



GOVERNMENT OF NAGALAND
OFFICE OF THE DIRECTOR, NAGALAND ZOOLOGICAL PARK
RANGAPAHAR::DIMAPUR

No. DIR/NZP/GEN-60/

Dated Rangapahar 21st April 2020.

To,

The Member Secretary
Central Zoo Authority
New Delhi.

SUB: Submission of Annual Report for Nagaland Zoological Park for the year 2018-19.

Ref:- Your e-mail dated 7th April 2020.

Sir,

On the subject mentioned above, kindly find enclosed herewith a soft copy (in pdf format as directed) of Annual report of Nagaland Zoological Park, Rangapahar for the year 2018-19 for your information and further necessary action.

Thanking you.

Enclosed: As stated.

Yours faithfully,

(PRABHAT KUMAR, IFS)
Director

Nagaland Zoological Park
Rangapahar::Dimapur

Dated Rangapahar 21st April 2020.

No. DIR/NZP/GEN-60/

Copy to:

1. The Chief Wildlife Warden, Nagaland Dimapur for information.
2. Office copy.

Director

Nagaland Zoological Park
Rangapahar::Dimapur

**NAGALAND ZOOLOGICAL PARK, RANGAPAHAR
DIMAPUR NAGALAND**



Annual Report for the year 2018-19



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1. Report of the Officer-in-Charge

The Nagaland Zoological Park is located at about 8 km from the commercial city of Dimapur in the state of Nagaland with total area of 176 Hectares. The topography of the zoo is gentle rolling with a number of low lying areas ideal for aquatic birds. The Dhansiri 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 about 360 plus captive wildlife comprising mammals, birds and reptiles mostly indigenous to the region including a number of threatened and endangered species. The mammalian species presently housed in the Zoo are Sambar Deer Barking Deer, Spotted Deer, Common Leopard, Himalayan Black Bear, Slow Loris, Common Capped Langur, Macaques, Hoolock Gibbon, Bengal Tiger, Jackal, Leopard Cat, Red Serow, Asiatic Brush tailed Porcupine, Malayan Porcupine and Asian Palm Civet. 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 Wood Owl and Black Kite. Other bird on display includes Great Barbet, Pompadour Green Pigeon and Turtle Dove. The Park also has among its collection some rare species of tortoises and turtles being displayed in the Reptile enclosure.

The Park 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 includes *Artocarpus ssp*, *Terminalia chebula*, *Tectona grandis*, *Mesua ferrea*, *Bischofia javanica*, *Ficus spp*, *Spondia ssp*, *Castanopsis ssp*, *Anthocephalus kadamba*, *Bombax ceiba*, *Tetramelus nudiflora*, *Treva nudiflora*, *Bauhinia sp*, *Largestromia sp*, 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*, *Embelica 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 some free-ranging species of birds and animals. About 100 species of birds that dwell in the forested areas of the park have already been recorded inside the park. More than 200 species of butterflies has also been recorded within the park. One can enjoy these fluttering insects amidst the hustle and bustle of the zoo in the specifically demarcated route named as “Butterfly Pass” which is a scenic route and adding to the natural topographical beauty of the area are the presence of a variety of butterflies.

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 with other zoos in India. Notable exchange during the year includes the exchange of a pair of Indian Wolf from Mysuru Zoo, Karnataka for the Himalayan Black Bear from our zoo. Other similar exchange programs are being initiated with the different zoos in India. In addition animal acquisition is also done to increase the number of specimen 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

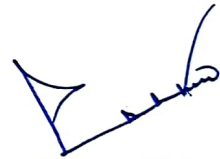
well as educate the mass about the conservation of wildlife, the zoo makes keen effort to improve management of our captive wildlife. Starting with 10 different species of animals and birds totalling upto 64 for display initially in the year 2008, in a span of about 10 years, the zoo now houses 53 different species of animals and birds putting the total collection of 362 specimens as of March 2019.

The comprehensive Master Plan of Nagaland Zoological Park has been prepared and submitted to the Central Zoo Authority for approval. 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 comprehensive information on the management and development of Nagaland Zoological Park during the year 2018-19. The exciting relationship between the visitors and wildlife will be further strengthened in the future years to come. I hope, during the coming years, Nagaland Zoological Park will continue to grow as an outstanding centre for wildlife conservation, education and research.



Prabhat Kumar, IFS
DIRECTOR
Nagaland Zoological Park

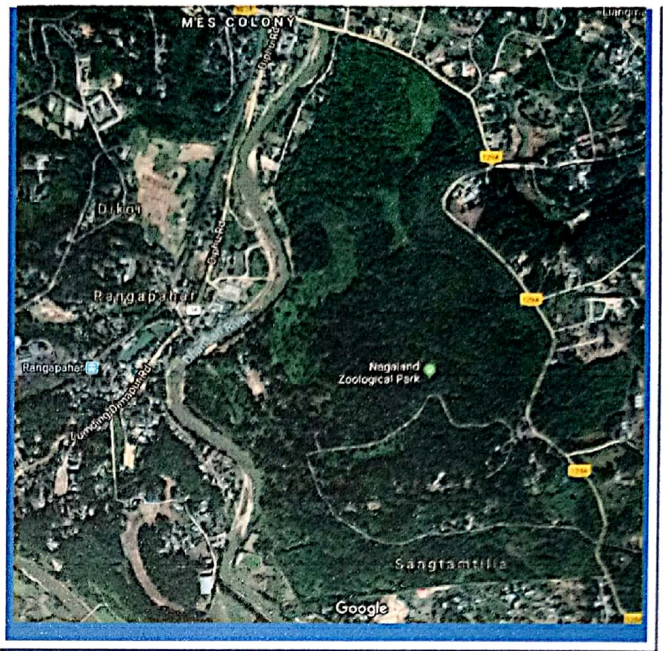
Director
Nagaland Zoological Park
Rangapahar : Nagaland

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 Recognition Rules valid upto 23rd August 2019.

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



An Aerial View 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

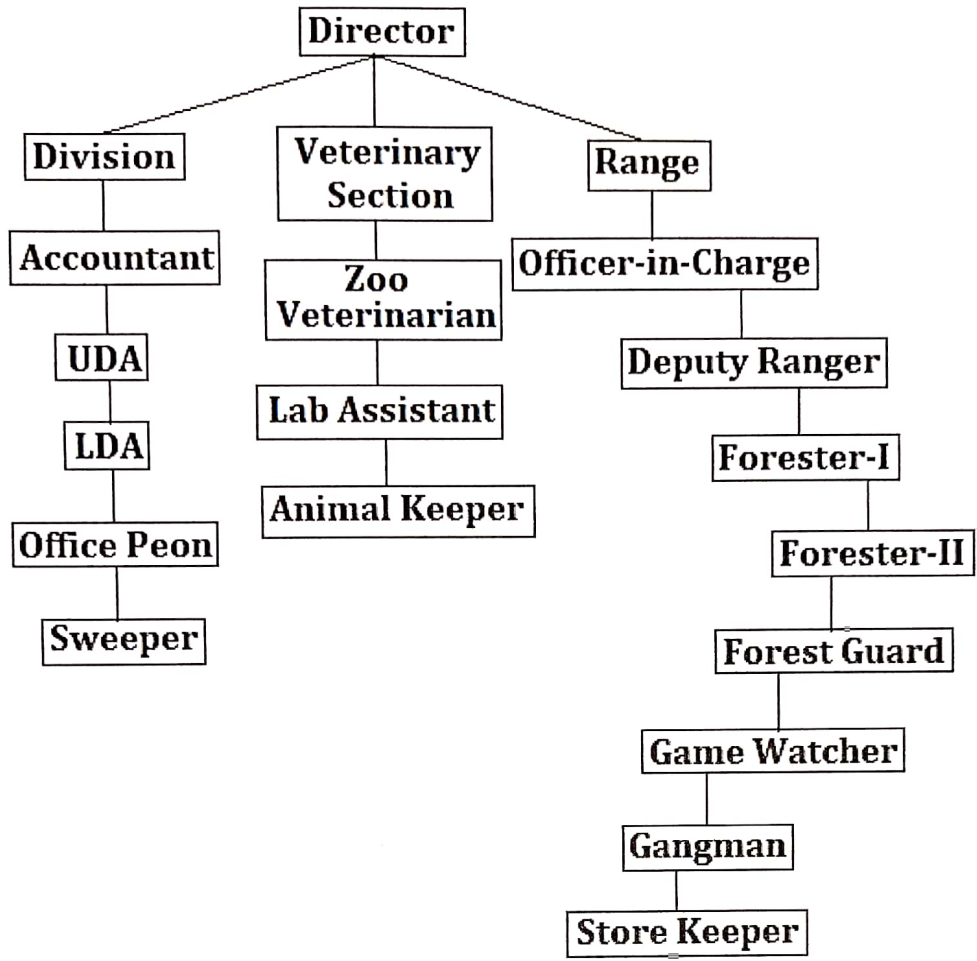
1. Ex-situ Conservation programme for the fauna of North-East India and Nagaland.
2. Initiate captive breeding of endangered species of the area.
3. Promoting Zoo as an institute for Conservation awareness education programme for the people of the state and thus enhance awareness on wildlife conservation.
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, Dimapur - 797112
4	State	Nagaland
5	Telephone Number	8368693811, 7005405933
6	Fax Number	NA
7	E-mail address	zoomail.nzp@gmail.com
8	Website	www.nagalandzoologicalpark.org
9	Distance from Nearest	Airport : 9.8 km
		Railway Station : 7.4 km
		Bus Stand : 7.7 km
10	Recognition Valid upto (Date)	23 rd August 2019
11	Category of zoo	MediumZoo
12	Area (in Hectares)	176 Hectares
13	Number of Visitors (Financial Year)	Adult : 71512
		Children :17788
		Total Indian : NA
		Total Foreigners : NA
14	Visitors' Facilities Available in Zoo	Total Visitors :89300
		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,		

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	Shri. Prabhat Kumar, IFS Deputy Conservator of Forests
	Name of the Veterinary Officer	Dr.Rongsenwati Ao (<i>On Honorarium</i>)
	Name of the Curator	Shri. Obed Bohovi Swu Assistant Conservator of Forests
	Name of the Biologist	NA
	Name of the Education Officer	NA
	Name of the Compounder/Lab Assistant	Shri. Viyiho Sema
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. Shri. Prabhat Kumar IFS
1	Officer-in-Charge	1	1. Shri. Obed Bohovi Swu, Assistant Conservator of Forests
2	Deputy Ranger	2	1. Shri. Thripong Sangtam 2. Shri. Tinukaba Ao
3	Forester-I	7	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
4	Forester-II	10	1. Shri. Ghokishe Sema 2. Shri. Imlikaba Ao 3. Shri. Maongnungba 4. Shri. S. Lanuchuba Ao 5. Shri. Z. ShophuYimchunger 6. Shri. L. Chemlise Sangtam 7. Shri. B. Chaulo Chang 8. Shri. V. Ihokhu Sema 9. Shri. V. Tokugha Sema 10. Shri. Lanpenthung Lotha
5	Forest Guard	16	1. Shri. Tokugha Chishi 2. Shri. N. Itovi Chishi 3. Shri. Meyi Jamir 4. Shri. Lemang Konyak 5. Shri. Alise Sangtam 6. Shri. Ato K. Assumi 7. Shri. A. Hotovi Sumi 8. Shri. V. Zakato Chishi 9. Shri. Kapcha Singisit 10. Shri. K. Nikuto Chishi 11. Shri. Awangbo Rentta 12. Shri. Samzaiding 13. Shri. Zulutemjen Longkumer 14. Shri. M. Longyou Phom

			15. Shri. Imtitongdang Ao
			16. Shri. Vekuta
6	Store Keeper	1	1. Smt. T. Lhoshevi
7	Game Watcher	7	1. Shri. N. Temjen Jamir
			2. Shri. H. Nitoho Chishi
			3. Shri. Asheto Kinimi
			4. Shri. Madon Basumatry
			5. Shri. Yehekhu Swu
			6. Shri. Temsuwati Jamir
			7. Shri. Medolhoulie Mehta
8	Animal Attendant	3	1. Shri. T. Ruchu
			2. Shri. N. Bongkhao Konyak
			3. Shri. Bir Bahadur Sunar
9	Mali	2	1. Shri. I. Hebo
			2. Shri. Y. Khehoshe Sumi
10	Grass Cutter	2	1. Shri. Suko Khamnungan
			2. Shri. Hosheto
11	Cook	2	1. Shri. Kakupu Chishi
			2. Shri. H. Kiyeto Chishi
12	Sweeper	2	1. Smt. Senia Jemu
			2. Smt. A. Khutoli Achumi
13	Chowkidar	3	1. Shri. Neingumezo
			2. Shri. Vighoto
			3. Shri. Husheto Awomi
14	Elephant Mahut	1	1. Shri. Krishna Bahadur Chetri
15	B/Operator	1	1. Shri. Yanrethung Patton
	Total	62	

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	Dr. Rongsenwati Ao	Training Workshop on Indian zoo veterinarians	7 th to 9 th Jan 2019	Shri. Chamarajendra Zoological Gardens, Mysuru
2	I. Shri. Samzaiding, Forest Guard	In-Service Training	Jan to Jun 2019	State Environment and Forestry Training Institute, Dimapur Nagaland
3	Zoo Animal Keepers of NZP	Training Program on Turtle Conservation with TSA-India	23 rd Apr 2018	NZP
4	Zoo Animal Keepers of NZP	Artificial Incubator Demo for Tortoise Conservation	24 th Apr 2018	NZP
5	Staff & Volunteers	NIKON Photography Workshop	11 th June 2018	NZP

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 : The 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
 - i. 30th Nov 2018

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 2018-19 (Amount in Lakhs of Rupees)

	STATE NON-PLAN		CZA GRANTS		Feeds	Revenue	Total
	Developmental	Non-Developmental	Developmental	Non-Developmental			
Income/Allotment	222.22	450.17	141.88	0	74.04	21.88	910.19
Expenditure	222.22	416.05	141.88	0	74.04	15.37	869.56
Balance	NIL	34.12	NIL	NIL	NIL	6.51	40.63

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	NIL
		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 (Mal)	0.2	0.2	
		Molasses	0.1	0.1	
6	Wild Dog (Dhole)	Beef	0.8	0.8	Monday
		Banana (Mal)	0.2	0.2	
		Molasses	0.1	0.1	
7	Civets	Banana (Mal)	0.1	0.1	NIL
		Apple	0.05	0.05	
		Mango	0.05	0.05	
		Guava	0.05	0.05	
		Boiled Egg	1	1	
8	Deer	Banana (Athia)	0.2	0.2	NIL
		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	NIL
		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	Red Serow	Pumpkin	0.2	0.2	
		Wheat bran	0.3	0.3	
		Black salt	0.05	0.05	
		Cabbage	1	1	
		Gram	1	1	
		Common salt	0.05	0.05	
		Soya flakes	0.1	0.1	
		Molasses	0.2	0.2	
11	Sambar	Lessara	0.2	0.2	NIL
		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	
12	Slow loris	Banana (Mal)	0.1	0.1	NIL
		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	
13	Langur	Banana (Mal)	0.15	0.15	NIL
		Carrot	0.1	0.1	
		Papaya	0.2	0.2	
		Mango	0.1	0.1	
		Guava	0.1	0.1	
		Jackfruit	0.1	0.1	
		Coconut	0.1	0.1	
		Pumpkin	0.1	0.1	
		Boiled Egg	1	1	
		Bread	0.2	0.2	
14	Monkeys	Banana (Mal)	0.2	0.2	NIL
		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	
15	Hoolock Gibbon	Banana (Mal)	0.1	0.1	NIL
		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	
16	Porcupines	Pumpkin	0.2	0.2	
		Maize	0.1	0.1	
		Carrot	0.1	0.1	
		Yam	0.2	0.2	
17	Hornbills	Papaya	0.1	0.1	NIL
		Tomato	0.2	0.2	
		Banana Mal	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	
18	Eagles	Beef	0.2	0.2	Monday
		Chicken	0.2	0.2	
19	Kite	Chicken	0.15	0.15	Monday
20	Owls	Chicken	0.15	0.15	Monday
21	Peahen	Cabbage	0.1	0.1	NIL
		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	
22	Emu	Cabbage	0.5	0.5	NIL
		Poultry feed	0.3	0.3	
		Maize powder	0.25	0.25	
		Wheat bran	0.2	0.2	
		Broken rice	0.1	0.1	
23	Red Jungle Fowl	Cabbage	0.1	0.1	NIL
		Poultry feed	0.2	0.2	
		Maize	0.1	0.1	
		Green pea	0.1	0.1	
		Broken rice	0.1	0.1	
24	Green Pigeon	Banana (Mal)	0.05	0.05	NIL
		Papaya	0.05	0.05	

		Guava	0.05	0.05	
		Broken rice	0.05	0.05	
25	Parrots	Maize	0.05	0.05	NIL
		Banana (Mal)	0.05	0.05	
		Guava	0.05	0.05	
26	Burmese Tortoise	Cabbage	0.3	0.3	NIL
		Sweet Potato	0.3	0.3	
		Pumpkin	0.2	0.2	
		Yam	0.3	0.3	
27	Turtles	Molluscs	0.1	0.1	NIL
		Aquatic plants	0.1	0.1	
		Cabbage	0.2	0.2	
28	Star Tortoise	Sweet Potato	0.03	0.03	NIL
		Pumpkin	0.03	0.03	
		Yam	0.03	0.03	
		Green leaves	0.1	0.1	
29	Burmese Python	Chicken	4	4	NIL

14. Vaccination Schedule of Animals

Sl. No	Species	Date	Vaccine Used	Remark
1.	Dholes	27/06/2018	Vanguard plus 5L4, Antirabies (Raksharab)	Successful
2	Tigers	11/09/2018	Felovax, Antirabies (Raksharab)	Successful
3	Leopard	15/09/2018	Felligen, Antirabies (Raksharab)	Successful

15. De-worming Schedule of Animals

Sl. No	Species	Date	Oral/ Injection	Remark
1	Deers	27/01/ 2019	Ivermectin 1.5 g mixed in feeds @ .3 mg/kg bwt	As per Stool screening results every 3 months.
2	Primates	do	Febendazole 150mg in feeds	do
3	Large Mammals	do	Ivermectin 1.5 g mixed in meat @.3mg/kg bwt.	do
4	Birds of prey	28/01/ 2019	Febendazole .50mg /kg bwt.	do

5	Large Cats	do	Ivermectin 1.5 g mixed in meat @.5mg/kg bwt.	do
6	Common Jackals	do	Ivermectin 10 mg mixed in meat @.5mg/kg bwt.	do
7	Dhole (Wild Dog),	do	Ivermectin 10 mg mixed in meat @.5mg/kg bwt.	do
8	Turtles	29/01/2019	CeftazidimeInj IP 1gm	do

16. Disinfection Schedule

Sl. No	Species	Date	Oral/ Injection	Remark
1	All the enclosures	Throughout the Year	KMNO4 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

General Health check-up of Zoo Animal Keepers are done periodically.

18. Developmental Works carried out in the zoo during the year 2018-19

Sl. No.	Name of Work	Grant	Status	Year of Completion
1	Improvement of enclosure for Himalayan Black Bear	CZA	Completed	2018
2	Improvement of enclosure for Royal Bengal Tiger	CZA	Completed	2018
3	Improvement of enclosure or Hoolock Gibbon	CZA	Completed	2018
4	Construction of Veterinary facilities	CZA	Completed	2018
5	Construction of Serow enclosure	CZA	Ongoing	-

19. Education and Awareness programmes during the year

Sl. No	Events	Date	Remarks
1	"Polythene Free Zone" of zoo.	5 th May 2018	By Forest Minister GON
2	The Himalayan CleanUp Program	26 th May 2018	NGO (All India Program)
3	World Environment Day 2018	5 th June 2018	Celebrated
4	World Wildlife Week 2018	1 st to 7 th October 2018	Hosted
5	Independence Day 2018	15 th August 2018	Unfurling of National Flag
6	Social Work on 29 th September to 1 st October 2018 in connection with the Government of Nagaland Cabinet's Decision.	29 th Sep to 1 st Oct 2018	Cabinet's Decision GON
7	Republic Day 2019	26 th January 2019	Unfurling of National Flag
8	World Wetlands Day 2019	2 nd February 2019	Celebrated
9	World Wildlife Day 2019	3 rd March 2019	Celebrated
10	Mr. Hedichem & Ms. Jurrie, Glocal University, Saharanpur, Uttar Pradesh	May-Jul 2019	Student Internship
11	Ms. Nikali G. Wotsa, Glocal University, Mirzapur, Uttar Pradesh	Jun-Jul 2019	Student Internship
12	Ms. Abha & Ms. Kuki, North-East Regional Institute of Science & Technology (NERIST), Itanagar, Arunachal Pradesh	15 th – 18 th February 2019	Student Outreach
13	Official Visits	Throughout	Hosted

20. Important Events and happenings

Sl. No	Events	Date	Remarks
1	Formal Declaration of zoo as "Polythene Free Zone".	5 th May 2018	By Forest Minister GON
2	The Himalayan CleanUp Program	26 th May 2018	NGO (All India Program)
3	World Environment Day 2018	5 th June 2018	Celebrated
4	World Wildlife Week 2018	1 st to 7 th October 2018	Hosted
5	Independence Day 2018	15 th August 2018	Unfurling of National Flag
6	Social Work on 29 th September to 1 st October 2018 in connection with the Government of Nagaland Cabinet's Decision.	29 th Sep to 1 st Oct 2018	Cabinet's Decision GON
7	Republic Day 2019	26 th January 2019	Unfurling of National Flag
8	Visit of Member Secretary	11 th Sep 2018	Inspection of works in the Zoo.
9	JN Aier College Diphupar	20 th February 2019	Social Work
10	Republic Day 2019	26 th January 2019	Unfurling of National Flag
11	World Wetlands Day 2019	2 nd February 2019	Celebrated
12	Highway Area Sumi Students' Union (HASSU)	2 nd March 2019	Eco-friendly (bamboo) dustbin installation
13	World Wildlife Day 2019	3 rd March 2019	Celebrated
14	Installation (DEMO) of Solar Lamp	8 th March 2019	Demo conducted

21. Seasonal special arrangements for upkeep of animals

Sl.No.	Species	Upkeep	Status
1	Hoolock Gibbon	Improvement Work	Completed& Utilizing
2	Macaques	Enrichment Work	Completed& Utilizing
3	Royal Bengal Tiger	Improvement Work	Completed& Utilizing
4	Oriental Pied Hornbill	Enrichment Work	Completed& Utilizing
5	Indian Wolf	Enrichment Work	Completed& Utilizing
6	Himalayan Black Bear	Improvement Work	Completed& Utilizing
7	Burmese Mt. Tortoise	Improvement Work	Completed& Utilizing
8	Emu	Enrichment Work	Completed& Utilizing
9	Porcupine	New Holding	Completed& Utilizing
10	Leopard Cat	Improvement Work	Completed& Utilizing
11	Civet	Improvement Work	Completed& Utilizing
12	Slow Loris	Enrichment Work	Completed& Utilizing
13	Owls	Improvement Work	Completed& Utilizing
14	Common Leopard	Improvement Work	Completed& Utilizing

22. Research Work carried out and publications

1. "Birds found within the Nagaland Zoological Park, Rangapahar"
by Research Team (*Under progress*).
2. Butterflies of Nagaland Zoological Park, Rangapahar by Research Team (*Under progress*).

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 and continued into 2 nd year.
2	In-house breeding programme for Oriental Pied Hornbills.	Successful Hatching and continued into 2 nd year.

24. Animal acquisition/transfer/exchange during the year

A. Animals arriving in the Zoo					
Sl.No.	Species	Number (M:F)	From which Zoo	Date of arrival in the zoo	
1	Indian Wolf	1:1	Mysuru Zoo	04.02.2019	
B. Animals going from the Zoo					
Sl.No.	Species	Number (M:F)	Going to which Zoo	Date of leaving the zoo	
1	Himalayan Black Bear	0:2	Mysuru Zoo	06.02.2019	

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	16.04.2018	Burmese Mt. Tortoise 1:0:0:1	Lirmen Village, Mokokchung Nagaland	NA	Tortoise Enclosure	Healthy Specimen
2	28.04.2018	Barking Deer 0:1:0:1	Mezokhomi Village, Phek Nagaland	NA	Temporary Rescue Holding	Juvenile
3	27.10.2018	Black Soft Shell Turtle 0:1:0:1	Athibung, Peren Nagaland	NA	Tortoise Enclosure	Injured
4	27.01.2019	Assamese macaque 1:0:0:1	Karbianglong, Assam	NA	Macaque Enclosure	Healthy Specimen
5	02.02.2019	Barn Owl 0:0:3:3	Kiyezhe Village, Niuland, Khuhuboto Nagaland	NA	Temporary Rescue Holding	Juvenile
6	6.02.2019	Indian Star Tortoise 0:0:2:2	Dimapur Nagaland	NA	Star Tortoise Enclosure	Healthy Specimen

26. Annual Inventory of animals

Form – II
[See Rule 11(1)]
Part - A

Inventory Report for the year: 2018-19

Sl / no	Name of Species	Scientific Name	Stock as on 31.03.2018					Births			Acquisition				Disposal			Death				Stock as on 31.03.2019						
			M	F	J	Un	T	M	F	Un	M	F	J	Un	M	F	Un	M	F	J	Un	M	F	J	Un	T		
ENDANGERED SPECIES																												
1	WESTERN HOOLOCK GIBBON	<i>Hylobates hoolock</i>	2		1		3					1												2	1			3
2	DHOLE	<i>Cuon alpinus</i>		1	1		2																	1	1			2
3	RED SEROW	<i>Caprimornis rubidus</i>	1				1					2												2		1		1
4	ROYAL BENGAL TIGER	<i>Panthera tigris</i>	1	1			2												1						1			1
5	BLACK SOFT-SHELL TURTLE	<i>Nilssoniana nigricans</i>	1				1						1										1	1				1
6	KEELED BOX TURTLE	<i>Cuoramea houhotii</i>					2	2																			2	2
7	BURMESE BLACK TORTOISE	<i>Manouria aemys</i>	6	6	2		14			28	3		1										14		10	7	15	32
	TOTAL		11	8	4	2	25	0	0	28	3	0	4	1	0	0	0	1	0	17	1	15	10	15	2	42		

Part - B

OTHER THAN ENDANGERED SPECIES																													
			M	F	J	Un	T	M	F	Un	M	F	J	Un	M	F	Un	M	F	J	Un	M	F	J	Un	T			
1	STUMP TAILED MACAQUE	<i>Macaca arctoides</i>	3	1	1		5								1							2	2			4			
2	ASSAMESE MACAQUE	<i>Macaca assamensis</i>	9	7	2		18	1			2		1					1		1		9	9	2		20			
3	RHESUS MACAQUE	<i>Macaca mulatta</i>	7	5	4		16				1		2					1				10	7	1		18			
4	PIG-TAILED MACAQUE	<i>Macaca leonina</i>	2		1		3															2	1			3			
5	CAPPED LANGUR	<i>Trachypitecus pileatus</i>		2			2				1					1				1		1				1			
6	SLOW LORIS	<i>Nycticebus coucang</i>			1	8	9					1		2			2							4		6	6		
7	BARKING DEER	<i>Muntiacus muntjak</i>	9	2	4		15	1		1			3								1		11	5	2	1	19		
8	SPOTTED DEER	<i>Axis axis</i>	4	12	1	6	23			5												7	13	2	6	28			
9	SAMBAR DEER	<i>Cervus unicolor</i>	3	7	4	2	16			5												5	8	3	5	21			
10	HIMALAYAN BLACK BEAR	<i>Ursus thibetanus</i>	9	5	5		19						1			2						16	2			18			
11	COMMON JACKAL	<i>Canis aureus</i>	4	2		10	16			4															1	7	5	7	19
12	MASKED PALM CIVET	<i>Paguma larvata</i>				1	1						1											1			1	1	
13	LEOPARD CAT	<i>Prionailurus bengalensis</i>	2	2	1	3	8																1		4	3	7		
14	ASIATIC BRUSH-TAILED PORCUPINE	<i>Atherurus macrourus</i>	1	1	1	1	4																				4		

27. Mortality of animals

Sl. No	Species Name	Date of Entry	Date of death	Age in years	Sex				No. of Individuals	Age Class	Cause of Death
					M	F	J	Un			
1	ASSAMESE MACAQUE	13.12.13	23.07.2018	>12 Y	1				1	ADULT	In-fighting
2	ASSAMESE MACAQUE	05.07.14	05.08.2018	>10 Y			1		1	ADULT	Natural Death
3	RHESUS MACAQUE	21.09.13	08.08.2018	14	1				1	ADULT	In-fighting
4	ROYAL BENGAL TIGER	09.01.17	31.07.2018	11	1				1	ADULT	Suspected Case of Anthrax Ref. DIR/NZP/GEN-32/243-249 dt. 2nd Aug 2018
5	COMMON JACKAL	01.04.18	29.06.2018	2 M				1	1	JUVENILE	Infant Death
6	CRESTED SERPENT EAGLE	14.09.13	19.09.2018	10				1	1	ADULT	White Diarrhea
7	CRESTED SERPENT EAGLE	14.09.13	06.03.2019	10				1	1	ADULT	White Diarrhea
8	GREAT BARBET	16.04.18	18.11.2018	>8 Y				1	1	ADULT	Natural Death
9	LESSER ADJUTANT STORK	05.06.18	12.08.2018	>20 Y				1	1	ADULT	Throat Injury before arrival to zoo
10	ORIENTAL PIED HORNBILL	11.05.18	14.08.2018	3 M			1		1	JUVENILE	Infant Death
11	RED SEROW	22.07.18	29.07.2018	<1 M			1		1	JUVENILE	Infant death, Dysentery
12	RED SEROW	13.11.18	27.02.2019	5 M			1		1	JUVENILE	Self-inflicted head injury in cell
13	CAPPED LANGUR	Pre-zoo	17.05.2018	>25 Y		1			1	ADULT	Ovarian Cancer
14	FOREST EAGLE OWL	14.09.12	11.03.2019	>12 Y	1				1	ADULT	White Diarrhea
15	BROWN WOOD OWL	28.06.14	29.10.2018	>10 Y		1			1	ADULT	White Diarrhea
16	BARKING DEER	05.11.18	22.12.2018	1.5 M			1		1	JUVENILE	Infant Death, Dysentery
17	BLACK KITE	08.02.15	16.11.2018	<5 Y				1	1	ADULT	White Diarrhea
18	BURMESE ROCK PYTHON	18.04.18	25.11.2018	1 Y				1	1	JUVENILE	Infant Death
19	SLOW LORIS	25.09.18	18.12.2018	> 5 Y				1	1	ADULT	Trauma
20	BURMESE ROCK PYTHON	04.06.18	04.02.2019	>5 Y	1				1	ADULT	No feed intake
21	INDIAN STAR TORTOISE	24.02.2019	21.03.2019	<1 Y				4	4	JUVENILE	Hypothermia
22	SLOW LORIS	25.09.18	21.11.2018	>3 Y				2	2	ADULT	Lung Infection
23	LEOPARD CAT	30.06.17	15.08.2018	<2 Y			1		1	JUVENILE	Diarrhea
24	SLOW LORIS	25.09.18	09.01.2019	>5 Y				1	1	ADULT	Brought injured/Trauma
25	WREATHED HORNBILL	07.03.2014	05.02.2019	>10 Y	1				1	ADULT	White Diarrhea
26	BARN OWL	14.07.17	08.02.2019	<5 Y			3	1	4	ADULT	In-fighting
27	STUMP TAIL MACAQUE	24.07.13	13.01.2019	10 Y	1				1	ADULT	In-fighting
28	SPOTTED DOVE	17.03.19	17.03.2019	<5 Y				3	3	ADULT	Death in Transit
29	ROSE RINGED PARAKEET	09.12.17	02.02.2019	3 Y			2		2	JUVENILE	Hypothermia
30	WESTERN HOOLOCK GIBBON	16.03.19	29.03.2019	<3 M			1		1	JUVENILE	Infant Death, Diarrhea

31	BURMESE Mt TORTOISE	25.06.18	10.01.2019	7 M			14		14	JUVENILE	Infant Death, Calcium Deficiency
32	SOFT SHELL TURTLE	27.10.18	16.01.2019	>5 Y				5	5	ADULT	Brought Injured/Trauma
33	PEACOCK SOFT SHELL TURTLE	27.10.18	25.01.2019	>5 Y				1	1	ADULT	In-fighting
34	BLACK SOFT SHELL TURTLE	27.10.18	08.11.2018	10 Y				1	1	ADULT	Brought Injured/Trauma
35	BARN OWL	28.07.17	25.11.2018	4		1			1	ADULT	White Diarrhea
36	PEACOCK SOFT SHELL TURTLE	13.10.18	27.01.2019	>5 Y				1	1	ADULT	In-fighting
37	MASKED PALM CIVET	10.05.18	13.06.2018	<5 Y			1		1	JUVENILE	In-fighting
38	RED JUNGLE FOWL	17.09.17	29.03.2019	<5 y		1			1	ADULT	White Diarrhea
39	BURMESE ROCK PYTHON	18.04.18	12.12.2018	>5 Y		1			1	ADULT	No feed intake
40	TAWNY FISH OWL	16.07.12	26.02.2019	>10 Y				2	2	ADULT	White Diarrhea
TOTAL					7	5	27	29	68		

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 23rd August 2019. 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.

De-worming schedule and vaccination schedule of all captive wildlife are being followed as per the stipulated conditions given by CZA.

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.

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

Free Living Mammals

1	Sambar Deer	<i>Cervus unicolor</i>
2	Golden Jackal	<i>Canis aureus</i>
3	Barking Deer	<i>Muntiacus muntjak</i>
4	Assamese Macaque	<i>Macaca assamensis</i>

Free Living Reptiles

1	Common Sand Boa	<i>Erycinae</i>
2	Monitor Lizard	<i>Varanus bengalensis</i>
3	Burmese Rock Python	<i>Python molurus bivittatus</i>
4	Burmese Tortoise	<i>Manouria emys</i>
5	Tokay Gecko	<i>Gekko gekko</i>

Insects

1	Butterflies	200 Plus Species and counting.
2	Other Insects	Rich diversity

Free Living Birds

1	Common Iora	<i>Aegithina tiphia</i>
2	Abbots Babbler	<i>Malacocinla babbotti</i>
3	White bellied Blue Flycatcher	<i>Cyornis pallipes</i>
4	Black Baza	<i>Aviceda leuphotes</i>
5	Common Emerald Dove	<i>Chalcophaps indica</i>
6	White Rumped Munia	<i>Lonchura striata</i>
7	Blue Throated Barbet	<i>Megalaima asiatica</i>
8	Ashy Wood Swallow	<i>Artamys fuscus</i>
9	Rufous Treepie	<i>Dendrocitta vagabunda</i>
10	Green Billed Malkoha	<i>Phaenicochaetus tristis</i>
11	White Breasted Waterhen	<i>Amaurornis phoenicurus</i>
12	Lesser Whistling Teal	<i>Dendrocygna javanica</i>
13	Red Vented Bulbul	<i>Pycnonotus cafer</i>

14	Black Crested Bulbul	<i>Pycnonotus flaviventris</i>
15	Tailor Bird	<i>Orthotomus sutorius</i>
16	Dollar Bird	<i>Eurystomus orientalis</i>
17	Scarlet Backed Flower Pecker	<i>Dicaeum cruentatum</i>
18	Black Drongo	<i>Dicrurus macrocercus</i>
19	Oriental Magpie Robin	<i>Copsychus saularis</i>
20	Red jungle Fowl	<i>Gallus gallus</i>
21	Spangled Drongo	<i>Dicrurus bracteatus</i>
22	Common Hoppoe	<i>Upupidae</i>
23	Long Tailed Shrike	<i>Lanius schach</i>
24	Indian Scrimitar Babbler	<i>Pomatorhinus horsfieldii</i>
25	Black Naped Monarch	<i>Hypothymis azurea</i>
26	Greater Necklaced Laughing Thrush	<i>Garrulax pectoralis</i>
27	Common Myna	<i>Acridotheres tristis</i>
28	Greater Coucal	<i>Centropus sinensis</i>
29	Asian Barred Owlet	<i>Glaucidium cuculoides</i>
30	Chestnut Tailed Starling	<i>Sturnia malabarica</i>
31	Spot Winged Starling	<i>Saraglossa spiloptera</i>
32	Forest Wagtail	<i>Dendronanthus indicus</i>
33	Indian Roller	<i>Coracias benghalensis</i>
34	White Throated Kingfisher	<i>Halcyon smyrnensis</i>
35	Common Kingfisher	<i>Alcedo atthis</i>
36	Spotted Dove	<i>Spilopelia chinensis</i>
37	Little Spider hunter	<i>Arachnothera longirostra</i>
38	Lesser Coucal	<i>Centropus bengalensis</i>
39	Pompadour Green Pigeon	<i>Treron sp</i>
40	Vertider Flycatcher	<i>Eumyias thalassina</i>
41	White Throated Fantail	<i>Rhipidura albicollis</i>
42	Barn Swallow	<i>Hirundo rustica</i>
43	Eurasian Tree Sparrow	<i>Passer montanus</i>
44	Great Tit	<i>Parus major</i>
45	Small Niltava	<i>Niltava macgrigoriae</i>
46	Brown Shrike	<i>Lanius cristatus</i>
47	White Wagtail	<i>Motacilla alba</i>

Thank You

Do Visit Us


For Information, Visit Us at:

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Director
Nagaland Zoological Park
Rangapehar : Nagaland