



GOVERNMENT OF NAGALAND
OFFICE OF THE DIRECTOR, NAGALAND ZOOLOGICAL PARK
RANGAPAHAR::DIMAPUR
E-mail:zoomail.nzp@gmail.com



No. DIR/NZP/GEN-01/44/44

Dated Rangapahar the 13th May 2024

To,

✓ The Chief Wildlife Warden
Nagaland Dimapur

Sub: Submission of Annual Report for Nagaland Zoological Park for the year 2023-24.

Sir,

On the subject mentioned above, kindly find enclosed herewith a copy of Annual report of Nagaland Zoological Park, Rangapahar for the year 2023-24 for your kind information.

Thanking you.

Enclosed: As stated above.

Yours faithfully,

(Dr. C. Zupeni Tsanglai) IFS

Director

Nagaland Zoological Park
Rangapahar::Dimapur

No. DIR/NZP/GEN-01/44/

Dated Rangapahar the 13th May 2024

Copy to:

1. The Member Secretary, Central Zoo Authority of India, @cza.nic for kind information.
2. Office Copy

Director

Nagaland Zoological Park
Rangapahar::Dimapur

**NAGALAND ZOOLOGICAL PARK, RANGAPAHAR
CHUMOUKEDIMA NAGALAND**



**Annual Report
Year 2023-24**

**Department of Environment, Forests & Climate Change
Government of Nagaland**



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1. Report of the Director

The Nagaland Zoological Park, Rangapahar is located at about 8 km from the commercial city of Dimapur in the state of Nagaland. It has a total area of 176 Hectares and now falls under the new district administration of Chumoukedima district of Nagaland. It has a gentle rolling topography with a number of low-lying areas ideal for aquatic birds. The Dhansiri (Dansiri) River flows on the western side of the zoo. Climate of this area is hot and humid in the summer months of April to May, from the month of June; rains commence and continue till the early part of October. Mild winter starts from November to February-March. The altitude of the area ranges from 45 – 163 m above mean sea level.

The Park has a collection of captive mammals, birds and reptiles, mostly indigenous to the region. The species presently housed in the Zoo includes endangered species like Western Hoolock gibbon, Slow Loris, Asian Brown Tortoise, Royal Bengal Tiger and Black Soft-Shell Turtle. Others include Sambar Deer, Barking Deer, Spotted Deer, Common Leopard, Himalayan Black Bear, Macaques, Jackal, Leopard Cat, Jungle Cat, Porcupines and Civet. Reptiles include Turtles, Tortoise and Burmese Python. The Zoo has among its collection three different species of Hornbills namely, Oriental Pied Hornbill, Rufous necked Hornbill and Brown Hornbill. Birds of prey include Owls, Crested Serpent Eagle, and Black Kite. Other smaller birds on display include Great Barbet, Pompadour Green Pigeon, Spotted Dove, Turtle Dove and Vulture.

The Park also has a rich diversity of plants species including a number of fruit-bearing species which attracts many species of birds during the fruiting season. Numerous species of flowering plants are also abundantly found inside the park. Some important tree species include *Artocarpus* sp., *Terminalia chebula*, *Tectona grandis*, *Mesua ferea*, *Bischofia javanica*, *Ficus* spp, etc. Trees especially fruit-bearing species are planted every year to increase tree cover and improve habitat of the park for the birds and animals. Some fruit species viz. *Mangifera indica*, *Melia azadirach*, *Terminalia tomentosa*, *Embellica officinalis*, *Artocarpus heterophyllus*, *Tamarindus indica*, *Erithryna* sp., *Bambusa* sp., *Gmelina arborea*, etc have been planted apart from the other tree species. Many species of medicinal plants are also found naturally inside the park.

The zoo also houses within its boundary wall many free-ranging species of birds and animals. About 56 species of birds that dwell in the forested areas of the park have already been recorded inside the park. About 200 plus species of butterflies have also been recorded within the park. One can enjoy these fluttering insects amidst the hustle and bustle of the zoo in the specially created park called named as "Butterfly Park" adding to the natural beauty of the area.

As part of zoo education and research, during the year the zoo was able to impart training to Student Interns from various colleges and universities of India. Zoo Volunteer works were undertaken and open to any individual who wishes to contribute to the cause towards the conservation of wildlife. And for this many wildlife enthusiasts come forward to help the zoo during occasions such as World Environment Day, Wildlife Week, Cleanliness Drive, etc.

At present the Zoo is undertaking various animal exchange programs being initiated with the different zoos in India. In addition, animal acquisition is also done to increase the number of specimens for ultimate display for the visitors. Efforts are being made to improve the conditions of wildlife within the zoo. Keeping pace with the need of the growing populace of the city and to create awareness as well as educate the mass about the conservation of wildlife, the zoo makes keen effort to improve

management of our captive wildlife. Starting with 10 different species of animals and birds totalling upto 64 for display initially in the year 2008, in a span of 15 years, the zoo now houses 48 different species of animals and birds putting the total collection of 360 plus specimens in March 2024.

The comprehensive Master Plan of Nagaland Zoological Park has been prepared and submitted to the Central Zoo Authority for approval. In this regard the Master (Layout) Plan has been approved in 12.08.2014. All the developmental works are being carried out according to the Master Plan Layout which had been approved by the Central Zoo Authority. The animal enclosures have been progressively designed to create large enclosures in the natural environment. The abundant space offered by the zoo has been targeted to setup various safaris in the future. The animal keepers are regularly taken for medical check-ups to keep track of any zoonotic diseases they might acquire through the daily handling of animals. Other regular activities regarding the monitoring of animal healthcare are done with the monitoring staff led by in-house veterinary doctor to prevent any outbreak of diseases in the zoo. The training of zoo keepers, orientation training of zoo guides, training for field staff on tranquilization techniques and exposure trips were organized during the year for capacity building of Zoo personnel.

This Annual Report provides various information on the management and development of Nagaland Zoological Park during the year 2023-24. The exciting relationship between the visitors and wildlife will be further strengthened in the future years to come. I hope, in the coming years, Nagaland Zoological Park will continue to grow as an outstanding centre for wildlife conservation, education and research.

C. Zupeni
Dr. C. Zupeni Tsanglai, IFS
DIRECTOR
Nagaland Zoological Park
Director
Nagaland Zoological Park
Rangapahar : Nagaland

2. History of the Zoo

In the year 1916 an area of 6816 acres of Rangapahar Forest was declared as reserved forest. An area of 7865 acres was later added to the reserved forest in the year 1919. In the year 1924 the total area was increased to 1768.4 acres. A portion of the reserved forest measuring 470 Hectares was declared as Rangapahar Wildlife Sanctuary in 1986 Vide. Govt. Notification No. FOR-84/84 dt. 17/06/86. An area of 176 Hectares was earmarked and was fully fenced with brick wall stretching upto nearly 7 km around for Zoological Park.

The Zoo was officially inaugurated on 28th of August 2008 and is currently recognized as a category **Medium Zoo** under the Central Zoo Authority.

Apart from the wildlife in captivity, the park also has a rich biodiversity of plants, animal and bird species inhabiting the forest areas within it. Conservation and protection of biodiversity both flora and fauna form an important function of the Zoo.



Layout Plan of the Zoo

3. Vision

The Nagaland Zoological Park envisage the need to protect conserve and rehabilitate the wildlife that are endemic to the state, and for this the zoo provides an ideal location to conserve, upkeep and breed the species that are now facing population decline and nearing extinction. It is the vision of Nagaland Zoological Park that all the animals find this place a safe haven for them to live and propagate for future existence. The zoo also wishes to become an integral part in the tourist map of Nagaland.

4. Mission

The Mission of Nagaland Zoological Park is to inculcate and develop a sense of caring towards flora and fauna. To serve as a Conservation Centre for flora of North-East India in general and Nagaland in particular and to promote awareness, educate and provide recreation for the people of the State.

5. Objective

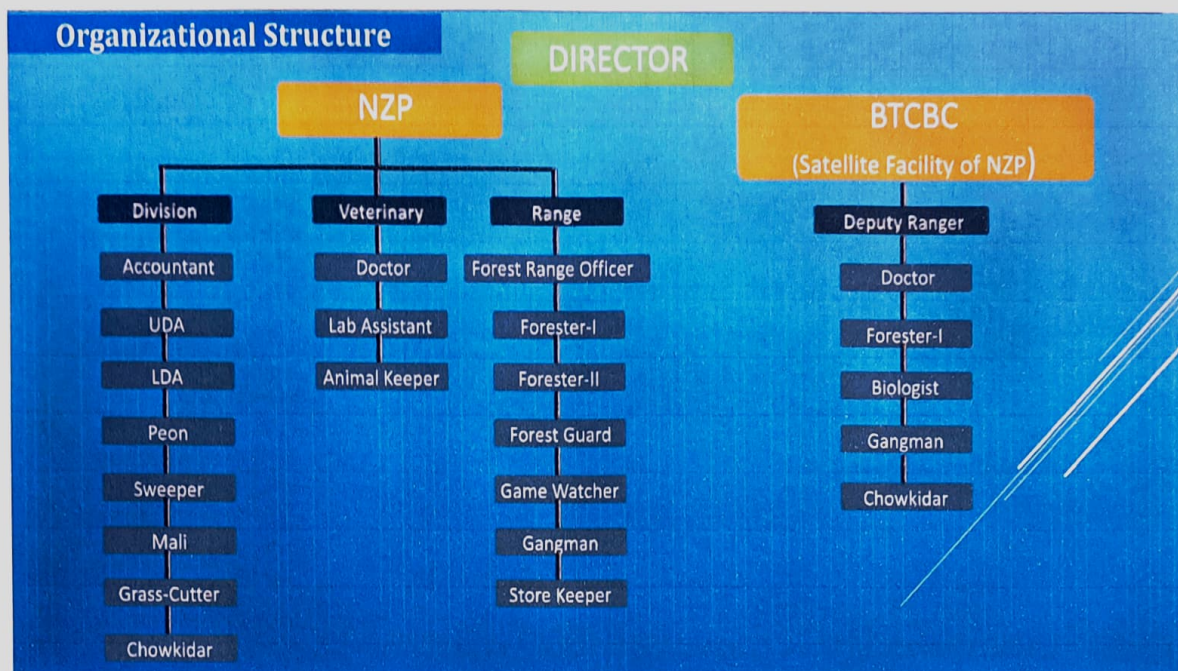
1. *Ex-situ Conservation programme for the fauna of North-East India and Nagaland.*
2. *Initiate captive breeding of endangered species of the area.*
3. *Promoting Zoo as an institute for Conservation awareness education programme for the people of the state and thus enhance awareness on wildlife conservation.*
4. *As a Centre for conducting scientific studies on the fauna.*
5. *To provide educative and recreational facilities for the people of the state.*

6. About us

Sl.No	Particulars	Information
Basic Information about the Zoo		
1	Name of the Zoo	Nagaland Zoological Park
2	Year of Establishment	2008
3	Address of the Zoo	Nagaland Zoological Park Rangapahar, Chumoukedima - 797115
4	State	Nagaland
5	Telephone Number	9410572885
6	Fax Number	NA
7	E-mail address	zoomail.nzp@gmail.com
8	Website	NA
9	Distance from Nearest	Airport : 9.8 km
		Railway Station : 7.4 km
		Bus Stand : 7.7 km
10	Recognition Valid upto (Date)	19 th August 2022
11	Category of zoo	Medium Zoo
12	Area (in Hectares)	176 Hectares
13	Number of Visitors (2022-23)	Adult : 90932
		Children : 31429

		Total Indian : NA
		Total Foreigners : NA
		Total Visitors :122361
14	Visitors' Facilities Available in Zoo	Toilets, Resting Sheds, Roadside Benches, Visitors Walkways, Visitors' Information Booth, Drinking Water Points, Route Direction Signboards, Guide Maps, Species Information Boards/Charts, Canteen, Recreational Area, and Battery-operated vehicle, Wheel Chairs, Umbrella, E-Rickshaw and Car Parking.
15	Weekly Closure Day of the Zoo	Every Monday of the week.
Management Personnel the Zoo		
16	Name with designation of the Officer-in-charge	Dr. C. Zupeni Tsanglai, IFS Deputy Conservator of Forests (DCF)
	Name of the Veterinary Officer	I. Dr. Micheal R Tsanglao, Zoo Vet (<i>Honorarium</i>)
	Name of the Curator	Smt. Watisungla Amer, SFS
	Name of the Biologist	NA
	Name of the Education Officer	NA
	Name of the Compounder/Lab Assistant	NA
Owner/Operator of the Zoo		
17	Name of the Operator	Principal Secretary,
18	Address of the Operator	Principal Secretary, Department of Environment, Forests & Climate Change, Government of Nagaland, Nagaland Kohima
19	Contact details/Phone number of Operator	09436001788
20	E-mail address of Operator	ng019@ifs.nic.in

7. Organizational Chart



8. Human Resources

Manpower of the Nagaland Zoological Park, Rangapahar

Sl. No	Designation	Number of Sanctioned Posts	Names of the incumbent
1	Director	1	1. Dr. C. Zupeni Tsanglai, IFS
2	Forest Range Officer	1	1. Smt. Watisungla Amer, SFS
3	Veterinary Officer	1	1. Dr. Micheal R Tsanglao, Zoo Vet (On Honorarium)
5	Forester-I	8	1. Shri. Hingcu Lungalang 2. Shri. Mughato L. Awomi 3. Smt. Maongkala Jamir 4. Shri. Vinoto. K. Rochill 5. Shri. Inoto G. Chophy 6. Shri. Disurai Kaurinta 7. Shri. Kevipule 8. Shri. N. Imdong Jamir
6	Forest Guard	11	1. Shri. Tokugha Chishi 2. Shri. A. Hotovi Sumi 3. Shri. V. Zakato Chishi 4. Shri. Kapcha Singsit 5. Shri. Awangbo Rentta 6. Shri. Samzaiding 7. Shri. Zulutemjen Longkumer 8. Shri. Imtitong dang Ao 9. Shri. Vekuta 10. Shri. Longchi Konyak 11. Smt. Liwan Konyak

7	UDA	1	1. Smt. Banko Pansi
8	UDA cum C/A	4	1. Shri. T. Marokden 2. Shri. Yensengangte 3. Smt. Aying Konyak 4. Shri. Marhong
9	Store Keeper	1	1. Smt. T. Hoshbevi
10	Game Watcher	4	1. Shri. H. HihooChishi 2. Shri. AshetoKimi 3. Shri. Tensuzabi Jamir 4. Shri. Medolhoude Mehta
11	Driver	1	1. Shri. Merensashi
12	W/Operator	1	1. Shri. Yarenthung Patton
13	Gangman	1	1. Shri. LamthaiSoucho
14	Animal Attendant	3	1. Shri. T. Ruchu 2. Shri. N. BongkhaoKonyak 3. Shri. BirBahadurSamar
15	Mali	2	1. Shri. I. Hebo 2. Shri. Y. KhehosheSumi
16	Grass Cutter	2	1. Shri. SukoKhamnungan 2. Shri. Hosheto
17	Cook	2	1. Shri. KakupuChishi 2. Shri. H. KiyetoChishi
18	Sweeper	2	1. Smt. SeniaJemu 2. Smt. A. KhutoliAchumi
19	Chowkidar	3	1. Shri. Neingumezo 2. Shri. Vighoto 3. Shri. HushetoAwomi
	Total	49	

Manpower of the Blyth's Tragopan Conservation & Breeding Centre, Kohima under Nagaland Zoological Park, Rangapahar

Sl.No	Designation	Number of Sanctioned Posts	Names of the incumbent
1	Officer-in-Charge/ Deputy Ranger	1	1. Smt. Watisungla Amer, SFS (Additional Charge)
2	Veterinary Officer	1	1. Dr. KevisetoKintso (On Honorarium)
3	Forester-I	4	1. Smt. Kiukhenshi S Yimchunger 2. Smt. Mathiam T Hanso 3. Shri. Theja-o Rhutsa 4. Shri. KevisozoKeditsu
4	Biologist	1	1. Smt. KaniliRakho (On Honorarium)
5	Gangman	1	1. Smt. Toshimongla
	Total	8	

9. Capacity Building of zoo personnel

Sl. No.	Name and designation of the zoo personnel	Subject matter of training	Period of Training	Name of the Institution where the Training attended
1	Zoo Keepers	Zoo Keepers Training	2 days 18.12.23 to 20.12.23	Assam State Zoo cum Botanical Garden, Guwahati
2	Staff	In- Service Training	6 Months	SEFTI

10. Zoo Advisory Committee

- a. Date of Constitution :31st March 2016
- b. Chairman: The Principal Chief Conservator of Forests & Chief Wildlife Warden, Nagaland Dimapur
- c. Member Secretary: Director, Nagaland Zoological Park
- d. Members:
 - i. Conservator of Forests (Wildlife & Biodiversity)
 - ii. The Deputy Commissioner, Dimapur
 - iii. The Commissioner of Police, Dimapur
 - iv. The Chief Executive Officer, Dimapur Municipal Council
 - v. The Deputy Director, Veterinary Hospital, Dimapur
 - vi. The Executive Engineer, Roads & Bridges.
- e. Dates on which Meetings held during the year
NA

11. Health Advisory Committee

The Zoo is yet to constitute a Health Advisory Committee.

12. Statement of income and expenditure of the Zoo

STATEMENT OF INCOME & EXPENDITURE FOR THE YEAR 2023-24

(Amount in Lakhs of Rupees)

	STATE NON-PLAN		CZA GRANTS		Feeds	Revenue	Total
	Developmental	Non-Developmental	Developmental	Non-Developmental			
Income/ Allotment	NIL	398.85	31.03	15.68	99.12	23.39	568.07
Expenditure	NIL	398.85	31.03	15.68	99.12	12.72	557.40
Balance	NA	NIL	NA	0.00	NIL	10.67	10.67

13. Daily Feed Schedule of Animals

Sl. No	Species (Per Individual)	Feed item	Quantity (in kg)		Day of fasting
			Winter	Summer	
1	Bear	Bread	0.2	0.2	
		Mango	0.2	0.2	
		Jackfruit	0.2	0.2	
		Maize	0.2	0.2	
		Pumpkin	0.5	0.5	
		Wheat bran	0.2	0.2	
		Common salt	0.05	0.05	
		Rice	0.5	0.5	
		Molasses	0.1	0.1	
2	Tiger	Beef	8	8	Monday
		Chicken (dressed)	2	2	
3	Common leopard	Beef	4	4	Monday
		Chicken (dressed)	1.5	1.5	
4	Leopard cat	Chicken (dressed)	0.3	0.3	Monday
5	Common jackal	Beef	0.8	0.8	Monday
		Banana	0.2	0.2	
		Molasses	0.1	0.1	
6	Wild Dog (Dhole)	Beef	0.8	0.8	Monday
		Banana	0.2	0.2	
		Molasses	0.1	0.1	
7	Civets	Banana	0.1	0.1	
		Apple	0.05	0.05	
		Mango	0.05	0.05	
		Guava	0.05	0.05	
		Boiled Egg	1	1	
8	Deer	Banana	0.2	0.2	
		Wheat bran	0.2	0.2	
		Gram	0.2	0.2	
		Common salt	0.05	0.05	
		Soya flakes	0.1	0.1	
		Cabbage	0.2	0.2	
		Molasses	0.1	0.1	
9	Spotted Deer	Wheat bran	0.1	0.1	
		Gram	0.2	0.2	
		Common salt	0.05	0.05	
		Soya flakes	0.1	0.1	
		Cabbage	0.5	0.5	
		Molasses	0.1	0.1	
10	Sambar	Lessara	0.2	0.2	
		Wheat bran	0.3	0.3	
		Black salt	0.05	0.05	
		Cabbage	0.5	0.5	

		Gram	1.5	1.5	
		Common salt	0.05	0.05	
		Soya flakes	0.1	0.1	
		Molasses	0.20	0.20	
11	Slow loris	Banana	0.1	0.1	
		Apple	0.03	0.03	
		Papaya	0.05	0.05	
		Mango	0.05	0.05	
		Guava	0.05	0.05	
		Jackfruit	0.05	0.05	
		Grapes	0.01	0.01	
		Boiled Egg	1	1	
12	Monkeys	Banana	0.2	0.2	
		Carrot	0.1	0.1	
		Orange	0.1	0.1	
		Papaya	0.1	0.1	
		Mango	0.1	0.1	
		Guava	0.1	0.1	
		Coconut	0.1	0.1	
		Green Pea	0.05	0.05	
		Jackfruit	0.2	0.2	
		Pumpkin	0.05	0.05	
		Boiled Egg	1	1	
13	Hoolock Gibbon	Banana	0.1	0.1	
		Apple	0.1	0.1	
		Papaya	0.1	0.1	
		Mango	0.1	0.1	
		Guava	0.1	0.1	
		Jackfruit	0.2	0.2	
		Grapes	0.05	0.05	
		Boiled Egg	1	1	
		Green Pea	0.05	0.05	
		Sweet Potato	0.1	0.1	
		Coconut	0.1	0.1	
		Bread	0.2	0.2	
14	Porcupines	Pumpkin	0.2	0.2	
		Maize	0.1	0.1	
		Carrot	0.1	0.1	
		Yam	0.2	0.2	
15	Hornbills	Papaya	0.1	0.1	
		Tomato	0.2	0.2	
		Banana	0.1	0.1	
		Mango	0.1	0.1	
		Boiled Egg	1	1	
		Apple	0.05	0.05	
		Grapes	0.1	0.1	
		Rice	0.1	0.1	
16	Kite	Chicken	0.15	0.15	Monday
17	Owls	Chicken	0.15	0.15	Monday

18	Peahen	Cabbage	0.1	0.1
		Tomato	0.2	0.2
		Maize	0.1	0.1
		Dry fish	0.02	0.02
		Green pea	0.1	0.1
		Broken rice	0.1	0.1
19	Emu	Cabbage	0.5	0.5
		Poultry feed	0.3	0.3
		Maize powder	0.25	0.25
		Wheat bran	0.2	0.2
		Broken rice	0.1	0.1
20	Red Jungle Fowl	Cabbage	0.1	0.1
		Poultry feed	0.2	0.2
		Maize	0.1	0.1
		Green pea	0.1	0.1
		Broken rice	0.1	0.1
21	Green Pigeon	Banana	0.05	0.05
		Papaya	0.05	0.05
		Guava	0.05	0.05
		Broken rice	0.05	0.05
22	Burmese Tortoise	Cabbage	0.3	0.3
		Sweet Potato	0.3	0.3
		Pumpkin	0.2	0.2
		Yam	0.3	0.3
23	Turtles	Molluscs	0.1	0.1
		Aquatic plants	0.1	0.1
		Cabbage	0.2	0.2
24	Star Tortoise	Sweet Potato	0.03	0.03
		Pumpkin	0.03	0.03
		Yam	0.03	0.03
		Green leaves	0.1	0.1
25	Burmese Python	Chicken	4	4

14. Vaccination Schedule of Animals

Sl. No	Species	Date	Vaccine Used	Remark
1.	Dholes	27/06/2023	Vanguard plus 5L4, Antirabies (Raksharab)	Administered
2	Tigers	05/08/2023	Felovax, Antirabies (Raksharab)	Administered
3	Leopard	29/08/2023	Felligen, Antirabies (Raksharab)	Administered

15. De-worming Schedule of Animals

Sl. No	Species	Date	Oral/ Injection	Remark
1	Dhole (Wild Dog), Jackals	28/01/ 2024	Ivermectin 10 mg mixed in meat @.5mg/kg bwt.	As per Stool screening results every 3 months.
2	Barking Deer, spotted deer	do	Ivermectin 1.5 g mixed in feeds @ .3 mg/kg bwt	do
3	Macaques/ primates	do	Fenbendazole 150mg in feeds	do
4	Large Cats	do	Ivermectin 1.5 g mixed in meat @.5mg/kg bwt.	do
5	Large Mammals	do	Ivermectin 1.5 g mixed in meat @.3mg/kg bwt.	do
6	Birds of prey	do	Fenbendazole .50mg /kg bwt.	do

16. Disinfection Schedule

Sl. No	Species	Date	Oral/ Injection	Remark
1	All the enclosures	All Year Round	KMnO ₄ mixed in water @10g in 25 litres every week inside the cell.	Daily cleaning with water.

17. Health Check-up of employees for Zoonotic diseases

The following Zoo staffs of Animal Section were sent for Regular Medical Checkup/Screening at District Civil Hospital, Dimapur. They were tested for zoonotic diseases and also basic health check-up was done to ensure their good health. No one was found to have any type of zoonotic diseases apart from minor complaints that are easily treatable by OTC medicines.

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

Sl. No.	Name of Work	Grant	Status	Year of Completion
1	Enrichment of enclosure	0.72 L	Completed	2023
2	Construction of Aviary at BTCBC	88.00L	Completed	2023
3	Construction of Slow Loris Enclosure	27.03L	Ongoing	2024
4	Environment Enrichment	4.00L	Ongoing	2024

19. Education and Awareness programmes during the year

Sl.No	Program	Date	Participants
1	Awareness Campaign	29 th May 2023	Staff
2	World Environment Day 2023	5 th June 2023	Students from various schools and colleges
3	Flag Hoisting Independence Day 2023	15 th Aug 2023	Staff
4	Wildlife Week Celebration	2 nd to 8 th October 2023	Staff and Invitee Students.
5	Students Internship	All the year round	Students and researchers from various technical colleges in India.
6	1 st Hornbill Run 2023	4 th December 2023	General Public
7	Cleaning and Plantation at Herbal Garden	Quarterly 2023	Unity College, Dimapur
8	Flag Hoisting Republic Day 2024	26 th Jan 2024	Staff
9	Mission Life Awareness Campaigns	29 th May 2023 2 nd June 2023	Staff
10	Celebration of International Biodiversity Day 2023	22 nd May 2023	Students and staff
11	One Day Zoo Staff Orientation 2023	29 th May 2023	Staff

20. Important Events and happenings (Photographs)



Fig 1: Wildlife Week Celebration 2023



Fig 2: Mission Life Awareness Campaign 2023



Fig 3: Felicitation of Painting Competition Winners during Wildlife Week Celebration 2023



Fig 4: Felicitation of Conservation Heroes during Wildlife Week Celebration 2023



Fig 5: Rescue and release of Pangolin inside NZP



Fig 6: Celebration of World Environment Day 2023 with Hon'ble Minister as Special Invitee



Fig 7: Plantation during World Environment Day 2023 with Hon'ble Minister



Fig 8: Innovative Product Making during World Environment Day 2023



Fig 9: Unity College Students during their routine maintenance program at Herbal Garden



Fig 10: St. John School Dimapur Exposure Trip 2023



Fig 11: Presentation of Pied Hornbill Conservation at NZP in Thailand during Hornbill Conference



Fig 12: Eco Warrior Bird Count at NZP



Fig 13: 1st Hornbill Run 2023 at NZP



Fig 14: 1st Hornbill Run 2023 at NZP



Fig 15: Stalls during the 1st Hornbill Run 2023 at NZP



Fig 16: Observance of SwachhataPakhwada under Swachhata Hi Seva Campaign 2023



Fig 17: Visit of Shri. Prakash Padukone (State Guest) on 5th Dec 2023 at NZP



Fig 18: Shri. Ajay, Zoo Evaluator CZA during Zoo Evaluation at NZP

21. Seasonal special arrangements for upkeep of animals

Sl.No.	Species	Upkeep	Status
1	Hornbills	Enclosure Enrichment	Completed and Utilizing
2	Wild Dog	Enclosure Enrichment	Completed and Utilizing
3	Assamese Macaque	Secondary Protection	Completed
4	Oriental Pied Hornbill	Artificial Nesting Box	Completed and Utilizing
5	Hoolock Gibbon	Enclosure Enrichment Structures	Completed and Utilizing
6	Asian Black Bear	Enclosure Enrichment Structures and Shelter	Completed
7	Burmese Python	Strengthening of exhibit closures	Completed

22. Research Work carried out and publications

1. "A Survey on Butterflies of Nagaland Zoological Park" by Shri. P. Thirumalainathan, Zoo Biologist (*Unpublished*)
2. "Free-Ranging Birds of Nagaland Zoological Park" by Shri. OnenjungshiAo, Photographer.
3. "A Study on Incubation Methods of Asian Giant Tortoise" by Shri. Vinoto K. Rochill, Forester-I (*Unpublished*)

23. Conservation breeding programme of the Zoo

Sl.No.	Species	Status
1	Conservation Breeding of Burmese Tortoise in collaboration with Turtle Survival Alliance - India	Successful hatching for the 5 th Year.
2	In-house breeding programme for Oriental Pied Hornbills.	Successful nesting and hatching during the year.
3	Conservation Breeding of Blyth's Tragopan under CZA	Successful nesting and hatching.
4	Artificial Incubation of eggs of selected species.	<i>Under Trial</i>

24. Animal acquisition/transfer/exchange during the year

There was no Animal Exchange during the year 2023-24.

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

Sl. No	Date of Rescue	Species with number of animals rescued with their sex (M:F:U:T)	Received from	Date of Submission of Report to the CWLW/CZA	Action taken	
					Date and Place of rehabilitation in their habitat	Reasons for housing in the zoo, if not released in their habitat
1	02.04.2023	Slow Loris (0:0:2:2)	Aoyimkhum, Dimapur	15.06.2023	-	Loss of Habitat
2	10.01.2023	Sangai Deer (1:1:0:2)	Viswema Village, Near Mao Gate, Kohima	10.03.2023	-	Loss of Habitat
3	07.09.2023	Assamese Macaque (1:0:0:1)	Dimapur			
4	16.10.2023	Slow Loris (0:0:1:1)	Aoyimkhum, Dimapur	15.12.2023		
5	30.10.2023	Slow Loris (0:0:1:1)	Aoyimkhum, Dimapur	15.12.2023		
6	09.11.2023	Himalayan Black Bear (1:0:0:1)	Kohima		-	Loss of Habitat

7	23.11.2023	Peacock Soft Shell Turtle (0:0:1:1)	Chumoukedima	-	Loss of Habitat
8	23.11.2023	Peacock Soft Shell Turtle (0:0:1:1)	Chumoukedima	-	Loss of Habitat
9	29.11.2023	Great Barbet (0:0:1:1)	Dimapur	-	Loss of Habitat
10	12.12.2023	Gharial (1:0:0)	Captive	-	Sexing (Re-identification)
11	10.12.2023	Burmese Python (0:0:1:1)	Chumoukedima	-	Loss of Habitat
12	09.01.2024	Malayan Box Turtle (0:1:0)	Niuland	-	Loss of Habitat
13	15.02.2024	Asian Leaf Turtle (0:0:1)	Dimapur	-	Loss of Habitat
14	23.02.2024	Asian Leaf Turtle (0:0:2)	Dimapur	-	Loss of Habitat
		4:2:11:17			

26. Annual Inventory of animals

Form – II
[See Rule 11(1)]
Part - A

Inventory Report for the year: 2023-24

Endangered Species

Mammals	-	Species – 19	Specimens	-	106
Birds	-	Species – 3	Specimens	-	12
Reptiles	-	Species – 7	Specimens	-	21
Total	-	Species – 29			139

Part – B

Other than Endangered Species

Mammals	-	Species – 4	Specimens	-	50
Birds	-	Species – 9	Specimens	-	32
Reptiles	-	Species – 5	Specimens	-	148
Total	-	Species – 18			230

Total Population – 369

27. Mortality of animals

Mortality of animals and birds during the year 2023-24

Sl.No.	Species name	M	F	J	Un	Total	DATE OF DEATH	AGE CLASS
1	Gharial	1	0	0	0	1	27.05.2023	Adult
2	Sambar Deer	1	0	0	0	1	18.06.2023	Adult
3	Stump Tail Macaque	1	0	0	0	1	06.08.2023	Adult
4	Rhesus Macaque	1	0	0	0	1	20.09.2023	Adult
5	Himalayan Black Bear	1	0	0	0	1	18.09.2023	Adult
6	Spotted Dove	0	0	0	1	1	19.09.2023	Adult
7	Spotted Dove	0	0	0	1	1	23.09.2023	Adult
8	Emu	0	1	0	0	1	08.01.2024	Adult
9	Spotted Deer	0	1	0	0	1	15.01.2024	Adult
10	Spotted Deer	0	1	0	0	1	22.01.2024	Adult
11	Jungle Cat	1	0	0	0	1	24.02.2024	Adult
TOTAL		6	3	0	2	11		

28. Status of the Compliance with conditions stipulated by the Central Zoo Authority

The Zoo has been recognized as a medium zoo by the Central Zoo Authority, New Delhi upto 19th August 2022. All efforts and attempts are being made to comply with the stipulated conditions for continuation of recognition of the zoo. The zoo is continuously working towards the development of infrastructures and facilities within the zoo for the captive wildlife, visitors and zoo personnel.

History Card of captive wildlife species, where mandatory, is being maintained. Pairing of single sexed captive wildlife is being initiated on priority and few captive wildlife has been successfully paired through the animal exchange programme.

Priority is being accorded to follow de-worming schedule and vaccination schedule of all captive wildlife. Routine mandatory health check-up for the staff is being conducted through the assistance from the District Hospital authorities of Dimapur.

In-house conservation breeding programme is being taken up for the selected species and potential conservation breeding programme for funding through Central Zoo Authority has been identified.


C. Zuberi
Director
Nagaland Zoological Park
Rangapahar : Nagaland


Thank You


Do Visit Us

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