



**NORTH BENGAL
WILD ANIMALS
PARK**

ANNUAL REPORT

2020 -2021



North Bengal Wild Animals Park
WEST BENGAL ZOO AUTHORITY

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DIRECTOR'S NOTE



I am pleased to present the Annual Report of the North Bengal Wild Animals Park (Bengal Safari), Siliguri for the financial year 2020-2021. The foundations of this glorious North Bengal Wild Animals Park with luxuriant Sal forest spread around 297 Hectares was laid on 21th January 2016 by the Honourable Chief Minister, Smt Mamata Banerjee to boost the tourism of North Bengal. Being one of the first safari parks of Bengal comprising diverse flora and fauna, the park offers its visitors a plethora of thrilling sightings like the gaze of Royal Bengal Tiger, Common Leopard, Himalayan Black Bear, Rhinoceros, Spotted Deer, birds and many more.

North Bengal Wild Animals Park (Bengal Safari) is contributing significantly to the cause of conservation, breeding and future research and education of endangered species specially the Bengal Tigers as the park is presently a proud caretaker of seven Bengal Tigers and has achieved an outstanding landmark through birth of three normal coloured Bengal Tiger cubs during the mid year. Besides this, the park has strived effectively in rescue and rearing of rescued animals and birds brought to park such as elephant calf, Leopard cubs, Pangolins, parakeets, vultures etc and significantly arranged for their rehabilitation also.

This year has been challenging for the zoo management because of COVID-19 pandemic. Management of the zoo during this period was initiated by series of protective measures like organising COVID-19 bio security awareness mock drill which was formulated based on the timely guidelines issued by Central Zoo Authority, West Bengal Zoo Authority as well as Ministry of State & Central Government. Consistent application of sanitization drill, daily disinfection, and review meetings for follow up by dedicated implementation of COVID-19 protective measures putting all zoo officials and staff on their toes significantly aided in welfare of animal & visitors as well as staffs of zoos on a positive note.

In this annual year, North Bengal Wild Animals Park organised several online as well as offline outreach, educational and nature awareness programmes on days of environment & wildlife significance such as Online Poster Making Contest, Online Paper Origami contest, Online quiz competitions & on-foot quiz for visitors, Essay writing competition, Mask making competition as well as sit & draw competition with participating schools. Interactive seminars such as Human –Wildlife conflict mitigation, Upkeep & management of Zookeepers, Keepers talk were organised during this year to symbolize and strengthen the intricate human-animal relationship in zoos as well as in society.

The park also celebrated its fifth foundation Day with great pomp & joy this year. Varied events like early morning marathon, release of Tiger cubs along with tigress in the Tiger Safari for recreation of visitors, programme on rehabilitation of rescued lesser cats in zoo quarantine facility, prize & certificate distribution by the honourable forest officials made the day a memorable one in the history of this zoo. The park in association with the local village successfully conducted animal health check up camp as well as provided free safari rides for children aimed for their welfare and enrichment of local resident communities

Keeping in mind the visitors comfort and ease during their park visit, this year, the park was enriched with inauguration of two visitor facilities namely Visitors Waiting Hall and Canteen inaugurated by Shri Goutam Deb, Honourable MIC, Tourism, Govt of WB. Additionally, air conditioned facility was developed at the Nature Interpretation Centre for the visitors.

Special emphasis were also being laid on the enhancement of seasonal special arrangements for upkeep of animals & birds like plantation of fruiting plants in aviaries, shades to protect animals & birds from sun and rain, cooler, fans and blowers in night shelters of tiger and bear during summers and winters, Seasonal fruits in diets, structural enrichments inside kraals for playing and feeding purposes.

The park undertook several important development and maintenance works. Repairing & modification of Lesser Cat enclosures, Construction of central Tower & Water Tank, several repairing works at animal night shelters, repairing & maintenance of external boundary walls are few important works executed during the financial year.

In the last quarter of the year, the park accounted a major achievement regarding successful surgical management of pyometra in a captive female Common Leopard of the park. North Bengal Wild Animals Park (Bengal Safari) has witnessed many positive changes during this period, thus gradually leading towards fulfilling the objectives of creation of Zoological Parks & Gardens in our country.

I appreciate the hard work of zoo employees, their cooperation and participation in the effective management of zoo.



Shri Badal Debnath, WBFS
Director, Bengal Safari



2. HISTORY OF THE ZOO

The North Bengal Wild Animals Park was earlier part of the Baikunthapur Forest Division under the Adabari Beat and earlier existed as Shorea Nature Park adjacent to Mahananda Wildlife Sanctuary, later on an area of 297 Ha had been identified by including the earlier existing park for the establishment of the North Bengal Wild Animals Park at Siliguri. As Siliguri stands in a unique geographical niche; Nepal lies in the West, Bhutan to the North- East, China and Bangladesh to the South as well as being a principal commercial tourism hub and the transit point for air, road and rail traffic to the neighbouring countries of Nepal, Bhutan and Bangladesh, and to the North East, tourists / people from other parts of the country became interested to take a glimpse of wild animals and birds of the North Bengal for developing a healthy relationship between animals and human beings. The North Bengal Wild Animals Park was thus planned keeping in view of CZA's norms for its development, objectives and maintenance. The Hon'ble Chief Minister of West Bengal, Smt. Mamata Banerjee has laid the foundation stone of the North Bengal Wild Animals Park on July 17, 2014 & inaugurated the first phase of this massive project (Mixed herbivore safari) in January 2016.

The North Bengal Wild Animals Park, Siliguri is more of a Safari Park and aims to showcase the different animals in their natural habitats through safari vehicles. It presents the picturesque glimpse of the Himalayan range establishing its inmate charm. Bengal safari is situated 8 km from Siliguri and at present have tiger safari, mixed herbivore safari, Asiatic black bear safari, leopard safari, zoo enclosure exhibits housing birds, lesser cats & reptiles and Nature Interpretation Centre, Elephant rides etc.



3. OUR VISION

The North Bengal Wild Animals Park (Bengal Safari) Siliguri, West Bengal is to provide a glimpse of wild animals and birds of the North Bengal plains to the general public for developing a healthy relationship between animals and human beings and to promote conservation of our invaluable faunal resources through display, care and awareness. The safari is an endeavour to breed the endangered species for display, exchange and rehabilitation in the wild.

4. OUR MISSION

This Wild Animals Park, Siliguri intends to complement the national efforts in conservation of wildlife through breeding of endangered species of the region and to develop empathy among visitors for wild animals.

5. OBJECTIVE

The park shall work for the conservation of the rich bio-diversity of the region to the following objectives:

- Conservation of the rich biodiversity of the region i.e. North Bengal, as the animal species displayed shall be from the North Bengal eco-system only.
- To reduce the tourist pressure on the National Parks/Protected Areas.
- To create amongst the visitors empathy towards wild animals through appreciation and better understanding.
- To collect and collate the scientific data on the biology, behaviour and health care of various species of wild animals displayed in the safari and use the same in future management of the safari park.
- Recreation for the purpose of providing wholesome, healthy and educational activity to a large number of people by utilizing the outdoor natural setting without detriment to any of the preceding objectives.



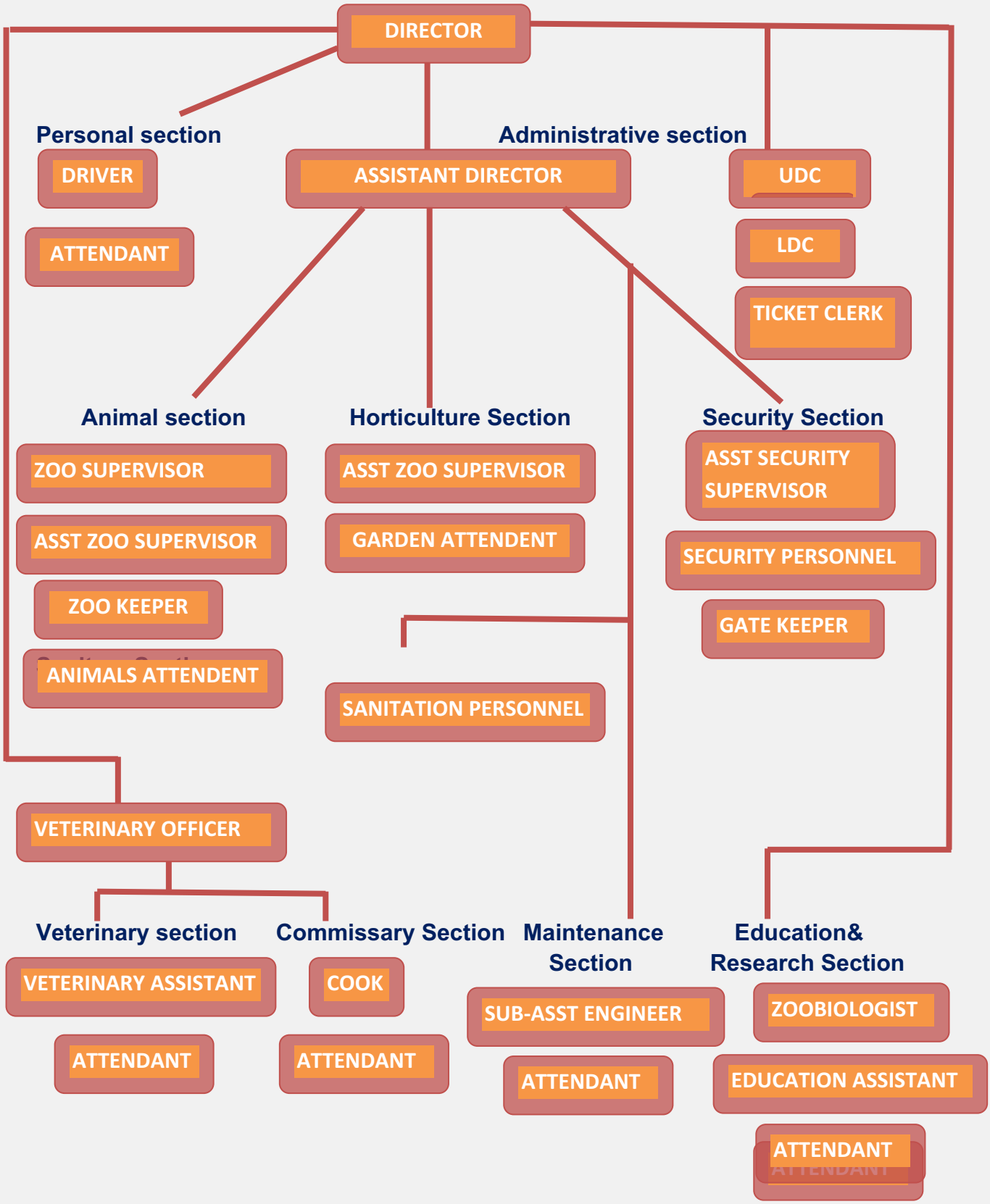
6. ABOUT US

Basic Information about the Zoo

Sl. No.	Particulars	Information
Basic Information about the Zoo		
1	Name of the Zoo	North Bengal Wild Animals Park
2	Year of Establishment	2015
3	Address of the Zoo	North Bengal Wild Animals Park, 5 th Mile, Sevoke Road, Salugara, Siliguri-734008
4	State	West Bengal
5	Telephone Number	+91 7047312620
6	E-mail address	dirnbwap@gmail.com
7	Website	www.northbengalwildanimalspark.in
8	Distance from nearest	Airport: Bagdogra International Airport (Distance: 21 km) Railway Station: New Jalpaiguri (Distance: 15 km) Bus Stand: Tenzing Norgay Bus Terminus (Distance: 10 km)
9	Recognition Valid upto (Date)	19.08.2021
10	Category of zoo	Mini
11	Area (in Hectares)	297
12	Number of Visitors (Financial Year)	1,15,954

13	Visitors' Facilities Available in Zoo	<ul style="list-style-type: none"> • Cloak Room • Baby care room • Wheel Chair • Normal & Chilled certified drinking water with R.O. filter facility • Washroom • Cafeteria & Canteen • Children playing area • Sitting arrangement • First aid • Leaflets & bag • Souvenir Shop • Golf Cart • Height measurement wall stand for visitors. • Trackless Toy Train • Visitors Waiting Hall • Solar mobile charging point
Management Personnel of the zoo		
14	Name with designation of the Officer in-charge	Mr. Badal Debnath, WBFS
	Name of the Veterinary Officer	Dr. Nick Doley
	Name of the Curator	Ms. Anuradha Rai, WBFS
	Name of the Biologist	Ms Namrata Ghosh
	Name of the Education Assistant	Ms Sangita Basak
	Name of the Compounder/ Lab Assistant	Mr. Biswajeet Sarkar (Veterinary Assistant)
Owner / Operator of the Zoo		
15	Name of the Operator	Mr. Saurabh Chaudhuri, IFS
16	Address of the Operator	West Bengal Zoo Authority Aranya Bhawan 1 th Floor Block - LA-10A, Sector III Salt Lake City, Kolkata - 700106, West Bengal
17	Contact details/Phone number of Operator	+91 33 23355010
18	E-mail address of Operator	mwbza@gmail.com







8. MANPOWER OF THE ZOO

Sl.No	Designation	Number of Sanctioned Posts	Existing Staff Strength	Names of the incumbent
1.	Director	1	1	Mr. Badal Debnath, WBFS
2.	Asst. Director	1	1	Mrs. Anuradha Rai, WBFS
3.	Range Officer	1	1	Mr. Deepak Rasaily, FR
4.	Deputy Ranger/ Foresters	2	0	-
5.	Forest Guard	10	0	-
7.	Veterinary Officer	2	1	Dr. Nick Doley
8.	Asst. Engineer (Civil)	1	0	-
9.	Zoo Biologist	1	0	Miss Namrata Ghosh
10.	Sub Assistant Engineer (Civil)	1	1	Mr.Tuhin Nag Biswas
11.	Zoo Supervisor	1	1	Mr. Jagannath Ganguly (Retd RO)
12.	Research Assistant	1	0	-
13.	Education Assistant	1	1	Miss Sangita Basak
14.	Veterinary Assistant	1	1	Mr. Biswajeet Sarkar
14.	Asst. Zoo Supervisor	2	0	-
15.	Asst. Estate/ Security Supervisor	1	0	-
16.	Asst. Security Supervisor	1	1	Mr. Bir Bahadur Tamang
17.	Accountant	1	1	Miss. Swarnali Dutta Roy
18.	Store-keeper	1	0	-
19.	UDC /OA/TA	1	1	Mr. Pappu Kr. Sah
20.	LDC	1	0	-
21.	Ticket Clerk	1	1	Miss. Manila Thapa

22.	Gate Keeper	1	0	-
23.	Zoo Keeper	10	10	-
Sl.No	Designation	Number of Sanctioned Posts	Existing Staff Strength	Names of the incumbent
24.	Mahut	-	2	Mr. SatarNarjinary(Mahut) Mr. Kamal Roy (Patawala) Mr. Jogesh Barman (Patawala) Mr. Parimal Barman(Mahut)
25.	Cook	1	-	-
26.	Driver	11	3	Mr. Kusang Tamang Mr. Manik Roy Mr. Utpal Debnath
Support Staff (On Contract):				
27.	a) Security	30	22	1. Mr. Manish Gajmer 2. Mr. Ashik Khawas 3. Mr. Rajesh Lal Saibo 4. Mr. Krishna Thapa 5. Mr. Hemant Pradhan 6. Mr. Chandra Kr. Chetri 7. Mrs Tripti Sarkar 8. Mr. Kalyan Sharma 9. Mr. Ranjit Saibo 10. Mr. Karan Marandi 11. Mr. Anil Saibo 12. Mr. Sudesh Baraik 13. Mr. Rakesh Majhi 14. Mr. Ajit Kr. Bhujel 15. Mr. Himu Barman 16. Miss Jyoti Biswakarma, 17. Miss Manu Rai 18. Mr Ganesh Saibo 19. Mr Ratan Singh Saibo 20. Mr Milan Tamang 21. Mr Bappa Barman 22. Sangam Majhi
	b) Sanitation Attendant	6	6	1. Mr. Sanjib Hela 2. Mr. Sukul Hela 3. Mr. Suraj Paswan 4. Mrs. Sunita Paswan 5. Mr. Ravi Paswan 6. Mr. Manish Lal Saibo
	c) Garden Attendant	6	6	1. Mr Indra Bd. Thapa 2. Mr RahinSaiba 3. Mr Dhanesh Roy 4. Mr Dal Bd Chetri 5. Mr Md. Rahmat Ali 6. Mr Prasenjit Barman

	d) Attendant	7	5	<ol style="list-style-type: none"> 1. Mr AsitNarjinary 2. Mr Raju Saibo 3. Miss Anjali Chettri 4. Mr Binod Rai 5. Mr Subhash T Chettri
	e) Animal Attendant	15	10	<ol style="list-style-type: none"> 1. Mr Gopal Biswakarma 2. Mr Unis Saibo 3. Mr Subal Pradhan 4. Mr Rohan Rai 5. Mr Md Aminur Rahman 6. Mr Krishna Adhikary 7. Mr Bibek Roy 8. Mr DipuUrow 9. Mr Pranab Tamang 10. Mr Rafiqul Islam

9. CAPACITY BUILDING OF ZOOPERSONNEL

Due to COVID-19 pandemic capacity building programmes were not physically attended by the Zoo Personnel. Following online workshop and training programmes conducted by Central Zoo Authority and other zoos was attended by zoo personnel digitally:-

Sl.No.	Name and designation of the zoo personnel	Subject matter of Training	Period of Training	Name of the Institution where the Training attended
1	Dr. Nick Doley, V.O Namrata Ghosh, Zoo Biologist Biswajeet Sarkar, V.A	Conservation planning in Zoos	16.08.2020	Virtual mode through CZA Cisco WebEx application link
2	Namrata Ghosh, Zoo Biologist Swastika Tamang, Office Attendant	Enrichment for Animal Welfare	29.08.2020	Virtual mode through CZA Cisco WebEx application link
3	Dr. Nick Doley, V.O	Refresher training on Wildlife Health Management for Veterinary Health Professionals	23.02.2021 To 25.02.2021	Virtual mode through CZA Cisco WebEx application link
4	Shri Badal Debnath, Director	Attended as resource person at Educator skills training workshop on Human Elephant Conflict	05.03.2021 To 07.03.2021	Organized by SPOAR, in collaboration with zoo outreach organization, Jalpaiguri
5	Mr Krishna Adhikari Mr Bibek Roy	National Zookeepers Training on captive management of reptiles	15.03.2021 To 17.03.2021	Organized by IGZP, Vishakapatnam. Attended through Cisco WebEx application link





10. ZOO ADVISORY COMMITTEE

a. Date of Constitution:

The Governing Body of the Authority (**Govt. Notification No. 10036-for/11M-27/2002, dated 23.12.2009**) consists of following 14 members.

b. Members

The Chief Secretary to the Govt. of West Bengal	Chairman
Addl. Chief Secretary, Dept. of Forests, Govt. of West Bengal and Vice Chairman, West Bengal Zoo Authority	Vice-Chairman
Addl. Chief Secretary, Dept of Finance, Govt. of West Bengal and Member, West Bengal Zoo Authority	Member
Addl. PCCF and Member Secretary, West Bengal Zoo Authority	Member- Secretary
Member Secretary, Central Zoo Authority, Govt. of India and Member, WBZA	Member
Principal Chief Conservator of Forests & HOFF, West Bengal	Member
Principal Chief Conservator of Forests (Wildlife) and Chief Wildlife Warden, West Bengal	Member
Director, Animal Husbandry & Vet. Services, W.B	Member
Director, Padmaja Naidu Himalayan Zoological Park, Darjeeling	Member
Director, Zoological Garden, Alipore, Kolkata	Member
Director, North Bengal Wild Animals Park, Siliguri	Special Invitee Member
Shri Debasish Paramanik, Raiganj Panchayat Samiti, Uttar Dinajpur	Member
Shri Sankar Dhar, People's for Animals, Alipurduar	Member
Sk. Johar Ali, President, All Backward Class Relief & Development Mission	Member
Smt. Debolina Biswas, Councillor, KMC, Ward No. 74	Member

c. Dates on which Meetings held during the year:

19th GB Meeting: 4th December, 2020



11. HEALTH ADVISORY COMMITTEE

a. Date of Constitution

A Veterinary Expert Team i.e., Health Advisory Committee was reconstituted with the following Officers as per request of the Member Secretary, West Bengal Zoo Authority. A Committee was constituted comprising of the following Officers of the Directorate of AH & VS, West Bengal.

b. Members

Dr.BasudevMaity, Joint Director, ARD IAH&VB (R&T)	Chairman.
Dr.Joyjit Mitra, Specialist (Sero-Epidemiology, RDDDL (ER), IAH&VB	Member
Dr, Debasish Chatterjee, Asst. Director, ARD (Vet), (Disease Investigation), IAH&VB.	Member
Dr.Proloy Mandal, Asst. Director, ARD (Vet), IAH&VB	Member

12. STATEMENT OF INCOME AND EXPENDITURE OF THE ZOO



Sl. No.	Year (2020-21)	Source of fund	
1.	As grant in aids under Plan	West Bengal Forest Deptt.	2.35 Cr
		West Bengal Tourism Deptt.	
		North Bengal Development Deptt.	
2.	As grants under Non-plan	Zoo Authority of West Bengal	5.31 Cr
	Total Expenditure (*Unaudited Figure)		7.66 Cr
			Receipt in Rupees
3.	a) Ticket Revenue (including Toy Train, Golf Cart & Vehicle parking)		13,635,095.00
	b) Animal Adoption		-
	c) Friends of Zoo		-
	d) Miscellaneous earnings (Fee from rental store & souvenir shop, electricity, FPC canteen, stalls etc)		2,57,234.00
	Total Revenue (*Unaudited Figure)		13,892,329.00

*From 1st April 2020 to 1st October 2020, the park was closed for visitors due to Covid-19 pandemic and lockdown as directed by Govt of West Bengal. The park reopened on 2nd Oct 2020.



Fig: Spotted Deer feeding at the feeding stalls at Herbivore Safari



Fig: Macaws feeding at the feeding trays at Aviary



No.	Animals	No. of Individuals	Items	QUANTITY (Approx)	DRY WT (WET WEIGHT)	Time
1	Sambar	32	Gram Wheat Bran Crushed maize Masoor Dal Mator Dal Salt Black salt Turmeric Green fodder Cabbage Salt lick with added vitamins, minerals	60KG 42KG 42KG 22KG 22KG 1KG 1KG Yes Yes 10KG Yes	141.10 KG	Early morning (8.45am-9.30am)
2	Spotted Deer	479				
3	Barking Deer	27				
4	Swamp Deer	06				
4	Hog Deer	04				
5	Wild Boar	06				
6	Indian Rhino	01	Corn Green fodder Carrot	90 Pcs 80 KG 2 KG	172KG	Morning (10am) Evening(4pm)
7	Bengal Tiger	Female Female Female	Beef w/b	10KG	67.5KG	Evening (6pm)
		Male	Beef w/b With Vitamin A, Calcium	10.5KG		
		Cub 1 Cub 2 Cub 3	Beef w/b Beef Soup w/b	9 KG		
8	Leopard	Male 1 Male 2	Beef W/B	3KG	12.0KG	Evening (6pm)
		Female 1 Female 2	Beef W/B	3KG		

No.	Animals	No. of Individuals	Items	QUANTITY (Approx)	DRY WT (WET WEIGHT)	Time
9	Indian Palm Civet	03	Banana Chicken	3 Dozen 700G	3 Dozen	Evening (5.30pm)
10	Jungle Cat	04	Chicken	2.4 KG	4.7KG	
11	Fishing Cat	02	Chicken Fish	1KG 1KG	4KG	Evening (5.30pm)
12	Birds & Pheasants	99	Grams Crushed Maize Masur Dal Wheat Carrot Cabbage Watermelon Chilly Guava Apple Musambi Onion Groundnut Banana Papaya Satu Orange Pomegranate	1.5KG 2KG 50G 3KG 60G 3KG 2KG 33G 60G 65G 64G 39G 2.5kG 3 DOZEN 1.68KG 20G 1 1	26.48KG	Morning (7am-9am) & Afternoon (4pm-5pm)
13	Asiatic Black Bear	04	Atta Rice Grams Egg Milk Sattu Molasses Fruits Vegetables Watermelon Soup Beef W/B Honey Orange Pomegranate	1KG 1KG 1KG 8Pcs 2 LITRE 600G 1.2KG 1.84KG 3.46KG 4.32KG 4LITRE 4KG As required 2KG 2KG	28.42KG	Morning (7am-9am) Afternoon (4pm-5pm)

14	Elephant	02	Rice Dal Mollasses (Winter) Salt Banana plants Turmeric Powder Green Fodder	8KG 2KG 1KG 100G 10PCS Small Quantity Sufficient Quantity	11 KG+	Morning Afternoon (5pm-6pm) Night (fodder)
15	Lesser Adjutant Stork	02	Small Fish	4KG	4KG	Early Morning(7am- 9.30am)
16	Indian Pond Heron	01				
17	Gharial	05	Live fish	10KG	10KG	Early Morning (Thrice a week)
18	Turtles and Tortoise	54	Fish Chicken Carrot Cabbage	0.50KG 0.5KG 0.25KG 0.20KG	1.45KG	Mid-day (9-10am)
19	Crocodile	04	Fish Chicken	9KG 1 KG	12KG	Early Morning (Thrice a week)



14. VACCINATION SCHEDULE OF ANIMALS



Sl.No.	Species	Disease vaccinated for	Name of the Vaccine and dosage/ quantity used	Periodicity
1	Tiger	Calcivirus, Rhinotracheitis, Panleukopenia	Feligen 1ml	Annually
2	Tiger	Canine Distemper	Merial (CD) 1 ml	Annually
3	Tiger	Rabies	Raksharab 1ml	Annually
4	Leopard	Calcivirus, Rhinotracheitis, Panleukopenia	Feligen 1ml	Annually
5	Leopard	Rabies	Raksharab 1ml	Annually
6	Asiatic Elephant	FMD, Haemorrhagic Septicaemia, Black quarter	Triovac 3ml	Annually
7	Asiatic Elephant	Rabies	Raksharab 1 dose	Annually
8	Asiatic Elephant	Tetanus	Tetanus toxoid 1dose	Annually
9	Asiatic Elephant	Anthrax	Anthrax spore vaccine 1 dose	Annually
10	Jungle Cat	Calcivirus, rhinotracheitis panleukopenia	Feligen 1dose	Annually
11	Jungle Cat	Rabies	Raksharab 1 dose	Annually
12	Fishing Cat	Calcivirus, rhinotracheitis panleukopenia	Feligen 1 dose	Annually
13	Fishing Cat	Rabies	Raksharab 1 dose	Annually
14	Asiatic Black Bear	Rabies	Rabigen 1 dose	Annually

Note: Quantity is depends upon the body weight of the animal, species and drugs to be given.

15. DE-WORMING SCHEDULE OF ANIMALS

Sl.No.	Species	Drug used	Month
1	Tiger	Fenbendazole, Oxfendazole, Ivermectin, Pyrental, Praziquantel, Febantel	6 months interval
2	Asiatic Black Bear	Fenbendazole, Albendazole, Oxfendazole	6 months interval
3	Barking Deer	Fenbendazole, Albendazole, Oxfendazole	6 months interval
4	Spotted Deer	Fenbendazole, Albendazole, Oxfendazole	6 months interval
5	Sambar	Fenbendazole, Albendazole, Oxfendazole	6 months interval
6	Hog Deer	Fenbendazole, Albendazole, Oxfendazole	6 months interval
7	Swamp Deer	Fenbendazole, Albendazole, Oxfendazole	6 months interval
8	Indian One Horned Rhinoceros	Fenbendazole, Albendazole	6 months interval
9	Exotic Birds	Fenbendazole, Albendazole, Oxfendazole, Piperazine, Pyrentalembonate, Febantel	6 months interval
10	Palm Civet	Fenbendazole, Albendazole, Oxfendazole, Pyrentalembonate, Febantel	6 months interval
11	Asiatic Elephant	Fenbendazole, Albendazole, Oxfendazole	6 months interval
12	Peafowl	Fenbendazole, Albendazole, Oxfendazole, Piperazine, Pyrentalembonate, Febantel	6 months interval
13	Indigenous Birds	Fenbendazole, Albendazole, Oxfendazole, Piperazine, Pyrentalembonate, Febantel	6 months interval
14	Jungle Cat	Fenbendazole, Oxfendazole, Ivermectin, Pyrental, Praziquantel, Febantel	6 months interval
15	Fishing Cat	Fenbendazole, Oxfendazole, Ivermectin, Pyrental, Praziquantel, Febantel	6 months interval

16. DISINFECTION SCHEDULE

Sl.No.	Species	Type of enclosure	Disinfectant used and method	Frequency of disinfection
1	Tiger	Night Shelter	Kohrsolin/Vircon, Potassium permanganate, burning, spraying, fumigation,	Twice a month
2	Leopard	Night Shelter	Kohrsolin/Vircon, Potassium permanganate, burning, spraying, fumigation,	Twice a month
3	Asiatic Black Bear	Night Shelter	Kohrsolin/Vircon, Potassium permanganate, burning, spraying, fumigation,	Twice a month
4	Barking Deer	Safari area	Kohrsolin/Vircon, Potassium permanganate, burning, spraying, fumigation,	Twice a month
5	Spotted Deer	Safari area	Kohrsolin/Vircon, Potassium permanganate,	Twice a month
6	Sambar	Safari area	Kohrsolin, Potassium permanganate/Vircon ate, burning, spraying, fumigation,	Twice a month
7	Hog Deer	Safari area	Kohrsolin/Vircon, Potassium permanganate, burning, spraying, fumigation,	Twice a month
8	Indian One Horned Rhinoceros	Safari area	Kohrsolin/Vircon, Potassium permanganate,	Twice a month
9	Exotic Birds	Aviary	Kohrsolin/Vircon, Potassium permanganate, spraying, fumigation,	Twice a month
10	Palm Civet	Night Shelter	Kohrsolin/Vircon,	Twice a month

			Potassium permanganate, spraying, fumigation,	
11	Asiatic Elephant	Night Shelter	Kohrsolin/Vircon, Potassium permanganate, burning, spraying, fumigation,	Twice a month
12	Peafowl	Aviary	Kohrsolin/Vircon, Potassium permanganate, spraying, fumigation,	Twice a month
13	Indigenous Birds	Aviary	Kohrsolin/Vircon, Potassium permanganate, spraying, fumigation,	Twice a month
14	Jungle Cat	Night Shelter	Kohrsoli/Vircon n, Potassium permanganate, burning, spraying, fumigation,	Twice a month
15	Fishing Cat	Night Shelter	Kohrsoli/Vircon n, Potassium permanganate, burning, spraying, fumigation,	Twice a month
16	Miscellaneous	Zoo Pathways, Entry gate foot dips, Goods carriage vehicle, buildings etc	Kohrsolin/Vircon, Potassium permanganate,	Daily

DISINFECTION SCHEDULE IN INBWAP



Fig: Disinfection, fumigation, Sanitization works carried out at Bengal Safari

17. HEALTH CHECK-UP OF EMPLOYEES FOR ZOO NOTIC DISEASES

Sl.No.	Name	Designation	Date of Health Check up	Findings of Health Check up
1	Himu Barman	Animal Attendant	21.03.2021	Nil for Zoonotic diseases
2	BijayOraw	Animal Attendant	21.03.2021	Nil for Zoonotic diseases
3	Sagar Rai	Animal Attendant	21.03.2021	Nil for Zoonotic diseases
4	Krishna Adhikari	Animal Attendant	21.03.2021	Nil for Zoonotic diseases
5	Bibek Roy	Zoo Keeper	21.03.2021	Nil for Zoonotic diseases
6	Karan Marandi	Zoo Keeper	21.03.2021	Nil for Zoonotic diseases
7	Unish Lal Saibo	Animal Attendant	21.03.2021	Nil for Zoonotic diseases
8	AminurRahaman	Animal Attendant	21.03.2021	Nil for Zoonotic diseases
9	Subol Pradhan	Animal Attendant	21.03.2021	Nil for Zoonotic diseases
10	Rakesh Majhi	Animal Attendant	21.03.2021	Nil for Zoonotic diseases
11	Satish Rai	Animal Attendant	21.03.2021	Nil for Zoonotic diseases
12	Ganesh Saibo	Animal Attendant	21.03.2021	Nil for Zoonotic diseases
13	DipuUrow	Animal Attendant	21.03.2021	Nil for Zoonotic diseases
14	Sangam Majhi	Animal Attendant	21.03.2021	Nil for Zoonotic diseases
15	Bijay Sharma	Animal Attendant	21.03.2021	Nil for Zoonotic diseases
16	Raj Thapa	Animal Attendant	21.03.2021	Nil for Zoonotic diseases
17	Rohan Rai	Animal Attendant	21.03.2021	Nil for Zoonotic diseases
18	Rafiqul Islam	Animal Attendant	21.03.2021	Nil for Zoonotic diseases
19	Pranab Tamang	Animal Attendant	21.03.2021	Nil for Zoonotic diseases
20	Parimal Tamang	Animal Attendant	21.03.2021	Nil for Zoonotic diseases
21	Kalu Rai	Animal Attendant	21.03.2021	Nil for Zoonotic diseases
22	Ajay Majhi	Animal Attendant	21.03.2021	Nil for Zoonotic diseases



Fig: Annual Health Check up for employees of Bengal Safari

18. DEVELOPMENT WORKS CARRIED OUT IN THE ZOO DURING THE YEAR.

Amidst the COVID19 pandemic with all safety protocols and protective measures, following developmental works were carried out:-



Fig: Repairing of project LC-1 Fig: Modification of project LC- 7



Fig: Construction of Shyamjhora Bridge



Fig: Construction of Central tower for water tank and water line

BUILDINGS

1. Inauguration of Canteen at Parking Area
2. Inauguration of Visitor waiting hall near bus pickup point

Fig: Collage of Miscellaneous repair & Maintenance works





Fig: Inauguration of Canteen at Parking Area



Fig: Inauguration of Visitor waiting hall in Bus pickup point

19. EDUCATION AND AWARENESS PROGRAMMES DURING THE YEAR

Following are the various educational outreach programmes held during the year 2020-2021:-

NATURE EDUCATION AND AWARENESS PROGRAMMES			
SESSION 2020-2021			
Sl.No.	Date	Occasion	Event
1.	05.06.2020	World Environment Day Celebration	An online art contest was organized for children categorized into two age groups- Junior wing & Senior Wing. Around 200 children participated from all over India. Winners of the contest were awarded with special prize money.
2.	14.07.2020-20.07. 2020	Celebration of Van Mahotsav	Bengal Safari celebrated "Van Mahotsav-2020" on 16 th July, 2020 within the park premises by planting fruit plant saplings in several areas of Park premises
3.	12.08.2020	World Elephant Day	In-house keepers talk was organised which comprised experience sharing by Mahuts and an online Elephant Quiz Contest for all age.
4.	15.08.2020	Independence Day	Flag hoisting among park staffs. The Director, Sri Dharmdeo Rai Sir took initiative by honouring deserving zookeepers and field staffs through monetary reward and appreciation certificates.
5.	22.09.2020	World Rhino Day	The venue for celebration of World Rhino Day 2020 was Bengal Safari. The event was held at the seminar hall by distribution of Rhino Awareness Pamphlets and mementos to the forest officials.
6.	02.10.2020-08.10.2020	Wildlife Week	Suitable programmes and events were planned at Bengal Safari during the Wildlife Week. Ceremonial Planting program, Online poster making contest , On foot quiz contest for visitors, Wildlife Awareness Seminar on Human-Animal

			relationship and role of human in human-wildlife conflict mitigation, a quiz competition were organized among staff members of Bengal Safari, and Keepers Talk emphasizing on relationship between zoo keepers and their associate animal at Bengal Safari.
7.	14.11.2020	Children's Day	Bengal Safari organized Online "Paper Origami making competition" on the occasion of Children's Day. Many students participated & winners were rewarded with a memento and certificate.
8.	NOV-DEC,2020	Visitor experience survey questionnaire	The park conducted a survey questionnaire to understand the visitor experience at the zoo.
9.	19.12.2020	Seminar on General upkeep and management of zookeepers	The park organised a seminar at the seminar hall. Dr. Deepak Sharma, Assistant Director, ARD Kalimpong District was the speaker. The workshop was attended by all the zoo keepers of park including Director, Range Officer as well as field Staffs.
10.	25.12.2020	Christmas Day	On the eve of Christmas Day, the park celebrated Christmas by distributing the Santa caps and chocolates to the kids along with other visitors.
11.	26.01.2021	Republic Day Celebration	Flag Hoisting by Director & sweets distribution to all the staffs.
12.	03.03.2021	World Wildlife Day Celebration	The park conducted Online Essay Writing Contest. Animal face mask making program was also organised with students at NIC building of NBWAP.
13.	21.03.2020	World Forestry Day Celebration	Sapling Plantation by the officials & staffs of NBWAP along with visitors. Brochures were distributed to the visitors.

EDUCATION & AWARENESS PROGRAMMES THIS YEAR



HAPPY ZOO LOVERS DAY
8TH APRIL, 2021



BENGAL SAFARI INTERNATIONAL ELEPHANT DAY 2020
16TH APRIL, 2021

Bengal Safari is organizing **Online Elephant Quiz 2020** (and online safari)

- SMELLER: Elephants use their trunk to smell things.
- INTERACT: Elephants interact with each other by touching trunks.
- INTERACT: Elephants interact with their family members.

SAVE THE RHINO DAY 2021
KNOW YOUR RHINOS

Rhinos are born without horns. These start growing after about a month, but continue growing for the rest of their lives.

Rhinos can get exhausted! They will groan as they try to keep the unwanted horns off of their skin.

Rhino horn is made of keratin, the same substance as human hair and fingernails.

Both black and white rhinoceroses are actually grey.



BENGAL SAFARI
Help protect the elephant!

SAVE THE ELEPHANT DAY
16TH APRIL, 2021

Elephants are the largest land animals on Earth.

Elephants are highly intelligent and can remember things for years.

Elephants are social animals and live in groups called herds.

Elephants are important for the ecosystem as they help to disperse seeds.

SAVE THE ELEPHANT TO SAVE ECOSYSTEM

WORLD SPARROW DAY
20TH MARCH

LET'S SAVE THE SMALL! Celebrate the small bird 21st March every year.

YOU CAN SAVE SPARROW BY DOING THIS

- Feed sparrows directly
- Provide water in your garden
- Build a nest box for sparrows
- Plant native plants and trees
- Don't use pesticides

WORLD WATER & SANITATION DAY
14TH MARCH, 2021

It's time to celebrate the water in water!

It's time to celebrate the water in water!

It's time to celebrate the water in water!

It's time to celebrate the water in water!

SCHOOL AND INSTITUTION VISITS DURING THE YEAR 2020-21

Sl. No.	Date	Name Of Institution	No Of Teachers	No Of Students
1.	09.02.2021	Mayal laying children home	05	35
Total Visiting Teachers cum Students			05	35

20. IMPORTANT EVENTS AND HAPPENINGS

Bengal Safari welcomes New Director Shri. Badal Debnath (WBFS):

In the first quarter of the year, Bengal Safari welcomed the new Director of the park. Shri. Badal Debnath (WBFS), took over the charge of Director of North Bengal Wild Animals Park, Siliguri from Shri. Dharmdeo Rai (IFS) on 24th August, 2020. He was formerly posted as Deputy Director at PNHZP and under his supervision, efficiently involved in managed the operating of PNHZP and satellite zoos under PNHZP. He is a distinguished acknowledged forester in the forest directorate of West Bengal. Bengal Safari is undergoing several positive changes under his leadership such as efficient animal & visitor management in COVID times, guidance aiding in in house rehabilitation & adaptabilities of rescued animals in the zoo, interactive redresser sessions regarding zoo management, health management aiming for optimal survival of animals specially the tiger cubs etc.



Farewell ceremony of former Director Shri Dharmdeo Rai, IFS:

Bengal Safari bid farewell to Shri Dharmdeo Rai, IFS, the then Director of the park after his exemplary service of a year and a half. The park reached great zenith during his tenure. Construction & development of Visitors facility- toy train, visitors waiting room, enrichments at shelters, elephant bathing recreation for visitors etc. Under his supervision, the park witnessed the birth of three healthy normal coloured tiger cubs also. Bengal Safari wishes all the best for his future endeavours.



World Environment Day Celebration: Bengal Safari being working close to wildlife and nature celebrated World Environment Day on 5 June 2020 by planting saplings around the Park premises, as well as held online events too. This year, due to COVID-19 pandemic, an online art contest was organized for children categorised into two age groups- Junior wing & Senior Wing. Around 200 children participated from all over India. Winners of the contest were awarded with special prize money.





Fig: Winners of Online Art Competition,World Environment Day 2020 in Bengal Safari

Celebration of Van Mahotsav, 2020:As per the notification of Govt. Of W.B., a weeklong green festival, “Van Mahotsav-2020” in the state was celebrated from 14th July-20th July, 2020. In this regard, Bengal Safari celebrated “Van Mahotsav-2020” on 16th July, 2020 by planting fruit bearing plant saplings in several areas of Park premises including planting of grass clips for creation of fodder grass plantation within the mixed herbivore safari area of Bengal Safari.

World Elephant Day, 2020 :On 12th August, 2020 the Bengal Safari celebrated the World Elephant Day in presence of Director of the park, Shri Dharmdeo Rai, IFS, along with the staff members of the park at the Elephant Pick up Point within the park premises. The elephants were fed by keepers with fruits and mixed feed. On this day an inhouse keepers talk was also organised which comprised experience sharing by Mahuts and an online Elephant Quiz Contest for all age groups was also held on same day, which witnessed 90 participants participating enthusiastically online.



Fig: Celebration of Elephant Day 2020 in Bengal Safari

Celebration of Independence Day: On August 15, 2020, Independence Day was celebrated at Bengal Safari with huge pomp and joy. The Director, Sri Dharmdeo Rai hoisted the tricolour flag at the flagpost of Bengal Safari. Patriotic songs were recited by staffs of Bengal Safari along with the enthusiastic Jai Hind slogans. To encourage the staff members towards better upkeep and management of zoo animals in the zoo, the Director, Sri Dharmdeo Rai started an appreciable initiative by honouring deserving zookeepers and field staffs through monetary reward and appreciation certificates. The event concluded with distribution of sweets amongst the staff of Bengal Safari.



Fig: Celebration of Independence Day 2020 in Bengal Safari

World Rhino Day: World Rhino Day is celebrated on September 22 every year. This special day provides the opportunity for cause-related organizations, NGOs, zoos, and members of the public to celebrate rhinos in their own unique ways. This year the venue for the celebration of World Rhino Day 2020 was Bengal Safari. The event was held at the seminar hall. The Hon'ble MIC, Deptt. of Forest Shri. Rajib Banerjee felicitated several forest department personnel for their exemplary services. The MIC also highlighted about the importance of coexistence of wildlife with humans, with a special emphasis on rhino conservation. The program concluded with the thanks giving speech by Shri. Rajendra Jakher; CCF, Wildlife North.



Fig: World Rhino Day 2020 celebration by forest dept, govt of WB

COVID-19 Precautionary measures Mock Drill: On 1st October 2020, the park under the supervision of Director, Shri Badal Debnath, organised a COVID19 safety awareness mock drill just before the scheduled opening of the park. The main objective to organise the drill was demonstration for the staffs for strict adherence to the COVID-19 protocols to be followed in the park on daily basis. Participants of the drill comprised media houses, staffs of Bengal Safari, local villagers as model visitors etc. Various safety measures such as wearing of masks, sanitization of hands, disinfection at footbaths, social distancing NORMS in safari vehicles, markings at seating benches, safari seats, ticket counters and directional markings at paths were followed. The drill was successfully concluded with an awareness message regarding safety of staff & visitors during COVID times.



Fig: COVID19 Safety awareness mock drill in Bengal Safari

Wildlife Week 2020 – 2nd to 8th October: North Bengal Wild Animal Park (Bengal Safari) siliguri celebrated “Wildlife Week” from 2nd to 8th October, 2020 in a befitting manner to generate environment conservation awareness and outreach. Wildlife Week commenced with the opening ceremony of Plantation Awareness Program. The saplings were planted by the Director of NBWAP, Sri Badal Debnath & staff of Bengal Safari along with the visitors at Bengal Safari premises on the first day. Bengal Safari had also organized an Online Poster Making competition from 2nd October to 8th October to generate wildlife conservation awareness amongst the children. Students from different districts and states enthusiastically participated in this competition. The winners were rewarded with attractive prize money. An open quiz contest for the visitors was also held where visitors actively participated & were rewarded with prizes.



Fig : Plantation program & “On foot quiz contest” for visitors

Wildlife Awareness Seminar on Human-Animal relationship and role of human in human-wildlife conflict mitigation at NBWAP: On the occasion of the Wildlife Week, Bengal Safari organized a Wildlife Awareness Seminar on Human-Animal relationship and role of human in human-wildlife conflict mitigation at NBWAP. The Director, Shri Badal Debnath, Assistant Director, Smt Anuradha Rai, R.O Mr Deepak Rasaily and Zoo Biologist Ms Namrata Ghosh gave their valuable insights on the aforesaid matter at the seminar.



Quiz Competition & Keepers Talk: During Wildlife Week a quiz competition was organized for the staff of Bengal Safari, at the Seminar Hall of the administrative building, on 5th October 2020. All the staff of Bengal Safari enthusiastically participated in the competition. Zookeepers shared their valuable experiences with us and they were rewarded with a certificate honouring their important role in this zoo.



Children's Day Celebration 2020: This year Children's Day on 14th November was celebrated through an online event. Bengal Safari organized an Online "Paper Origami making competition" for the children. Winners were rewarded with monetary rewards and certificates.



Fig: Participant's guardian receiving reward from Director for "Paper Origami making competition"

Seminar on General Upkeep & Management of Zookeepers: A seminar was held in the seminar hall of Bengal Safari on 19th December, 2020 at 11:00 a.m. The welcome note was delivered by Shri Badal Debnath, Director of NBWAP. All the zoo keepers and staff of the park were present in the seminar. Dr. Deepak Sharma, Assistant Director, ARD Kalimpong District was invited as Chief Guest and Speaker for the seminar. He delivered a talk on “General Upkeep & Management of Zookeepers”. He discussed very minutely different roles of zookeepers. Ms Namrata Ghosh, Zoobiologist, concluded the seminar with the thanks giving note to the speaker Dr Sharma & Director.



Fig: Dr Deepak Sharma delivering his lecture during the seminar

Inauguration of Visitors waiting hall & Canteen: The Visitors Waiting Area facility was inaugurated by Sri Goutam Deb, Honb’le Minister-In-Charge, Department of Tourism, Govt. of W.B. on 15.10.2020. It was constructed with a fund of Rs. 1449052.00 provided by the Dept of Tourism, West Bengal. As planned it will be equipped with suitable audio-visual devices to educate the visitors so that they understand animal behaviour in true sense and may contribute to the fullest extent possible in conservation of nature and natural resources.

In addition to the visitors' waiting hall, Shri Gautam Deb inaugurated a canteen for the visitors. The Canteen will be run by the Forest Protection Community (FPC) members by forming a co-operative among four partners. The Canteen was constructed with a fund of Rs. 20,47,335.00 provided by the Dept of Tourism, West Bengal. As planned it will be equipped with Pantry, Kitchen, Washbasins and Toilet.



Fig: Innaugration of the FPC Canteen & Visitors Waiting hall

Christmas Day Celebration, 25th December 2020:

Bengal Safari decided to celebrate and share the joy and happiness of Christmas not only among the humans but also with the wildlife and environment. As in today's time, the festival of Christmas has surpassed the religious boundaries and become a symbol of the holistic culture. On Christmas Day, the park distributed Santa caps and chocolates to the children visited the park.



Fig: Christmas day with little visitors

Celebration of 72nd Republic Day, 2021:

On 26th January, 2021, Director, Sri Shri. Badal Debnath hoisted the tricolour flag at the flagpost of Bengal Safari. Patriotic songs were recited by staffs of Bengal Safari. The event concluded with distribution of sweets amongst the staff of Bengal Safari.



Fig: Celebration of 72nd Republic Day at Bengal Safari

Foundation Day Celebration 2021: This year Bengal Safari celebrated its fifth foundation day on 21st January 2021. Series of events were organised for the celebration of this day such as marathon race, release of tiger cubs with their mother Sheela in the Tiger Safari by honourable forest officials for visitors; recreation, programme on rehabilitation of rescued lesser cats in zoo quarantine facility, prize felicitation ceremony of the winners of the wildlife day poster making contest, winners of quiz contest held at seminar hall of Bengal Safari amongst staffs, certificate were also awarded to the respective winners.



Fig: Celebration of 5th Foundation Day at Bengal Safari

World Wildlife Day Celebration 2021: Bengal Safari celebrated World Wildlife Day 2021 through Essay writing and Animal face mask making programs to raise awareness of the multitude of benefits of wildlife to people, the interlinkages between the various components of biodiversity, and the threats they are facing.



Fig: Celebration of World Wildlife Day at Bengal Safari

Celebration of World Forestry Day, 21st March 2021: This year Bengal Safari celebrated World Forestry Day with all the staffs, officials and the visitors of the park. On this day a plantation program was organised by the park where all the interested visitors actively participated. Some brochures were also distributed among the visitors for raising the awareness about significance of forests & wildlife.



Fig: Celebration of World Forestry Day 2021 at Bengal Safari

Internship Program: Mr Nabarka Chanda, a student of B.V.Sc studying in College of Veterinary Sciences, Nagpur had joined Bengal Safari in a four weeks internship program on 02.02.2021 under the supervision of Director & Veterinary Officer of the park. During his internship he effectively assisted the veterinary section in daily health management of the animals of the park and got enriched with the daily upkeep & care of zoo animals in a zoo.

DIGNITARY VISITS AT PARK DURING THIS YEAR



Fig: Visit of Shri Rajib Banerjee

MIC, Forest, Govt of WB



Fig: Visit of Shri Goutam Deb, MIC, WB tourism



Fig: Visit of Shri Firhad Hakim, MIC, WB

Urban Affairs



Fig: Visit of Bangladesh High Commissioner



Fig: Visit of Shri Gulam Rabbani, MIC, WB

Minority Affairs

MAJOR ACHIEVEMENTS OF PARK THIS YEAR

1. Birth of Bengal Tiger Cubs by Tigress Sheela and Successful rearing, treatment and management of cubs

The semi natural environment of the North Bengal Wild Animals Park has proved to be blissful on account of being an ideal habitat for breeding of big cats like Bengal Tigers not once but twice. Most significantly the low mortality rate of cubs along with their successful rearing within the tiger shelters under the expert medical care and animal supervision is notable. On 12th August 2020 morning tigress Sheela (aged 6 years) had given birth to threetiger cubs in between the time interval of 4:50 am and 7:17 a.m. Presently, the cubs are seven months old. All the three cubs are male & born with normal orange and black or brown striped fur. Their parents, are Viban (5 years) who was brought from Tata Steel Zoological Park, Jamshedpur and Sheela (6 years), brought from Zoological Park, Kolkata which was actually translocated from the Nandankanan Zoo, Odisha. On 11th May in the year 2018, Sheela for the first time had given birth to three tiger cubs. Out of the three cubs, presently two cubs - Kika, born with rare white and black striped fur and Rika, born with normal orange and black striped fur are surviving with good health in captivity at Bengal Safari. Present age of Rika and Kika is 3 years. The total count of tigers at Bengal Safari is now seven including the rare white Bengal tiger, thus thereby enriching the diversity of this majestic creatures in the country and also globally.

2. Successful surgical management of Ovario hysterectomy in Common Leopard

Since one and a half year (2020-2021), the female Common Leopard Kajal, aged 14 years was reported to be suffering from recurring pyometra. With the passage of time, her condition was observed to be deteriorating leaving surgical operation as the only alternative to prevent her mortality. After thorough clinical examination, the park sought approval from the PCCF, Wildlife & CWLW and Member Secretary, WBZA for the surgical operation of Ovarian hysterectomy. The surgery was successfully performed on 04th March, 2021 by an expert team of Veterinary Officers. Presently Kajal is observed regaining her normal health and her behavioural observations show significant improvements regarding movement, feeding regime, excretion etc.

3. Successful Handling, Management and rearing of Rescued Elephant Calf and rescued Common Leopard cubs, Birds, Himalayan Black Bear cub, Civets & Lesser cats etc.

Bengal Safari, besides being a caretaker of its present stock of captive animals, is successfully fulfilling its objective of establishment, i.e., wildlife conservation through successful treatment, rearing and management of the above mentioned species and later handing over of these animals to respective forest dept authorities and other zoos in good health.



Fig: Birth of three male Bengal Tiger Cubs by Sheela



Fig: Treatment of pyometra in Kajol, the Common Leopard

21. SEASONAL SPECIAL ARRANGEMENTS FOR UPKEEP OF ANIMALS

- Covering of aviaries of birds to protect them from sun and rain.
- Cooler, fans and blowers, coolers, blankets in night shelters of tiger and bear during summers and winters.
- Seasonal fruits in diets & plantation of fruiting plants within the bird and herbivore enclosures.
- Seasonal enrichments: Playful wooden log, hanging enrichments such as wooden ball, perching logs, grass patches in kraals, development of water pools in various animal & birds enclosure were carried out this year..

22. RESEARCH WORK CARRIED OUT AND PUBLICATIONS

The park is aspiring to work on the following project proposals for research work to be undertaken in zoo (if approved in the TCM, WBZA):-

1. Haematological and Biochemical values of Captive Asiatic Elephant.
2. Captive Breeding And Management Of Bengal Tiger (*Panthera tigris*) At North Bengal Wild Animals Park, Siliguri
3. Study on dung/scat analysis of herbivore animals to analyse presence of gut parasites

23. CONSERVATION BREEDING PROGRAMME OF THE ZOO

The Park is not involved in any Conservation breeding programmes yet but breeding has occurred in tiger, herbivores as well as pheasants.

24. ANIMAL ACQUISITION / TRANSFER / EXCHANGE DURING THE YEAR

Due to occurrence of COVID-19 pandemic, Animal Acquisition / Transfer / Exchange programmes could not be carried out during the Year 2020-2021. Animal Acquisition proposals regarding birds and other animal species have been sent to CZA, proposal under consideration presently.

However, on 8th October, 2020 in accordance with the approval received from CWLW & PCCF, Wildlife, a rescued female Asiatic Himalayan Black Bear calf brought from kumargram range, BTR Division, after treatment and in good health was translocated from North Bengal Wild Animals Park, Bengal Safari, to Padmaja Naidu Himalayan Zoological Park, Darjeeling for the betterment of the animal.

25. RESCUE AND REHABILITATION OF WILD ANIMALS CARRIED OUT BY THE ZOO

The following rescued animals and birds were brought at the park veterinary hospital for treatment as well as care during the financial year 2020-2021.

S.No.	Species	No. of Animal Acquired	No. of Animals Disposed	Acquired from & date	Disposed to
1	Common Leopard	1	1	05.06.2020 Bagdogra Range, Kurseong Division	Bagdogra Elephant Square Range
2	Monitor Lizard	1	1	12.06.2020 Salugara Range , Baikunthapur Division	Released in Wild
3	Red Eared Slider Turtle	1	1	12.06.2020 Bagdogra Range, Kurseong Division	Under Veterinary Care of Bengal Safari
4	Asiatic Elephant Calf	1	1	16.06.2020 Kurseong Division	Disposal to Gorumara Wildlife Division
5	Parakeets	238	238	Seized by Bardhaman Division 30.09.2020	Released in Wild
6	Hill Myna	12	12	Seized by Bardhaman Division	Released in Wild
7	Himalayan Griffon Vulture	1	1	15.09.2020 Dabgram Range, Baikunthapur Division	Under Veterinary Care of Bengal Safari
7	Hill Myna	24	24	Ukhra Range, Durgapur Division 04.12.2020	Released in wild

S.No.	Species	No. of Animal Acquired	No. of Animals Disposed	Acquired from & date	Disposed to
8	Common Leopard	1	1	09.01.2021 Bagdogra Range, Kurseong Division	Bagdogra Range, Kurseong Division
9.	Red naped Ibis	1	1	03.01.2021 Bagdogra Range, Kurseong Division	Released in wild
10.	Fishing Cat	1	1	19.01.2021 Bongaon SF Range	Released in wild
11.	Leopard Cat	1	1	17.01.2021 Gorumara Wildlife Division	Under Veterinary Care of Bengal Safari
12.	Leopard Cub	1	1	17.01.2021 Gorumara Wildlife Division	Died during treatment in quarantine facility, Bengal safai
13.	Hornbill	1	1	25.02.2021 Sarugarah range Baikunthapur Division	Under Veterinary Care of Bengal Safari



26. ANNUAL INVENTORY OF ANIMALS

ANNEXURE-I

Annual Inventory of Animals (2020-2021)

PART- A

Inventory Report for the Year: 2020-2021

*EndangeredSpecies

SI No	Animal name	Scientific Name	Opening stock as on 01.04.2020				Birth			Acquisition			Disposal			Death			Closing stock as on 31.03.2021			
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
1.	Peafowl	<i>Pavocristatus</i>	3	1	0	4	0	0	0	0	0	0	0	0	0	0	1	0	3	0	0	3
2.	Peafowl White	<i>Pavocristatus</i>	2	1	0	3	0	0	4	0	0	0	0	0	0	0	1	2	2	0	2	4
3.	Hill Myna	<i>Graciola religiosa</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
Total birds			6	3	0	9	0	0	4	0	0	0	0	0	0	0	2	2	6	1	2	9
Mammal			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
1.	Bear Himalayan Black	<i>Ursus thibetanus</i>	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4

1	Crocodile Long Snouted (Gharial)	<i>Gavialis gangeticus</i>	2	3	0	5	0	0	0	0	0	0	0	0	0	0	0	2	3	0	5	
2	Crocodile Marsh	<i>Crocodylus palustris</i>	2	3	0	5	0	0	0	0	0	0	0	0	0	0	1	0	2	2	0	4
3	Turtle Ganges Soft-shelled	<i>Nilssoniagangetica</i>	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
4	Turtle Indian Black	<i>Melanochelystryuga</i>	0	0	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50
Total reptiles/Amphibians			4	6	54	64	0	0	0	0	0	0	0	0	0	0	1	0	4	5	54	63
Invertebrate																						
Total invertebrate																						
Total animals			27	26	55	108	3	0	4	0	0	0	0	0	0	1	3	3	29	23	56	108

Animals under Sch- I and II of Wildlife (Protection) Act, 1972*

PART- B

Inventory Report for the Year: 2020-2021

Other than Endangered Species*

SI No	Animal name	Scientific Name	Opening stock as on 01.04.2020				Birth			Acquisition			Disposal			Death			Closing stock as on 31.03.2021			
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
1.	Cockatoo Medium Sulphur Crested	<i>Cacatua galeritaeleonara</i>	0	0	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7
2.	Cockatoo Mollucan/Salmon- crested	<i>Cacatua moluccensis</i>	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
3.	Cockatoo White	<i>Cacatua alba</i>	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
4.	Macaw Blue & Yellow	<i>Ara ararauna</i>	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5
5.	Macaw Scarlet	<i>Ara macao</i>	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
6.	Parakeet African Grey	<i>Psittacus erithacus</i>	0	0	11	11	0	0	0	0	0	0	0	0	0	0	1	0	0	0	10	10
7.	Pheasant Golden	<i>Chrysolophus pictus</i>	3	2	0	5	0	0	0	0	0	0	0	0	0	2	0	0	1	2	0	3

8.	Pheasant Silver	<i>Lophuranycthemera</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
9.	Pheasant Lady Amherst's	<i>Chrysolophusamherstiae</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
10.	Fowl Jungle Red	<i>Gallusgallus</i>	5	3	0	8	0	0	0	0	0	0	0	0	0	2	0	0	3	3	0	6
11.	Heron Pond	<i>Ardeolagraysii</i>	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
12.	Parakeet Rose Ring	<i>Psittaculakrameri</i>	0	0	40	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	40
13.	Stork Adjutant (lesser)	<i>Leptoptilosjanavanicus</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
Total Birds			16	8	64	88	0	0	0	0	0	0	0	0	0	4	0	1	12	8	63	83
Mammal			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
1.	Deer Barking	<i>Muntiacusmontjak</i>	10	6	11	27	0	0	0	0	0	0	0	0	0	0	0	0	10	6	11	27
2.	Deer Sambar	<i>Rusaunicolor</i>	9	13	10	32	0	0	1	0	0	0	0	0	0	1	0	0	8	13	11	32
3.	Deer Spotted	<i>Axisaxis</i>	138	231	58	427	0	0	45	0	0	0	0	0	0	3	1	0	135	230	103	468

4.	Pig wild-wild boar	<i>Sus scrofa</i>	0	2	5	7	0	0	0	0	0	0	0	0	0	0	0	1	0	2	4	6
Total mammals			157	252	84	493	0	0	46	0	0	0	0	0	0	4	1	1	153	251	129	533
Reptiles/amphibians																						
Total reptiles/Amphibians																						
Invertebrate																						
Total invertebrate																						
Total animals			173	260	146	581	0	0	46	0	0	0	0	0	0	8	1	2	165	259	192	616

Abstract of Annual (2019-2020) Inventory of Animals

Total No. Of Mammal Species: 14
 Total No. Of Bird Species: 16
 Total No. Of Reptile Species: 4
 Total No. Of Endangered Species: 16
 Total No. Of Endangered Mammal Species: 9
 Total No. Of Endangered Bird Species: 3
 Total No. Of Endangered Reptile Species: 4
 Total No. Of Acquisitions: 3
 Total No. Of Birth: 91
 Total No. Of Disposal: 2
 Total No. Of Death: 2

27. MORTALITY REPORT OF ANIMALS

Sl.No.	Common Name	Scientific Name	Sex	Date of Death	Reason of Death
1	Peafowl White	<i>Pavocristatus</i>	F	12.04.2020	Death due to egg bound.
2	Pheasant Golden	<i>Chrysolophus pictus</i>	M	29.04.2020	Death due to infighting.
3	Spotted Deer	<i>Axis axis</i>	M	06.05.2020	Death due to old age.
4	Peafowl White (chick)	<i>Pavocristatus</i>	U	15.05.2020	Death due to cardio respiratory failure.
5	Marsh Crocodile	<i>Crocodylus palustris</i>	F	21.05.2020	Death due to hepatopathy.
6	Spotted Deer (fawn)	<i>Axis axis</i>	M	25.05.2020	Death due to cardio respiratory failure.
7	Pheasant Golden	<i>Chrysolophus pictus</i>	M	01.06.2020	Death due to infighting..
8	African Grey Parakeet	<i>Psittacus erithacus</i>	U	28.07.2020	Death due to Pneumonia.
9	Spotted Deer	<i>Axis axis</i>	M	22.08.2020	Death due to old age.
10	Asian Palm Civet	<i>Paradoxurus hermaphrodites</i>	U	05.08.2020	Death due to infighting.
11	Peafowl White	<i>Pavocristatus</i>	U	04.09.2020	Death due to enteritis.
12	Red Jungle fowl	<i>Gallus gallus</i>	M	16.09.2020	Death due to Fowl Cholera.

13	Sambar Deer	<i>Rusa unicolor</i>	M	04.11.2020	Death due to old age.
14	Common Leopard	<i>Panthera pardus</i>	M	19.12.2020	Death due to cardio respiratory failure.
15	Peafowl	<i>Pavocristatus</i>	F	01.02.2021	Death due to Fowl Cholera.
16	Wild Boar	<i>Sus scrofa</i>	U	13.02.2021	Death due to Hemorrhagic Shock.
17	Red Jungle fowl	<i>Gallus gallus</i>	M	27.02.2021	Death due to multi organ failure (old age)
18	Spotted Deer	<i>Axis axis</i>	M	27.03.2021	Death due to Hemorrhagic Shock.

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 upto 19.08.2021)

Letter No. - 22-64/2004-CZA(461)(Vol-II)(E) dated: - 30.12.2020

Sr. No	Norm No. under RZR	Condition	Time Period to Comply	Since when pending	Remarks
					Status with regard to compliance of the conditions as submitted by the Officer-in-charge of the Zoo
1.General Requirements:					
1	10.1(1)& 10.3(3)	a) The mission of the zoo is for conservation breeding of endangered species specially Bengal Florican of the region, since this critically endangered species, is generally not available in captivity & it is a short-grass grassland species, creation of such grassland may be difficult in North Bengal Wild Animals Park, Salugara	Two years		Yet to be complied. Suitable habitat not yet developed.
2	10.1(7)	The leftover meat should be burnt, preferably incinerated			Left over meat is properly disposed off. Incinerator room constructed

2.Administrative & Staffing Pattern:					
3	10.2(2)	In place of present contract, permanent arrangement should be made regarding deployment of scientific and technical staff in the zoo.	One year		Presently deployed through Govt affiliated manpower agency
4. Animal housing, display of animals and animal enclosures:					
4	10.4(3)	The enclosure housing Gharial should be provided with sand bank of sufficient width on one side of the tank and the depth of the tank may be increase to 3 to 5 ft at least at one end			Complied. Sand bank of recommended width & depth constructed in Gharial enclosure.
5	10.4(9)	Plantation of suitable species should be done in the stand-off barrier without adversely affecting visibility	Six months		Complied

Sr. No	Norm No. under RZR	Condition	Time Period to Comply	Since when pending	Remarks
					Status with regard to compliance of the conditions as submitted by the Officer-in-charge of the Zoo
5.Upkeep and healthcare of animals:					
6	10.5(3)	Grain, pulses (in bags) stored in the store should be kept on wooden pallets	Six months		Complied
7	10.5(4)	In the Herbivore Safari, to offer feed concentrate to captive animals, shade should be provided	Immediately		Yet to be Complied
8	10.5(5)	In the Herbivore Safari, to offer feed concentrate to captive animals in hygienic manner in course of time, cement concrete structures suitably covered with ceramic tiles should be provided	As and when there is replacement of existing waterproof ply		Will be done as & when required
9	10.5(9)	Screening of staff working with captive animals should include screening against Brucellosis, Leptospirosis and Hepatitis- C	Six months		Complied
6.Veterinary and Infrastructure Facilities:					
10	10.6(1)	The North Bengal Wild Animals Park, Salugara is spread over 300	Three		Park has a pickup vehicle Mahindra

		hectare with animal enclosure housing mega-fauna such as Bengal Tiger, Leopard and Sloth Bear. To handle any medical emergency situation requiring immediate hospitalization of large animals, the zoo should be equipped with a vehicle such as light weight pick-up vehicles of 3-5 tons capacity	months		genio double cabin bs-iii) for supplying feed & emergency & transportation of animal. However procurement of recommended vehicle mentioned as per CZA compliance condition is in progress.
11	10.6(1)	All the external doors and windows of the hospital should have fly proof arrangements.	Six months		Complied
Sr. No	Norm No. under RZR	Condition	Time Period to Comply	Since when pending	Remarks
					Status with regard to compliance of the conditions as submitted by the Officer-in-charge of the Zoo
12	10.6(3)	The Veterinary Hospital in the zoo should also be equipped with double barrel and comparatively light weight immobilizing equipment.	One year		Presently veterinary hospital is equipped with tranquillization Gun; gas projector Model: 72-11/13mm & a proposal initiated to accord permission for procurement of recommended immobilizing equipment.
13	10.6(3)	The North Bengal Wild Animals Park, Salugara is a small zoo, but is handling mega-fauna like One-Horned Rhinoceros, Sloth Bear, Bengal Tiger and Leopard. Hence the zoo should also have immobilizing equipment for thick skinned animals like Rhinoceros.	One year		Proposal initiated to accord permission for procurement of recommended immobilizing equipment.
14	10.6(6)	Linkages should be developed with the North Bengal University and such other eminent institutions working in the field of wild animal	One year		Complied

		health care			
7.Post-mortem and disposal of carcass of animals:					
15	10.7(4)	Incineration facility should be activated at the earliest.	Immediately		Construction of incinerator room completed, purchase of incinerator under process
9. Acquisition and breeding of animals:					
16	10.9(4)	Unpaired animals to be paired at the earliest.	Six months		Animal exchange proposals to various zoos are being sent for pairing the unpaired animals
17	10.9(9)	Suitable protocol should be designed in consultation with expert under guidance of the WBZA for effective population control in prolifically breeding species.	Immediately		Proposal for translocation of Spotted Deer (25:35) to Buxa tiger reserve under augmentation programmed, which is recommended by the WBZA expert technical committee for approval from Governing Board, WBZA
Sr. No	Norm No. under RZR	Condition	Time Period to Comply	Since when pending	Remarks
					Status with regard to compliance of the conditions as submitted by the Officer-in-charge of the Zoo
18	10.11(1)	The Padmaja Naidu Himalayan Zoological Park, Darjeeling may be consulted for development of facility for conservation education.	Six months		Consultation with PNHZP, Darjeeling under process
Other Conditions:					
19		Depth of sink in the kitchen to be reduced and should be of the standard kitchen sink size.	Six months		Complied
20		The kitchen wall showed dampness. Therefore, all the walls should be fitted with tiles up to the height of the ceiling	Six months		Complied



29. LIST OF FREE LIVING WILD ANIMALS IN THE PARK

S.No	Common Name	Scientific Name
1.	Collared Falconet	<i>Microhieraxcaerulescens</i>
2.	Indian Hare	<i>Lepus nigricollis</i>
3.	Wild Boar	<i>Sus scrofa cristatus</i>
4.	Malayan Giant Squirrel	<i>Ratufa bicolour</i>
5.	Common three stripped Squirrel	<i>Funanbulus palmarum</i>
6.	Rose ringed Parakeet	<i>Psittaculakrameri</i>
7.	Spotted Owlet	<i>Athene brama</i>
8.	Little Cormorant	<i>Microcarboniger</i>
9.	Grey Mongoose	<i>Herpestesedwardsii</i>
10.	Coppersmith barbet	<i>Megalaimahaemacephala</i>
11.	Lineated Barbet	<i>Megalaima lineate</i>
12.	Little Egret	<i>Egretta garzetta</i>
13.	Indian Pond Heron	<i>Ardeolagrayii</i>
14.	Hill Myna	<i>Graciola religiosa</i>
15.	Red Vented Bulbul	<i>Pycnonotuscafer</i>
16.	Black Hooded Oriole	<i>Oriolusxanthornus</i>
17.	Black Drongo	<i>Dicrurusmacrocerus</i>
18.	Longtailed Minivet	<i>Pericrocotusflammeus</i>
19.	Red Jungle Fowl	<i>Gallus gallus</i>
20.	Indian Peafowl	<i>Pavocristatus</i>
21.	Oriental Pied Hornbill	<i>Anthracocerosalbirostris</i>

22.	Indian Grey Hornbill	<i>Ocyros birostris</i>
23.	Spotted Tree frog	<i>Polypedates maculates</i>
24.	Indian Rock Python	<i>Python molurus</i>
25.	Spectacled Cobra	<i>Najanaja</i>
26.	Banded Krait	<i>Bungarus fasciatus</i>
27.	Golden Flying Ornate snake	<i>Chrysopelea ornate</i>
28.	Copper head trinket snake	<i>Coelognathushelena</i>



11. GLIMPSES OF THE PARK ACTIVITIES THIS YEAR





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