

**NORTH BENGAL WILD ANIMALSPARK
BENGAL SAFARI**

**ANNUAL REPORT FOR THE YEAR
2019-2020**



**BENGAL
SAFARI**

**NORTH BENGAL WILD ANIMALS PARK
WEST BENGAL ZOO AUTHORITY**



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1. Report of the Officer- Incharge

In recent times, Zoos have evolved from being centres of entertainment into taking active and potential roles in the conservation of endangered species and habitats. Even the activities conducted in the zoos are diverse and heterogenous including conducting education programmes and research, financing and developing conservation projects of species, implementing captive breeding and reintroduction programmes etc. Thus role of zoos is not bound to biodiversity conservation only , zoos are nowadays playing a pivotal role in species conservation thereby imprinting a significant impact globally.

North Bengal Wild Animals Park (Bengal Safari) has gradually developed a significant threshold in conservation breeding programmes of endangered species specially Bengal Tigers. The park has been successful in implementing noteworthy efforts towards the birth and rearing of Bengal Tigers thereby raising the endangered tiger species count globally. Besides this, the park is involved in effective rearing of rescued animals and breeding of several other faunal species such as Spotted Deer, Peafowls and Common Leopards. In the beginning of the quarter of this year, a total of forty fawns were born. In the month of June, a total of four white peafowl chicks were hatched. In the month of June, two chicks of Golden Pheasant were hatched.

In this annual year, the park conducted several outreach, educational and nature awareness programmes on World Biodiversity Day, Wildlife week, International Tigers Day, World Elephant Day, World Rhino Day, World Forestry Day etc to raise awareness about the importance and threats faced by these threatened species along with the promotion of mass awareness programmes meant for enhancing their survival globally. The Park also conducted various outreach events on World Environment Day, National Energy Conservation Day, World Clean-up Day for raising concerns about the role of Environment and Renewable Energy in creating a sustainable world for our future generations. The park also celebrated its “5th” foundation Day this year. The park in association with the local village communities, in the vicinity of the park, conducted several outreach programmes aimed for their welfare involving children and women.

Keeping in mind the aspect of tiger conservation, the park has conducted a study on the identification of tiger pugmarks and scat. A digital library is being developed which would enable researchers and foresters to identify pugmarks and scats more accurately in the wild, thereby creating lesser confusion between indirect evidences of leopards and tigers. North Bengal Wild Animals Park (Bengal Safari) at present has a total tiger population of 1 male and 3 females, while 1 male has been transferred to Alipore Zoo as a CZA programme for breeding loan.

Bengal Safari, for the first time, conducted workshop on Stress Management and Personality Development. The workshop basically focussed on practical concepts related with the stress i.e., occurrence, symptoms, effects, precautions and treatment. In the beginning of October, the park witnessed successful release of two Bengal tiger cubs - Kika & Rika in tiger Safari in the presence of MIC, Dept of Forests & MIC, Dept of Tourism, W.B. On the eve of Christmas, the park introduced the newly trackless toy train for the visitors, handed out Christmas goodies, chocolates to kids, While the next day i.e., on 25th December, the park also unveiled height measurement wall in front of the ticket counter room for the visitors.

Seasonal Special Arrangements were also being incorporated for Upkeep Of Animals such as covering of aviaries of birds to protect them from sun and rain, cooler, fans and blowers in night shelters of tiger and bear during summers and winters, Seasonal fruits in diets, Seasonal enrichments.

The park undertook several important development and maintainance works Repairing of external boundary wall near Singhijhora on outer wall, repairing of Herbivore Enclosure near Singhijhora, Construction of Service road in Tiger enclosure, installation of 100 mm straight tube well upto 80 m with 2 Hp submersible pump near Leopard, Asiatic Black Bear, Tiger, Break point & Herbivore enclosure are few important works executed during the financial year.

Bengal Safari strives to enhance the capacity building of staffs and thus enabled staffs to attend various workshops such as "Training (refresher course) Capture of animals and Tranquilization" attended by staffs of several zoos , "International Seminar on Elephant Endotheliotropic Herpes Virus" attended by the Veterinary Officer of Bengal Safari, Middle Officials Training Programme" working in Indian Zoos attended by Range Officer, Bengal Safari.

NBWAP

- I. North Bengal Wild Animals Park, or as it is popularly known as Bengal Safari is situated in the foothills of the Himalayas in northern West Bengal. Cradled among Sal dominated forest and occupying an area of 297 hectares, the Park showcases endangered species endemic to the region as well as exotic species of animals. The Park, is situated in the outskirts of Siliguri, adjoining Mahananda Wildlife Sanctuary. The 297 hectares area of park was earlier part of the Baikunthapur Forest Division. Two streams called Singijhora and Shyamjhora enters the park from Mahananda Wildlife Sanctuary and crisscross the park. The mixed deciduous forest is dominated by Sal, Sidha, Jarul, Chilone, Chhatim, Shirish, Katus, Odal etc.

- II. **Design & Plan-** The park is designed as circles in a big circle where big circle is outer fence and inner circles are 4 safaris viz. tiger, leopard, bear & herbivore safari which one visits in a safari bus. Also, there are smaller cat, birds' enclosures, crocodile and gharial ponds but are viewed on foot.

2. History of the Zoo

West Bengal is a rich State in wild life. It has 6 national parks and 16 wild life sanctuaries. This state exhibits varieties of forest types. It has tropical – semi ever green to mangrove scrub, moist bamboo brakes to Terai and Sal forest. Varied habitats provide home and shelter to wild animal like elephant, tiger, leopard, sloth bear, gaur, sambar, barking deer, small cats, crocodile, gharial, jungle fowl and a number of terrestrial birds. Siliguri is situated in North Bengal and is gate way to North East India. This place is famous for wild life and varied habitat.

Bengal safari is situated 8 km from Siliguri and at present have tiger safari, mixed herbivore safari, Asiatic black bear safari, Leopard Safari, zoo and newly inaugurated Nature Interpretation Centre (which includes biodiversity room, ethnic display room, library etc.,) as well as break point watch tower. In the mixed herbivore safari one will enjoy different species of deer, wild boar and various different birds. In the tiger safari, one will be fortunate to see the Royal Bengal Tiger.

One may opt for the grand safari which includes tiger, bear, leopard as well as mixed herbivore safari. There is combo 1 safari also , which includes the tiger as well as the herbivore safari or the combo 2 safari, which includes the tiger, herbivore as well as the black bear safari or only the tiger safari. Bengal Safari also provides Elephant rides for visitors. The visitors can also visit the zoo which includes aviary i.e., various types of bird species, cats, gharials and crocodiles on foot. They can also visit newly inaugurated Nature Interpretation centre (NIC) where one can see the collection of different flora and fauna of North Bengal Wild Animals Park, ethnic display room, NIC- audio & visual room. During the safari, visitors can enjoy a scenic beauty of hills and plains from the break point watch tower cum cafeteria.

All the animal enclosures have been divided into 7 beats for proper management. The whole safari has been divided into 8 sections viz., animal, veterinary, sanitation & horticulture, security, commissary (store), construction & maintenance, education cum-research, and administration. Each section will be headed by a well qualified and professional incumbent who is in tune with the recommendation of expert committee on zoos.

A well equipped veterinary hospital with diagnosing and testing facilities, supported by adequate technical man power has been made. The veterinarian takes a daily round of the safari to observe the health, feeding and general hygienic condition of the animals.

The education cum-research wing enhances the knowledge and creates awareness among visitors through signage, published material, lectures and guided tours. It also conducts studies on behaviour, growth and nutrition requirement of animals. Efforts have been made to provide adequate facilities like cafeteria / kiosk, parking, toilets, shelters and drinking water points for the visitors for their smooth and rewarding visit.

In order to meet unforeseen incidents, a detailed disaster management plan and contingency plan have been incorporated. A plan to upgrade the skill of animal keepers and other staff, a capacity building plan has also been prepared. The park is maintaining daily stock upkeep through e-governance. It will help to maintain the record and data of animals and related issues for easy interaction with national and international experts and institutes.

The North Bengal Wild Animals Park (Bengal Safari), Siliguri will be one of the role model in terms of facilities, infrastructures and management practices. It showcases the rich biodiversity of North Bengal.

3. **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. **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**

A professionally run Park will serve a great variety of roles to benefit both the animals it displays and the visiting public. Breeding programmes can help propagate endangered species and continue gene pools for species whose habitats have been obliterated. Educational programmes can help foster the respect that wild animals deserve and familiarize the visitors with the important role these animals play in the ecosystem. Large scale habitat destruction has resulted in the extinction of many species. The park may have to serve as the last bastion for threatened and endangered species.

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

- The objective of the park shall be the 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

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	Fax Number	-
7	E-mail address	dirnbwap@gmail.com
8	Website	www.northbengalwildanimalspark.in
9	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)
10	Recognition Valid upto (Date)	19.08.2021
11	Category of zoo	Mini
12	Area (in Hectares)	297
13	Number of Visitors (Financial Year)	2,48,643
14	Visitors' Facilities Available in Zoo	<ul style="list-style-type: none"> • Cloak Room • Wheel Chair • Normal & Chilled certified drinking water • 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

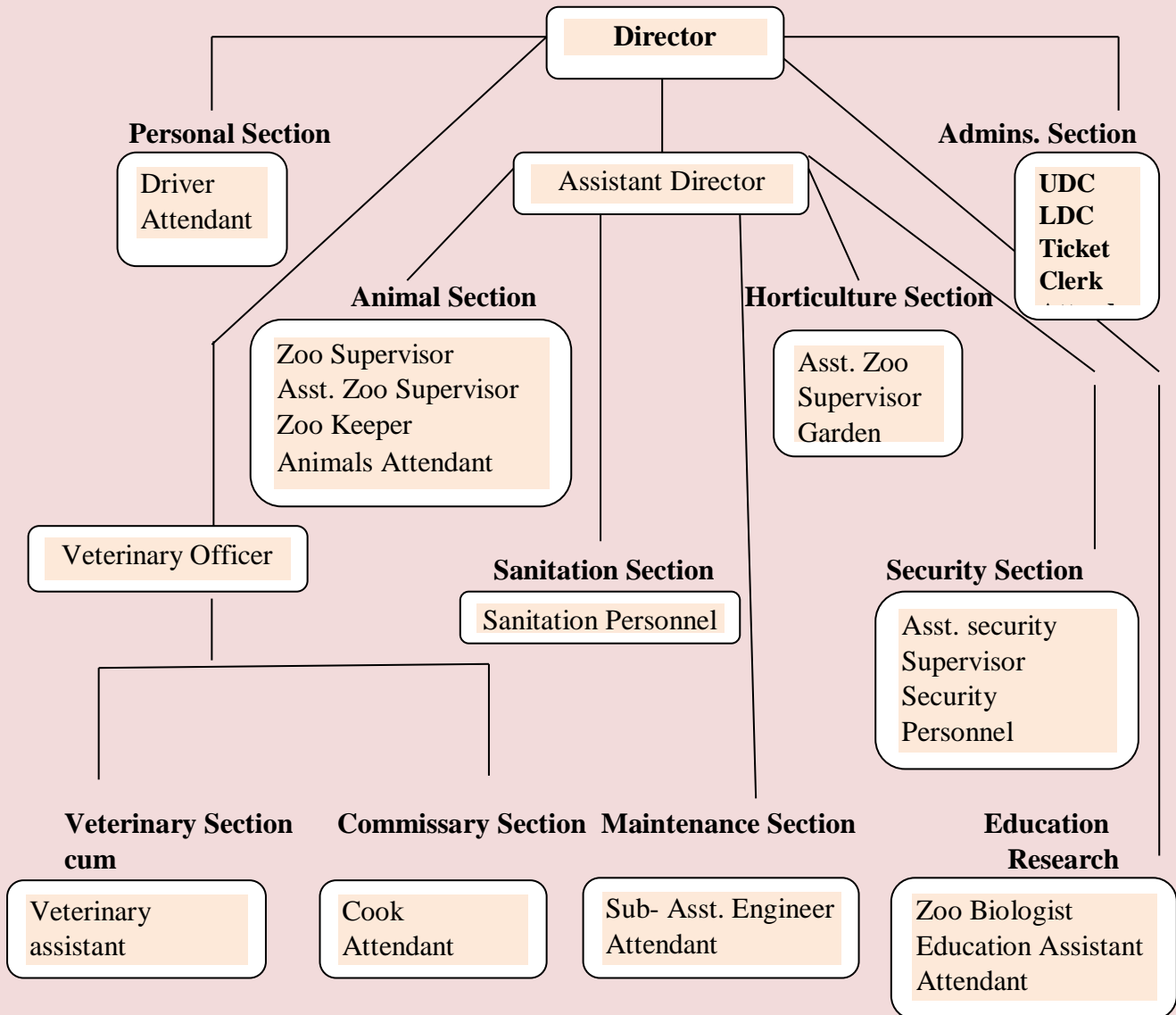
Management Personnel of the zoo

16	Name with designation of the Officer in-charge	Mr. Dharmdeo Rai, IFS
	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	-
	Name of the Compounder/ Lab Assistant	Mr. Biswajeet Sarkar (Veterinary Assistant)

Owner / Operator of the Zoo

17	Name of the Operator	Mr. V.K. Yadav, IFS
18	Address of the Operator	West Bengal Zoo Authority Aranya Bhawan, 7 th Floor, Block - LA-10A, Sector III Salt Lake City, Kolkata - 700106, West Bengal
19	Contact details/Phone number of Operator	+91 33 23355010
20	E-mail address of Operator	mwbza@gmail.com , wbzooauthority@yahoo.com

7. Organizational Chart



8. Human Resources

Manpower of the Zoo

Sl.No	Designation	Number of Sanctioned Posts	Existing Staff Strength	Names of the incumbent
1.	Director	1	1	Mr. Dharmdeo Rai , IFS
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	1	Mr.Tuhin Nag Biswas
9.	Zoo Biologist	1	0	Miss Namrata Ghosh
10.	Zoo Educator	-	-	-
11.	Sub Assistant Engineer (Civil)	1	0	-
12.	Sub Assistant Engineer (Elec.)	-	-	-
13.	Kitchen Supervisor (Dietician)	-	-	-
14.	Zoo Supervisor	1	1	Mr. Jagannath Ganguly (Retd RO)
15.	Garden Supervisor	-	-	-
16.	Sanitary Supervisor	-	-	-
17.	Research Assistant	1	0	-
18.	Education Assistant	1	0	-
19.	Library Assistant	-	-	-
20.	Taxidermist	-	-	-
21.	Laboratory Assistant	-	-	-
22.	Veterinary Assistant	1	1	Mr. Biswajeet Sarkar
23.	Asst. Zoo Supervisor	2	0	-
24.	Asst. Estate/ Security Supervisor	1	0	-
25.	Asst. Garden Supervisor	-	-	-
26.	Asst. Security Supervisor	1	1	Mr. Bir Bahadur Tamang
27.	Head Clerk	-	-	-
28.	Accountant	1	1	Ms. Swarnali Dutta Roy
29.	P.A.	-	-	-
30.	Store-keeper	1	0	-
31.	UDC /OA/TA	1	1	Mr. Pappu kr. Sah
32.	LDC	1	0	-
33.	Ticket Clerk	1	1	Ms. Manila Thapa
34.	Gate Keeper	1	0	-
35.	Zoo Keeper	10	-	-

36.	Mahut	-	2	Mr. Satar Narjinary (Mahut) Mr. Kamal Roy (Patawala) Mr. Jogesh Barman (Patawala) Mr. Parimal Barman(Mahut)
37.	Cook	1	-	-
38.	Driver	11	3	Mr. Kusang Tamang Mr. Manik Roy Mr. Utpal Debnath
Sl.No	Designation	Number of Sanctioned Posts	Existing Staff Strength	Names of the incumbent
39.	Support Staff (On Contract) :			
	a) Security	30	22	1. Mr. Anil Saibo 2. Mr. Karan Marandi 3. Mr. Rakesh Majhi 4. Mr. Sudesh Barik 5. Mr. Krishna Thapa 6. Mr. Raj Thapa 7. Mr. Ashik Khawas 8. Mr. Manish Gajmer 9. Mr. Rajesh Lal Saibo 10. Mr. Kalyan Sharma 11. Mr. Chandra Kr. Chetri 12. Mr. Biswajit Karjee 13. Mr. Ranjit Saibo 14. Mr. Ajit Kr. Bhujel 15. Mr. Bikram Malpahary 16. Mr. Hemant Pradhan 17. Mr. Aminur Rahman 18. Mr. Himu Barman
				19. Mrs. Tripti Sarkar, Lady-Guard 20. Ms. Shila Saibo, Lady-Guard

				21. Mrs. Dina Lama, Lady-Guard
	b) Sanitation Attendant	6		
			4	1. Mr. Sanjib Hela 2. Mr. Sukul Hela 3. Mr. Suraj Paswan 4. Mr. Manish Lal Saibo
	c) Garden Attendant	6	6	1. Mr. Indra Bdr Thapa 2. Mr. Krishna Adhikary 3. Mr. Dhanesh Roy 4. Mr. Joyjit Barman 5. Mr. Kalyan Barman 6. Mr. Subal Pradhan
	d) Attendant	7	5	1. Mr. Asit Narjinary 2. Mr. Raju Saibo 3. Mr. Rinku Roy 4. Mr. Binod Rai (Ex-Serviceman) 5. Mr. Subas Thapa Chhetri
	e) Animal Attendant	15	8	1. Mr. Kumar Chhetri 2. Mr. Unish Saibo 3. Mr. Avinash Chhetri 4. Mr. Hem Kr. Mahapatra 5. Mr. Ajit Roy 6. Mr. Gopal Biswakarma 7. Mr. Subal Pradhan 8. Mr. Rahin Saiboo

9. Capacity Building Of Zoo Personnel

Sl.No.	Name and designation of the zoo personnel	Subject matter of Training	Period of Training	Name of the Institution where the Training attended
1	Deepak Rasaily, F.R. Range Officer Biswajeet Sarkar, V.A Binod Rai, Security Avinash Chettri Raj Thapa Kalyan Barman Rakesh Karjee Hem Kr. Mahapatra Subhash Thapa Chhetri	Training (refresher course) Capture of animals and Tranquilization	22.02.2020 & 23.02.2020	North Bengal Wild Animals Park (Bengal Safari), Salugara
2	Dr. Nick Doley, V.O	International Seminar on Elephant Endotheliotropic Herpes Virus	28.11.2019 To 30.11.2019	Assam Agricultural University, Guwahati
Sl.No.	Name and designation of the zoo personnel	Subject matter of Training	Period of Training	Name of the Institution where the Training attended
3	Deepak Rasaily, F.R. Range Officer	“Middle Officials Training Programme” working in Indian Zoos	16.07.2019 & 18.07.2019	Nandan Kanan Zoological Park, Bhuwaneshwar, Odisha



Fig: Training (refresher course) on chemical restraint of wild animals at North Bengal Wild Animals Park (Bengal Safari)



Fig: Middle Officials Training Programme, Central Zoo Authority, New Delhi



Fig: Dr Nick Doley, Veterinary Officer, NBWAP, attending the Intl Seminar on EEHV

10. Zoo Advisory Committee –

a. Date of Constitution

The Governing Body of the Authority (**Govt. Notification No. 10036-for/11M-27/2002, dt. 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, Raigunj Panchayet Samiti, Uttardinajpur	Member
Shri Sankar Dhar, People's for Animals, Alipurduar	Member
Sk. Johar Ali, President , All Backward Class Relief & Development Mission	Member
Smt. Debolina Biswas, Councilor, Kolkata Minicipal Corporation, Ward No. 74	Member

c. Dates on which Meetings held during the year:

16th GB Meeting: 30-05-2019

11. Health Advisory Committee–

a. Date of Constitution

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

b. Members

Dr. Basudev Maity, 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 (Vety), (Disease Investigation), IAH&VB.	Member
Dr. Proloy Mandal, Asst. Director, ARD (vety), IAH&VB	Member

12. Statement Of Income And Expenditure Of The Zoo

Sl. No.	Year (2018-19)	Source of fund	Expenditure in Rupees	
1.	As grant in aids under Plan	West Bengal Forest Deptt.	1.14 Cr	
		West Bengal Tourism Deptt.		
		North Bengal Development Deptt.		
2.	As grants under Non-plan	Zoo Authority of West Bengal	4.76 Cr	
	Total Expenditure (*Unaudited Figure)		5.90Cr	
3.			Receipt in Rupees	
			a) Ticket Revenue (including Vehicle parking)	3,56,06,245
			b) Animal Adoption	1,00,000
			c) Friends of Zoo	5,000
			d) Fee from rental store & souvenir shop	8,87,216
	Total Revenue (*Unaudited Figure)		36,598,461	

13. Daily Feeding Schedule Of Animals

No.	Animals	No. of Individuals	Items	QUANTITY (Approx)	DRY WT (WET WEIGHT)	Time
1	Sambar	27	Grams Wheat Bran Crushed maize Masoor Dal Motor 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	356				
3	Barking Deer	27				
4	Swamp Deer	06				
4	Hog Deer	04				
5	Wild Boar	07				
6	Indian Rhino	01	Corn Green fodder Carrot	90 Pcs 80 KG 2 KG	172KG	Morning (10am) Evening(4pm)
7	Bengal Tiger	Female	Beef w/b	10.5KG	38.5KG	Evening (6pm)
		Male	Beef w/b With Vitamin A, Calcium	10KG		
		Cub 1 Cub 2	Beef w/b Beef Soup w/b	9KG 9KG		
8	Leopard	Male 1 Male 2	Beef W/B	3KG	15.0KG	Evening (6pm)
		Female 1 Female 2	Beef W/B	3KG		

		Cub	Beef W/B	3KG		
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	1KG 1KG 1KG 8Pcs 2 LITRE 600G 1.2KG 1.84KG 3.46KG 4.32KG	28.42KG	Morning (7am-9am) Afternoon (4pm-5pm)

			Soup Beef W/B Honey Orange Pomegranate	4LITRE 4KG As required 2KG 2KG		
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	06	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	03	Fish	9KG	9KG	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 Scepticaemia, 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, Pyrental embonate, Febantel	6 months interval
10	Palm Civet	Fenbendazole, Albendazole, Oxfendazole, Pyrental embonate, Febantel	6 months interval
11	Asiatic Elephant	Fenbendazole, Albendazole, Oxfendazole	6 months interval
12	Peafowl	Fenbendazole, Albendazole, Oxfendazole, Piperazine, Pyrental embonate, Febantel	6 months interval
13	Indigenous Birds	Fenbendazole, Albendazole, Oxfendazole, Piperazine, Pyrental embonate, 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, Potassium permanganate, burning, spraying, fumigation,	Twice a month
2	Leopard	Night Shelter	Kohrsolin, Potassium permanganate, burning, spraying, fumigation,	Twice a month
3	Asiatic Black Bear	Night Shelter	Kohrsolin, Potassium permanganate, burning, spraying, fumigation,	Twice a month
4	Barking Deer	Safari area	Kohrsolin, Potassium permanganate, burning, spraying, fumigation,	Twice a month
5	Spotted Deer	Safari area	Kohrsolin, Potassium permanganate,	Twice a month
6	Sambar	Safari area	Kohrsolin, Potassium permanganate, burning, spraying, fumigation,	Twice a month
7	Hog Deer	Safari area	Kohrsolin, Potassium permanganate, burning, spraying, fumigation,	Twice a month
8	Indian One Horned Rhinoceros	Safari area	Kohrsolin, Potassium permanganate,	Twice a month
9	Exotic Birds	Aviary	Kohrsolin, Potassium permanganate, spraying, fumigation,	Twice a month
10	Palm Civet	Night Shelter	Kohrsolin, Potassium permanganate, spraying, fumigation,	Twice a month
11	Asiatic Elephant	Night Shelter	Kohrsolin, Potassium permanganate, burning, spraying, fumigation,	Twice a month
12	Peafowl	Aviary	Kohrsolin, Potassium permanganate, spraying, fumigation,	Twice a month
13	Indigenous Birds	Aviary	Kohrsolin, Potassium permanganate, spraying,	Twice a month

			fumigation,	
14	Jungle Cat	Night Shelter	Kohrsolin, Potassium permanganate, burning, spraying, fumigation,	Twice a month
15	Fishing Cat	Night Shelter	Kohrsolin, Potassium permanganate, burning, spraying, fumigation,	Twice a month
16	-	Zoo Pathways, Entry gate foot dips, Goods carriage vehicle,	Kohrsolin, Potassium permanganate,	Daily

17. Health Check-Up Of Employees For Zoonotic Diseases

Sl.No.	Name	Designation	Date of Health Check up	Findings of Health Check up
1	Rakesh Karjee	Animal Attendant	06.09.2019	Nil for Zoonotic diseases
2	Hem Kumar Mahapatra	Animal Attendant	06.09.2019	Nil for Zoonotic diseases
3	Avinash Chettri	Animal Attendant	06.09.2019	Nil for Zoonotic diseases
4	Krishna Adhikari	Animal Attendant	06.09.2019	Nil for Zoonotic diseases
5	Aditya Tamang	Zoo Keeper	06.09.2019	Nil for Zoonotic diseases
6	Karan Mardi	Zoo Keeper	06.09.2019	Nil for Zoonotic diseases
7	Unish Lal Saibo	Animal Attendant	06.09.2019	Nil for Zoonotic diseases
8	Kumar Chettri	Animal Attendant	06.09.2019	Nil for Zoonotic diseases
9	Subol Pradhan	Animal Attendant	06.09.2019	Nil for Zoonotic diseases

Sl.No.	Name	Designation	Date of Health Check up	Findings of Health Check up
10	Parimal Barman	Animal Attendant	06.09.2019	Nil for Zoonotic diseases
11	Jogesh Barman	Animal Attendant	06.09.2019	Nil for Zoonotic diseases
12	Kamal Roy	Animal Attendant	06.09.2019	Nil for Zoonotic diseases
13	Kalyan Barman	Animal Attendant	06.09.2019	Nil for Zoonotic diseases
14	Pankaj Barman	Animal Attendant	06.09.2019	Nil for Zoonotic diseases
15	Manish Gazmer	Animal Attendant	06.09.2019	Nil for Zoonotic diseases
16	Bidhan Mahapatra	Animal Attendant	06.09.2019	Nil for Zoonotic diseases
17	Joyjit Barman	Animal Attendant	06.09.2019	Nil for Zoonotic diseases
18	Rafiqul Islam	Animal Attendant	06.09.2019	Nil for Zoonotic diseases
19	Dhanesh Roy	Animal Attendant	06.09.2019	Nil for Zoonotic diseases

18. Development Works Carried Out In The Zoo During The Year:



Fig:Glimpses of LC- Lesser Cat Enclosures Enrichment



Fig: LC- Lesser Cat Enclosures Enrichment



Fig: Visitors waiting room at pickup point



Fig: Replacement of SS Net with GI chain link at AV-3



Fig: Pick up point culvert railing



Fig: Modification at visitors seating area



Fig: Modification of the Aviary visitors pathway



Fig: Repairing of Tree Tower



Fig: Repairing of Wooden Bridge

BUILDINGS

1. Establishment of Canteen at Parking Area
2. Incinerator House

VISITOR AMENITIES



Fig: Toytrain Ride



Fig: Vertical Wall Height measuring Stand

Others

1. Repairing of external boundary wall near Singhijhora on outer wall.
2. Repairing of Herbivore Enclosure near Singhijhora.
3. Construction of Service road in Tiger enclosure.
4. Installation of 100 mm straight tube well upto 80 m with 2 Hp submersible pump near Leopard, Asiatic Black Bear, Tiger, Break point & Herbivore enclosure.

19. Education And Awareness Programmes During The Year

NATURE EDUCATION AND AWARENESS PROGRAMMES			
Sl.No.	Date	Occasion	Event
1.	May-June 2019	Open Painting Event” for the wildlife enthusiast and nature admirers	T-shirt painting cum awareness programme.
2.	05.06.2019	World Environment Day	Celebration of World Environment Day by planting saplings around the Park premises
3.	14.07.19-20 .07.2019	Van Mahotsav	Students planted around 30 saplings of various ornamental trees and fruit trees.
4.	15.08.2019	Independence Day	Flag hoisting among park staff and visitors as well as plantation.

Sl. No	Date	Occasion	Event
5.	12.08.2019	World Elephant Day	Seminar organised with Siliguri College students & Media persons to raise awareness about conservation of elephants. Celebration with two elephants and mahout as well.
6.	29.07.2019	International Tiger Day	Quiz competition cum awareness programme along with distribution of tiger brochures to the visitors.
7.	21.09.2019	World Clean up Day	Celebrated the world cleanup day in park premises with 26 students and 3 teaching staff of Kholachand Fapri Primary School
8.	22.09.2019	World Rhino Day	Awareness campaign on conservation and importance of Rhino with students of Toribari Primary School
9.	23.09.2019	Workshop on Stress Management and Personality Development	Conducted by Counselor and Therapist Mrs. Jyoti Tripathi. The workshop was attended by around 60 staffs including Director, Assistant Director, Range Officer as well as field Staff.
10.	14.11.2019	Children's Day	Celebrated with the two missionary schools viz. Jeshu Niketan, Matigara and Ray of Hope, Naxalbari. Bengal Safari organized "Sit and Draw Event
11.	25.12.2019	Christmas Day Celebration	Distribution of Christmas goodies to kids. Height measurement wall stand for visitors.
12.	26.01.2020	Republic Day Celebration	Flag Hoisting & Sweets Distribution to all the staffs

SCHOOL AND INSTITUTION VISITS DURING THE YEAR 2019-20

Sl. No.	Date	Name Of Institution	No Of Teachers	No Of Students
1.	03/04/2019	Govt. Sec. School Melli Bazar	04	31
2.	30/04/2019	Muraliganj High School (H.S.)	04	124
3.	30/04/2019	Adarsh Vidyalaya Hindi High School (H.S.)	14	99

Sl. No	Date	Name Of Institution	No of teachers	No of Students
4.	12/05/2019	St. Angel Tech High School	03	09
5.	12/05/2019	Holy Cross High School	04	20
6.	12/05/2019	NIT	20	100
7.	12/05/2019	National Integration Team (Sevoke Military Stn)	19	82
8.	17/05/2019	Mount Carmel School, Kalimpong	10	44
9.	29/05/2019	Shri Ram Centennial School, Siliguri	15	45
10.	07/06/2019	KV, CRPF Campus, Siliguri	02	40
11.	18/06/2019	Netaji Girls' High School, Siliguri	02	24
12.	20/06/2019	Khoribari High School (H.S)	02	120
13.	28/06/2019	Bagdogra Balika Vidyalaya	12	104
14.	28/06/2019	Saraswati Vidya Niketan	15	30
15.	03/07/2019	Endeavour Global School	16	25
16.	05/07/2019	Phansidewa Govt. Sponsored A.T High School for Girls (H.S)	11	105
17.	18/07/2019	Nyimarangshar Association	14	88
18.	17/09/2019	Nardevjote Jr. High School	04	20
19.	20/09/2019	New St. John' High School, Koraibari	03	32
20.	25/09/2019	Sakhawat Memorial Govt. Girls' High School	18	78
21.	27/09/2019	Kalimpong College, Kalimpong	01	08
22.	26/10/2019	Sherab Odsal Raldeling Academy, Sikkim	9	60
23.	07/11/2019	S.K.P. Vidya Niketan	1	46
24.	15/11/2019	I.N.A Memorial School	5	17

Sl. No	Date	Name Of Institution	No of teachers	No of Students
24.	10/11/2019	Jisu Niketan School, Matigara	10	27
25.	14/11/2019	Kumudinin Homes School, Kalimpong	6	33
26.	14/11/2019	Children's Home English School	11	80
27.	28/11/2019	St. Joseph's Girls' H.S. School, Kurseong	5	88
28.	28/11/2019	Dhajia H.S. School, Darjeeling	7	33
31.	03/12/2019	G.S.S.E	28	76
32.	10/12/2019	Army Pre Primary School, APPS, Sevoke	18	189
33.	11/12/2019	Hatiadanga High School	5	31
34.	24/01/2020	Islampur High School	5	58
35.	28/01/2020	Dhantola High School	2	60
36.	30/01/2020	Kaliganj High School	2	40
37.	07/02/2020	Shyama Prasad Smriti Vidyalaya,Raniganj	10	38
38.	13/02/2020	Shyam Mohan jote High School	9	50
39.	12/02/20	Kabi Sukanto High School	11	120
40.	14/02/2020	Bright Scholars	2	50
41.	15/02/2020	Kanki Sri Jain Vidyamandir	2	50
42.	28/02/2020	Urpi Jr High School	5	21
43.	28/02/2020	Haripur Jr High School	4	28
44.	28/02/2020	Balubadh Balika Vidyalaya	2	18
45.	28/02/2020	Dhairjya Narayan High School, Darjeeling	3	75
46.	06/03/2020	Ananda Chandra College,Jalpaiguri	15	51
Total Visiting Teachers cum Students			348	2313

20. Important Events And Happenings

Bengal Safari welcomes New Director Shri Dharmadeo Rai, IFS

In the first quarter of the year, Bengal Safari welcomes new Director of the park Shri. Dharamdeo Rai, IFS, the charge was handed over by Shri. Rajendra Jakhar, IFS (Director of the PNHZP). Shri Dharmdeo Rai (IFS) took over the charge as Director of North Bengal Wild Animals Park, Siliguri on 22nd April, 2019.



Fig: Shri Dharmadeo Rai, IFS, Director, NBWAP

Medical Health Check up Camp

On the very beginning of this quarter i.e., 1st April, 2019, the park organised free medical health check up camp for the staff members in the seminar hall of the administration building. Camp was organized in association with Medica North Bengal Clinic, Siliguri. The 4 team members of Hospital including one Physician, Dr. Debanjan Dhar, and three other supporting staff conducted the camp. Free physical examination along with Blood Sugar, Blood Pressure tests were provided by the Hospital. Total of 41 staff members viz., Assistant Director, Range Officer, Zoo Supervisor, Two Asst. Zoo Supervisors, Six Animal Attendants, Four Drivers, Five Office Staff, Twenty-One Field Staff attended the Health Check up Camp. During the camp, doctors also advised them for the various medicines and consultation during the camp.



Fig: Staff members of NBWAP during Free Medical Health Check up Camp at Seminar Hall

World Environment Day Celebration

World Environment Day (WED), a flagship campaign of United Nations is celebrated on every 5th of June, of the year . In this regard, Bengal Safari being working close to wildlife and nature celebrated World Environment Day by planting saplings around the Park premises. This year, the park decided to celebrate among the visitors and staff members for the specific day. The total of more than 35 plant saplings of different varieties were planted.



Fig: Visitors and Staff Members planting saplings during the World Environment Day Celebration.

Visit of Member Secretary of Central Zoo Authority

On 24th April, 2019, Dr. Anup Kumar Nayak, IFS, Member Secretary, CZA, had visited the park and also took a round within Safari and animal shelter with the Director of the Park Shri. Dharmdeo Rai, IFS. During his visit, he has discussed about the management of the animals, as well as shared his rich experience and valuable suggestions with the Veterinary Officer, Zoo Biologist, Education Assistant and Animal Supervisor.



Fig:Shri Anup Nayak with Director, Bengal Safari

Visit of Veteran Actor and wildlife enthusiast

On 15th May, 2019, a veteran actor of Indian cinema as well as a wildlife enthusiast, Shri Sabyasachi Chakraborty, along with his family had visited the park.



Fig:Shri Sabyasachi Chakraborty with staff of Bengal Safari

Visit of Principal Chief Conservator of Forests (PCCF) & HOFF, Govt. Of West Bengal and other Forest Officials

On 17th May, 2019, the Principal Chief Conservator of Forests (PCCF) & HOFF, Govt. Of West Bengal, along with other Forest Officials had visited the park. During their visit, they took a round within the animal night shelter as well as safari area with the Director of the Park Shri. Dharmdeo Rai, IFS.

Visit of Officials from Deptt. Of Forest, Govt. Of West Bengal

On 26th May, 2019, Shri P.Tantri, Joint Secretary, Deptt. Of Forest and Shri S. Banerjee, PA, Deptt. Of Forest visited the Safari park and he also expressed positive thoughts on the maintenance and functioning of the park.

Visit of Hon'ble MIC, and other Officials, Dept. Of Tourism, Govt. Of W.B

On 17th June, 2019, Shri Gautam Deb, MIC, Dept. Of Tourism, Govt. Of W.B. as well as other officials had visited the park in the early hour of the day. During the visit, he met the Director of the Park Shri. Dharmdeo Rai, IFS, as well as other staff and took a round within the animal night shelter as well as safari area to look after its maintenance and functioning.

Medical Health Check up Camp

On the third month of this quarter i.e., 06th September, 2019, the park has organised free medical health check up camp for the zookeepers in the seminar hall of the administration building. Camp was organized in association with Vedanta, Siliguri. comprising 6 team members - Dr. P.D. Bhutia and six other medical supporting staff. The health check up camp conducted physical examination of the zookeepers and pre-bite vaccination against the rabies was also provided by the Hospital.



Fig:Medical Health Checkup Camp by Vedanta at Bengal Safari

Celebration of Van Mahotsav, 2019

Van Mahotsav-2019” in the state was celebrated from 14th July-20th July, 2019. In this regard, Bengal Safari celebrates “Van Mahotsav-2019” on 16th July, 2019 within the park premises by planting saplings. For the celebration. The park invited two government primary schools namely Buddhimaya Primary School, Bikashnagar, Salugara, from which 22 Students and 5 Staff attended whereas from Toribari Primary School, Toribari, Salugara, 19 Students and 4 Staff were present. The programme comprised of distribution and planting of saplings among the students and school staff.



Fig:Celebration of Vanmahotsav with students at Bengal Safari

World Elephant Day, 2019

In this regard, on 12th August, 2019 the Bengal Safari celebrated the World Elephant Day in presence of Director of the park, Shri Dharmdeo Rai, IFS, along with the invited 22 Siliguri College students along with 1 Professor, the forest officials of the 7th Mile Wildlife-I, media persons from the various media and print houses, and the staff members of the park in its own Elephant Pick up Point and Seminar Hall of the Administrative building within the park premises. The elephants were fed by keepers with fruits and mixed feed, a seminar cum extempore was also conducted, chaired by the Director of the park, Shri Dharmdeo Rai, IFS.



Fig: Welcome Note by Sri Dharmdeo Rai, Director, NBWAP and Celebration of Elephant Day with students of Siliguri College

World Clean Up Day

World Cleanup Day is celebrated with litter cleanup and waste disposal activities around the world. It is a global social action program aimed at fighting the global solid waste problem, including the problem of marine debris. The inaugural world clean up day was organized on 15th September, 2018 which builds on the successes of previous global cleanup efforts.

On 21st September, 2019, the park has celebrated the world cleanup day on its own premises with 26 students and 3 teaching staff of Kholachand Fapri Primary School. Students were taken on a field trip for the observation of plastic free park premises. Later a field trip, Safari ride packet lunch and snacks was given to them.



Fig: World Cleanup day celebration with Students of Kholachand Fapri Primary School

World Rhino Day

The World Rhino Day is celebrated every year on 22nd September to celebrate the world's five rhinoceros species. Hence, on the occasion of World Rhino Day, Bengal Safari being a home for single one horned rhino took up initiative to celebrate the day along with the nearby primary school students of Toribari Primary School. Around 19 students and 1 teacher attended the awareness programme which comprised description of habit, habitat, and biological as well as evolutionary aspects. Later, the students were also taken to the Rhino Enclosure for the better experience in the field.



Fig: World Rhino Day celebration with Toribari Primary School

Workshop on Stress Management and Personality Development

On 23rd September, Bengal Safari has organised a one day Workshop on Stress Management and Personality Development, which was conducted by Counselor and Therapist Mrs. Jyoti Tripathi. The workshop was attended by around 60 staffs including Director, Assistant Director, Range Officer as well as field Staff. The workshop basically focussed of practical concepts related with the stress i.e., occurrence, symptoms, effects, precautions and treatment. The workshop was successfully conducted and concluded by the thanks of vote speech by the Director of the NBWAP, Shri Dharmdeo Rai, IFS.



Fig:Workshop on Stress Management conducted at Bengal Safari

Farewell of Assistant Director, Shri Asim Kr. Chaki, WBFS

On 26th September, the Park administration has organised a farewell program for the Assistant Director of the Park, Shri Asim Kr. Chaki, WBFS. The program was chaired by Director of the park, Shri Dharmdeo Rai, IFS, which was attended by all the staff of the park. During the program, Director as well as the staff of the park wished him a good health and prosperous life.



Fig: Farewell program of Shri Asim Kr. Chaki

Visit of Health Advisory Committee

On 16th July, 2019, the members of Health Advisory Committee, Kolkata had visited the veterinary hospital as well as all the animal enclosures of the park. They were received by Dr. Nick Doley, Veterinary Officer, NBWAP and Shri Biswajeet Sarkar, Veterinary Assistant, NBWAP. They had suggested for better management and upkeep of the veterinary hospital and animals of the park.

Following are the names of the members of the Health Advisory Committee those visited the park:

- 1) Dr. Pralay Mandal, Assistant Director, ARD, IAH & VB, Kolkata.
- 2) Dr. Joyjit Mitra, Specialist, Sero-Epidemiology, ARD, IAH & VB, Kolkata.



Fig: Members of the Health Advisory Committee welcomed by Bengal Safari

Release of two female tiger cubs of Bengal Safari

The two female tiger cubs of Bengal Safari viz., Kika and Rika was born on 11th May 2018 from Snehashish and Sheela. On 1st October, 2019, i.e., after 1 year 4 months since they were born, these two female tiger cubs were released into the safari in presence of Shri Bratya Basu, Hon'ble MIC, Deptt. of Forest, Govt. of West Bengal, Shri Gautam Deb, Hon'ble MIC, Deptt. of Tourism, Govt. of West Bengal, Shri V.K. Yadav (IFS), Member Secretary, West Bengal Zoo Authority and various forest officials.



Fig:Release of Kika & Rika in tiger Safari in the presence of MIC, Dept of Forests & MIC, Dept of Tourism, W.B.

Children's Day Celebration

This year Children's Day on 14th November was celebrated by the Bengal Safari with the two missionary schools viz. Jeshu Niketan, Matigara and Ray of Hope, Naxalbari. The Bengal Safari organized "Sit and Draw Event" for the celebration of Children's Day. Around 60 students were present with their school staff respectively.



Fig: Children participating in the Sit & Draw Event on Children's Day

Toy Train Inauguration

On 16th December, the newly added eco- friendly toy train of Bengal Safari was inaugurated by Shri Rajib Banerjee, Hon'ble MIC, Deptt. of Forest, Govt. of West Bengal and Shri Gautam Deb, Hon'ble MIC, Deptt. of Tourism, Govt. of West Bengal, Shri V.K. Yadav (IFS), Member Secretary, West Bengal Zoo Authority and various forest officials. On the occasion, Shri Rajib Banerjee Hon'ble MIC, Deptt. of Forest, Govt. of West Bengal, drove the train himself as officials flagged it off, even as Shri Gautam Deb, Hon'ble MIC, Deptt. of Tourism, sat on his left side. Later, Hon'ble MIC, Deptt. of Forest, Deptt. of Tourism and other officials visited the park and hold a press conference briefing the various media persons about the toy train, park and future programs.



Fig: Hon'ble MIC, Deptt. of Forest & Hon'ble MIC, Deptt. of Tourism, WB innaugrating the Toytrain Ride at Bengal Safari

Christmas Day Celebration

On Christmas Day, the park hands out the Santa Claus hat and chocolates to the kids those who visited with their parents. The day before Christmas i.e., on 24th December, the newly introduced trackless toy train became fully operational for the visitors. While the next day i.e., on 25th December, the park also unveiled height measurement wall in front of the ticket counter room for the visitors



Fig: Christmas Celebration with visitors at Bengal Safari

New Borns of the Safari Park

In the month of April and May, a total of **forty** fawns were born. In the month of June, a total of **four** white peafowl chicks were hatched. In the month of June, **two** chicks of Golden Pheasant were hatched.



Fig: New Borns of the Safari Park

Translocation of 1:1 Leopard Cub

On 8th of July, 2019, in accordance with the approval received from Central Zoo authority, New Delhi, Shisir, a male cub and Nayan, a female cub (*Panthera pardus*) (1:1) was translocated from North Bengal Wild Animals Park, Bengal Safari, to Zoological Garden, Alipore.

21. Seasonal Special Arrangements For Upkeep Of Animals

- Covering of aviaries of birds to protect them from sun and rain
- Cooler, fans and blowers in night shelters of tiger and bear during summers and winters.
- Seasonal fruits in diets
- Seasonal enrichments

22. Research Work Carried Out And Publications

In this annual year, the park conducted short term study on scat and pugmark identification of tigers in the Bengal Safari

Development of Digital Library of Pugmark and Scat Identification of Captive Bengal Tigers of Bengal Safari

North Bengal Wild Animals Park at present has a total tiger population of 1 male and 3 females, while 1 male has been transferred to Alipore Zoo as a CZA programme for breeding loan. Keeping in mind the aspect of tiger conservation, the Park had conducted a study on the identification of tiger pugmarks and scat. A digital library is being developed which would enable researchers and foresters to identify pugmarks and scats more accurately in the wild, thereby creating lesser confusion between indirect evidences of leopards and tigers.

This study is being conducted for a period of 1 month, whereby the different physical parameters of both the scat and the pugmarks will be identified.

Below are few photographs from the collected samples:



Pugmark of Adult Male



Pugmark of Adult



Pugmark of Female Cub



Pugmark of Female Cub



Scat of Adult Male



Scat of Adult Female



Scat of Female Cub-



Scat of Female Cub-2

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

ANIMALS ACQUIRED IN THE YEAR 2019-20

SI No.	Date	Animals	Sex ratio			Acquired From
			M	F	U	
1.	20.01.2020	Marsh Crocodile	1	1	0	Zoological Garden, Alipore
2.	08.01.2020	Sambar	1	0	0	Bagdogra Range

ANIMALS DISPOSED IN THE YEAR 2019-20

SI No.	Date	Animals	Sex ratio	Disposed to
1.	08.07.2019	Leopard Cub	1:1:0	Zoological Garden, Alipore

25. Rescue And Rehabilitation Of Wild Animals Carried Out By The Zoo

As per the instruction of the Hon'ble Chief Minister, West Bengal and subsequent order by the PCCF & Chief Wildlife Warden of West Bengal to local DFOs a complete list has been provided with corresponding order/permission from the CWLW for your reference (PCCF & CWLW letter No.: O.O.No.141/WL/2W-266/2018 dt: 07.06.2018)

S.No.	Species	No. of Animal Acquired	No. of Animals Disposed	Acquired from & date	Disposed to & date
1	Parakeets	7	7	24.05.2019	Released in Wild
	Hill Myna	2	2	Belakoba Range	
2	Parakeets	2	2	17.07.2019	Released in Aviary of the Park Released in wild
	Hill Myna	3	3	Belakoba Range	
3	Common Leopard	1	1	18.07.2019 Bagdogra Range	Released in Wild
4	Spotted Owlet	1	1	25.07.2019 Baikunthapur Division	Released in Wild
5	Hornbill	1	1	12.07.2019 Baikunthapur Division	Released in Wild

S.No.	Species	No. of Animal Acquired	No. of Animals Disposed	Acquired from & date	Disposed to & date
6	Hornbill	1	1	26.08.2019 ,NorthRange, MWLS	Released in Wild
7	Leopard	1	1	06.08.2019 Khunia Range	Released in Wild
8	Tokey Gecko	15	15	06.09.2019 Belakoba Range	Released in Wild
9	Leopard	1	1	07.08.2019 Bengal Safari	Released in Wild
10	Bear Cub	1	1	18.01.2020 Buxa Tiger (East) Division	Sheltered at Vet Hospital enclosures,Bengal Safari
11	Tokay gecko	15	15	17.09.2019 Belakoba Range	Released in Wild
12	Common Leopard	1	1	Belakoba Range 04.10.2019	Released in Wild
13	Python	1	1	Baikunthapur Division 27.01.2020	Death due to shock
14	Parakeets	11	11	Belakoba Range 04.02.2020	Released in Aviary of the Park
15	Parakeets	2	2	Belakoba Range 01.02.2020	Released in Aviary of the park
15	Barking Deer	1	1	Belakoba Range 23.03.2020	Released in Wild

26. Annual Inventory of animals

ANNEXURE-I

Annual Inventory of Animals (2019-20)

PART- A

Inventory Report for the Year: 2019-2020

S.No.	SPECIES NAME	ANIMAL NAME	SCIENTIFIC NAME	OPENING STOCK	BIRTHS	ACQUISITIONS	DISPOSALS	DEATHS	CLOSING STOCK
				M F U T	M F U	M F U	M F U	M F U	M F U T
Endangered Species (Schedule I and II)									
1	Bird	Peafowl	<i>Pavo cristatus</i>	3 1 0 4	0 0 0	0 0 0	0 0 0	0 0 0	3 1 0 4
2	Bird	Peafowl White	<i>Pavo cristatus</i>	3 1 0 4	0 0 4	0 0 0	0 0 0	1 0 4	2 1 0 3
3	Bird	Hill Myna	<i>Gracula religiosa</i>	1 1 0 2	0 0 0	0 0 0	0 0 0	0 0 0	1 1 0 2
Total Birds				7 3 0 10	0 0 4	0 0 0	0 0 0	1 0 4	6 3 0 9
1	Mammal	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
2	Mammal	Cat Fishing	<i>Prionailurus viverrinus</i>	1 1 0 2	0 0 0	0 0 0	0 0 0	0 0 0	1 1 0 2
3	Mammal	Cat Jungle	<i>Felis chaus</i>	4 0 0 4	0 0 0	0 0 0	0 0 0	0 0 0	4 0 0 4
4	Mammal	Civet Common	<i>Paradoxurus hermaphrodites</i>	1 1 1 3	0 0 0	0 0 0	0 0 0	0 0 0	1 1 1 3

		Palm - Cat Toddy							
5	Mammal	Elephant Indian	<i>Elephas maximus</i>	0 2 0 2	0 0 0	0 0 0	0 0 0	0 0 0	0 2 0 2
6	Mammal	Rhinoceros Indian One Horned	<i>Rhinoceros unicornis</i>	1 0 0 1	0 0 0	0 0 0	0 0 0	0 0 0	1 0 0 1
7	Mammal	Tiger Bengal	<i>Panthera tigris tigris</i>	1 3 0 4	0 0 0	0 0 0	0 0 0	0 0 0	1 3 0 4
8	Mammal	Deer Swamp	<i>Rucervus duvaucelli</i>	3 3 0 6	0 0 0	0 0 0	0 0 0	0 0 0	3 3 0 6
9	Mammal	Leopard Common	<i>Panthera pardus</i>	2 2 3 7	0 0 0	0 0 0	1 1 0	0 0 0	3 2 0 5
Total Mammals				15 14 4 33	0 0 0	0 0 0	1 1 0	0 0 0	16 14 1 31
1	Reptile	Crocodile Long Snouted (Gharial)	<i>Gavialis gangeticus</i>	2 3 1 6	0 0 0	0 0 0	0 0 0	0 0 1	2 3 0 5
2	Reptile	Crocodile Marsh	<i>Crocodylus palustris</i>	1 2 0 3	0 0 0	1 1 0	0 0 0	0 0 0	2 3 0 5
3	Reptile	Turtle Ganges Soft-shelled	<i>Nilssonia gangetica</i>	0 0 4 4	0 0 0	0 0 0	0 0 0	0 0 0	0 0 4 4
4	Reptile	Turtle Indian Black	<i>Melanochelys trijuga</i>	0 0 50 50	0 0 0	0 0 0	0 0 0	0 0 0	0 0 50 50
Total Reptiles				3 5 55 63	0 0 0	1 1 0	0 0 0	0 0 1	3 5 54 64
			Total of Endangered Species	25 22 59 106	0 0 4	1 1 0	1 1 0	1 0 5	25 22 55 104

PART- B
Inventory Report for the Year: 2019-2020

S.No.	SPECIES NAME	ANIMAL NAME	SCIENTIFIC NAME	OPENING STOCK	BIRTHS	ACQUISITIONS	DISPOSALS	DEATHS	CLOSING STOCK
				M F U T	M F U	M F U	M F U	M F U	M F U T
Other than Endangered Species									
1	Bird	Fowl Jungle Red	<i>Gallus gallus</i>	5 4 0 9	0 0 0	0 0 0	0 0 0	0 1 0	5 3 0 8
2	Bird	Heron Pond	<i>Ardeola grayii</i>	0 0 1 1	0 0 0	0 0 0	0 0 0	0 0 0	0 0 1 1
3	Bird	Parakeet Rose Ring	<i>Psittacula krameri</i>	0 0 40 40	0 0 0	0 0 0	0 0 0	0 0 0	0 0 40 40
4	Bird	Stork Adjutant (lesser)	<i>Leptoptilos javanicus</i>	1 1 0 2	0 0 0	0 0 0	0 0 0	0 0 0	1 1 0 2
5	Bird	Cockatoo Medium Sulpher Crested	<i>Cacatua galerita eleonora</i>	0 0 7 7	0 0 0	0 0 0	0 0 0	0 0 0	0 0 7 7
6	Bird	Cockatoo Moluccan/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
7	Bird	Cockatoo White	<i>Cacatua alba</i>	0 0 2 2	0 0 0	0 0 0	0 0 0	0 0 1	0 0 1 1
8	Bird	Macaw Blue & Yellow	<i>Ara ararauna</i>	0 0 5 5	0 0 0	0 0 0	0 0 0	0 0 0	5 0 0 5
9	Bird	Macaw Scarlet	<i>Ara macao</i>	0 0 1 1	0 0 0	0 0 0	0 0 0	0 0 0	0 1 0 1
10	Bird	Parakeet African Grey	<i>Psittacus erithacus</i>	0 0 12 12	0 0 0	0 0 0	0 0 0	0 0 1	0 0 11 11

11	Bird	Pheasant Golden	<i>Chrysolophus pictus</i>	2 2 1 5	0 0 3	0 0 0	0 0 0	0 0 3	3 2 0 5
12	Bird	Pheasant Silver	<i>Lophura nycthemera</i>	1 1 0 2	0 0 0	0 0 0	0 0 0	0 0 0	1 1 0 2
13	Bird	Pheasant Lady Amherst's	<i>Chrysolophus amherstiae</i>	1 1 0 2	0 0 0	0 0 0	0 0 0	0 1 0	1 0 0 1
Total Birds				10 8 73 90	0 0 3	0 0 0	0 0 0	0 2 5	16 8 64 88
1	Mammal	Deer Barking (Kakar)	<i>Muntiacus muntjak</i>	10 6 11 27	0 0 0	0 0 0	0 0 0	0 0 0	10 6 11 27
2	Mammal	Deer Hog	<i>Axis porcinus</i>	1 3 0 4	0 0 0	0 0 0	0 0 0	0 0 0	1 3 0 4
3	Mammal	Deer Sambar	<i>Rusa unicolor</i>	9 13 6 28	0 0 4	1 0 0	0 0 0	1 0 0	9 13 10 32
4	Mammal	Deer Spotted (Chital)	<i>Axis axis</i>	115 175 66 356	0 0 80	0 0 0	0 0 0	8 1 0	138 231 58 427
5	Mammal	Pig Wild - Wild Boar	<i>Sus scrofa</i>	0 2 5 7	0 0 0	0 0 0	0 0 0	0 0 0	0 2 5 7
Total Mammals				135 199 88 422	0 0 84	1 0 0	0 0 0	9 1 0	158 255 84 497
Total of Other than Endangered Species				145 207 161 512	0 0 87	1 0 0	0 0 0	9 3 5	174 263 148 585
Grand Total				170 229 220 618	0 0 91	2 1 0	1 1 0	10 3 10	199 285 203 689

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: 23

27. Mortality Report Of Animals

Sl.No.	Common Name	Scientific Name	Sex	Date of Death	Reason of Death
1	Spotted Deer	<i>Axis axis</i>	M	18.04.2019	Death due to infighting.
2	Peahen	<i>Pavo cristatus</i>	F	06.05.2019	Death due to egg peritonitis.
3	Spotted Deer	<i>Axis axis</i>	M	21.05.2019	Death due to infighting.
4	Spotted Deer	<i>Axis axis</i>	F	04.06.2019	Death due to infighting.
5	Pheasant Golden	<i>Chrysolophus pictus</i>	U	02.07.2019	Death due to illnursing.
6	Peafowl White	<i>Pavo cristatus</i>	U	07.07.2019	Death due to illnursing.
7	Peafowl White	<i>Pavo cristatus</i>	U	11.07.2019	Death due to illnursing.
8	Lady Amherst	<i>Chrysolophus amherstiae</i>	F	11.07.2019	Due to pneumonia.
9	Peafowl White	<i>Pavo cristatus</i>	U	13.07.2019	Death due to illnursing.
10	Sambar Deer	<i>Rusa unicolor</i>	M	15.07.2019	Death due to bloat.
11	Pheasant Golden	<i>Chrysolophus pictus</i>	U	15.07.2019	Death due to illnursing.
12	Peafowl White	<i>Pavo cristatus</i>	U	17.07.2019	Death due to illnursing.
13	Spotted Deer	<i>Axis axis</i>	M	08.08.2019	Death due to infighting.
14	Spotted Deer	<i>Axis axis</i>	M	12.08.2019	Death due to infighting.
15	Spotted Deer	<i>Axis axis</i>	M	14.08.2019	Death due to rupture of urinary bladder.
16	Red Jungle fowl	<i>Gallus gallus</i>	F	19.08.2019	Death due to Hemorrhagic Shock.
17	Spotted Deer	<i>Axis axis</i>	M	22.08.2019	Death due to infighting.
18	Spotted Deer	<i>Axis axis</i>	M	19.09.2019	Death due to infighting.

Sl.No.	Common Name	Scientific Name	Sex	Date of Death	Reason of Death
19	African Grey Parakeet	<i>Psittacus erithacus</i>	U	28.11.2019	Death due to Hemorrhagic Shock.
20	Gharial	<i>Gavialis gangeticus</i>	U	13.12.2019	Death due to Hemorrhagic Shock.
21	Cockatoo White	<i>Cacatua alba</i>	U	25.01.2020	Death due to cardio respiratory failure.
22	Spotted Deer	<i>Axis axis</i>	M	19.02.2020	Death due to haemorrhagic shock.
23	Peafowl White	<i>Pavo cristatus</i>	M	19.03.2020	Death due to illnursing.

28. Compliance With Conditions Stipulated By The Central Zoo Authority

The CZA Evaluation of recognition of large, medium and small zoos was conducted from 29.02.20 – 04.03.20. by the evaluators - Sri Rupak De, IFS (Retd) & Sri A.B. Shrivastava, Former Director, SWFH, Jabalpur. The compliance report of the conditions stipulated by the Central Zoo Authority (as per the earlier letter of grant of recognition issued to the zoo) is sent to CZA. The Bengal Safari park has not yet received comments from CZA.

29. List of free living wild animals in the park

S.No	Common Name	Scientific Name
1.	Wild Boar	<i>Sus scrofa cristatus</i>
2.	Indian Hare	<i>Lepus nigricollis</i>
3.	Bengal Monkey	<i>Macaca mulata</i>
4.	Malayan Giant Squirrel	<i>Ratufa bicolor</i>
5.	Common three striped Squirrel	<i>Funambulus palmarum</i>
6.	Rose ringed Parakeet	<i>Psittacula krameri</i>
7.	Spotted Owlet	<i>Athene brama</i>
8.	Little Cormorant	<i>Microcarbo niger</i>
9.	Grey Mongoose	<i>Herpestes edwardsii</i>
10.	Coppersmith barbet	<i>Megalaima haemacephala</i>
11.	Lineated Barbet	<i>Megalaima lineate</i>
12.	Little Egret	<i>Egretta garzetta</i>
13.	Indian Pond Heron	<i>Ardeola grayii</i>
14.	Hill Myna	<i>Graciola religiosa</i>
15.	Red Vented Bulbul	<i>Pycnonotus cafer</i>
16.	Black Hooded Oriole	<i>Oriolus xanthornus</i>
17.	Grey Backed Shrike	<i>Lanius tephronotus</i>
18.	Black Drongo	<i>Dicrurus macrocercus</i>
19.	Longtailed Minivet	<i>Pericrocotus flammeus</i>
20.	Red Jungle Fowl	<i>Gallus gallus</i>
21.	Indian Peafowl	<i>Pavo cristatus</i>
22.	Oriental Pied Hornbill	<i>Anthracoceros albirostris</i>
23.	Indian Grey Hornbill	<i>Ocyrceros birostris</i>
24.	Spotted Tree frog	<i>Polypedates maculatus</i>
25.	Indian Rock Python	<i>Python molurus</i>
26.	Spectacled Cobra	<i>Naja naja</i>
27.	Banded Krait	<i>Bungarus fasciatus</i>
28.	Golden Flying Ornate snake	<i>Chrysopelea ornate</i>

