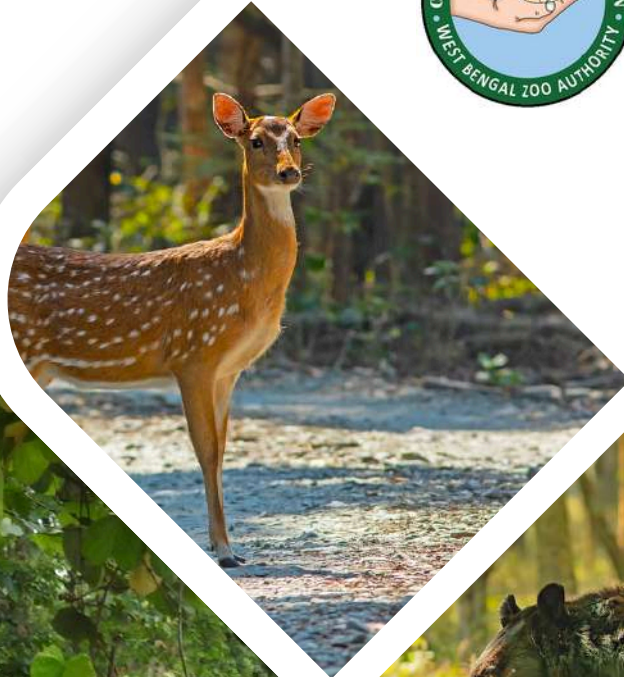


# ANNUAL REPORT



FOR THE YEAR  
**2023-24**

Prepared By:  
**BENGAL SAFARI**



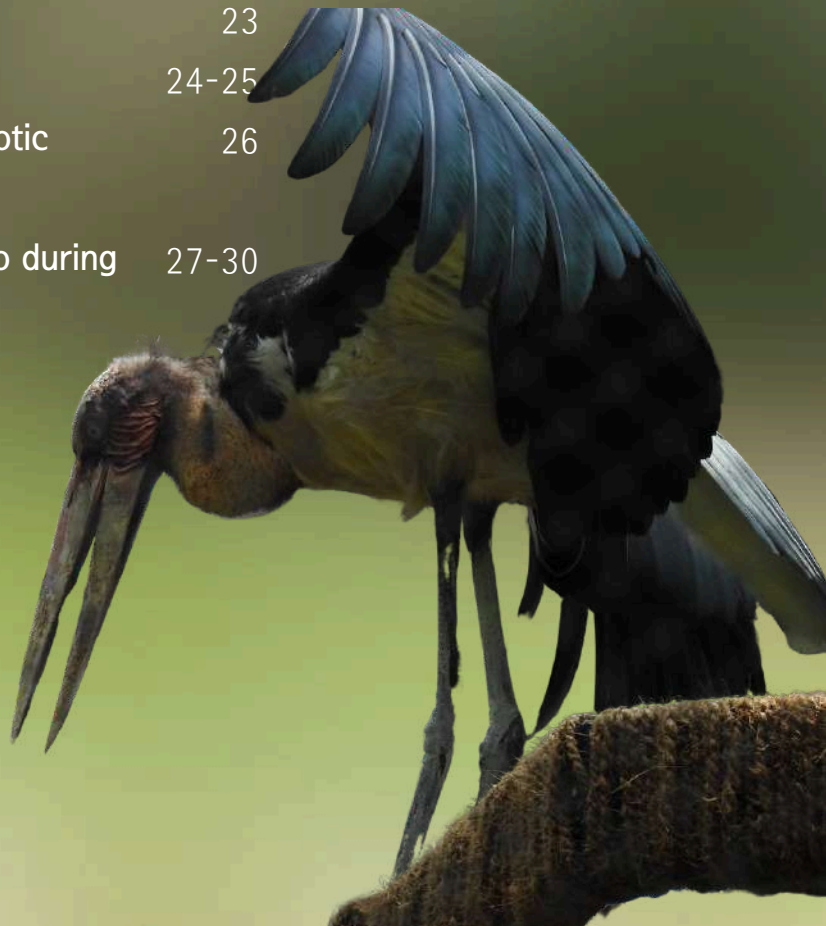
**NORTH BENGAL WILD ANIMALS PARK (BENGAL SAFARI), SILIGURI**





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# Report of The Officer-in-charge

E. Vijayakumar, IFS  
Director, North Bengal Wild Animals Park


*We take immense pleasure and value in bringing out the Annual Report 2023-24 to everyone. North Bengal Wild Animals Park is one of the newest and fastest emerging zoos in our country, with extraordinary potential for conservation and ecotourism.*

*During the year 2023-24, we received around 3,75,000 satisfied visitors to our facility. The number of species under conservation has remarkably increased to 61. Many new species were successfully added through animal exchange programme, such as the Western Hoolock Gibbon, Leucistic Black Buck, Asiatic Lion, Porcupine, and various Large water birds.*

*To enhance visitor engagement, new attractions such as Nakshatra Vanam and a new souvenir shop were inaugurated.*

*This year also saw a record number of new births among our captive animals, including Bengal Tigers, Silver pheasant etc.*

*Animal welfare and visitor engagement are of immense value to us, and the team NBWAP has been continuously striving to improve our performance year by year.*



BENGAL SAFARI

# History of the Zoo



The North Bengal Wild Animals Park, now renowned as Bengal Safari, has a storied past that reflects its evolution and significance. Originally, this area was a part of the Baikunthapur Forest Division, nestled within the Adabari Beat, and was known as Shorea Nature Park. Its proximity to the Mahananda Wildlife Sanctuary added to its natural charm and biodiversity.

Recognizing the need to create a dedicated space for wildlife observation and conservation, an area of 299.495 hectares, encompassing the existing park, was earmarked for the establishment of the North Bengal Wild Animals Park in Siliguri. The strategic geographic location of Siliguri, bordered by Nepal to the west, Bhutan to the northeast, and China and Bangladesh to the south, as well as its role as a significant commercial tourism hub and transit point, naturally fostered an interest among tourists and residents in the wildlife of North Bengal.

The establishment of the park was a thoughtfully considered endeavour, aimed at aligning with the growth and maintenance standards set by the Central Zoo Authority (CZA). On July 17, 2014, the foundation stone was laid by the honourable Chief Minister of West Bengal, Smt. Mamata Banerjee. The park's first phase, a mixed herbivore safari, was inaugurated by her in January 2016.

The primary function of the North Bengal Wild Animals Park is to offer a safari experience, allowing visitors to observe various animals in their natural habitats from the safety of safari vehicles. This initiative not only provides a closer connection with nature but also offers stunning views of the Himalayan range, enhancing its captivating allure.

Situated just 8 kilometres from Siliguri, Bengal Safari now features an array of attractions, including Tiger Safari, Mixed Herbivore Safari, Himalayan Black Bear Safari, and Leopard Safari. The park also boasts enclosures for Lesser cats, water bird aviary, a flying bird aviary, a primate section, a Reptiles pond and a constrictor house. Visitors can also explore the zoo souvenir shop and look forward to the upcoming lion safari. Additionally, the park boasts a Nature Interpretation Centre, all contributing to its mission of fostering an appreciation for wildlife and nature conservation.



## Vision      Objectives

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 endeavor to breed the endangered species for display, exchange and rehabilitation in the wild.

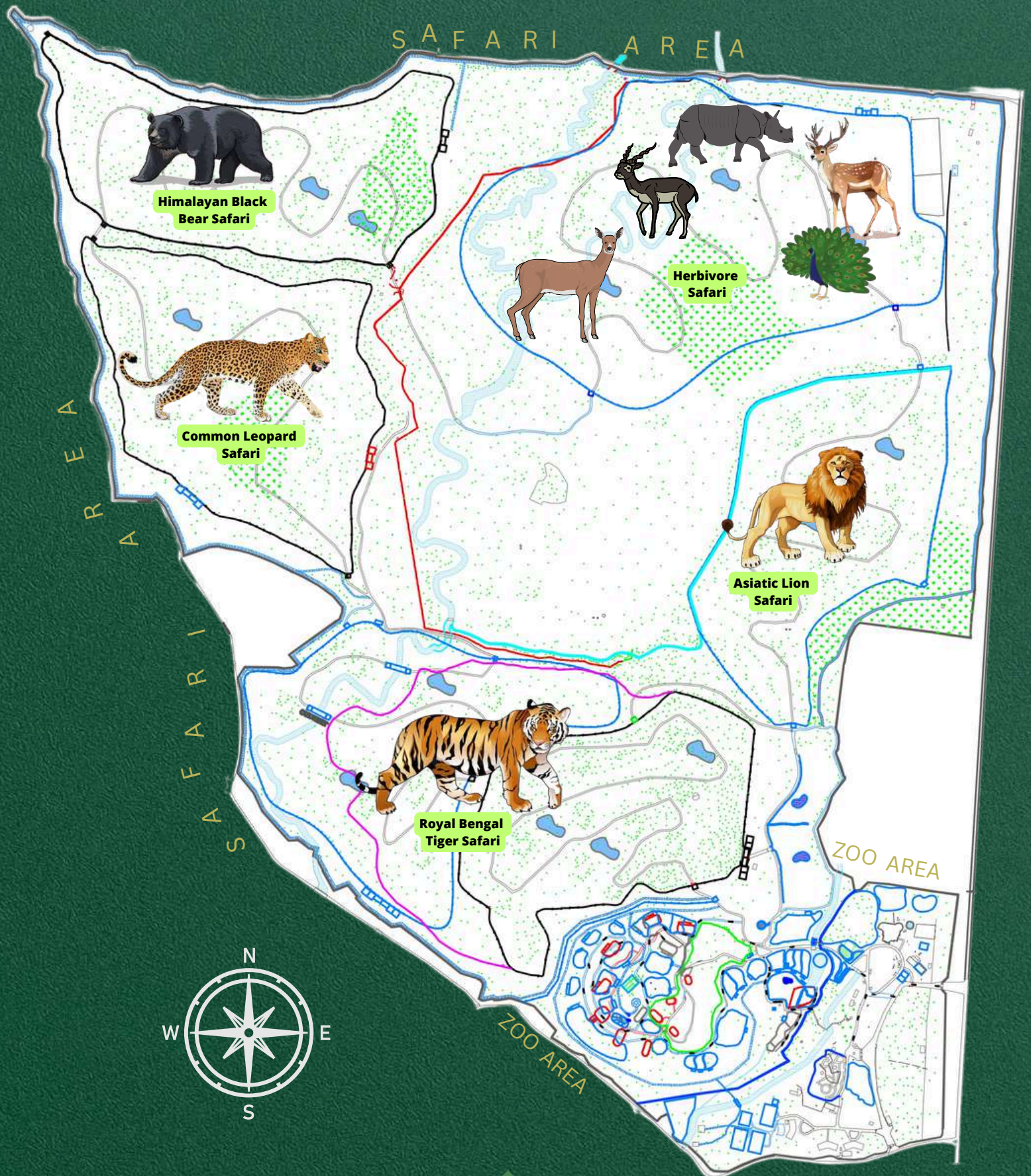
## Mission

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.

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 North Bengal region.
- 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, behavior 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.

# Area map of North Bengal Wild Animals Park (Bengal Safari)



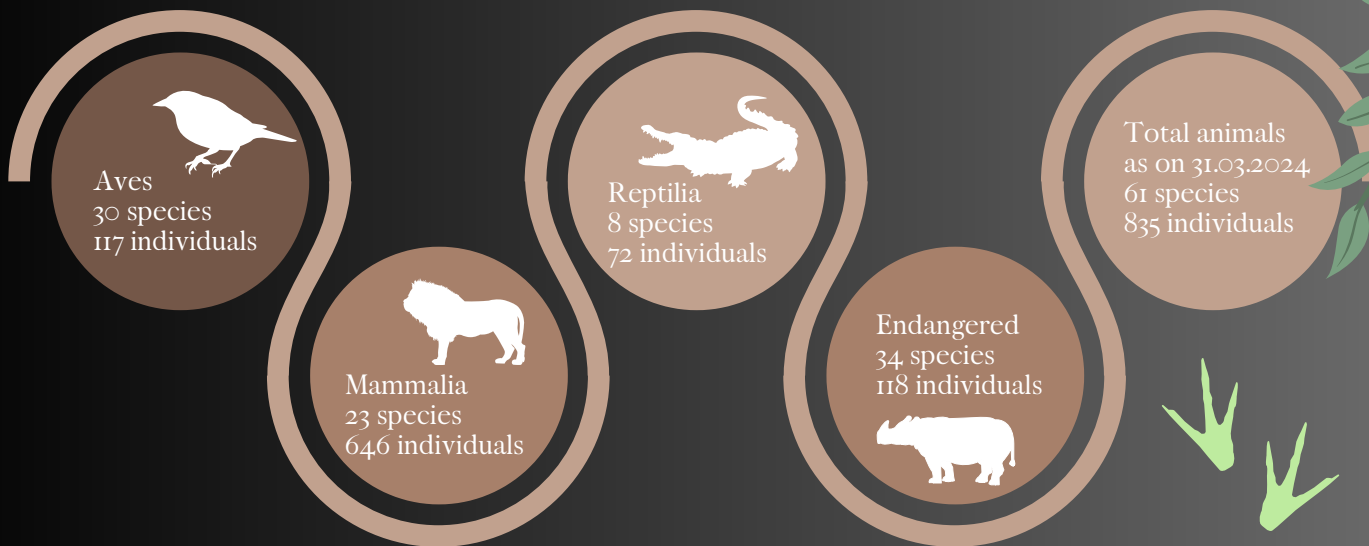
# About US



## Basic Information about the Zoo

Name of the Zoo	: North Bengal Wild Animals Park
Year of Establishment	: 2016
Address of the Zoo	: North Bengal Wild Animals Park, 5th Mile, Sevoke Road, Salugara, Siliguri-734008
State	: West Bengal
Telephone Number	: +91 7047312620
Fax Number	: -
E-mail address	: dirnbwap@gmail.com
Website	: www.northbengalwildanimalspark.in
Distance from nearest	: Airport: Bagdogra International Airport (21km) Railway Station: NJP (Distance: 15 km) Bus Stand: Tenzing Norgay Bus Terminus (10 km); P.C. Mittal Bust Stand (Distance – 6 km)
Recognition Valid upto (Date)	: 19.08.2021
Category of zoo	: Mini
Number of Visitors (Financial Year)	: 3,75,136





- Number of animal house : 25 nos (5 open moated, 10 open, & 10 closed enclosures)
- Zoo Holiday : Every Monday
- Zoo timing for visitors : 9:00 am to 5:30 pm (Summer season)  
9:00 am to 5:00 pm (Winter season)
- Animal feeding time : Carnivore (Evening 4:30 pm to 5:30 pm)  
Herbivore (Morning 8:00 am to 9:00 am)  
Birds (Morning 7am-9am: Afternoon 12pm-2pm:  
Evening 4:30 pm- 6pm)  
Reptiles (Morning 7am -9am, thrice a week)

### Management Personnel of the zoo

Name with designation of the Officer-in-charge : Shri Kamal Sarkar, WBFS (14.12.2022-05.03.2024)  
Shri E. Vijayakumar, IFS (05.03.2024- Present), Director of North Bengal Wild Animals Park

Name of the Curator : Shri Abhishek Chowdhury, WBFS (Assistant Director)  
Name of the Range Officer : Shri Dwaipayan Rano, FR  
Name of the Veterinary Officer : Dr. Nick Doley  
Name of the Biologist : Miss Ishita Chongder  
Name of the Education Officer : Miss Sangita Basak (Education Assistant)  
Name of the Compounder/Lab Assistant : Mr. Biswajeet Sarkar (Veterinary Assistant)

# SAFARI

40 hec

## Royal Bengal Tiger safari

Established in 2016, the Tiger Safari is one of our most thrilling attractions. Spanning a significant area, this safari provides a safe yet exhilarating way to observe these magnificent predators in an environment that closely mimics their natural habitat. The safari includes strategically placed observation points for a closer look at the tigers' daily activities, ensuring an immersive and educational experience.



40 hec

## Herbivore safari

Our Herbivore Safari offers a tranquil and educational experience for visitors, showcasing a diverse range of herbivorous animals in their naturalistic habitats such as chital or spotted deer, sambar deer, barking deer, blackbuck, red jungle fowl, peafowl, wild boar, and one-horned rhinoceros. This safari provides insight into the lives and behaviours of these gentle creatures, allowing visitors to appreciate the biodiversity and ecological importance of herbivores.



20 hec

## Himalayan Black Bear safari

The Himalayan Black Bear Safari, established between 2017 and 2018, is dedicated to one of the most intriguing bear species. This safari allows visitors to observe the bears' behaviors, including their foraging habits and playful antics. The safari area is designed to simulate the bears' natural environment, providing ample space for them to roam and explore.



20 hec

## Common Leopard safari

Also established between 2017 and 2018, showcases the elusive and graceful leopard. This safari offers visitors a rare opportunity to witness these solitary hunters in action. With carefully designed enclosures and observation areas, the Leopard Safari provides a unique experience where visitors can appreciate the leopards' agility and strength.



20 hec

## Lion safari

Our Lion Safari, currently under development, is poised to become a major attraction and is the first lion safari in North Bengal. Once completed, it will provide visitors with an extraordinary opportunity to observe these iconic animals in a setting that replicates their natural habitat. We anticipate that the Lion Safari will attract a large number of visitors, offering both educational and thrilling experiences. The safari will include interactive exhibits that highlight the importance of protecting these majestic creatures.



# Zoo

Our on foot zoo area spans an impressive 14 hectares, offering a diverse and immersive experience for visitors. Here's an overview of the various sections within our zoo:

## Aviary

Our aviary is a vibrant and colorful sanctuary, housing a variety of birds. Visitors can marvel at the beauty of indigenous birds, exotic species, scavengers, and pheasants. The aviary provides a unique opportunity to observe and learn about these feathered creatures in an environment designed to mimic their natural habitats.

## Lesser Cat Trails

The Lesser Cat Trails section is home to several intriguing small cat species. Visitors can see fishing cats, jungle cats, Asian palm civets, and leopard cats. This area offers a closer look at the habits and lifestyles of these elusive and often overlooked predators.

## Primate Section

In the Primate Section, visitors can encounter a fascinating array of primates. This section includes Western hoolock gibbons, spectaclled langurs, mandrills, and various other monkeys. Each enclosure is designed to reflect the primates' natural environments, providing a dynamic and engaging experience.

## Constrictor House

The Constrictor House is dedicated to showcasing some of the most impressive reptiles. Here, visitors can see various python species and water monitor lizards. Adjacent to the Constrictor House are exhibits featuring porcupines, kangaroos, leucistic black bucks, and brow-antlered deer, offering a diverse mix of species in one area.

## Reptile Pond

Our Reptile Pond is a highlight for those interested in aquatic reptiles. This area features marsh crocodiles, gharials, and turtles, all thriving in a carefully maintained environment that mimics their natural habitats. The Reptile Pond provides a unique educational experience about these ancient and fascinating creatures.



### Children Play Area

The children's play area is a dedicated space where young visitors can have fun and burn off energy. Equipped with various play structures and activities, it's a perfect spot for families to relax and enjoy their day at the zoo.



### Adventure sports area

For those seeking a bit more excitement, our adventure sports area offers thrilling activities. Whether it's zip-lining, e-cycling, or climbing walls, there's something to challenge and entertain adventure enthusiasts of all ages.



### Nature Interpretation Centre

The Nature Interpretation Centre provides an educational experience, offering insights into the zoo's wildlife, conservation efforts, and the importance of biodiversity. Interactive displays and informative exhibits like biodiversity room, museum etc. make learning about nature engaging and accessible for all visitors.



### Butterfly Conservatory

The Butterfly Conservatory is a serene and beautiful space where visitors can observe a variety of butterfly species in a carefully maintained environment. This conservatory highlights the life cycle of butterflies and the critical role they play in ecosystems.



### Kandung Flori Village

Kandung Flory Village provides an impressive selection of greenery of succulent and cactus plants. Visitors can purchase their favorite indoor plants from this place.



### Zoo Souvenir Shop

Our zoo souvenir shop offers a range of memorabilia and gifts. Visitors can find unique items that commemorate their visit, from plush animals and educational toys to locally crafted souvenirs.



### Nakhsatra vanam

Nakshatra Vanam is a special garden area inspired by astrology and mythology. It features plants and trees associated with the zodiac signs, providing a tranquil and reflective space for visitors.



### Toy train

The toy train is a delightful attraction for visitors of all ages. It offers a leisurely ride through various parts of the zoo, providing a different perspective on the exhibits and a fun way to navigate the park.



### Golf cart

To enhance accessibility and convenience, we offer battery-operated vehicles. These vehicles provide an easy way for visitors to explore the zoo, ensuring that everyone can enjoy the attractions comfortably.

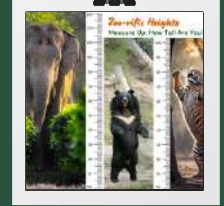
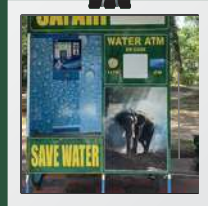


## OTHER attractions



# Visitor Amenities

- ✿ Cloak Room
- ✿ Wheel Chair
- ✿ First aid
- ✿ Normal & Chilled certified drinking water with R.O. filter facility
- ✿ Water ATM
- ✿ Ladies & Gents Washroom
- ✿ Food Court
- ✿ Food Stalls & Canteen
- ✿ Children's playing area
- ✿ Adventure sports
- ✿ Sitting arrangement
- ✿ Rest Shed
- ✿ Rain shed
- ✿ Online zoo & safari ticketing facility
- ✿ Zoo Souvenir Shop
- ✿ Golf Cart
- ✿ Toy Train
- ✿ Height measurement wall stand for visitors
- ✿ Nature Interpretation Centre (Biodiversity room, Museum)
- ✿ Butterfly Garden
- ✿ Nakshatra Vanam
- ✿ Kandung flori village
- ✿ Resting area
- ✿ Selfie zone
- ✿ Signage & Directions

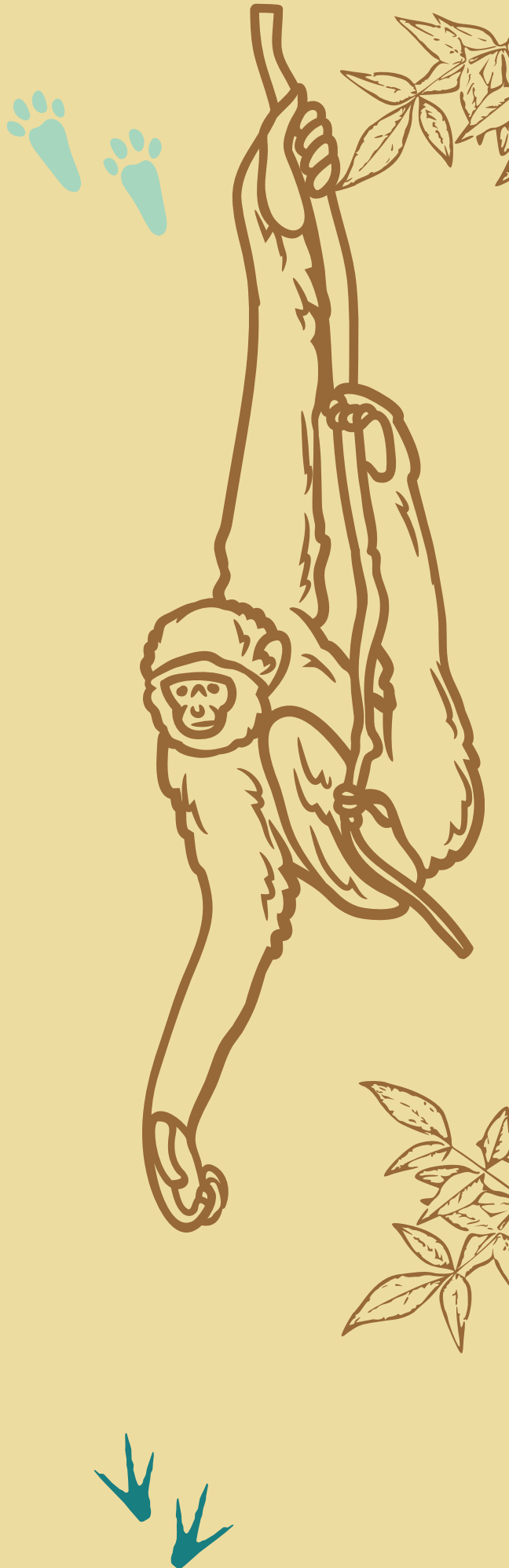


## Entry fee & other charges

Zoo Entry (above 5 years)	: Rs 50/-
Grand Safari - Tiger, leopard, bear, & herbivores(above 3 years)	: Rs 400/-
Combo Safari - Tiger & herbivores (above 3 years)	: Rs 200/-
Joy ride (above 3 years)	Rs 800/-
Adventure sports activity	
Long Zipline	: Rs 150/-
Short Zipline	: Rs 100/-
Burma bridge	: Rs 100/-
Bigfoot	: Rs 100/-
Artificial wall climbing	: Rs 50/-
E-cycling	: Rs 150/-
Canopy walk	: Rs 100/-
Toy train	: Rs 50/-
Golfcart	
5 seater	: Rs 150/-
8 seater	: Rs 240/-
Camera	: Rs 100/-
Parking fee	
Heavy vehicle (Bus etc.)	: Rs 200/-
Four wheeler	: Rs 50/-
Two wheeler	: Rs 30/-
Bicycle	: Rs 10/-

## Free facilities

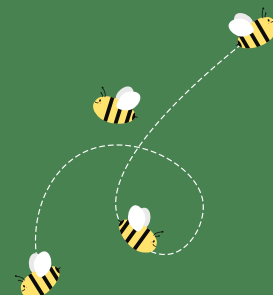
Cloak Room  
Wheel Chair  
First aid  
Normal & Chilled certified drinking water with R.O. filter facility  
Ladies & Gents Washroom  
Children's playing area  
Sitting arrangement  
Rest Shed  
Rain shed  
Height measurement wall stand for visitors  
Nature Interpretation Centre (Biodiversity room, Museum)  
Butterfly Garden  
Nakshatra Vanam  
Wildlife based film show for children at NIC  
Screening of herbarium collection list at NIC



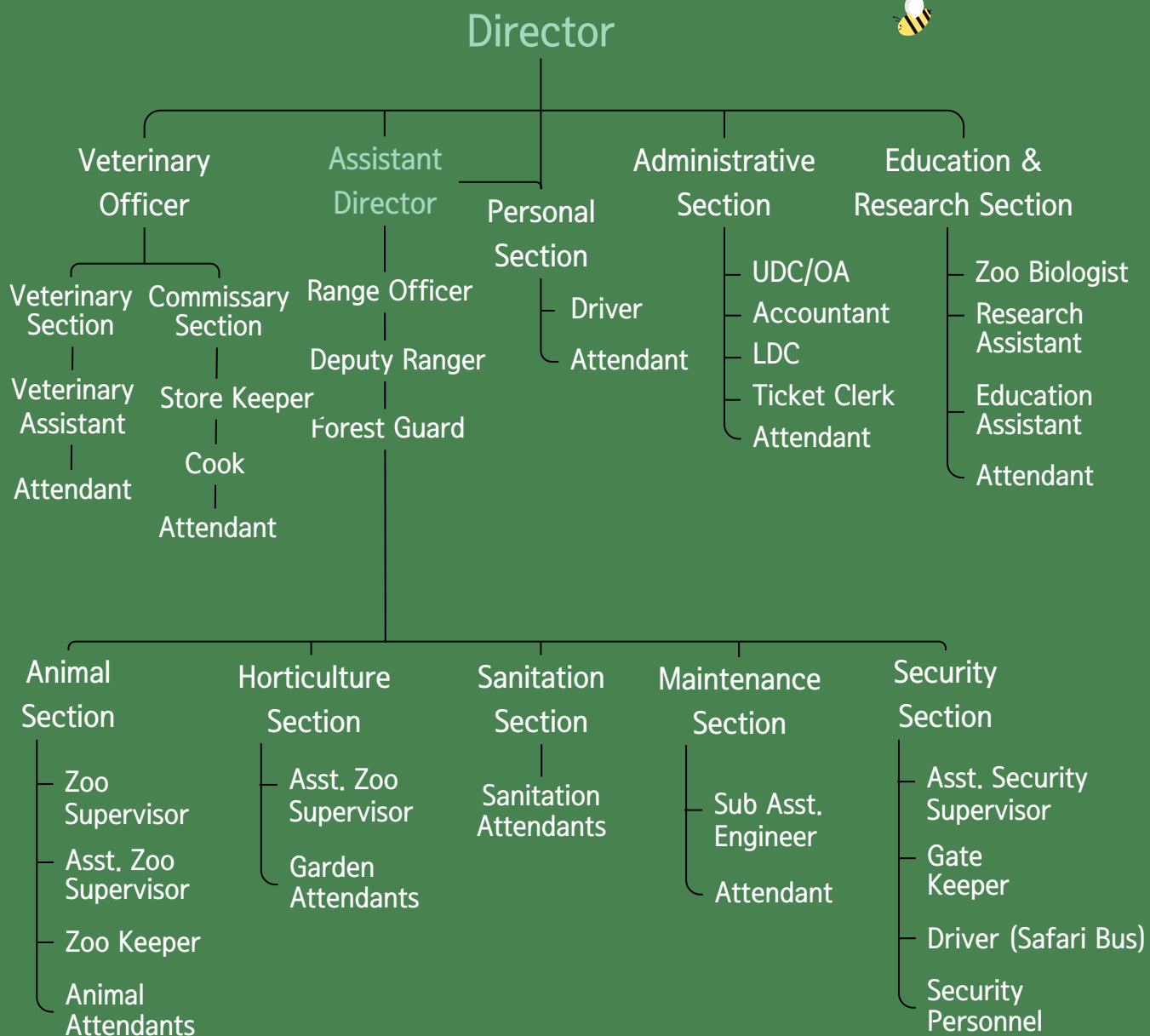


## Owner / Operator of the Zoo

Name of the Operator : Shri. Saurabh Chaudhuri, IFS  
Address of the Operator : West Bengal Zoo Authority Aranya Bhawan 1th  
Floor Block - LA-10A, Sector III Salt Lake City,  
Kolkata - 700106, West Bengal  
Contact details/  
Phone number of Operator : +91 33 23355010  
E-mail address of Operator : mswbza@gmail.com



## ORGANIZATIONAL CHART



# HUMAN RESOURCES



## Director's office, North Bengal Wild Animals Park, Siliguri

Sl. No.	Designation	Number of Sanctioned Post	Existing Staff Strength	Name of the incumbent
1.	Director	1	1	Shri Kamal Sarkar, WBFS (14.12.2022-05.03.2024) Shri E. Vijayakumar, IFS (05.03.2024-Present),
2.	Assistant Director	1	1	Shri Abhishek Chowdhury, WBFS
3.	Range Officer	1	1	Mrs Soma Sarkar Das (till 11.03.2024) Mr Dwaipayan Rano (11.03.2024- till date)
4.	Veterinary Officer	2	1	Dr. Nick Doley
5.	Zoo Biologist	1	1	Miss Namrata Ghosh (till 26.04.2023) Miss Ishita Chongder (1.06.2023- till date)
6.	Sub Asst. Engineer (Civil)	1	1	Mr Tuhin Nag Biswas
7.	Zoo Supervisor	1	0	-
8.	Deputy Ranger/Foresters	2	0	-
9.	Forest Guard	10	0	-
10.	Research Assistant	1	2	Miss Prishka Pariyar Mr Sudeb Sarkar
11.	Education Assistant	1	1	Miss Sangita Basak
12.	Veterinary Assistant	1	1	Mr Biswajeet Sarkar
13.	Asst. Zoo Supervisor	2	1	Mr Janardan Chowdhury
14.	Asst. Estate/Security Supervisor	1	1	Mr Binod Rai
15.	Accountant	1	0	Miss Swarnali Dutta Roy (till .10.2023)
16.	Store Keeper	1	1	Mrs Tripti Sarkar
17.	UDC/OA/TA	1	2	Mr Pappu Kr. Sah Miss Dolan Malo
18.	LDC	1	0	-
19.	Ticket Clerk	1	1	Miss Manila Thapa
20.	Gate Keeper	1	1	Mr Mrinal Roy
21.	Zoo Keeper	10	0	-

Sl. No.	Designation	Number of Sanctioned Post	Existing Staff Strength	Name of the incumbent
22.	Mahut	4	0	-
23.	Patawala	4	4	Mr Satan Narjinary, Mr Parimal Barman, Mr Kamal Roy, Mr Jogesh Barman
24.	Cook	1	1	Mr Unish Saibo
25.	Driver	11	11	Mr Manik Roy, Mr Raju Saibya, Mr Kalyan Sharma, Mr Barun Debnath, Mr Nawraj Dewan, Mr Ananta Sarkar, Mr Suman Tamang, Mr Dinesh Kumar Rai, Mr Goutam Mohanta, Mr Saklu Uraow.
26	Office Attendant	7	6	Mr Asit Narjinary, Mr Malay Ghosh, Mr Jayanta Chandra Roy, Mr Shyamal Roy, Mr Raju Kumar Roy, Miss Salma Majhi
27	Garden Attendant	6	5	Mr Indra Bahadur Thapa, Mr Dhanesh Roy, Mr Bijay Sharma, Mr Dibakar Sharma, Mrs Maria Oraon
28	Sanitation Attendant	6	6	Mr Sukul Hela, Mr Sanjib Hela, Mr Suraj Paswan, Mr Ravi Paswan, Mrs Sunita Paswan, Mrs Rajni Debi Paswan.
29	Animal Attendant	15	25	Mr Gopal Biswakarma, Mr Subal Pradhan, Mr Prasenjit Barman, Mr Raj Thapa, Md. Aminur Rahman, Mr Krishna Adhikary, Mr Himu Barman, Mr Karan Marandi, Mr Bappa Barman, Md. Rafiqul Islam, Mr Dipu Urow, Mr Bijoy Majhi, Mr Rohan Rai, Mr Bibek Roy, Mr Pranab Tamang, Mr Sangam Majhi, Mr Ganesh Saibo, Mr Biswajit Roy, Mr Bijoy Uraon, Mr Barka Majhi, Mr Birbal Modak, Mr Ramesh Mardi, Mr Rajen Oraon, Mr Subham Sharma, Mr Rakesh Tamang.
30	Security Personnel	30	37	Mr Manish Gajmer, Mr Krishna Thapa, Mr Ashik Khawas, Mr Rajesh Lal Saibo, Mr Hemant Pradhan, Mr Chandra Kr. Chhetri, Mr Ranjit Saibo, Mr Anil Saibo, Mr Sudesh Baraik, Mr Ajit Kr. Bhujel, Mr Manish Lal saibo, Mr Sunil Uraon, Mr Ratan Singh Saibo, Mr Amir Saibo, Mr Dal Bahadur Chhetri, Md. Rahamat Ali, Mr Kajee Thakuri, Mr Ajay Rasaily, Mr Lok Bahadur Lama, Mr Uday Chhetri, Mr Subash Sharma Koirala, Miss Manu Rai, Miss Jyoti Biswakarma, Mr Satish Rai, Mr Parimal Tamang, Mr Budha Uraon, Mr Kalu Rai, Mrs Sandiya Rai, Mr Passang Tamang, Mr Milan Tamang, Mr Harka Bahadur Thapa, Mr Sagar Rai, Mr Suryaman Rai, Mr Rahin Saibo, Mr Budha Lepcha, Mr Rakesh Majhi, Mrs Buniya Barman

# 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.	Animal Attendances of NBWAP	Comprehensive one day hands-on workshop focused on various aspects of bird care, including handling techniques, dietary requirements, enrichment activities, early disease detection, and maintaining biosecurity in aviaries.	06.07.2023	North Bengal Wild Animals Park
2.	Dr. Nick Doley, Veterinary Officer; Staff of the Veterinary section, Staff of the Security section, and all animal attendants of NBWAP	Tranquilization Training Programme for Wildlife Management.	15.01.2024	North Bengal Wild Animals Park



## 1. ZOO ADVISORY COMMITTEE

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

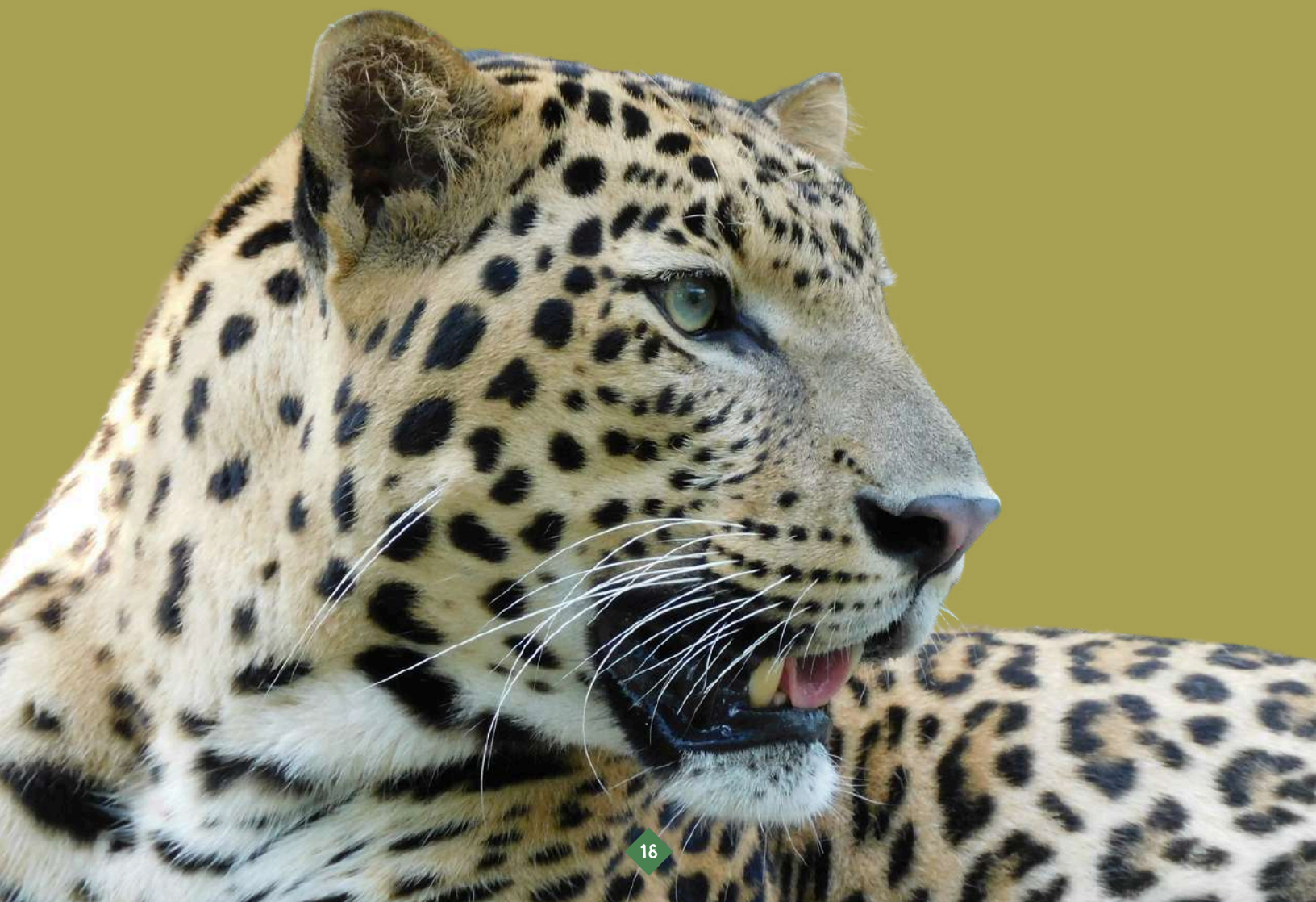
## 2. HEALTH ADVISORY COMMITTEE

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.

- Dr Tapan Kumar Sadhukhan, Joint Director, ARD, IAH & VB (R & T)- Chairman
- Specialist (Sero-Epidemiology), RDDI (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

## STATEMENT OF INCOME AND EXPENDITURE OF THE ZOO

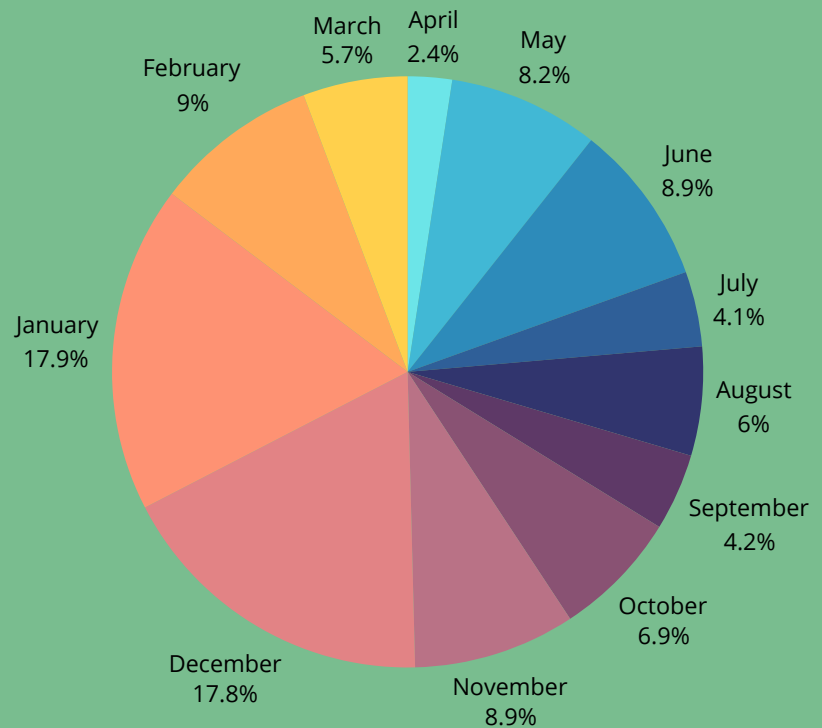
Sl.No.	Year (2023-24)	Source of fund	Expenditure in Rupees
1.	As grant in aids under Plan	North Bengal Development Department	2,76,64,736.00
2.	As grants Non-plan	West Bengal Zoo Authority	20,44,09,727.00
Total Expenditure (*Unaudited Figure)			23,20,74,463.00
			Receipt in Rupees
3.	a) Ticket Revenue (including Zoo shop, Adventure sports, Toy Train, Golf Cart & Vehicle parking)		8,06,36,395.00
	b) Animal Adoption		
	c) Friends of Zoo		6,07,000.00
	d) Miscellaneous earnings (Fee from rental store & souvenir shop, electricity, FPC canteen, stalls etc)		-
			18,02,580.00
Total Revenue (*Unaudited Figure)			8,30,45,977.00



# Month wise number of visitors during 2023-24

## Months Visitors

April	28512
May	28999
June	31150
July	14441
August	20955
September	14799
October	24446
November	31173
December	62678
January	62916
February	31595
March	20124



3348 Free entry of school children during special celebrations throughout the year

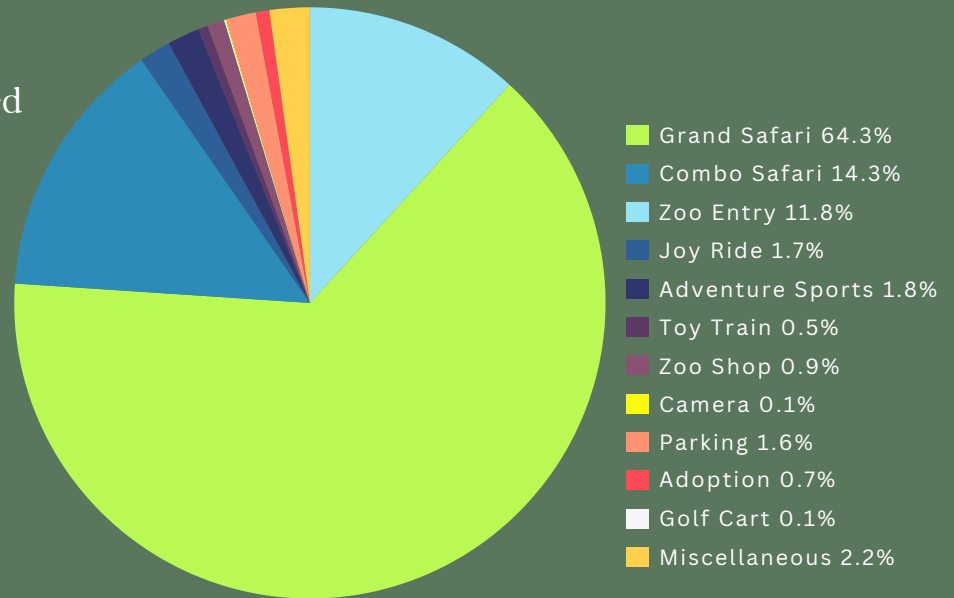
**TOTAL 375136**



## VISITOR FLOW AND REVENUE GENERATED DURING THE YEAR 2023-24

Foot Fall 3,75,136

Total revenue collected  
Rs 8,30,45,977.00



## Last 5 years' revenue trend



# DAILY FEED SCHEDULE OF ANIMALS

Sl. No.	Species	No. of Individuals	Food items & quantity	Schedule
1.	Herbivore (Sambar Deer, Spotted Deer, Barking Deer, Swamp Deer, Hog Deer, Black Buck, Wild Boar)	33nos, 474nos, 35nos, 6nos, 9nos, 6nos, 30nos	40kg of grams, 34kg of wheat bran, 34kg of crushed maize, 18kg of masoor Dal, 18kg of mung bean, 1kg of salt, 1kg of black salt, 0.20kg of turmeric, 10kg of cabbage, 5kg of carrot, green fodder, Salt lick with added vitamins, minerals.	Morning (8:45am-9:30am)
2.	Indian one horned rhino	1nos	2kg of carrot, 50kg of corn (bhutta), Ad libitum green fodder.	Morning (10am)
3.	Himalayan Black Bear	5nos	1kg of makai atta, 0.55kg of molasses, 0.25kg of honey, 0.50kg of Satu, 10pcs of eggs, 2kg of chicken for soup, 1.50 kg of cow milk, 1 dozen of banana, 1.30kg of apple, 0.80kg of pomegranate, 1kg of kharmuj, 1.20kg of sugarcane, 1kg of carrot, 2.50kg of ripen papaya, 8.50kg of watermelon, 4kg of pineapple, 1.50kg of red grapes, 0.80kg of sweet potato.	2 times a day Morning (8am-8:30am) Evening (4:30pm-5pm)
4.	Bengal Tiger	14nos	33kgs of Buffalo meat with bone, 11kg of Pork meat, 2kg of mutton.	Evening (4:30pm-5pm)
5.	Asiatic lion	2nos	11.50kg of Buffalo meat with bone, 1kg of Pork meat.	Evening (4:30pm-5pm)
6.	Common leopard	4nos	9kg of Buffalo meat, 3.50kg of mutton, 0.50kg of pork meat.	Evening (4:30pm-5pm)
7.	Indian birds, exotic birds, water birds, pheasants	117nos	0.05kg carrot, 0.05kg capsicum, 0.05kg beet, 0.05kg chilly, 0.1kg gourd, 0.10kg ladies finger, 0.30kg guava, 1kg ripen papaya, 0.05kg walnuts, 0.05kg macadamia nut, 0.05kg hazelnuts, 0.05kg Brazil nut, 0.05kg pecan nut, 0.05kg roasted peanuts, 1.05kg groundnut, 0.05kg almond, 0.05kg sunflower seed, 0.05kg safflower seed, 0.05kg white millet, 0.05kgwheat, 0.05kg paddy, 0.10kg kabli chana, 0.05kg canary seed, 0.05kg magaj seeds, 0.15kg onion, 0.05kg chilly, 1.00kg cabbage, 1kg ripen papaya, 5kg watermelon, 0.25kg carrot, 0.15kg lettuce, 0.20kg lal shak, 0.15kg sweet potato, 0.30kg red grapes, 0.30kg pomegranate, 0.30kg apple, 2pcs egg, 0.75kg grams, 1kg crushed maize, 1kg wheat, 0.25kg masoor dal, 0.20kg satu, 0.10kg molasses, 1.05kg big fish live, 1 dozen banana, 5.30kg snail.	3 times a day Morning (7am-7:30am) again at (11:30am-12pm) Afternoon (3pm-3:30pm)



Sl. No	Species	No. of Individuals	Food items & quantity	Schedule
8.	Lesser cats (Jungle cat, Fishing cat, Asian palm civet, Leopard cat)	3nos, 2nos, 2nos, 5nos	3.30kg of mutton, 0.90kg pork, 1 dozen banana, 6pcs of eggs, 0.30kg of red grapes, 0.30kg of pomegranate, live fish for fishing cat	Evening (4:30pm-5pm)
9.	Porcupines	4nos	0.40kg apple, 0.40kg pumpkin, 0.20kg cucumber, 0.50kg watermelon, 0.20kg beet, 0.20kg spinach, 0.20kg carrot, 1kg corn, 0.30kg ripen papaya, 0.20kg lettuce, 0.20kg red grapes, 0.20kg sweet potato	2 times a day Morning (9am-10am) Evening (4:30pm-5pm)
10.	Mandrill	3nos	0.90kg of apple, Half dozen of banana, 0.40kg brinjal, 0.40kg ripen papaya, 0.20kg sweet potato, 0.30kg red grapes, 0.40kg guava, 0.25kg rice, 0.25kg masoor dal, 0.10kg capsicum, 0.10kg sunflower seed, 0.50kg ground nut, 0.50kg pumpkin, 0.50kg cabbage, 3pcs eggs, 0.30kg pointed gourd	2 times a day Morning (9am-10am) Evening (4:30pm-5pm)
11.	Spectacled langur	2nos	1dozen of banana, 0.20kg grams, 0.20kg apples, 0.20kg pomegranates, 0.10kg green pea, 0.20kg carrot, 0.15kg beans, 0.20kg guava, 0.20kg lettuce, 0.20kg red grapes	2 times a day Morning (9am-10am) Evening (4:30pm-5pm)
12.	Hoolock gibbon	2nos	2pcs of eggs, 0.20kg pomegranate, 0.20kg cucumber, 0.15kg coriander, 0.10kg green pea, 1 dozen of banana, 0.40kg of watermelon, 0.05kg of exotic nutrition, 0.40kg apples, 0.40kg ripen papaya, 0.03kg sunflower seed, 0.30kg sugarcane	2 times a day Morning (9am-10am) Evening (4:30pm-5pm)
13.	Gharial	3nos	6kg live fish	3 days in a week Morning (7am-7:30am)
14.	Turtle & tortoise	55nos	2.25kg big fish live, 0.30kg cabbage, 0.30kg carrot	Morning (9am-10am)
15.	Marsh Crocodiles	4nos	9kg of big live fish, 2kg of chicken	3 days in a week Morning (7am-7:30am)
16.	Reticulated python, Burmese python, Indian rock python	2nos, 2nos, 2nos	10pcs of live white rat, 10-12 live local chicken	2 days in a week Morning (8am-8:30am)
17.	Water monitor lizard	4nos	5kg live fish, 800gm chicken neck	2 days in a week Morning (8am-8:30am)



## VACCINATION SCHEDULE

Sl. No	Species	Vaccinated against disease	Name of the vaccine and the amount administered	Schedule
1.	Felids (Tiger, Lion Leopard, Leopard Cat, Jungle Cat, Fishing Cat)	Herpes Virus, Calcivirus, Panleukopenia, Anti-Rabies Canine Distemper	Biofel PCHR Merial (CDV) 1ml	Annually Annually
2.	Asiatic Elephant	FMD, Haemorrhagic Septicaemia, Black quarter Anti-Rabies Tetanus Anthrax	Triovac 3ml Raksharab 1dose Tetanus toxoid 1dose Anthrax spore vaccine 1dose	Annually Annually Annually Annually
3.	Asiatic Black Bear	Anti-Rabies	Raksharab 1dose	Annually
4.	Gibbon	Anti-Rabies	Raksharab 1dose	Annually

## DEWORMING & FECAL EXAMINATION

Sl. No	Species	Frequency of fecal examination	Frequency of deworming and drug used
1.	Felids (Tiger, Lion Leopard, Leopard Cat, Jungle Cat, Fishing Cat)	Monthly	6 months interval or whenever required and Fenbendazole, Oxfendazole, Ivermectin, Pyrantel, Praziquantel, Febantel
2.	Civet	Monthly	6 months interval or whenever required and Fenbendazole, Albendazole, Oxfendazole, Pyrantel embonate, Febantel
3.	Herbivore, Primates, Bear	Monthly	6 months interval or whenever required and Fenbendazole, Albendazole, Oxfendazole
4.	Gibbon	Monthly	6 months interval or whenever required and Fenbendazole, Oxfendazole, Ivermectin, Pyrantel, Praziquantel, Febantel
5.	Birds (Exotic & Indian)	Monthly	6 months interval or whenever required and Fenbendazole, Albendazole, Oxfendazole, Piperazine, Pyrantel embonate, Febantel, Levamisole

# DISINFECTION & SANITATION SCHEDULE

Maintaining the well-being of captive animals in the zoo is largely reliant on ensuring proper hygiene and sanitation within the enclosures, for the animals themselves, and for their caretakers. At North Bengal Wild Animals Park (Bengal Safari), a routine cleaning and disinfection schedule is followed to uphold cleanliness standards. This includes daily, weekly, bi-weekly, monthly, and annual work schedules to ensure a high level of hygiene and sanitation throughout the zoo premises.

## -: Disinfectant used :-

**Chemical disinfectant:** Vircon S (10g per 1 litre water), Khorsoline (10ml per 1 litre), Virocid (5g per 1 litre), Lime,

**Natural disinfectant:** Turmeric, Neem oil

### Daily Schedule

- Remove any remaining food, feces, and waste.
- Thoroughly inspect the enclosure and clean any fungal growth.
- Disinfect water bowls and refill with fresh water.
- Clean feeding areas and disinfect them.
- Disinfect night shelters.
- Sweep and mop floors as needed.
- Check and clean animal enrichment items.
- Incinerate leftover bones.
- Ensure all feeding stations are clean and disinfected at the herbivore.
- Refill water troughs with fresh water and disinfect them.
- Disinfect visitor walkways.
- Empty and disinfect trash bins.
- Change foot dip regularly.

### Weekly Schedule

- Disinfection through blow flame should be done three times a week.
- The area outside night shelter above 3 meters should be cleaned with Vercon, Butax & turmeric powder three times a week.
- Deep clean all surfaces, including walls, floors, and furniture.
- Clean and rotate enrichment items.
- Inspect and clean air coolers.
- Remove weeds from inside and around the enclosure.
- Disinfect all surfaces with Vercon & Khorsolin spray.
- Thoroughly clean food storage and preparation areas.
- Inspect and sanitize all animal care tools and equipment.
- Pest control measures to be taken in and around the feeding shed.

### Bi-Weekly Schedule (Every 15 Days)

- Clean and maintain large ponds and moats for water quality.
- Check and clean wooden platforms and enrichments.

### Monthly Schedule

- Conduct animal field lopping/cleaning/soil/spraying.
- Water quality checks and cleaning of natural water sources and other water bodies used by safari animals.
- Application of natural disinfectants like turmeric and neem oil for their antimicrobial properties, especially in sensitive areas.
- All floors, walls, roofs of feeding cells, transporting cages, netting, rods to be blow flame sterilized.
- Conduct a detailed inspection of enclosure infrastructure.
- All moat water to be pumped out, desilted, lime washed, and then filled with fresh water.
- Monthly burning of all debris to be done in exhibit/display areas whenever required.
- Liming to be carried out in and around enclosures.
- Perform minor repairs and maintenance tasks.
- Deep clean and disinfect all enrichment items and shelters.
- Deep cleaning of kitchen storage rooms, including shelves, walls, and floors.
- Checking and maintaining vegetation and plant health in enclosures.
- Inspect and deep clean seating areas, playgrounds, and other visitor amenities.
- Conduct a thorough check and cleaning of public restrooms.
- Review and restock hygiene and cleaning supplies.
- Clean and disinfect office spaces and meeting rooms.

### Annual Schedule

- Removal of topsoil in all kraals and intensively used, pacing areas and refilling with fresh sand and soil.
- A thorough deep cleaning and disinfection of all enclosures and facilities.
- Deep cleaning and disinfection of the entire veterinary hospital facility.
- Conduct a comprehensive inspection and overhaul of all enclosures.
- Repaint and refurbish areas as needed.



Fig: Disinfection through spray in the Aviary section



Fig: Disinfection of the utensils in the Kitchen & store



Fig: Disinfection of the surface of wooden chopping platform through blow flame application at Kitchen & Store



Fig: Disinfection through blow flame application in the constrictor house



Fig: Disinfection with  $\text{KMNO}_4$  at kitchen

## HEALTH CHECK-UP OF EMPLOYEES FOR ZOOONOTIC DISEASES

Sl. No.	Name	Designation	Date of Health Check up	Findings of Health Check up
1.	Dr Nick Doley	Veterinary Officer	20.06.2023	Nil for Zoonotic diseases
2.	Shri Biswajeet Sarkar	Veterinary Assistant	20.06.2023	Nil for Zoonotic diseases
3.	Shri Subal Pradhan	Animal Attendant	20.06.2023	Nil for Zoonotic diseases
4.	Shri Raj Thapa	Animal Attendant	20.06.2023	Nil for Zoonotic diseases
5.	Shri Dipu Oraw	Animal Attendant	20.06.2023	Nil for Zoonotic diseases
6.	Shri Sangam Majhi	Animal Attendant	20.06.2023	Nil for Zoonotic diseases
7.	Shri Bibek Roy	Animal Attendant	20.06.2023	Nil for Zoonotic diseases
8.	Shri Rohan Rai	Animal Attendant	20.06.2023	Nil for Zoonotic diseases
9.	Shri Pranab Tamang	Animal Attendant	20.06.2023	Nil for Zoonotic diseases
10.	Shri Bijay Majhi	Animal Attendant	20.06.2023	Nil for Zoonotic diseases
11.	Shri Krishna Adhikari	Animal Attendant	20.06.2023	Nil for Zoonotic diseases
12.	Shri Himu Barman	Animal Attendant	20.06.2023	Nil for Zoonotic diseases
13.	Shri Rafiqul Islam	Animal Attendant	20.06.2023	Nil for Zoonotic diseases
14.	Shri Karan Marandi	Animal Attendant	20.06.2023	Nil for Zoonotic diseases
15.	Shri Aminur Rahman	Animal Attendant	20.06.2023	Nil for Zoonotic diseases
16.	Shri Prasenjit Barman	Animal Attendant	20.06.2023	Nil for Zoonotic diseases
17.	Shri Bijay Uraon	Animal Attendant	20.06.2023	Nil for Zoonotic diseases
18.	Shri Rakesh Tamang	Animal Attendant	20.06.2023	Nil for Zoonotic diseases
19.	Shri Shubham Sharma	Animal Attendant	20.06.2023	Nil for Zoonotic diseases
20.	Shri Ramesh Mardi	Animal Attendant	20.06.2023	Nil for Zoonotic diseases
21.	Shri Unish Saibo	Cook	20.06.2023	Nil for Zoonotic diseases
22.	Shri Parimal Barman	Patawala	20.06.2023	Nil for Zoonotic diseases
23.	Shri Kamal Roy	Patawala	20.06.2023	Nil for Zoonotic diseases
24.	Shri Jogesh Barman	Patawala	20.06.2023	Nil for Zoonotic diseases
25.	Shri Satan Narjinary	Patawala	20.06.2023	Nil for Zoonotic diseases
26.	Shri Rajen Oraon	Animal Attendant	20.06.2023	Nil for Zoonotic diseases
27.	Shri Bappa Barman	Animal Attendant	20.06.2023	Nil for Zoonotic diseases
28.	Shri Parimal Tamang	Animal Attendant	20.06.2023	Nil for Zoonotic diseases
29.	Shri Suryaman Rai	Animal Attendant	20.06.2023	Nil for Zoonotic diseases
30.	Shri Ganesh Saibo	Animal Attendant	20.06.2023	Nil for Zoonotic diseases
31.	Shri Biswajit Roy	Animal Attendant	20.06.2023	Nil for Zoonotic diseases
32.	Shri Barka Majhi	Animal Attendant	20.06.2023	Nil for Zoonotic diseases
33.	Shri Gopal Biswakarma	Animal Attendant	20.06.2023	Nil for Zoonotic diseases
34.	Shri Rakesh Majhi	Animal Attendant	20.06.2023	Nil for Zoonotic diseases



## Developmental works carried out during 2023-24

Throughout the year, several initiatives have been initiated to enhance the zoo's overall progress, focusing on improving animal habitats, veterinary care, and visitor amenities.

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## Inauguration of Blackbuck & hog deer enclosure



The blackbuck and Hog deer enclosures within the herbivore area features two hectares of separate fencing. It includes a fodder plantation and a water body, along with food and resting sheds for the animals.

- The enclosure is crafted to resemble the blackbucks' and Hog deer's natural habitat, offering ample space for grazing and roaming.
- The thoughtfully planned fodder plantation ensures a consistent food supply tailored to their dietary requirements.
- A water body provides both a serene environment and a crucial source of hydration and cooling during warmer periods.

Moreover, the enclosure incorporates a food shed for supplementary feeding to maintain a balanced diet for the blackbucks. The resting shed offers a safe and shaded space for the animals to seek refuge from extreme weather conditions.

Visitors can observe these elegant animals from designated safari bus to witness their behaviors and interactions in a natural setting. Educational displays within the enclosure inform guests about the blackbucks' and Hog deer's significance in the ecosystem, their conservation status, and ongoing preservation efforts.

This well-designed enclosure not only promotes the welfare of the blackbucks but also offers an engaging and enlightening experience for all visitors.

The inaugurated Gibbon enclosure is spread over an approximately 1100 square metered area with a night shelter. This enclosure has been designed to provide a safe and comfortable living space for the Gibbons. The enclosure is spacious with plenty of room for the Gibbons to move around and explore. The night shelter provides a cozy space for the Gibbons to rest and sleep in peace. The enclosure has been fitted with various enrichment features to keep the Gibbons engaged and stimulated. These features include swinging ropes, climbing structures, and platforms that offer various vantage points. The Gibbons will be able to enjoy a diverse diet consisting of fruits, vegetables, and other foods that are appropriate for their needs. The Gibbon enclosure has been constructed with the utmost care and attention to detail, ensuring that the Gibbons will be able to live happily and healthily in this new home.

## Inauguration of Western Hoolock Gibbon enclosure



## Inauguration of Museum



Museum of Nature Interpretation Centre, is a great addition to Bengal Safari. It will provide visitors with a unique opportunity to learn about the diverse flora and fauna of the region. About 200 specimens obtained from Padmaja Naidu Zoological Park in Darjeeling are sure to be a highlight of the museum's educational exhibits. With the inauguration, the museum is now open to the public and ready to welcome visitors of all ages.

## Installation of Giant P4 Screen



Bengal Safari Park has installed a large P4 screen at the auditorium hall of NIC, which will enhance the educational experience for visitors, particularly for school and college students. This screen will allow for interactive and informative presentations, documentaries, and live feeds from various enclosures within the park, providing a deeper appreciation for the natural world.

Bengal Safari Park has opened 'Nakshatra Vanam', a medicinal garden that merges ancient astrology with modern conservation efforts. This unique addition to the park showcases a curated selection of medicinal plants associated with the nakshatras of Indian astrology, offering visitors a chance to learn about the herbs and plants linked to their birth constellations. The introduction of 'Nakshatra Vanam' is a testament to the park's commitment to diverse and enriching experiences for its visitors, as well as to the preservation of traditional knowledge and the conservation of medicinal plants.

## Nakshatra Vanam



## Zoo Souvenir Shop



Inaugurated on March 3, 2023, by the Forest Minister of West Bengal, our Zoo Souvenir Shop at Bengal Safari offers a unique shopping experience that showcases the rich cultural heritage of West Bengal. This vibrant space is dedicated to promoting the exquisite handcrafted items created by talented artisans from across the state.

# ZOO EDUCATION



## NORTH BENGAL WILD ANIMALS PARK BENGAL SAFARI

CELEBRATING

BIRTH ANNIVERSARY OF THE MAN BEHIND CORBETT NATIONAL PARK  
AND A NATURE CONSERVATIONIST

# JIM CORBETT

25TH JULY, 1875 - 19TH APRIL, 1955

AND

## INTERNATIONAL TIGER DAY



Follow



## List of Educational & Awareness Programmes of NBWAP during 2023-24

Date	Event	Type	Details	No of Participants
05.04.2023	District-level Nature Study Camp under the National Green Corps Programme	Zoo Outreach Programme	Students were taken on a nature trail and visited a butterfly conservation area, promoting wildlife education and awareness. As part of the Mission LIFE campaign, students identified 75 actionable points to fulfill SDGs (Sustainable Development Goals) related to the environment, demonstrating their commitment to making a positive impact.	120
22.04.2023	Celebration Of Earth Day	Educational & Awareness programme	Ceremonial Plantation & Poster making programme	30
05.05.2023 to 05.06.2023	Celebration of MISSION LIFE	Mass Awareness Campaign	The park's Education team conducted around 120 different programs to highlight the importance of sustainable practices like waste reduction, recycling, and responsible consumption. These initiatives included Save Energy, Save Water, Plantation, Cleanliness Drive, Seed Collection, Healthy Lifestyle, Kitchen Gardening, Tree hugging activities, Animal Keeper Talk, and awareness on different types of medicinal plants, conservation of butterflies, eco-friendly modes of transport, rainwater harvesting system, use of vermicompost, and reducing global warming.	2000
22.05.2023 to 05.06.2023	Biodiversity camp 2023	Zoo Outreach Programme	The event featured a range of activities, including workshops, presentations, and hands-on experiences, all designed to engage students with the natural world and promote conservation efforts.	600
05.06.2023	Celebration of World Environment Day	Educational & Awareness programme	Bengal Safari organized numerous awareness programs, including "Go Green with Cycle," a tree plantation program with the Divyangjan of Perana Educational Centre, a poster-making contest on the theme "Say No To Plastic," and a Skit play on plastic pollution. These events were designed to raise awareness about environmental issues and promote sustainable practices.	150
06.07.2023	World Zoonosis Day	Educational & Training program	One day hands on workshop focused on various aspects of bird care, including handling techniques, dietary requirements, enrichment activities, early disease detection, and maintaining bio security in aviaries.	40
14.07.2023 to 20.07.2023	Celebration of Banmahotsav 2023	Educational & Awareness programme	In an effort to promote environmental conservation, a week-long plantation drive was held at the North Bengal Wild Animals Park (Bengal Safari) as part of the Banmahotsav 2023 event. The event was attended by a diverse group of participants including students, forest officials, zoo staff, and visitors.	150
29.07.2023	Observance of International Tiger Day	Educational & Awareness programme	The event was attended by students from St. Michael School for Girls, Siliguri and included a range of exciting activities, including talks on tiger conservation, a tour of the tiger safari, and a documentary screening on tiger conservation. The students were also treated to fun activities such as tiger face mask decorating and dressing up as tigers. The event was a tremendous success, with the students displaying remarkable enthusiasm and involvement throughout the day.	120

# List of Educational & Awareness Programmes of NBWAP during 2023-24

Date	Event	Type	Details	No of Participants
12.08.2023	Celebration of World Elephant Day	Zoo Outreach Programme	To commemorate World Elephant Day, national parks, sanctuaries, and zoos in North Bengal held an event in high spirits. The North Bengal Wild Animals Park, commonly known as Bengal Safari, was the host venue for the celebration, which included participation from a variety of groups, including school students, NGOs, JFMC members, and forest staff.	60
15.08.2023	Celebration of 77th Independence Day	Commemorative observance	Bengal Safari commemorated 77th Independence Day by paying tribute to our nation's remarkable journey towards freedom and unity.	All Staff
22.09.2023	Celebration of International Rhino Day	Zoo Outreach Programme	North Bengal Wild Animals Park hosted a special event in honor of International Rhino Day alongside students from Vidyasagar School, Naxalbari. The celebration offered a range of activities, including creative competitions such as mask-making and model-building, bringing attention to the importance of rhino conservation. The event also included a vibrant procession and a visit to Rhino Bheem, making it a memorable experience for everyone involved.	50
01.10.2023	Participation in the Swachh Bharat Mission	Nationwide Cleanliness Campaign	On October 1, 2023, at 10:00 AM, we actively participated in the Swachh Bharat Mission, as part of the initiative; Bengal Safari has implemented several measures such as installing dustbins at strategic locations, increasing the frequency of cleaning activities, and conducting awareness campaigns on the importance of cleanliness and hygiene. We also initiated the transition to a plastic-free zone and successfully cleaned 500 square meters of the zoo premises, collecting 15 kilograms of dry leaves.	25
2.10.2023 to 8.10.2023	Celebration of wildlife week	Zoo Outreach Programme	Engaging with the community, especially in rural areas and near wildlife habitats, was a crucial part of the event. Awareness sessions and quizzes were organized in government schools located in rural areas and near tea gardens, educating students about the importance of wildlife conservation and responsible coexistence with wildlife.	1000
			Bird watching camp with Victoria college, Kolkata	25
12.11.2023 to 14.11.2023	Celebration of 2nd Annual Zoo Festival	Zoo Outreach Programme	Throughout the festival, Bengal Safari offered engaging and educational programs, including wildlife themed film screenings, fun quizzes, and interactive sessions such as "Talking About Your Favourite Animals." Among the highlights was the Nature Trail, a guided journey through the Safari's rich landscapes, offering a deeper understanding of local flora and fauna. Another captivating feature was the "Best Out of Waste" workshop, fostering creativity and sustainability. A special treat awaited children under 12 years old as they received complimentary entry passes. Participants were recognized and appreciated with special Zoo Festival certificates as tokens of gratitude for their enthusiastic participation.	350

# List of Educational & Awareness Programmes of NBWAP during 2023-24

Date	Event	Type	Details	No of Participants
14.11.2023	Celebration of Children's Day	Zoo Outreach Programme	We had the privilege of commemorating Children's Day in the esteemed company of specially-abled children, illuminating the day with unparalleled joy and camaraderie. On this momentous occasion, we distributed essential winter supplies and thoughtfully curated souvenirs to these remarkable children.	50
25.12.2023	Celebration of Christmas Day	Zoo Outreach Programme	Bengal Safari celebrated Christmas by unveiling a special pair of Mandrills for visitors. The staff dressed up as Santa Claus and distributed Santa caps and chocolates to children.	500
15.01.2024	Tranquilization Training Programme For Wildlife Management At Bengal Safari	Educational & Training Programme	On January 15th, 2024, Bengal Safari conducted the Tranquilization Training Programme for Wildlife Management. Dr. Nick Doley, the Veterinary Officer, NBWAP; Staff of the Veterinary section, Staff of the Security section, and all animal attendants participated in the program.	30
21.01.2024	Celebration of 9th Foundation Day	Anniversary observance	Bengal Safari held a special event for its visitors. Visitors were able to get up close and personal with some of the zoo's most beloved residents, including the majestic Bengal tiger and the adorable western hoolock gibbon.	100
26.01.2024	Commemoration of Republic Day of India	Commemorative observance	Bengal Safari celebrated India's 75th Republic Day by hosting the national flag of India. The Director, Assistant Director, Range Officer and other staff members of the zoo were present to witness the flag hoisting ceremony.	All Staff
03.03.2024	Celebration of World Wildlife Day	Educational & Awareness programme	North Bengal Wild Animals Park initiated a plastic cleanliness drive in the parking area, reinforcing its dedication to a plastic-free zone within the park.	20



# Important Events and Happenings in the Zoo

## District-level Nature Study Camp under the National Green Corps Programme

The Nature Study Camp for Eco-Club Students of North Bengal was a resounding success, bringing together students, educators, and dignitaries to promote environmental education and awareness. Here are some of the highlights of the program:

- The program was held at Bengal Safari Park, Siliguri, providing a stunning natural setting for the students to learn about the environment.
- Prominent dignitaries, including Dr. Rajesh Kumar IPS, Member Secretary of WBPCB, Ms. Roshni Sen IAS, and Dr. Kalyan Rudra, Chairman of WBPCB, delivered speeches that inspired and educated the students.
- The technical session provided an opportunity for students to share their feedback and engage in discussions about environmental issues.
- Students were taken on a nature trail and visited a butterfly conservation area, promoting wildlife education and awareness.
- As part of the Mission LiFE campaign, students identified 75 actionable points to fulfill SDGs (Sustainable Development Goals) related to the environment, demonstrating their commitment to making a positive impact.
- The program ended on a high note with students and teachers taking pledges to reduce the use of single-use plastic, plant saplings, and collect e-waste, showing their dedication to creating a sustainable future.

Overall, the Nature Study Camp was an excellent initiative that provided students with valuable knowledge and experiences that will help them become responsible stewards of the environment.



## Celebration of Earth Day: 22.04.2023

Bengal Safari organized a tree plantation program on Earth Day 2023. The event was attended by Shri V.K. Chopra IFS, PCCF (Retd.), Uttar Pradesh, Director and Assistant Director of Bengal Safari, and other forest officials. The program involved planting fruit and medicinal plants and raising awareness about the importance of protecting the ecosystem. Students also created posters to highlight this message.



## Celebration of **MISSION LIFE** at Bengal Safari:

Bengal Safari celebrated Mission LiFE, a mass awareness campaign initiated by Prime Minister Narendra Modi, from May 5 to June 5, 2023. The park's Education team conducted around 120 different programs to highlight the importance of sustainable practices like waste reduction, recycling, and responsible consumption. These initiatives included Save Energy, Save Water, Plantation, Cleanliness Drive, Seed Collection, Healthy Lifestyle, Kitchen Gardening, Tree hugging activities, Animal Keeper Talk, and awareness on different types of medicinal plants, conservation of butterflies, eco-friendly modes of transport, rainwater harvesting system, use of vermicompost, and reducing global warming. Approximately 2000 visitors participated in these awareness programs.



# BIODIVERSITY CAMP 2023



The biodiversity camp was a great success, with 600 students from various districts and states participating. The event included workshops, presentations, and hands-on activities to engage students with nature and promote conservation. Students heard from experts and learned about efforts to protect ecosystems.

The resource persons were Sri Ashis Kumar Ray, an orchid specialist, Sri Biplab Kumar Ray, an ornithologist, Mr. Avijan Saha, an environmentalist, Mr. Ritwik Biswas, and Mr. Rehan Sarkar, a wildlife photographer. Their combined expertise gave campers a well-rounded understanding of the park's biodiversity.

The park's education team, including Miss Sangita Basak, Miss Anjali Chhetri, and Miss Yanchen Lama, provided valuable support, ensuring an educational experience for all campers.

Many of the students who participated in the camp expressed a newfound appreciation for the importance of biodiversity and a desire to take action to support conservation efforts in their communities. The success of this event highlights the value of investing in educational programs that promote environmental awareness and stewardship, particularly among young people who will play a critical role in shaping the future of our planet.

The North Bengal Wild Animals Park hosted its first biodiversity camp for two weeks, from May 22nd to June 5th, and featured programs such as bird watching, plant and animal identification, and nature walks. Other activities included presentations on orchids, awareness on wildlife and biodiversity conservation, and a screening of a documentary on animal reintroduction to the wild.



# World Environment Day Celebration



Bengal Safari hosted a successful World Environment Day 2023 celebration, in attendance of Director, Assistant Director, and Range Officer of NBWAP, as well as Ashish Kr Roy, recipient of Shikhsaratna, Education team of NBWAP, and other zoo staff. The festivities were also attended by students from various schools and colleges. The event marked the conclusion of the Biodiversity Camp that began on May 22nd. Throughout the camp, Bengal Safari organized numerous awareness programs, including "Go Green with Cycle," a tree plantation program with the Divyangjan of Perana Educational Centre, a poster-making contest on the theme "Say No To Plastic," and a Skit play on plastic pollution. These events were designed to raise awareness about environmental issues and promote sustainable practices. The poster-making competition and Skit play were particularly successful in highlighting the detrimental effects of plastic pollution on our planet. They were a great way to engage the community and educate people about the significance of environmental conservation.

In celebration of World Zoonosis Day, on 5th July 2023, the North Bengal Wild Animal Park (NBWAP) organized a comprehensive one-day workshop at the Nature Interpretation Centre of Bengal Safari. This hands-on workshop focused on various aspects of bird care, including handling techniques, dietary requirements, enrichment activities, early disease detection, and maintaining biosecurity in aviaries. The event garnered significant participation from professionals in the field, including Mr. Indranil Bhattacharya - an esteemed avian expert, as well as the Director, Assistant Director, Range Officer, and other forest officials from NBWAP.

Attended by 60 dedicated zoo keepers/animal attendants from different zoos located in West Bengal, this workshop served as a valuable platform for enhancing knowledge and practical skills related to biosecurity measures in aviaries. Participants had the opportunity to gain a deeper understanding of the significance of biosecurity practices while also gaining hands-on experience with bird handling and disease detection techniques. By providing new knowledge and insights into these critical areas of animal care, the workshop equipped zookeepers/animal attendants with enhanced abilities to ensure optimal care for exotic birds housed within their respective zoos.

## Celebration of World Zoonoses Day





## Celebration of Banmahotsav

In an effort to promote environmental conservation, a week-long plantation drive was held at the North Bengal Wild Animals Park (Bengal Safari) as part of the Banmahotsav 2023 event. The event was attended by a diverse group of participants including students, forest officials, zoo staff, and visitors. The initiative was successful in planting approximately 1500 indigenous grafted fruit saplings in various areas within the zoo.

On July 29th 2023, North Bengal Wild Animals Park celebrated a spectacular event to mark International Tiger Day. The day was made even more special with over 100 students from St. Michael School for Girls in Siliguri in participation. The event was attended by forest officials and included a range of exciting activities, including talks on tiger conservation, a tour of the tiger safari, and a documentary screening on tiger conservation. The students were also treated to fun activities such as tiger face mask decorating and dressing up as tigers. The event was a tremendous success, with the students displaying remarkable enthusiasm and involvement throughout the day.

## International Tiger Day observance





## Observance of India's Independence Day

On 15th August 2023, Bengal Safari commemorated 77th Independence Day by paying tribute to our nation's remarkable journey towards freedom and unity.



## Celebration of World Elephant Day

To commemorate World Elephant Day, national parks, sanctuaries, and zoos in North Bengal held an event in high spirits. The North Bengal Wild Animals Park (Bengal Safari) was the host venue for the celebration, which included participation from a variety of groups, including school students, NGOs, JFMC members, and forest staff. The goal of the event was to raise awareness about the conservation of these vital animals. The celebration was graced by Sri Rajendra Jakher, IFS, CCF, Wildlife North Circle, and other forest officials.

Several notable schools, including Salugara High School, Bagdogra Balika Vidyalaya (H.S), Chowpukhuria JHS, Nishkalanka Mata English School, KGTM College, Ramakrishna Mission, Smile Group (NGO), and many others, participated in the event. Students joined the procession to save elephants, demonstrating their reverence for the animals and raising awareness among the public about the cause.

The event began with students feeding the elephants, fostering a sense of empathy and connection with these majestic creatures. The students also participated in numerous activities, including a cake-cutting ceremony, quiz competition, extempore speeches, recitation, clay model making, mask making, and a poster-making competition.

It concluded with a prize distribution ceremony, which added an unforgettable touch to the celebration.





## Celebration of World Rhino Day

North Bengal Wild Animals Park hosted a special event in honor of International Rhino Day alongside students from Vidyasagar School, Naxalbari. The celebration offered a range of activities, including creative competitions such as mask-making and model-building, bringing attention to the importance of rhino conservation. The event also included a vibrant procession and a visit to Rhino Bheem, making it a memorable experience for everyone involved.



On October 1, 2023, at 10:00 AM, we actively participated in the Swachh Bharat Mission, as part of the initiative, Bengal Safari has implemented several measures such as installing dustbins at strategic locations, increasing the frequency of cleaning activities, and conducting awareness campaigns on the importance of cleanliness and hygiene. We also initiated the transition to a plastic-free zone and successfully cleaned 500 square meters of the zoo premises, collecting 15 kilograms of dry leaves. The staff and visitors of Bengal Safari have embraced the initiative with enthusiasm and are working towards making the park a model of cleanliness and sustainability. The park's management aspires to inspire others to join the Swachh Bharat Mission and contribute towards building a cleaner and healthier India for all.

## Bengal Safari joined the Swachh Bharat Mission initiative





## Zoo Outreach Event in Celebration of 69th Wildlife Week 2023.

### Zoo Outreach Programmes:

#### Digital Promotion (Day 1: 02/10/2023):

A striking digital informative poster was designed, showcasing the essence of Wildlife Week and emphasizing the need for wildlife conservation. Banners displaying key messages were strategically placed inside and outside the zoo area to reach a wider audience.

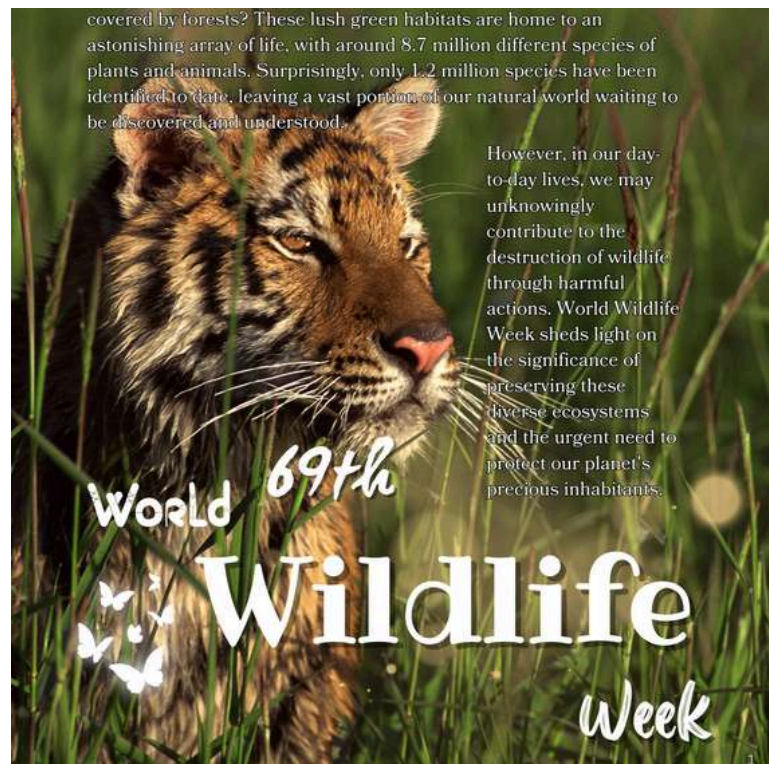
#### Educational Awareness Program (Day 2: 03/10/2023):

A comprehensive brochure was created, providing essential insights into the significance of Wildlife Week, Indian wildlife, conservation efforts, responsible tourism, and the vital role of students and the public in conservation. The brochure was widely distributed, both physically and through social media platforms, ensuring maximum outreach to schools, colleges, and zoo visitors.

The 69th Wildlife Week was celebrated with great enthusiasm and purpose at North Bengal Wild Animals Park (Bengal Safari). The event saw a diverse range of participants, including **1,000 students from schools, colleges, and other visitors**. The week-long program featured various activities aimed at raising awareness about wildlife conservation and fostering a sense of responsibility towards our natural heritage.

covered by forests? These lush green habitats are home to an astonishing array of life, with around 8.7 million different species of plants and animals. Surprisingly, only 1.2 million species have been identified to date, leaving a vast portion of our natural world waiting to be discovered and understood.

However, in our day-to-day lives, we may unknowingly contribute to the destruction of wildlife through harmful actions. World Wildlife Week sheds light on the significance of preserving these diverse ecosystems and the urgent need to protect our planet's precious inhabitants.



## Community Engagement (Days 3 and 4: 04/10/2023 and 05/10/2023)

Engaging with the community, especially in rural areas and near wildlife habitats, was a crucial part of the event. Awareness sessions and quizzes were organized in government schools located in rural areas and near tea gardens, educating students about the importance of wildlife conservation and responsible coexistence with wildlife.



## Bird Watching Program (Day 5: 06/10/2023)

A bird-watching program was organized in **collaboration with the Victoria Institute, Kolkata**. Students were given the opportunity to observe and learn about various bird species, promoting a deeper understanding of the avian ecosystem.



## Touching Hearts (Day 6: 07/10/2023):

The sixth day witnessed the involvement of children from a childhome in Sikkim, who showcased their artistic talents through drawings with profound messages advocating for the conservation of wildlife, forests, and Earth. Their participation deeply touched the hearts of everyone present.



## Seminars and Conclusion (Last Day: 08/10/2023):

The final day of the Wildlife Week concluded with an insightful seminar on wildlife, fostering a platform for meaningful discussions and knowledge sharing among participants. The seminar served as an apt closure to the event, emphasizing the importance of collective efforts in wildlife conservation.

The celebration of the 69th Wildlife Week at Bengal Safari was a resounding success, reaching diverse audiences and inspiring a collective sense of responsibility towards wildlife and nature. The event underscored the importance of educational outreach and community engagement in shaping a sustainable future for our wildlife and ecosystems.



# Celebration of Annual Zoo Festival

Among the highlights was the **Nature Trail**, a guided journey through the Safari's rich landscapes, offering a deeper understanding of local flora and fauna. Participants immersed themselves in the splendour of nature, enhancing their appreciation for the environment.



A special treat awaited children under 12 years old as they received **complimentary entry passes**. These passes granted them exclusive access to explore the wonders of the on-foot zoo, the Reptile Zone, the enchanting Butterfly Garden, Nakshatra Vanam (Medicinal Plant Garden), the Nature Interpretation Centre, the Children's Play Area, and various other amenities. This gesture aimed to spark curiosity and inspire a lifelong -



Bengal Safari proudly hosted its much-anticipated 2nd **Annual Zoo Festival** from the **12th to the 14th of November**, a harmoniously blended education, entertainment, and ecological awareness. This year's festival showcased a diverse range of activities designed to engage visitors of all ages.



Another captivating feature was the **"Best Out of Waste"** workshop, fostering creativity and sustainability. Visitors explored innovative ways to repurpose materials, emphasizing the importance of recycling and responsible consumption.



love for nature among the younger audience. Notably, alongside enthusiastic visitors, several children's homes actively participated in the festival, contributing to a warm and inclusive atmosphere.

Throughout the festival, Bengal Safari offered engaging and educational programs, including wildlife themed film screenings, fun quizzes, and interactive sessions such as "Talking About Your Favourite Animals." Participants were recognized and appreciated with special Zoo Festival certificates as tokens of gratitude for their enthusiastic participation.



## ZOO FESTIVAL CONTINUATION

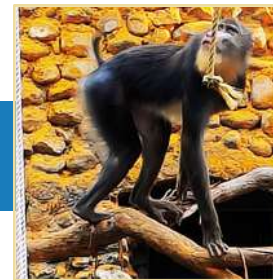
Notably, the festival welcomed the active involvement of children's homes, fostering a sense of community and inclusivity. The 2nd Annual Zoo Festival at Bengal Safari epitomized a commitment to holistic education, eco-consciousness, and community engagement. It served as a testament to the Safari's dedication to wildlife conservation and nurturing a deeper connection between people and nature.

# Celebration of Children's Day

The culmination of Zoo Festival 2023 marked a poignant celebration of unity and altruism. Amidst the jubilant festivities, we had the privilege of **commemorating Children's Day** in the esteemed company of **specialty-abled children**, illuminating the day with unparalleled joy and camaraderie. Additionally, on this momentous occasion, we distributed essential winter supplies and thoughtfully curated souvenirs to these remarkable children.

Their radiant smiles upon receiving these gifts were a testament to the warmth of generosity and inclusivity shared on this day.





## Celebration of Christmas Day



Bengal Safari celebrated Christmas by unveiling a pair of mandrills for visitors to delight in. Dressed as Santa Claus, the team distributed Santa hats and chocolates to children, with the Director and Assistant Director actively engaging in the festivities. The zoo was embellished with festive banners, and warm Merry Christmas wishes were extended to all guests. The lively and engaging mandrills captivated visitors, spreading cheer throughout the event. Moreover, the animal caretakers had thoughtfully arranged special treats for the animals, enhancing the overall festive spirit.

On January 10th, 2024, approximately 55 trainees from the Dow Hill Forest School's 69th batch of Forest Guards and on February 25th, 2024, approximately 55 trainees from the States Forest Training Institute, Hijli 71st batch of Forest Guards visited the Bengal Safari during their educational excursion. They were able to enjoy both a guided foot tour of the zoo and all the safaris.

The safari was a highlight of the trip, providing a chance to observe the animals in their natural habitats. The trainees were introduced to a diverse range of species, which left them awestruck. The zoo's education assistant delivered an informative presentation about conservation, zoo management's role in protecting wildlife, the zoo's accomplishments, and the Bengal Safari's impact on socio-economic development. The trainees were inspired to become conservation advocates and to promote sustainable practices in their future work as forest guards.

## Educational Excursion of Forest Guard Batch at Bengal Safari



## Tranquilization training programme for wildlife management



On January 15th, 2024, Bengal Safari conducted the Tranquilization Training Programme for Wildlife Management. Dr. Nick Doley, the Veterinary Officer, NBWAP; Staff of the Veterinary section, Staff of the Security section, and all animal attendants participated in the program.

This training programme is crucial for ensuring the safety and well-being of animals within the park. It equips park staff with the necessary skills to properly use tranquilizers and safely immobilize animals for medical procedures or relocation.

# Glimpses of Educational Programmes





Ensuring  
Seasonal  
Comfort

# SUMMER Precautionary Measures in Animal Enclosures, Safari areas and Night Shelters:

During the summer season, a series of comprehensive precautionary measures were undertaken in the animal enclosures and night shelters to ensure the health and well-being of the animals. These measures were essential to prevent heat stress, maintain hygiene, and to ensure adequate hydration. The following steps were diligently followed:

**1. Provision of Shade:** Additional shade structures were installed in the enclosures to provide ample protection from the intense summer heat.

**2. Cooling Systems:** Sprinkler systems in every enclosure, kraal and cooler systems in every shelter were utilised to keep the animals cool and comfortable during the hottest parts of the day.

**3. Increased Water Supply:** Regular monitoring and refilling of water vessels and ponds were ensured to provide a continuous supply of fresh and clean water for drinking and bathing.

**4. Electrolyte Solutions:** Oral rehydration and electrolyte solutions were made available to animals to prevent dehydration and maintain their electrolyte balance.

**5. Dietary Adjustments:** The animals' diets included fresh fruits and vegetables with high water content to help keep them hydrated.

**6. Enclosure Maintenance:** Regular cleaning and maintenance of enclosures and night shelters were conducted to ensure a hygienic environment and prevent the build-up of waste and debris.

**7. Health Monitoring:** Increased frequency of health checks and monitoring of animals for signs of heat stress or dehydration were done to address any issues promptly.

**8. Fans and Ventilation:** Portable fans and improved ventilation systems were used in night shelters to enhance airflow and reduce temperatures.



**9. Shallow Water Pools:** Shallow water pools were maintained in the enclosures to allow animals to cool off and regulate their body temperature.

**10. Soil Moisture:** Regular watering of the ground in enclosures was done to keep the soil moist and reduce dust, which could cause respiratory issues.

**11. Enclosure Enrichment:** Enrichment activities, such as ice blocks and frozen fruits with treats and toys, were provided to keep animals engaged and help them cope with the heat.

**12. Water Quality Maintenance:** Ensuring the quality of water in ponds and pools by regular cleaning and filtration to prevent the growth of harmful bacteria and algae.

# MONSOON

## Precautionary Measures in Animal Enclosures, Safari areas and Night Shelters:

During the monsoon season, a series of comprehensive precautionary measures were undertaken in the animal enclosures and night shelters to ensure the health and well-being of the animals. These measures were essential to prevent water logging, maintain hygiene, and to reduce the risk of infections. The following steps were diligently followed:

**1. Preventing Water Logging:** Regular cleaning of outlets was performed to prevent water logging in the animal night shelters and enclosures to ensure that the habitat remains dry and comfortable.

**2. Biosecurity measures:** A strict disinfection routine was maintained, involving the application of khorsolin, turmeric, Virkon, and Virocid to mitigate the spread of infections and diseases.

**3. Cleaning and Weeding:** Enclosures and night shelters, including shades and roofs, were regularly cleaned and weeded to prevent parasitic, microbial, and fungal infections.

**4. Blow Flame Application:** The frequency of burning through blow flame application was increased as an additional measure to ensure thorough disinfection and hygiene.

**5. Water Pond Maintenance:** Thorough cleaning of water ponds was carried out to provide clean drinking water and to reduce the risk of waterborne diseases.

**6. Moss, Algae & Fungus removal:** Regular scraping and removal of mosses and algal growth from animal night shelters, enclosures, and enrichments made up of perishable materials were conducted to maintain a clean and hygienic environment.

**7. Increased Frequency of Stool Tests:** The frequency of stool tests was increased to monitor and promptly address any health issues among the animals.

**8. Use of Quick Lime:** Quick lime was applied for disinfection purposes to strengthen the biosecurity measures in order to prevent infectious diseases.

**9. Fodder Collection Precautions:** Fodder collection for herbivores was strictly avoided from waterlogged areas to prevent the introduction of contaminated food.

**10. Oral Rehydration Solutions:** The provision of oral rehydration solutions was made available to animals to help them stay hydrated and healthy.

**11. Floor Drying:** Floors in the animal night shelters were cleaned using drier or dry cloth materials to keep the shelters dry and free from dampness.

**12. Increase in Aviary Nest Boxes:** The number of nest boxes in the aviary section was increased to provide ample shelter for the birds during the monsoon season.

**13. Flood Prevention Measures:** As two natural streams flow within the park, distillation was undertaken to avert flooding during the monsoon, ensuring the safety and stability of the animal habitats.



# WINTER

## Precautionary Measures in Animal Enclosures, Safari areas and Night Shelters:

During the winter season, a series of comprehensive precautionary measures were undertaken in the animal enclosures and night shelters to ensure the health and well-being of the animals. These measures were essential to prevent cold stress, maintain hygiene, and ensure adequate warmth. The following steps were diligently followed:

**1. Provision of Warm Shelters:** Additional bedding and insulation were provided in the animal night shelters to offer warmth and comfort during the colder nights.

**2. Heating Systems:** Use of heaters and heat lamps in night shelters to maintain a comfortable temperature for the animals, especially for those sensitive to cold.

**3. Dietary Adjustments:** Nutrient-rich and energy-dense foods were included in the animals' diets to help them maintain body heat and energy levels.

**4. Increased Feeding Frequency:** The frequency of feeding was increased to ensure animals receive sufficient calories to cope with the cold.

**5. Water Supply Management:** Regular monitoring and maintenance of water supply systems to ensure animals have access to fresh, elevated-temperature water.

**6. Health Monitoring:** Increased frequency of health checks to monitor animals for signs of cold stress or illness, allowing for prompt intervention if necessary.

**7. Enclosure Maintenance:** Regular cleaning and maintenance of enclosures and night shelters to ensure a hygienic environment and reduce the risk of infections.

**8. Straw and Hay Bedding:** Providing ample straw and hay bedding in enclosures and shelters to offer additional warmth and insulation.

**9. Enclosure Enrichment:** Enrichment activities such as providing warm hiding spots and heated platforms to keep animals engaged and comfortable.

**10. Monitoring Outdoor Access:** Limiting outdoor access during the coldest periods and ensuring animals have the option to retreat to warm shelters.

**11. Biosecurity measures:** A disinfection routine was maintained, involving the application of khorsolin, turmeric, Virkon, and Virocid; burning through blow flame application to mitigate the spread of infections and diseases.

**13. Hydration:** Ensuring animals remain hydrated by providing warm water during feeding times to encourage drinking.

**14. Protective Coverings:** Using tarpaulins and other coverings to protect open enclosures from cold waves, maintaining a dry and warm environment.

These measures were crucial in maintaining the overall health and comfort of the animals during the Summer, monsoon & winter period, demonstrating the zoo's commitment to providing a safe and nurturing environment for its inhabitants.



# RESEARCH WORK CARRIED OUT AND PUBLICATION



# Ongoing Projects

## Project 1: The Study of Hematological and Biochemical Values of Captive Asiatic Elephant (*Elephas maximus*).

- The initial chapters on the introduction and literature review were compiled.
- Between October to November, the first field visit to Jaldapara National Park and Gorumara National Park was completed. Twenty-three (23) individual elephants from Jaldapara and ten (10) individual elephants from Gorumara National Park were sampled. The blood samples were processed at the veterinary hospital, NBWAP for Hematology, and serum biochemistries evaluation.

**Ongoing work and plan:** Descriptive statistics and the preparation of interim reports are currently underway. Simultaneously, efforts to secure permission from the respective dignitaries for the second field visit are in progress.

## Project 2: Study on Dung/Scat Analysis of Herbivore Animals To Analyse The Presence of Gut Parasites.

- 272 stool samples of various animal species housed within enclosures and safari areas were collected and analysed for gastrointestinal parasites. Stool test reports were prepared.
- All raw data have been fed in an Excel sheet. A master data sheet will have been prepared for future data analysis.
- Chapter 1 on introduction and literature review has been completed, reviewed, revised, and finalized for the project report.

**Ongoing work and plan:** collection and analysis of stool samples for endoparasite prevalence is going on. Chapter 2 titled Study Location and Surveillance annotation is in progress.

## Project 3: Captive Breeding & Management of Bengal Tiger.

- Chapter 1 on the Introduction and literature review has been completed by the research scholar. The chapter has been reviewed and is being revised.
- Chapter 2 titled 'The Behavioural Pattern of Captive Tigers in Enclosures vs Safari Areas' has been compiled.
- Chapter 3 titled 'Determination of the frequency of occurrence of resting, exploring, and stereotypic behaviour in captive tigers at NBWAP' has been compiled.

**Ongoing work and plan:** a visitor survey is one of the objectives of the project, and will be worked on by the scholar. Baseline hematobiochemical parameters will be examined, along with behavioral observation in combination with the evaluation and improvement of interim reports. A case report for publication purposes will be written and submitted to a popular veterinary journal.

## Publications during 2023-24.

**A Note on Captive Rearing of Common mine (*Papilio clytia*) at North Bengal Wild Animals Park, West Bengal. *Prithivya*. 4(1):5-11. -Pariyar Prishka, Sarkar Kamal., Chowdhary Abhishek, Doley Nick and Basak Sangita**

### Abstract:

Aiming to contribute to the conservation of lepidopterans, North Bengal Wild Animals Park, West Bengal has established a butterfly conservatory within the park's premises. From May 2022 to April 2023, the rearing of common mimes (*P. clytia*) was practiced, and their life cycle from early development to the adult stage was recorded. The article explains the rearing process, morphological changes recorded with successive molting, and the challenges that were faced and resolved during the rearing of these ecologically important species.

## Conservation Breeding program

Currently, there are no conservation breeding programs in progress within the park. Nonetheless, there is a significant opportunity to start conservation breeding of local species like the Fishing Cat and Tokay Gecko due to the consistently favorable climate. The existing facilities within the park's boundaries are ideal for initiating this project. Scientific institutions such as universities, colleges, and other interested organizations in the state and neighboring districts will have direct access to explore the conservation possibilities of breeding endangered species.



# ANIMAL EXCHANGE

Sl. No.	Species	Date	Nos of Acquisition	Acquisition to	Acquisition from
1.	Chinese Goose	15.12.2023	0 : 0 : 6	NBWAP	Harinalaya, Newtown, Kolkata
2.	Marabou Stork	15.12.2023	1 : 0 : 0	NBWAP	Harinalaya, Newtown, Kolkata
3.	Helmeted Curassow	15.12.2023	1 : 0 : 0	NBWAP	Harinalaya, Newtown, Kolkata
4.	Great Curassow	15.12.2023	1 : 0 : 0	NBWAP	Harinalaya, Newtown, Kolkata
5.	Mandrill	21.12.2023	1 : 1 : 1	NBWAP	Tata Steel Zoological Park, Jamshedpur
6.	Black Buck	21.12.2023	2 : 2 : 0	NBWAP	Tata Steel Zoological Park, Jamshedpur
7.	Indian Crested Porcupine	13.12.2023	1 : 1 : 0	NBWAP	Zoological Garden, Alipore, Kolkata
8.	Himalayan Crestless Porcupine	10.12.2023	1 : 1 : 0	NBWAP	Bardhaman Zoological Park, Bardhaman
9.	Western Hoolock Gibbon	17.12.2023	1 : 1 : 0	NBWAP	Harinalaya, Newtown, Kolkata
10.	Asiatic Lion	08.02.2023	1 : 1 : 0	NBWAP	Sepahijala Zoological Park, Tripura
11.	Spectacled Langur	08.02.2023	1 : 1 : 0	NBWAP	Sepahijala Zoological Park, Tripura
12.	Leopard Cat	08.02.2023	1 : 1 : 0	NBWAP	Sepahijala Zoological Park, Tripura
13.	Black Buck	08.02.2023	2 : 2 : 0	NBWAP	Sepahijala Zoological Park, Tripura
14.	Hog Deer	21.02.2023	2 : 2 : 0	NBWAP	Tata Steel Zoological Park, Jamshedpur
15.	Black Buck	21.02.2023	5 : 8 : 0	NBWAP	Tata Steel Zoological Park, Jamshedpur
16.	Barking Deer	02.03.2023	1 : 4 : 0	NBWAP	Zoological Garden, Alipore, Kolkata
17.	Indian Rock Python	02.03.2023	1 : 1 : 0	NBWAP	Zoological Garden, Alipore, Kolkata
18.	Burmese Python	02.03.2023	1 : 1 : 0	NBWAP	Zoological Garden, Alipore, Kolkata
19.	Reticulated Python	02.03.2023	1 : 1 : 0	NBWAP	Zoological Garden, Alipore, Kolkata
20.	Water Monitor Lizard	02.03.2023	2 : 2 : 0	NBWAP	Zoological Garden, Alipore, Kolkata

## Rescue & Rehabilitation



On February 16, 2024, a male **Malayan Tapir** was rescued by the Ramsai Range team and taken to Bengal Safari veterinary hospital for treatment before being relocated to Alipur Zoological Garden in Kolkata.



On January 16, 2024, an **11-month-old Common Leopard cub** was rescued, treated at Bengal Safari veterinary hospital, and later **released back into the wild** by authorities.



On December 19, 2023 the Buxa Tiger Reserve rescued a **6-year-old Asiatic Black Bear** and treated it at Bengal Safari veterinary hospital and released back into the wild.



The veterinary hospital nurtured a rescue leopard cub, hand-feeding and caring for it until it was independent and ready for release back into the wild.

Date	Species	No. of animal received	No. of animal disposed	Purpose	Received from	Disposal
08.04.2023	Binturong	3	3	Rescued	Cooch Bihar Social Forestry Division	Translocated to Harinalaya Deer Park, New Town, Kolkata on 10.05.2023
08.04.2023	Red-tailed Monkey	6	6	Rescued	Cooch Bihar Social Forestry Division	Translocated to Harinalaya Deer Park, New Town, Kolkata on 10.05.2023
17.04.2023	Alexandrine parakeet	3	3	Rescued	Dabgram Range, Baikunthapur Division	Released in the wild, NBWAP
17.04.2023	Red-eared slider turtle	4	4	Rescued	Dabgram Range, Baikunthapur Division	Released in the Turtle pond, NBWAP
18.06.2023	Common Leopard (Cub)	1	1	Treatment	Ghoshpukur Range, Kurseong Division	Under veterinary observation at Veterinary hospital, NBWAP
04.06.2023	Barking deer (F)	1	1	Treatment	Kalimpong Range, Headquarter Beat, Kalimpong Forest Division	Released after treatment on same date to Kalimpong Range, Headquarter Beat, Kalimpong Forest Division
30.08.2023	Oriental pied Hornbill	1	1	Treatment	Kurseong Division	Under veterinary observation at Veterinary hospital, NBWAP

# ANNUAL ANIMAL INVENTORY 2023-24

## Endangered species

S.No.	Animal Name	Scientific Name	Opening Stock (01-Apr-2023)				Births			Acquisitions			Disposals			Deaths			Closing Stock (31-Mar-2024)			
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
Aves																						
1.	# Rufous-necked Hornbill	<i>Aceros nipalensis</i>	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
2.	# Malabar Pied Hornbill	<i>Anthracoeros coronatus</i>	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
3.	# Great Hornbill	<i>Buceros bicornis</i>	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
4.	Common Hill Myna	<i>Gracula religiosa</i>	7	7	0	14	0	0	0	0	0	0	2	2	0	0	0	5	5	0	10	
5.	# White-rumped Vulture	<i>Gyps bengalensis</i>	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	
6.	Kalij Pheasant	<i>Lophura leucomelanos</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	
7.	Indian Peafowl	<i>Pavo cristatus</i>	1	4	0	5	0	0	0	0	0	0	1	1	0	0	0	3	0	3		
8.	Peafowl (leucistic)	<i>Pavo cristatus</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
9.	# Eurasian Spoonbill	<i>Platalea leucorodia</i>	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	
10.	Temminck's Tragopan	<i>Tragopan temminckii</i>	1	1	0	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	
Total Aves		10	11	13	10	34	0	0	0	0	0	0	4	3	0	0	0	12	15	0	27	
Mammalia																						
1.	Blackbuck	<i>Antelope cervicapra</i>	3	7	0	10	0	1	0	2	2	0	0	0	0	3	6	0	2	4	0	6
2.	# Blackbuck (leucistic/white)	<i>Antelope cervicapra</i>	1	1	0	2	0	0	1	2	2	0	2	1	0	0	0	2	2	0	4	
3.	Jungle Cat	<i>Felis chaus</i>	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	
4.	Hoolock Gibbon	<i>Hoolock hoolock</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	
5.	Indian Hog Deer	<i>Hyelaphus porcinus</i>	3	5	0	8	0	0	2	0	0	0	0	0	0	1	0	2	5	2	9	
6.	Himalayan Porcupine	<i>Hystrix brachyura</i>	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	2	

S.No.	Animal Name	Scientific Name	Opening Stock (01-Apr-2023)				Births			Acquisitions			Disposals			Deaths			Closing Stock (31-Mar-2024)				
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T	
7.	Asiatic Lion	<i>Panthera leo persica</i>	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	2
8.	Leopard	<i>Panthera pardus</i>	4	1	0	5	0	0	0	1	2	0	2	2	0	0	0	0	3	1	0	4	
9.	# Tiger (leucistic/White)	<i>Panthera tigris</i>	0	1	0	1	0	0	2	0	0	0	0	0	0	1	1	0	0	1	0	1	
10.	# Bengal Tiger	<i>Panthera tigris tigris</i>	5	4	0	9	1	4	3	0	0	0	2	2	0	0	0	0	6	7	0	13	
11.	Asian Palm Civet	<i>Paradoxurus hermaphroditus</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	
12.	Leopard Cat	<i>Prionailurus bengalensis</i>	1	2	0	3	0	0	0	1	1	0	0	0	0	0	0	0	2	3	0	5	
13.	Fishing Cat	<i>Prionailurus viverrinus</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	
14.	Indian Rhinoceros (Greater One-horned Rhino)	<i>Rhinoceros unicornis</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
15.	Barasingha (Swamp Deer)	<i>Rucervus duvaucelii</i>	3	3	0	6	0	0	0	0	0	0	0	0	0	0	0	0	3	3	0	6	
16.	Dusky Leaf Monkey	<i>Trachypithecus obscurus</i>	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	2	
17.	# Himalayan Black Bear	<i>Ursus thibetanus laniger</i>	2	2	1	5	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	5	
Total Mammalia	17		29	29	1	59	1	5	8	9	10	0	6	5	0	5	7	0	32	35	2	69	
Reptilia																							
1.	Marsh Crocodile	<i>Crocodylus palustris</i>	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4	
2.	Gharial	<i>Gavialis gangeticus</i>	2	3	0	5	0	0	0	0	0	0	1	1	0	0	0	0	1	2	0	3	
3.	Reticulated Python	<i>Malayopython reticulatus</i>	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	2	
4.	Indian Softshell Turtle, Ganges Softshell Turtle	<i>Nilssonina gangetica</i>	0	1	4	5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	

S.No.	Animal Name	Scientific Name	Opening Stock (01-Apr-2023)				Births			Acquisitions			Disposals			Deaths			Closing Stock (31-Mar-2024)			
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
4.	Indian Softshell Turtle, Ganges Softshell Turtle	<i>Nilssonia gangetica</i>	0	1	4	5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5
5.	Burmese Python	<i>Python bivittatus</i>	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	2
6.	Indian Rock Python	<i>Python molurus</i>	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	2
7.	Asian Water Monitor	<i>Varanus salvator</i>	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	2	2	0	4
<b>Total Reptilia</b>	<b>7</b>		4	6	4	14	0	0	0	5	5	0	1	1	0	0	0	0	8	10	4	22
<b>Total</b>			44	48	15	107	1	5	8	14	15	0	11	9	0	5	7	0	52	60	6	118

### Other than endangered species

S.No.	Animal Name	Scientific Name	Opening Stock (01-Apr-2023)				Births			Acquisitions			Disposals			Deaths			Closing Stock (31-Mar-2024)			
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
<b>Aves</b>																						
1.	Swan Goose	<i>Anser cygnoides</i>	0	0	0	0	0	0	0	2	4	0	0	0	0	0	0	0	2	4	0	6
2.	Blue-and-gold Macaw, Blue-and-yellow Macaw	<i>Ara ararauna</i>	2	0	0	2	0	0	0	1	3	0	2	2	0	0	0	0	1	1	0	2
3.	# Scarlet Macaw	<i>Ara macao</i>	0	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
4.	# Indian Pond Heron	<i>Ardeola grayii</i>	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
5.	Argus Pheasant, Great Argus	<i>Argusianus argus</i>	2	1	0	3	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	2
6.	# Umbrella Cockatoo, White Cockatoo	<i>Cacatua alba</i>	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
7.	# Greater Sulphur-crested Cockatoo, Sulphur-crested Cockatoo(ssp.eleonora)	<i>Cacatua galerita eleonora</i>	0	0	5	5	0	0	0	0	0	0	1	2	0	0	0	0	1	1	0	2

S.No.	Animal Name	Scientific Name	Opening Stock (01-Apr-2023)				Births			Acquisitions			Disposals			Deaths			Closing Stock (31-Mar-2024)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
8.	# Moluccan Cockatoo, Salmon-crested Cockatoo	<i>Cacatua moluccensis</i>	0	0	3	3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															</

S.No.	Animal Name	Scientific Name	Opening Stock (01-Apr-2023)				Births			Acquisitions			Disposals			Deaths			Closing Stock (31-Mar-2024)			
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
Total Aves	20		35	41	19	95	0	0	5	6	7	0	7	8	0	2	6	0	43	47	0	90
Mammalia																						
1.	Chital/ Spotted Deer	Axis axis	158	303	0	461	0	0	13	0	0	0	0	0	0	0	0	0	158	303	13	474
2.	Indian Crested Porcupine	Hystrix indica	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	2
3.	Mandrill	Mandrillus sphinx	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	1	2	0	3
4.	# Indian Muntjac	Muntiacus muntjak	10	6	11	27	0	0	3	1	4	0	0	0	0	0	0	0	15	17	3	35
5.	Sambar Deer	Rusa unicolor	13	18	0	31	0	0	2	0	0	0	0	0	0	0	0	0	13	18	2	33
6.	# Wild Boar	Sus scrofa	4	6	0	10	0	0	20	0	0	0	0	0	0	0	0	0	12	18	0	30
Total Mammalia	6		185	333	11	529	0	0	38	3	7	0	0	0	0	0	0	0	200	359	18	577
Reptilia																						
1.	Indian Black Turtle (ssp.indopeninsularis)	Melanochelys trijuga indopeninsularis	0	0	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50
Total Reptilia	1		0	0	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50
Total			220	374	80	674	0	0	43	9	14	0	7	8	0	2	6	0	243	406	68	717
Grand Total			264	422	95	781	1	5	51	23	29	0	18	17	0	7	13	0	295	466	74	835



# Annual report on the birth of captive animals at North Bengal Wild Animals Park from April 1, 2023, to March 1, 2024.

Sl. No.	Date	Species	Sex (M:F:U)
1.	06.04.2023	Indian Hog Deer	0:0:1
2.	12.05.2023	Silver Pheasant	0:0:5
3.	18.05.2023	Black Buck	0:0:1
4.	27.05.2023	Indian Hog Deer	0:0:1
5.	12.07.2023	Bengal Tiger	0:0:2
6.	14.07.2023	Barking Deer	0:0:3
7.	17.07.2023	Sambar Deer	0:0:2
8.	22.07.2023	Spotted Deer	0:0:13
9.	12.08.2023	Wild Boar	0:0:10
10.	19.08.2023	Bengal Tiger	0:0:3
11.	10.09.2023	Wild Boar	0:0:10
12.	14.02.1024	Black Buck	0:0:1
13.	06.03.2024	Bengal Tiger	0:0:5



## Annual report on the mortality of captive animals at North Bengal Wild Animals Park from April 1, 2023, to March 1, 2024.

Sl. No.	Date	Species	Sex	Cause of death
1.	10.04.2023	Black Buck	M	Hypovolemic shock (infighting)
2.	20.04.2023	Golden pheasant	F	Egg bound
3.	10.05.2023	Red jungle fowl	M	Infighting
4.	03.06.2023	Black Buck	F	Severe internal bleeding
5.	05.06.2023	Black Buck	M	TB
6.	19.06.2023	Leucistic black buck	F	Capture myopathy
7.	20.06.2023	Hog Deer	M	Cardio respiratory failure
8.	13.07.2023	Tiger cub	F	Cardio respiratory failure (Trampled to death due to ill nursing by mother)
9.	19.07.2023	Black buck	F	Cardio respiratory failure
10.	22.07.2023	Black buck	F	Cardio respiratory failure
11.	31.07.2023	Black buck	F	Cardio respiratory failure (MTB)
12.	06.08.2023	Tiger cub	M	Pneumonia
13.	16.08.2023	Temminck's tragopan	M	Cardio respiratory failure
14.	21.08.2023	Leucistic black buck	M	Capture myopathy
15.	05.09.2023	Leucistic black buck	M	Cardio respiratory failure
16.	15.10.2023	Black buck	F	Paratuberculosis (MTB)
17.	23.02.2024	Black buck	M	Paratuberculosis (MTB)
18.	07.03.2024	Mandrill (infant)	F	Cardio respiratory failure (premature delivery)



## Status of the Compliance with conditions stipulated by the Central Zoo Authority:

### Details on compliance of the conditions stipulated by the Central Zoo Authority (as per the earlier letter of grant of recognition issued to the zoo)

Letter No. File No. 22-64/2004-CZA(461)(NE) Computer No.147518 dated 15/12/2022

Sr. No	Norm No. under RZR, 2009	Condition Stipulated	Time Period to Comply	Since when pending	Remarks	
					Status with regard to compliance of the conditions as submitted by the Officer-in-charge of the Zoo	Status with regard to compliance as noted physically by the evaluator during the visit
2. Administrative and Staffing Pattern						
1.	10.2(2) & (3)	The services of scientific and technical staffs working as Veterinarian, Zoo Biologist and Veterinary Assistant have been critical in establishing the Park in 2016 and thereafter running and maintaining it. The persons are working in contract basis since inception of North Bengal Wild Animals Park in 2016. But for their tireless efforts, the park would not have been established on schedule and would not have been running smoothly. Their services must be recognized and absorbed in the permanent establishment.	One years	15.12.2022	Will be complied with	
6. Veterinary and infrastructure facilities						
2.	10.6(1)	The park has a well established Veterinary section which includes hospital with quarantine room, dispensary, Operation theater, treatment wards, X ray room and other required animal facilities. Veterinary section caters the need of wild animals rescued from anywhere in North Bengal. Hence a sophisticated Regional Wild Animals Disease Diagnostic Laboratory may be established for future.	1 year		The proposal to establish a animal disease diagnostic Laboratory has been submitted to West Bengal Zoo Authority for approval.	
3.	10.6(6b)	The zoo officials as well as the staffs are required to be sent to exposure visit to different zoos of India or abroad to enhance their knowledge for upkeep & management of zoo as well as to upgrade their technical skills. It can be done in phased manner.	Immediately		Complied Details attached as Annexure-I	
Other Observations						
4.	4	While removing weeds in areas between the two enclosures, it is immediately suggested not to cut down the regeneration of important timber species like Sal etc. Stop removing regeneration of natural and native species forthwith.	Immediately		Instruction given to the staffs as according to the	

					compliance.	
5.	5.	The North Bengal Wild Animals Park, Salugara is spread over 297 Hectare with animal enclosures housing mega fauna such as Bengal Tiger, Leopard and Sloth Bear. To handle any medical emergency situation requiring immediate transportation of large animals, the zoo should be equipped with a well-equipped ambulance vehicle up to 3-5 tons capacity. WBZA has already initiated action, which may need further push.	At the earliest		Ambulance acquired by the Park to cater to the veterinary requirements for the animals.	
6.	6.	The North Bengal Wild Animals Park(Bengal Safari) is a zoo cum safari spread over 297 Hectares of area & has a well established Veterinary section which includes hospital with quarantine room, dispensary, Operation theatre, treatment wards, X-ray room and other required animal facilities. The park also has a potential to house many more animals in future as there is no any land constraints. It has ample space for construction of new animal enclosures (in accordance with the CZA protocol). The park offers an excellent public amenity such as children play area, Souvenir shop, Solar operated mobile stations, Biodiversity museum, Food court, Amphitheatre, Canteen, cloak room, baby care room, visitor waiting hall, Nature Interpretation Centre etc. The Park has recently introduced adventure sports facilities such as long & short zip line, Burma bridge, wall climbing activities & other developmental projects are in the pipeline. The park has also developed a butterfly garden with rearing facility & kiosk centre for the students, researchers etc.	At the earliest		The suggestion concerning increase in more animal houses (enclosures) have been taken into account. Work in progress.	

# List of free-living wild animals within the zoo premises

## List of Mammals

Local /Common Name	Zoological Name
Assam Giant Squirrel	<i>Ratufa bicolor</i>
Barking Deer	<i>Muntiacus muntjac</i>
Bengal (common) Monkey	<i>Macacus rhesus</i>
Bengal Molerat	<i>Bandicota bengalensis</i>
Bhutan Duarsrat	<i>Rattus rattus bhotia</i>
Common flying Fox	<i>Pteropus giganteus</i>
Common Indian Hare	<i>Lepus ruficaudatus</i>
Common Mongoose	<i>Herpestes edwardsii</i>
Common yellow bat	<i>Scotophilus kuhlii</i>
Crab-eating Mongoose	<i>Herpestes urva</i>
Crestless Himalayan Porcupine	<i>Hystrix hodgsoni</i>
Fulvous fruit Bat	<i>Rosettes leschenaultii</i>
Hairy-winged Bat	<i>Marpiocephalus harpiatalasyunes</i>
Hispid Hare	<i>Lepus hispidus</i>
Hog deer	<i>Axis porcinus</i>
Indian Civet	<i>Viverra zibetha zibetha</i>
Indian Elephant	<i>Elephas maximus</i>
Indian Fox	<i>Vulpes bengalensis</i>
Indian Martin	<i>Martes flavigula</i>
Indian Pangolin	<i>Manis crassicaudata</i>
Jackal	<i>Canis aureus</i>
Jungle Cat	<i>Felis chaus</i>
Long-tailed tree Mouse	<i>Vandeleuria oleracea</i>
One-horned Indian Rhinoceros	<i>Rhinoceros unicornis</i>
Palm Squirrel	<i>Funambulus pennantii</i>
Leopard	<i>Panthera pardus</i>
Short-tailed Mole	<i>Talpa micrura</i>
Small Indian Mongoose	<i>Herpestes auropunctatus</i>
Spotted Deer	<i>Axis axis</i>
Wall Bat	<i>Myotis mystacinus muricola</i>
Wild Boar	<i>Sus scrofa cristatus</i>
Wroughton's Bat	<i>Scotophilus temminckii wroughtoni</i>

## List of Reptiles

Local /Common Name	Zoological Name
Python	<i>Python molurus</i>
Common WolfSnake	<i>Lycodon aulicus</i>
Collared DwarfSnake	<i>Sibynophus collaris</i>
Indian RatSnake	<i>Ptyas mucosus</i>
TrinketSnake	<i>Elaphe helena</i>
Indian Bronzebacked TreeSnake	<i>Ahaetulla tristis</i>
Hooded Tree Snake	<i>Pseudoxenodon macrops</i>
Indian Egg-eating Snake	<i>Elachistodon westermanni</i>
Common Green WhipSnake	<i>Dryophis nasutus</i>
Banded Krait	<i>Bungarus fasciatus</i>
Common Krait	<i>Bungarus caeruleus</i>
Cobra	<i>Naja naja</i>
King Cobra	<i>Naja Hannah</i>
Russell's Viper	<i>Viperarusselli</i>
Common Green Pit Viper	<i>Thimeresurus gramineus</i>
Green Vine Snake	<i>Ahaetulla nasuta</i>

## List of Birds

Local /Common Name	Zoological Name
Green Magpie	<i>Cissa chinensis</i>
Indian Treepie	<i>Dendrocitta vagabunda</i>
Jungle Babbler	<i>Turdoides striatus striatus</i>
Jungle Crow	<i>Corvus macrorhynchos</i>
House Crow	<i>Corvus splendens splendens</i>
Yellow-eyed Babbler	<i>Chrysomma sinensis sinensis</i>
Common Iora	<i>Aegithina tiphia</i>
Fairy Blue bird	<i>Irena puella</i>
Red-tailed Minla	<i>Minla ignotincta</i>
White-throated Bulbul	<i>Criniger ochraceus</i>
Himalayan Black Bulbul	<i>Microscelis psaroides</i>
Bengal Redvented Bulbul	<i>Pycnonotus cafer bengalensis</i>
Dark Grey Cuckoo Shrike	<i>Coracina melaschistos melaschistos</i>
Black Headed Cuckoo Shrike	<i>Coracina melanoptera</i>
Common Myna	<i>Achidotheres tristis tristis</i>
Jungle Myna	<i>Achidotheres fuscus</i>
Pied Myna	<i>Sturnus contra contra</i>
Yellow-bellied Fantail Flycatcher	<i>Rhipidura hypoxantha</i>
White-throated Fantail Flycatcher	<i>Rhipidura albicollis</i>
Magpie Robin	<i>Copsychus saularis</i>
House Sparrow	<i>Passer domesticus indicus</i>
Tree Sparrow	<i>Passer montanus</i>
Plain Sand Martin	<i>Riparia paludicola</i>
Scarlet backed Flower-pecker	<i>Dicaeum cruentatum</i>
Plain-coloured Flowerpecker	<i>Dicaeum concolor</i>
Large Yellow napped Woodpecker	<i>Picus flavinucha</i>
Himalayan Golden-backed throat/Woodpecker	<i>Dinopium shorei shorei</i>
Great Himalayan Barbet	<i>Megalaima virens</i>
Blue-throated Barbet	<i>Megalaima asiatica</i>
Common Kingfisher	<i>Alcedo atthis bengalensis</i>
White-Breasted Kingfisher	<i>Halcyon smyrnensis</i>
Great Hornbill	<i>Buceros bicornis homrai</i>
Indo-Burmese Pied Hornbill	<i>Anthraceroceros coronatus</i>
Rufous-necked Hornbill	<i>Aceros nipalensis</i>
Himalayan Cuckoo	<i>Cuculus saturatus</i>
Indian Cuckoo	<i>Cuculus micropterus</i>
Brown Fish Owl	<i>Bubo zeylonensis</i>
Spotted Owlet	<i>Athene brama</i>
Jungle Owl	<i>Glaucidium radiatum</i>
Himalayan Griffon Vulture	<i>Gyps himalayensis</i>
Indian White-backed Vulture	<i>Gyps bengalensis</i>
Changeable Hawk Eagle	<i>Spizaetus (cirrhatus) limnaetus</i>
Crested Serpent Eagle	<i>Spilornis cheela</i>
Large Grey Headed Fishing Eagle	<i>Ichthyophaga ichthyaetus</i>
Large Indian Kite	<i>Milvus lineatus</i>
Bengal Green Pigeon	<i>Treron phoenicoptera phoenicoptera</i>
Green Imperial Pigeon	<i>Ducula aenea</i>
Bronze Winged or Emerald Dove	<i>Chalcophaps indica</i>
Indian Blue Rock Pigeon	<i>Columba livia intermedia</i>
Indian Rufous Turtle Dove	<i>Streptopelia orientalis agricola</i>
Spotted Dove	<i>Streptopelia chinensis</i>
Indian Ring Dove	<i>Streptopelia decaocto</i>
Indian Red turtle Dove	<i>Oenopopelia tranquebarica</i>
Common Peafowl	<i>Pavo cristatus</i>
Blue Breasted Quail	<i>Coturnix chinensis</i>
Common or Grey Quail	<i>Coturnix coturnix</i>
Grey Partridge	<i>Francolinus pondicerianus</i>
Small Indian Pratincole	<i>Glareola lactea</i>
Bronze Winged Jacana	<i>Metopidius indicus</i>
Pheasant-tailed Jacana	<i>Hydrophasianus chirurgus</i>
Common Sandpiper	<i>Tringa hypoleucos</i>
Green Sandpiper	<i>Tringa ochropus</i>
The Woodcock	<i>Scolopax rusticola</i>

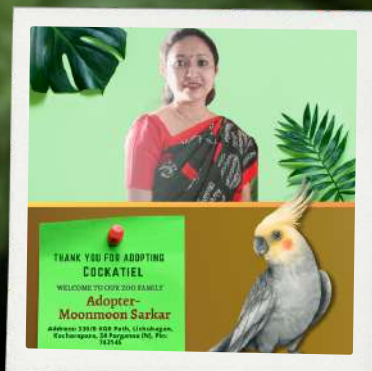
# AVIAN DIVERSITY OF NORTH BENGAL WILD ANIMALS PARK (BENGAL SAFARI)



# Animal Adoption Scheme



# Wild Animal Adoption Program at North Bengal Wild Animals Park



# Engaging the Public in Wildlife Conservation



The animal adoption program at Bengal Safari, under the West Bengal Zoo Authority, aims to engage the public in meaningful wildlife conservation initiatives. This innovative program allows individuals and organizations to adopt animals and contribute directly to their care and welfare. In the 2023-24 period, the program saw significant participation from the public. A total of 26 adoptions were successfully completed, amounting to ₹9,07,000. This substantial support reflects the growing awareness and commitment of the community towards the conservation of wildlife.

## Sikkim's Esteemed Governor Adopts Bengal Tiger at Bengal Safari

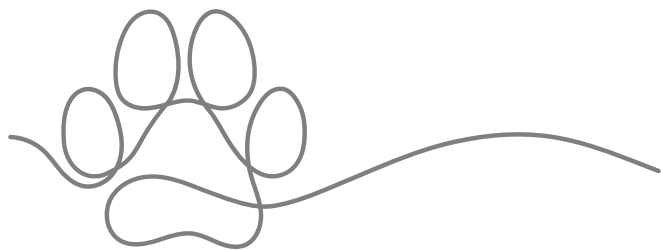
The honourable Governor of Sikkim, Shri Lakshman Prasad Acharya, has demonstrated his support for wildlife

conservation by adopting a Bengal tiger at Bengal Safari for the upcoming year. In a touching event held on December 4th at the Raj Bhawan of Sikkim, the Governor presented the grant amount to the Assistant Director of Bengal Safari, signifying his unwavering commitment towards safeguarding our natural heritage. This thoughtful action not only exemplifies the Governor's dedication to wildlife conservation but also inspires all of us to take proactive measures in preserving the world's endangered species.

## List of patrons 2023-24

Sl. No.	Name and address of the Adopter	Adopted animal	Period of Adoption
1.	Mr. Niraj Kumar Bnasal Indian Oil Corporations Limited (Marketing Division), Siliguri Terminal, West Bengal	Spotted Deer	10.04.2023 to 09.04.2024
2.	Mr. Niraj Kumar Bnasal Indian Oil Corporations Limited (Marketing Division), Siliguri Terminal, West Bengal	Indian Peafowl	10.04.2023 to 09.04.2024

Sl. No.	Name and address of the Adopter	Adopted animal	Period of Adoption
3.	Mr. Niraj Kumar Bnasal Indian Oil Corporations Limited (Marketing Division), Siliguri Terminal, West Bengal	Ganges Soft-shelled Turtle	10.04.2023 to 09.04.2024
4.	Mr. Niraj Kumar Bnasal Indian Oil Corporations Limited (Marketing Division), Siliguri Terminal, West Bengal	Indian Black Turtle	10.04.2023 to 09.04.2024
5.	Smt. Moonmoon Sarkar North 24 Parganas, West Bengal	Cockatiel	13.04.2023 to 12.04.2024
6.	Manish Agarwal Siliguri, West Bengal	Rose-ringed parakeet	19.04.2023 to 16.04.2026
7.	Ankit Agarwal Siliguri, West Bengal	Indian Peafowl	19.04.2023 to 16.04.2026
8.	Sourav Agarwal Siliguri, West Bengal	Rose-ringed parakeet	19.04.2023 to 16.04.2026
9.	Mahendra kr. Agarwal Siliguri, West Bengal	Cockatoo	19.04.2023 to 16.04.2026
10.	Soumalya Sen North 24 Parganas, West Bengal	Asiatic Black Bear	09.05.2023 to 08.05.2024
11.	Shree Lakshmi Krishna K Thrissur, Kerala	Spotted Deer	22.05.2023 to 21.07.2023
12.	Samiran Raj West Midnapore, West Bengal	Yellow-headed Amazon	21.06.2023 to 20.06.2024
13.	Nee Nee Chettri Gangtok., East Sikkim	Indian Black Turtle	28.06.2023 to 27.06.2024
14.	Mr. Satyam Chhetri Darjeeling, West Bengal	Indian Peafowl	03.07.2023 to 02.07.2024
15.	Miss Arya Tripathi Allahabad, Uttar Pradesh	Asian Palm Civet	24.07.2023 to 23.07.2024
16.	Dr.Sutirtha Sarkar on behalf of Miss Adrija Sarkar North 24 Parganas, West Bengal	Asiatic Black Bear (Cub)	31.07.2023 to 30.07.2024
17.	Mr. Anil Gupta on behalf of Vangarde 21 Computers Chandmari, West Bengal	Common Leopard	31.07.2023 to 30.07.2024
18.	Arnab Chakraborty & Chhanda Chakraborty Shivmandir, West Bengal	Hill Myna	31.07.2023 to 30.07.2024
19.	Mantosh Barman Jalpaiguri, West Bengal	Fishing Cat	31.08.2023 to 30.08.2024
20.	Parbel Saha Coochbehar, West Bengal	Spotted Deer	02.09.2023 to 01.09.2024
21.	Dr. Amitava Roy Kolkata, West Bengal	Fishing Cat	06.11.2023 to 05.11.2024
22.	Yogen Ghatani Pakyong, Sikkim	Rose-ringed Parakeet	22.11.2023 to 21.11.2024
23.	Round Table of India Sevoke Road, Siliguri	Asiatic Black Bear	23.11.2023 to 22.11.2024
24.	Shri Lakshman Prasad Acharya Governor of Sikkim Raj Bhawan, Sikkim	Bengal Tiger	06.12.2023 to 05.12.2024
25.	Juna Gurung Salugara, Jalpaiguri, West Bengal	Indian Peafowl	29.02.2024 to 28.02.2025
26.	Anik Debbhuti Uttar Dinajpur, West Bengal	Indian Peafowl	9.03.2024 to 8.03.2025





## Insights from our Esteemed Guests

Nice visit to Bengal Safari, also planted trees on the occasion of World Earth Day, good sighting of animals, tiger & leopard. Thanks

Shri V.K. Chopra  
PCCF (Retired), UP, Lucknow  
22.04.2023

Well maintained. Thanks to all the staff for taking care of animals.

Smt. Birbaha Hansda  
Hon'ble Minister of State, Forests  
Govt. of West Bengal.  
03.06.2023

Amazing ride and a fantastic experience overall. Very well maintained and special thanks to Director, Bengal Safari & his team.

Smt Santi Das Basak  
Addl. SP, West Bengal Police  
17.06.2023

We spotted deer, bears, tigers and leopards and enjoyed a one-of-a kind exquisite experience. excellent arrangement & hospitality. Special thanks to Shri. Rahul Deb Mukhopadhyay, Ms. Sangita & Mr. Binod & the entire team who made it both educational and enjoyable.

Justice Vineet Saran  
New Delhi  
27.06.2023

The hospitality, service and the safari was excellent. the complete experience was memorable and every thing was very well conducted. congratulations to whole team for maintaining the complete unit in such a beautiful way.

Shri Lakshman Prasad Acharya  
Governor of Sikkim  
01.09.2023

A very well maintained zoo. I highly appreciate the initiative taken by the management. My best wishes.

Dr. Amitava Roy  
Nuclear Scientist (Retired), Govt. of India  
04.11.2023

During the study visit of the committee, we visited the Bengal Safari at Siliguri (WB). It is a very good safari with an extensive area of jungle. We could see tigers, leopards, bears, and many more animals during the visit. The Director and his entire team are very enthusiastic and helpful. We thank all of them.

Dr. Kirit Solanki  
Chairman, Parliamentary Committee  
on Welfare of SC/ST  
with members of the committee,  
officials of Lok Sabha etc.  
09.11.2023

Today I visited the Bengal Safari along with my two daughter. We had a very enjoyable time visiting animals in this safari. This is managed in a very efficient manner. The high point of this visit was seeing tiger pair in this visit. These are really magnificent animals and very fearsome to look at from lone quarters. The trip was explained very nicely by Sri Janardhan, with nice poetry. Sri Sarkar, curator has done a very commendable job. My best wishes.

Smt. Pratibha Raj, IFS  
APCCF, Human Resource Development  
26.12.2023

An amazing safari in West Bengal. Infact the best safari with the 'ICONIC ROYAL BENGAL TIGERS'. Well maintained and educative. The whole experience was wonderful. I wish the whole team of Bengal Safari the very best. Thank you for hosting me.

Dr Maria Fernandes  
Vice Chairperson, WBFDC  
15.01.2024

Excellent environment & animal setup. Very good maintenance. Please keep up the good work.

Damayanti Sen, IPS  
20.01.2024

Bengal Safari is just superb! We saw a pair of tigers, a leopard, a bear, deer and so many other animals. This place deserve much greater publicity. I am very grateful to Mr. Abhishek Chowdhury, ADFO, who looked after us very well.

Shri Sanjoy Mukherjee, IPS  
Director General of Police  
DG Fire  
23.02.2024

The safari was excellent. I really liked it and the nature is amazing, so this zoo is my one of the favourite place to visit.

Master Anirudha Nag, son of  
Shri Anupam Kumar Raha  
Public Relations Officer at President's Secretariat,  
Rashtrapati Bhawan, New Delhi  
17.02.2024



# Visitors' impression

## NORTH BENGAL WILD ANIMALS PARK (BENGAL SAFARI) VISITOR'S FEED BACK FORM

	Very Unsatisfactory	Unsatisfactory	Neutral	Satisfactory	Very Satisfactory
1. Your experience at the zoo entrance?					
2. The zoo campus in terms of its design, layout, display, cleanliness and hygiene etc.					
3. Your animal viewing experience					
4. Other attractions such as interpretation centre, nature information etc. (apart from animal viewing) at the zoo.					
5. The learning experience at the zoo in respect to wildlife conservation.					
6. The utilities and amenities at the zoo					
7. The overall zoo experience					

Any other suggestion/feedback: *Very useful, very clean and I love the place.*

Signature of Visitor: *[Signature]*

Address:

E-mail:

Contact No.:

## NORTH BENGAL WILD ANIMALS PARK (BENGAL SAFARI) VISITOR'S FEED BACK FORM

	Very Unsatisfactory	Unsatisfactory	Neutral	Satisfactory	Very Satisfactory
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5. The learning experience at the zoo in respect to wildlife conservation.					
6. The utilities and amenities at the zoo					
7. The overall zoo experience					

Any other suggestion/feedback: *Please bring more animals. Ticket is expensive.*

Signature of Visitor: *[Signature]*

Address:

E-mail:

Contact No.:

## NORTH BENGAL WILD ANIMALS PARK (BENGAL SAFARI) VISITOR'S FEED BACK FORM

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5. The learning experience at the zoo in respect to wildlife conservation.					
6. The utilities and amenities at the zoo					
7. The overall zoo experience					

Any other suggestion/feedback: *We are very satisfied.*

Signature of Visitor: *[Signature]*

Address:

E-mail: *norbenwildanimals@gmail.com*

Contact No.: *7602014110*

## NORTH BENGAL WILD ANIMALS PARK (BENGAL SAFARI) VISITOR'S FEED BACK FORM

	Very Unsatisfactory	Unsatisfactory	Neutral	Satisfactory	Very Satisfactory
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6. The utilities and amenities at the zoo					
7. The overall zoo experience					

Any other suggestion/feedback: *Please make arrangements in safari vehicle like ladder where the vehicle entered and which side the animal is situated.*

Signature of Visitor: *[Signature]*

Address:

E-mail:

Contact No.: *891918005*

## NORTH BENGAL WILD ANIMALS PARK (BENGAL SAFARI) VISITOR'S FEED BACK FORM

	Very Unsatisfactory	Unsatisfactory	Neutral	Satisfactory	Very Satisfactory
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5. The learning experience at the zoo in respect to wildlife conservation.					
6. The utilities and amenities at the zoo					
7. The overall zoo experience					

Any other suggestion/feedback: *Keep up the good work. We are doing great.*

Signature of Visitor: *[Signature]*

Address:

E-mail: *stanakapad@gmail.com*

Contact No.: *8348807999*

## NORTH BENGAL WILD ANIMALS PARK (BENGAL SAFARI) VISITOR'S FEED BACK FORM

	Very Unsatisfactory	Unsatisfactory	Neutral	Satisfactory	Very Satisfactory
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5. The learning experience at the zoo in respect to wildlife conservation.					
6. The utilities and amenities at the zoo					
7. The overall zoo experience					

Any other suggestion/feedback: *Lots of new experience and parks. Nicely maintained.*

Signature of Visitor: *[Signature]*

Address:

E-mail:

Contact No.:

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6. The utilities and amenities at the zoo					
7. The overall zoo experience					

Any other suggestion/feedback: *The safari is very satisfied and we all have enjoyed a lot.*

Signature of Visitor: *[Signature]*

Address:

*9/13 Jansen Road B-Zone*

*Durgam - 713205*

E-mail:

*slghkundu@151@gmail.com*

Contact No.:

## NORTH BENGAL WILD ANIMALS PARK (BENGAL SAFARI) VISITOR'S FEED BACK FORM

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5. The learning experience at the zoo in respect to wildlife conservation.					
6. The utilities and amenities at the zoo					
7. The overall zoo experience					

Any other suggestion/feedback: *Very nice experience.*

Signature of Visitor: *[Signature]*

Address:

*Neer Jorhary, Sikkim*

E-mail:

*9774811497*

## NORTH BENGAL WILD ANIMALS PARK (BENGAL SAFARI) VISITOR'S FEED BACK FORM

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5. The learning experience at the zoo in respect to wildlife conservation.					
6. The utilities and amenities at the zoo					
7. The overall zoo experience					

Any other suggestion/feedback: *Everything was very satisfactory. Specially driver was very helpful.*

Signature of Visitor: *[Signature]*

Address:

*Darjeeling*

E-mail:

*9582541310*

## NORTH BENGAL WILD ANIMALS PARK (BENGAL SAFARI) VISITOR'S FEED BACK FORM

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1. Your experience at the zoo entrance?					
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6. The utilities and amenities at the zoo					
7. The overall zoo experience					

Any other suggestion/feedback: *Please make arrangements in safari vehicle like ladder where the vehicle entered and which side the animal is situated.*

Signature of Visitor: *[Signature]*

Address:

*Andher Pradesh*

E-mail:

Contact No.: *891918005*

## NORTH BENGAL WILD ANIMALS PARK (BENGAL SAFARI) VISITOR'S FEED BACK FORM

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5. The learning experience at the zoo in respect to wildlife conservation.					
6. The utilities and amenities at the zoo					
7. The overall zoo experience					

Any other suggestion/feedback: *Also see a tiger area.*

Signature of Visitor: *[Signature]*

Address:

*Gurgaon*

E-mail:

Contact No.: *992317100*

## NORTH BENGAL WILD ANIMALS PARK (BENGAL SAFARI) VISITOR'S FEED BACK FORM

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5. The learning experience at the zoo in respect to wildlife conservation.					
6. The utilities and amenities at the zoo					
7. The overall zoo experience					

Any other suggestion/feedback: *A very well kept and maintained safari park.*

Signature of Visitor: *[Signature]*

Address:

*Col. P. Singh*

*2nd Side, 33rd Mile, Calcutta*

E-mail:

Contact No.: *9275013405*

## NORTH BENGAL WILD ANIMALS PARK (BENGAL SAFARI) VISITOR'S FEED BACK FORM

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5. The learning experience at the zoo in respect to wildlife conservation.					
6. The utilities and amenities at the zoo					
7. The overall zoo experience					

Any other suggestion/feedback: *We hope we will see more animals next time. @ if we enjoy very much.*

Signature of Visitor: *[Signature]*

Address:

*Pharmanagar*

E-mail:

Contact No.:



## VETERINARY CARE

Veterinary care at Bengal Safari is essential to maintaining the health and well-being of the diverse animals housed within the park. One veterinary officer, one veterinary assistant, and two support staff are dedicated to providing day-night medical care, ranging from routine check-ups and vaccinations to emergency surgeries. Aside from treating injuries and illnesses, the veterinary team also plays a crucial role in preventive care. They conduct regular health assessments, monitor dietary needs, and ensure that each animal receives the proper nutrition tailored to their specific requirements. A health advisory committee is in position for guidance.

The veterinary team at Bengal Safari plays an indispensable role in ensuring that the park's inhabitants thrive in a safe and healthy environment.

The veterinary hospital of the North Bengal Wild Animals Park is equipped with the following facilities:-

- Operation theatre unit for Herbivores & Carnivores
- In-patient Herbivore Animal Treatment Ward
- In-patient Carnivore Animal Treatment Ward
- Veterinary Medicine Dispensary
- X-ray chamber
- Isolation ward/Quarantine Kraal
- Post-mortem Room



Laboratory Room with following machinery & equipments:

- Autoclave unit
- B.O.D Incubator
- Centrifuge
- Haemocytometer
- Sterilisation unit
- Cell counter
- Microscope
- Lab Chemicals for diagnosis.



## Special ***Achievement***

Bengal Safari Receives "Best Green Investment Tourism Unit" Award




**We are thrilled to announce a remarkable achievement for Bengal Safari.**


The North Bengal Wild Animals Park have been bestowed with the prestigious title of **"Best Green Investment Tourism Unit"** by The Himalayan Hospitality and Tourism Development Network in association with the Ministry of Tourism, Government of India, Eastern Regional Office, Kolkata, .


This award underscores our unwavering commitment to sustainable and eco-friendly tourism practices, reflecting our dedication to environmental conservation and responsible tourism. Bengal Safari is immensely proud to receive this recognition, which further motivates us to continue our efforts in promoting green tourism.


We extend our gratitude to our dedicated team and the Ministry of Tourism for their support. This achievement reaffirms our commitment to preserving the natural beauty and biodiversity of our region while providing exceptional hospitality to our visitors.

## Contact details

 +91 7047312620 (IVR)

 North Bengal Wild Animals Park (Bengal Safari), 5th Mile, Sevoke Road, Salugara, Siliguri, Dist. - Jalpaiguri, Pin- 734008, West Bengal, India

 [dirnbwap@gmail.com](mailto:dirnbwap@gmail.com),  
[eduresearch.bs@gmail.com](mailto:eduresearch.bs@gmail.com)

 [www.northbengalwildanimalspark.in](http://www.northbengalwildanimalspark.in)

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