046F5
14	Karma	10118	F	Ram	Lucky	23.11.2015 from Sikkim Zoo	3.6.2010	956000002158469

15	Unnamed	М	Balam	Rigsel	Captive born	08.7.2017	
16	Unnamed	F	Balam	Rigsel	Captive born	08.7.2017	
17	Unnamed	F	Shifu	Prashana	Captive born	16.7.2017	

Ongoing Work in the Red Panda Project:

• Research work being conducted on "Population & behavioural Ecology of Red Panda at Singalila national Park and Neora Valley National Park, West Bengal, India with special reference to conservation funded by West Bengal Zoo Authority.

Future Work:

Ex-situ:

- Encourage exchange of Red panda among zoos at national and international level.
- Scope to include Himalayan Nature Park, Kufri and Itanagar Zoo, Arunachal Pradesh to be participating zoos in the Red panda Conservation Breeding Programme.
- > Compilation of husbandry guidelines for red Panda.
- > Formulate Population Management Plan/Species Survival Plan.
- > Basic behavioural study on the captive red pandas.
- Restocking of captive red pandas.
- Take up advance studies with the research organizations Genetic studies/Germplasm banking/disease screening/hormonal and behavioural studies.
- > Better awareness and knowledge dissemination.
- > Participation in the GSMP's.
- Opportunities for Zoo/Wildlife Veterinarians, Biologists, Technicians, Animal Supervisors and Zoo Keepers.

In-situ:

- Zoos and other organization routinely conduct surveys of one or more PA's (population/genetics).
- Intensive management of protected areas SNP and NVNP.
- Routine threat assessment.

Α.	Animals ar	riving in the Zoo			
	H.NO.	Species	Number (M:F)	From which Zoo	Date of arrival in the zoo
	1	Jungle Cat (Felis chaus)	1:1	Sanjay Gandhi Biological Park, Patna.	21.03.2018
	2	Sambar Deer <i>(Rusa unicolor)</i>	1 (M)	North Bengal Wild Animal Park, Siliguri.	23.03.2018
В.	Animals go	ing from the zoo		1	
	H.NO.	Species	Number (M:F)	Going to which Zoo	Date of deposition from the zoo
	1	Asiatic Black Bear(Ursus thibetanus)	1:1	North Bengal Wild Animal Park, Siliguri.	24.10.2017
	2	Kaleej Pheasant (Lophura leucomelana)	1 (M)	Sanjay Gandhi Biological Park, Patna.	13.12.2017
	3	Red Jungle Fowl (Gallus gallus)	1 (M)	Sanjay Gandhi Biological Park, Patna.	13.12.2017
	4	Golden Pheasant (Chrysolophus	3:3	Sanjay Gandhi	13.12.2017

24. Animal acquisition / transfer / exchange during the year

	pictus)		Biological	
			Park,	
			Patna.	
5	Silver Pheasant	1 (F)	Alipore	5.3.2018
	(Lophura		Zoological	
	nycthemea)		Gardens.	
6	Golden Pheasant	1:1	Burdhawan	15.3.2018
	(Chrysolophus		Zoological	
	pictus)		Gardens	
7	Silver Pheasant	1:1	Burdhawan	15.3.2018
	(Lophura		Zoological	
	nycthemea)		Gardens	

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

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

26. Annual Inventory of animals

Form – II

[See Rule 11(1)]

Part – A

Inventory Report for the Year :

Endangered Species*

	S.N	Anim	Scienti			•		Bi	rths	5	Aco	quis	sitio	D	isp	0	De	ath	۱	Cl			
(0.	al	fic	St	ock		as				n			Sa	al					St	ock		as
		Nam	name	on																on			
		е																					
				Μ	F	U	Т	Μ	F	U	Μ	F	U	Ν	F	U	Μ	F	U	Μ	F	U	Т

*Animals under Schedule I and Schedule II of the Wild Life (Protection) Act, 1972

Part – B

Other than Endangered Species

S.N	Ani	Scient					Bi	rths	\$	Ac	quis	siti	Di	spc	s	De	eath	۱		osir		
0.	mal	ific	Ste	ock		as				on			al						St	ock	. ;	as
	Nam	name	on																on			
	е																					
			Μ	F	U	Т	Μ	F	U	М	F	U	Μ	F	U	Μ	F	U	Μ	F	U	Т

(copy attached)

26. Mortality of animals

SI.No.	Animal Name (with individual identification	Scientific Name	Sex	Date of Death	Reason of Death as per the Post- mortem
	mark, if any)				report

(copy attached)

Sr. No	Norm No. under	Condition Stipulated	Time Period to Comply	Since when pending	Status with regard to compliance of the conditions
	RZR, 2009				
1	1:1.3	Visitor's movement is orderly but one of the road to Himalayan Mountaineering Institute passed through the zoo as a result movement of the zoo cannot be prevented at any time. Alternative arrangement can be explored	With immediate effect		Due to lack of space in the display area of the Park, there is no scope of having an alternative path for viewing the herbivore section neither the movement of the Himalayan Mountaineering Institute's vehicle can be restricted.
Adn	ninistrative	and Staffing Pattern:			
2	2:2.3	The zoo should have adequate scientific and technical personnel to support the officer in – charge in carrying out the responsibilities of housing, upkeep and healthcare of zoo animals, research and visitor education as specified below: 1. Curator- 1 No. 2. Veterinarian-1 No. 3. Education Officer- 1 No. 4. Biologist- 1 No	One Year		The park has one Zoo Biologist and one education assistant on contract basis. The park has one veterinarian from the Animal Husbandry Department, Govt. of West Bengal on deputation.
Dev	elopment a	ind Planning	•	•	
3	3:3.8	All rescued endangered species when housed in the zoo should be reported to Central Zoo Authority.	With immediate effect		No endangered animal species have been rescued by the park , however whatever is rescued is reported to Central Zoo Authority.
Anin	nal housing,	, display of animals and animal	enclosures:		
4	4: 4.1	Since it is an old zoo located on a hilly terrain , it is difficult to make immersion exhibits at this point of time. However efforts should be made to have at least a couple of such enclosures.	Two years		Bamboos have been planted in front of the carnivore enclosures. Small bush and hedges have been established in front of the aviaries.

Sr.	Norm	Condition Stipulated	Time	Since when	Status with regard to compliance of
No	No.Under	•	Period to	pending	the conditions
	RZR,		Comply		
	2009				
5	4:4.2	Most bird enclosures have	Two years		For visual barrier between two
		chain link mesh on all			adjacent bird enclosures bamboo
		sides including top with no			frames have been provided which has
		visual barrier between			also given a naturalistic look to the
		enclosures. This should be			enclosure.
		modified with partial			
		covering on the top and the			
		entire keeper's gallery with			
		suitable screening between			
		the adjacent enclosures			
		including at Dow Hill.			
6	4:4.9(a)	Appropriate standoff	Immediate		Potted plants have been placed in
		barrier have not been	effect		front of the herbivore enclosures.
		provided in the herbivore			
		enclosures because of			
		dearth of space however some attempt may be			
		made by placing potted			
		plants and temporary SOB			
7	4: 4.10	There are good signages	Six		Attractive and informative signages
'	(a)	but efforts should be made	months		with larger fonts have been put up in
	(0)	to make the fonts larger			all the enclosures of the display area.
		and the information in such			
		a manner that it looks			
		attractive and informative.			
Upk	eep and hea	Ithcare of animals			
8	5.2(6)	The portable water	Six		The water supply is from the
	()	provided to the animals	months		Municipality which is treated well. No
		should be tested			other source of water is supplied to the
		periodically			animals.
Vete	erinary and	infrastructure facilities	L		
9	6.1 (c)	Squeeze cage facility to	Six		New squeeze cages have been made
		carnivores and herbivores	months		for the carnivores and herbivores.
		should be provided as			
		soon as possible			
10	6.1 (d)	Seperate room/area for	One year		A separate room for equipment
		equipment cleaning and			cleaning and sterilization has been
		sterilization to be provided			done in the new hospital unit.
		as soon as possible.			
11	6.2 (3)	Veterinarians and	One Year		The zoo veterinarian is sent to the
		technicians are			annual workshop for veterinarians
		experienced. However,			organised by Central Zoo Authority. A
		they need proper training			communication vide this office memo
		for skill upgradation.			No: 813/V.S.16/PNHZP/15-16 dated
					15.03.2016 to Dr. A.K. Sharma,
					Principal Scientist & in-charge, IVRI
					have already been sent requesting for

Acq	uisition and	I breeding of animals:		the lab technician training. The Director IVRI has already communicated the matter to CZA vide its letter memo No: F.2- 19DI/NRC/2015-16/CWL dated 17.03.2016
12	9:9.10	Mock drills should be conducted at regular internvals to safeguard against escape of the zoo animals from the premises of the zoo and in the vent of any accidental escape, immediate action shall be taken to retrieve the escaped animals.	Six months	Mock drills are performed on small scale level during Thursdays around the bear enclosure. Emergency equipments such as fire extinguishers, water pipes, ropes, ladders, torch lights etc are always kept handy in all the animal beats.
Visi	tors facilitie	S		
13	12:12.3	The zoo should make arrangements for differently abled persons for access and viewing wild animals at various animal enclosures	Six months	Wheel chairs are provided for differently abled persons. The Visitors pathways are without steps which acts like ramp.

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

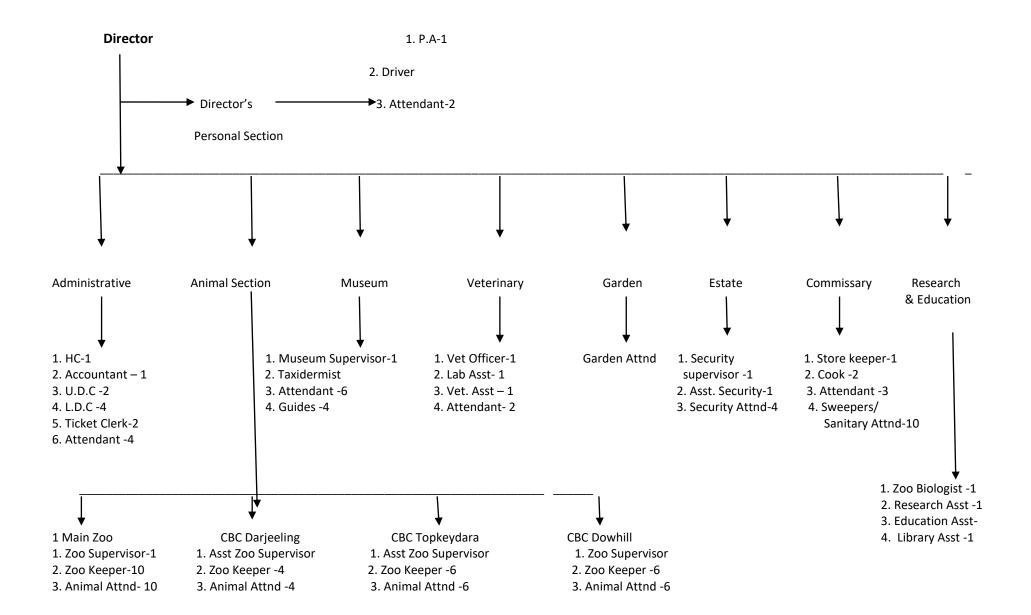
a. Mammals

SI.	Common Name	Scientific Name
No.		
1	Jackal	Canis aures
2	Fox	Vulpes bengalensis
3	Himalayan Palm Civet	Paguma larvata
4	Himalayan Yellow Throated martin	Martes flavigula
5	Hoary bellied Himalayan Squirrel	Callosciurus pygerythrus
6	Giant flying squirrel	Petaurista philippensis
7	Barking deer	Muntiacus muntjak.
8	Leopard Cat	Prionailurus bengalensis
9	Assam macaque	Macaca assamensis

b.)	BIRDS	
1	Aethopyga nipalensis	Green tailed sunbird
2	Alcippe castaneceps	Rufous winged fulvetta
3	Arachnothera longirostra	Little spider hunter
4	Certhia nipalensis	Rusty flanked tree creeper
5	Cissa chinensis	Common green magpie
6	Corvus macrorhynchos	Largebilled crow
7	Culicicapa ceylonensis	Gray headed canary flycatcher
8	Dendrocopos canicapillus	Grey-capped pygmy woodpecker
9	Dendrocopos darjellensis	Darjeeling woodpecker
10	Dendrocopos macei	Fulvous breasted woodpecker
11	Eumyias thallasina	Verditer flycatcher
12	Ficedula hyperythra	Snowy browed flycatcher
13	Ficedula westermanni	Little pied flycatcher
14	Garrulax erythrocephalus	Chestnut crowned laughing thrush
15	Gracula religiosa	Hill myna
16	Heterophasia capiatrata	Rufous sibia
17	Hypsipetes leucocephalus	Black bulbul
18	Icinaetus malayansis	Black eagle
19	Lanius tephronotus	Grey backed shrike
20	Leiothrix argentauris	Silver eared mesia
21	Minla ignotincta	Red tailed minla
22	Minla strigula	Chestnut tailed minla
23	Monticola rufiventris	Chestnut bellied

		rock thrush
24	Myiomela leucora	White tailed robin
25	Myophonus caeruleus	Blue whistling thrust
26	Niltava grandis	Large niltava
27	Orthotomus cuculatus	Mountain tailorbird
28	Parus monticolus	Green backed tit
29	Passer montanus	Urasian tree sparrow
30	Pericrocotus ethologus	Long tailed minivet
31	Pericrocotus flammeus	Scarlet minivet
32	Phylloscopus affinis	
33	Phylloscopus trochiloides	Greenish tree warbler
34	Picus chlorolophus	Lesser yellownape
35	Picus flavinucha	Greater yellownape
36	Psittacula eupatria	Alexandrine parakeet
37	Psittacula krameri	Rose ringed parakeet/ green parrot
38	Pycnonotus flaviventris	Black crested bulbul
39	Rhipidura albicollis	White throated fantail
40	Rhipidura aureola	White browed fantail
41	Rhyacornis fuliginosus	Plumbeous water redstart
42	Seicercus castaniceps	Chestnut crowned warbler
43	Sitta himalayensis	White tailed nuthatch
44	Tesia castaneocoronata	Chestnut headed tesia
45	Turdus boulboul	Grey winged black bird
46	Yuhina flavicollis	Whiskered yuhina
47	Yuhina gularis	Stripe throated yuhina
48	Lophura leucomelanos	Kalij Pheasant
49	Gallus gallus	Red Jungle fowl

c)Reptiles	
The common house gecko	Hemidactylus frenatus
Gray's Skink	Sphenomorphus indicus
Common Skink	Mabuya carinata
Green Trinket Snake	Elaphe prasina



S.	Species	Animal	Scientific Name	(Openir	•	k		Birth	s	Acc	luisitio	ons	D	isposa	ls	0	Deaths	;			g Stocl	ĸ
No	Name	Name			1	.17	1		1	1		1			1	1		1	1		31.3	.2018	
Enda	ngered species	s (Schedule I and	d II)	Μ	F	U	Т	Μ	F	U	Μ	F	U	М	F	U	М	F	U	М	F	U	Т
1	Amphibian	Himalayan	Tylototriton	6	7	16	29	0	0	0	0	0	0	0	0	0	0	0	0	6	7	16	29
		Newt	verrucosus																				
2	Bird	Pheasant	Catreus wallichii	2	2	0	4	0	0	3	0	0	0	0	0	0	0	0	0	3	4	0	7
		Cheer																					
3	Bird	Pheasant	Polypectron	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
		Grey	bicalcaratum																				
		Peacock																					
4	Bird	Pheasant	Lophura	13	5	0	18	0	0	2	0	0	0	2	0	0	2	2	1	10	3	0	13
		Kalij	leucomelana																				
5	Bird	Pheasant	Lophophorus	1	2	0	3	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	2
		Monal	impejanus																				
6	Bird	Tragopan	Tragopan	8	6	0	14	0	0	2	0	0	0	0	0	0	1	1	0	8	6	0	14
		Temminick's	temminickki																				
7	Mammal	Bear	Ursus	2	2	0	4	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	2
		Himalayan	thibetanus																				
		Black																					
8	Mammal	Cat Jungle	Felis chaus	1	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	2	1	0	3
9	Mammal	Cat Leopard	Prionailurus	2	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	2	1	0	3
		-	bengalensis																				
10	Mammal	Civet	Paradoxurus	5	3	0	8	0	0	0	0	0	0	0	0	0	0	0	0	5	3	0	8
		Common	hermaphroditus																				
		Palm-cat																					
		Toddy																					
11	Mammal	Civet	Paguma larvata	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
		Himalayan																					
		Palm/																					
		Masked																					

Annual Inventory Report of Padmaja Naidu Himalayan Zoological Park (1st April 2017-31st March 2018)

S. No	Species Name	Animal Name	Scientific Name	(•	ng stoc 1.17	k		Birth	S	Acc	luisitio	ons	C	Disposa	ls	0	Deaths	;		Closing 31.3.	g Stock 2018	
				Μ	F	U	Т	Μ	F	U	М	F	U	М	F	U	Μ	F	U	М	F	U	Т
12	Mammal	Jackal	Canis aures	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
13	Mammal	Langur Common	Semnopithecus entellus	3	2	0	5	0	0	1	0	0	0	0	0	0	0	0	0	3	2	1	6
14	Mammal	Common Leopard	Panther Pardus	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4
15	Mammal	Leopard Clouded	Neofelis nebulosa	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
16	Mammal	Leopard Snow	Uncia uncia	3	8	0	11	0	0	2	0	0	0	0	0	0	0	0	0	3	8	2	13
17	Mammal	Loris Slow	Nycticebus bengalensis	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
18	Mammal	Markhor	Capra falconeri	2	2	0	4	1	1	0	0	0	0	0	0	0	1	0	0	2	3	0	5
19	Mammal	Panda Red/ Lesser	Ailurus fulgens fulgens	7	8	0	15	0	0	3	0	0	0	0	0	0	1	0	0	7	10	0	17
20	Mammal	Sheep Blue/ Bharal	Pseudois nayaur	6	5	1	12	1	0	1	0	0	0	0	0	0	0	0	0	8	6	0	14
21	Mammal	Tahr Himalayan	Hemitragus jemlachius	3	3	1	7	0	1	1	0	0	0	0	0	0	0	0	0	5	4	0	9
22	Mammal	Tiger Bengal	Panthera tigris tigris	1	2	0	3	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	1
23	Mammal	Wolf Tibetan	Canis lupus chanco	1	5	0	6	0	0	4	0	0	0	0	0	0	0	2	0	1	3	4	8
24	Mamma	Yak Wild	Bos grunniens	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
25	Reptile	Python Indian Rock	Python molurus	1	1	0	2	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	3
26	Reptile	Viper Russells	Dabola russelii	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
	Total o	of Endangered Sp	pecies	76	67	18	161	2	2	19	1	2	1	3	1	0	5	8	1	78	68	24	170

	Specie	es (Schedule II a	nd IV)																				
S.	Species	Animal	Scientific Name	(Openir	ng stoc	k		Birth	S	Acc	quisitic	ons	C	Disposa	als	1	Deaths	5		Closin	g Stoc	k
No	Name	Name			1.4	.17															31.3	.2018	
				Μ	F	U	Т	Μ	F	U	Μ	F	U	Μ	F	U	Μ	F	U	Μ	F	U	Т
27	Bird	Red Jungle Fowl	Gallus gallus	13	12	2	27	0	0	13	0	0	0	1	0	0	0	0	5	17	15	2	34
28	Bird	Parakeet Alexandrine	Psittacula eupatria	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
29	Bird	Parakeet Rose Ring	Psittacula krameri	0	1	5	6	0	0	0	0	0	0	0	0	0	0	1	0	0	0	5	5
30	Mammal	Deer Barking	Muntiacus muntjak	3	8	0	11	1	0	1	0	0	0	0	0	0	0	1	0	4	8	0	12
31	Mammal	Deer Sambar	Rusa unicolor	1	2	0	3	0	0	0	1	0	0	0	0	0	1	0	0	1	2	0	3
32	Mammal	Goral	Naemorhedus goral	6	5	0	11	1	1	1	0	0	0	0	0	0	0	0	0	8	6	0	14
33	Reptile	Sand Boa	Eryx johnii	1	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2
34	Reptile	Tortoise Indian Star	Geochelone elegans	1	1	0	2	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
		Total	0.090.00	26	29	8	63	2	1	15	1	0	0	1	0	0	2	3	5	32	31	8	71
		Exotic Species		M	F	U	T	м	F	U	м	F	U	м	F	U	Μ	F	U	M	F	U	Т
35	Bird	Cockatiel A	lymphicus Iollandicus	0	0	28	28	0	0	0	0	0	0	0	0	0	0	0	3	0	0	25	25
36	Bird	Bare Eyed C Cockatoo	Cacotua sanguinea	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
37	Bird	Sulphur C Crested Cockatoo	Cacotua sulphurea	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
38	Bird	Roseate E Cockatoo	lophus roseicapilla	1	1	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1
39	Bird	Red and A Blue Macaw	res chloropterus	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2

S. No	Species Name	Animal Name	Scientific Name	0	Dpenin 1.4	g stoc .17	k		Birth	S	Acc	luisitic	ons	C	Disposa	als	I	Deaths	;		Closin 31.3	g Stoc .2018	K
				М	F	U	Т	М	F	U	М	F	U	Μ	F	U	Μ	F	U	М	F	U	Т
40	Bird	Blue and Gold Macaw	Ares chloropterus	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
41	Bird	African Grey Parakeet	Paittacus erithacus	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3
42	Bird	Golden Pheasant	Chrysolophus pictus	9	17	0	26	0	0	12	0	0	0	4	4	0	0	1	0	9	17	3	29
43	Bird	Lady Amhrest Pheasant	Chrysolophus amherstiae	1	5	0	6	0	0	5	0	0	0	0	0	0	0	0	0	4	7	0	11
44	Bird	Reeves Pheasant	Syrmaticus reevesii	4	6	0	10	0	0	0	0	0	0	0	0	0	1	0	0	3	6	0	9
45	Bird	Silver Pheasant	Lophura nycthemea	7	12	2	21	0	0	3	0	0	0	1	2	0	0	1	0	8	10	2	20
46	Bird	Turaco	Tauraco	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
	То	tal of Exotic I	Birds	28	46	30	104	0	0	20	0	0	0	5	6	0	2	2	3	30	46	30	106
		Grand Tota	l	131	142	56	329	4	3	54	2	2	1	9	7	0	9	13	9	141	145	62	348

MORTALITY List PNHZ Park Darjeeling 1st April 2017-31st March 2018

	Date	Animal	Sex	No.	Cause of Death
Mammals					
	25.04.2017	Himalayan Wolf	F	1	Death may be due to old age and multi organ failure.
x	05.05.2017	Markhor	M (faun)	1	Death may be due to ill nursing
	24.07.2017	Himalayan Wolf	F	1	Death may be due to prolonged treatment for convulsion caused by epilepsy.
	21.08.2017	Royal Bengal Tiger	F	1	Death may be due to old age and multi organ failure.
	10.11.2017	Royal Bengal Tiger	F	1	Death may be due to old age and multi organ failure.
	01.10.2017	Red panda	M	1	Death may be due to old age and multi organ failure.
	04.02.2018	Sambar deer	M	1	Acute gastritis
	28.03.2018	Barking deer	F	1	Death may be due to injury in the thoracic region and abdominal region, internal bleeding observed.
				8	0
Pheasants					
Incubanto	08.04.2017	Cockatiel	U	1	Hypothermia.
and the second	12.04.2017	Cockatiel	U	1	Hypothermia
	16.04.2017	Rose breasted Cockatoo	М	1	Hypothermia
	30.04.2017	Kalij Pheasant	М	1	Death may be due to infighting, injury marks both in the head and thoracic region.
	01.05.2017	Kalij Pheasant	M	1	Death may be due to infighting, injury marks both in the head and thoracic region.
	03.05.2017	Temminck's tragopan	F	1	Egg bound condition.
n j	16.05.2017	Red Jungle fow	U	1	Death may be due to injury in the head and e

			Total	31	
				2	
	14.06.2017	Star Tortoise	М	1	Hypothermia
	14.04.2017	Star Tortoise	F	1	Hypothermia
Reptiles				21	
			<u> </u>	21	Predated
	05.03.2018	Red Jungle Fowl	U	1	Predated
	02.03.2018	Red Jungle Fowl	U	1	Predated
-	02.03.2018	Red Jungle Fowl	U	1	Predated
	26.02.2018	Red Jungle Fowl	U	1	Organs.
					mostly all the vital
					fat deposition covering
		incasant			fatty liver condition and
	02.02.2010	Pheasant		1	Death may be due to
	02.02.2018	Golden	F	1	Enteritis
	01.12.2017	Tragopan Silver Pheasant			
	00.11.2017		M	1	Accidental death
	08.11.2017	Temminick's			region found.
					Clotting in the brain
		Monal			injury in the head.
	03.10.2017	Himalayan	F	1	Death may be due to
	00.40.0045				failure.
		Ringed			age and multi organ
	09.10.2017	Parakeet Rose	F	1	Death may be due to old
		Pheasant			(dashing)
	16.07.2017	Reeve's	M	1	infighting Accidental death
		Rang i neusant		1	Death may be due to
	10.7.2017	Kalij Pheasant	F	1	Hypothermia
	22.06.2017	Cockatiel	U	1	Predated.
	06.06.2017	Kalij Pheasant	U		injury marks in the head
					infighting as evident by
	20.05.2017	Kalij Pheasant	F	1	region. Death may be due to

Dr. Uttam Mani Pradhan

Dr. Uttam Mani Pradhan Veterinary Officer Padmaja Naidu Himalayan Darjeeling, W.B.

A. D. V. O. Padmaja Nulau Limalayan Zoolegiaa, Paul Darjeeling