

NAGALAND ZOOLOGICAL PARK, RANGAPAHAR DIMAPUR NAGALAND



Annual Report for the year 2017-18



CONTENTS

Sl.No	Section	Page Number
1.	Report of the Officer-in-Charge	4
2.	History of the Zoo	6
3.	Vision	6
4.	Mission	6
5.	Objective	7
6.	About us	8
7.	Organizational Chart	10
8.	Human Resources	11
9.	Capacity Building of the zoo personnel	13
10.	Zoo Advisory Committee	14
11.	Health Advisory Committee	14
12.	Statement of income and expenditure of the Zoo	15
13.	Daily Feed Schedule of animals	16
14.	Vaccination Schedule of animals	20

15.	De-worming schedule of animals	20
16.	Disinfection Schedule	20
17.	Health Check-up of employees for Zoonotic diseases	21
18.	Development Works carried out in the zoo during the year	22
19.	Education and Awareness programmes during the year	23
20.	Important Events and happenings in the zoo	24
21.	Seasonal special arrangements for upkeep of animals	26
22.	Research work carried out and publications	27
23.	Conservation Breeding Programme of the Zoo	27
24.	Animal acquisition/transfer/exchange during the year	27
25.	Rescue and Rehabilitation of the wild animals carried out by the zoo	28
26.	Annual Inventory of animals	29
27.	Mortality of animals	31
28.	Status of the Compliance with conditions stipulated by the Central Zoo Authority	32
29.	List of free living wild animals within the zoo premises	33

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 340 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 Four different species of Hornbills namely, Oriental Pied Hornbill, Rufous necked Hornbill, Brown Hornbill and Wreathed Hornbill. Birds of prey include Forest Eagle Owl, Tawny Fish Owl, Crested Serpent Eagle, Wood Owl, and Scops Owl. 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 Park.

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 sp*, *Terminalia chebula*, *Tectona grandis*, *Mesua ferea*, *Bischofia javanica*, *Ficus spp*, *Spondias sp*, *Castinopsis sp*, *Anthocephalus kadamba*, *Bombax ceiba*, *Tetramelus nudiflora*, *Treva nudiflora*, *Bauhunia 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 tometosa*, *Embelica officinalis*, *Artocarpus heterophylus*, *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 56 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 exchanges include the exchange of a pair of Royal Bengal Tiger from Trivandrum Zoo for a pair of 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 less than 10 years, the zoo now houses 44 different species of animals and birds putting the total collection of 340 specimens in 2018.

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.

The Annual Report provides various information on the management and development of Nagaland Zoological Park during the year 2017-18. 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.

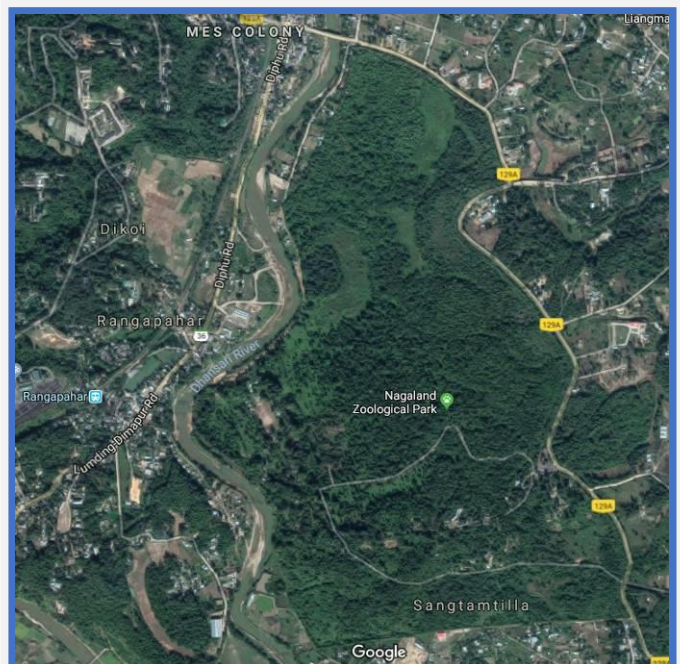


Shri. Obed Bohovi Swu, SFS
DIRECTOR
Nagaland Zoological Park

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.



An Aerial View of the Zoo

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.

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.*



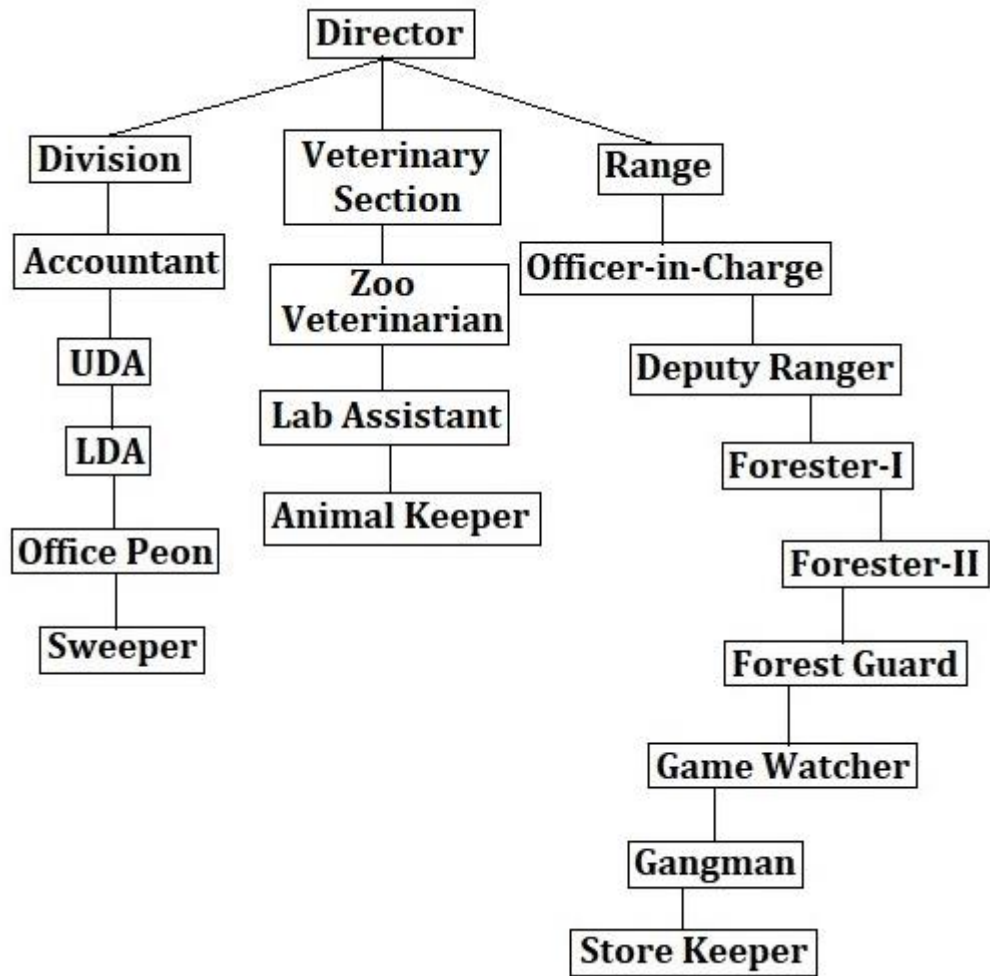
6. About us

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	7005405933, 9436600467
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	Medium Zoo
12	Area (in Hectares)	176 Hectares
13	Number of Visitors (Financial Year)	Adult :62024
		Children : 15708
		Total Indian : NA
		Total Foreigners : NA
		Total Visitors : 77732
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,
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. Obed Bohovi Swu Assistant Conservator of Forests
	Name of the Veterinary Officer	Dr. Rongsenwati Ao
	Name of the Curator	Shri. Obed Bohovi Swu
	Name of the Biologist	Shri. P. Thirumalainathan
	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



The Workforce of the Zoo

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. Obed Bohovi Swu (Current Charge)
1	Officer-in-Charge	1	1. Shri. Obed Bohovi Swu,
2	Deputy Ranger	2	1. Shri. Thripong Sangtam
			2. Shri. Tinukaba Ao
3	Forester-I	9	1. Shri. Hingcu Lungalang
			2. Shri. Mughato L. Awomi
			3. Smt. Maongkala Jamir
			4. Shri. Vinoto. K. Rochill
			5. Shri. Sonthangbul Kuki
			6. Shri. Imlikaba Ao
			7. Shri. Inoto G. Choppy
			8. Shri. Disurai Kaurinta
			9. Shri. Kevipule
4	Forester-II	8	1. Shri. Ghokishe Sema
			2. Shri. Lanpenthung Lotha
			3. Shri. Maongnungba
			4. Shri. S. Lanuchuba Ao
			5. Shri. Z. Shophu Yimchunger
			6. Shri. L. Chemlise Sangtam
			7. Shri. B. Chaulo Chang
			8. Shri. V. Ihokhu Sema
			9. Shri. V. Tokugha Sema
5	Forest Guard	17	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 Singsit
			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. Kezhangulie Dolie
			17. 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	Gangman	1	1. Shri. L. Sunga
9	Animal Attendant	3	1. Shri. T. Ruchu
			2. Shri. N. Bongkhao Konyak
			3. Shri. Bir Bahadur Sunar
10	Mali	2	1. Shri. I. Hebo
			2. Shri. Y. Khehoshe Sumi
11	Grass Cutter	2	1. Shri. Suko Khiamnuingan
			2. Shri. Hosheto
12	Cook	2	1. Shri. Kakupu Chishi
			2. Shri. H. Kiyeto Chishi
13	Sweeper	2	1. Smt. Senia Jemu
			2. Smt. A. Khutoli Achumi
14	Chowkidar	3	1. Shri. Neingumezo
			2. Shri. Vighoto
			3. Shri. Husheto Awomi
15	Elephant Mahut	1	1. Shri. Krishna Bahadur Chetri
	Total	63	

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	Capacity Building of Indian Zoo Veterinarians on Animal Health Management in captivity.	11 th to 14 th Sept. 2017	Central Zoo Authority, New Delhi.
2	Shri. P. Thirumalainathan	Middle –Level Officers' Training Program	11 th to 14 th December 2017	Sanjay Gandhi Biological Park, Patna
4	1. Shri. Hingcu Lungalang 2. Shri. Vinoto K. Rochill 3. Smt. Maongkala Jamir	Training on Hoolock Gibbon Conservation	21 st to 25 th February 2018	Gibbon Conservation Centre, Mariani, Assam
5	1. Shri. Hechulo Semy 2. Shri. Khevukhu 3. Shri. Enyie Konyak 4. Shri. Moatemsu Aier	North East Regional Zoo keepers Training on Management of Captive Wildlife	20 th Nov to 25 th Nov 2017	State Environment and Forestry Training Institute, Dimapur
6	Staff	Awareness Training on Forest Fire and Safety Measures	28 th June 2017	NZP
7	Staff	Training Workshop on Bear Conservation	5 th May 2017	Forest Office Complex, Dimapur



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. 29th Nov 2017



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 2017-18 (Amount in Lakhs of Rupees)

	STATE NON-PLAN		CZA GRANTS		Feeds	Revenue	Total
	Developmental	Non-Developmental	Developmental	Non-Developmental			
Income/ Allotment	0.25	323.67	76.14	4.27	77.00	13.97	495.30
Expenditure	0.25	313.68	76.14	4.27	77.00	13.80	485.14
Balance	0.00	9.99	0.00	0.00	0.00	0.17	10.16



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 (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	
		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	
		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	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
		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
		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
		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
		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
		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	
		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	
		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	
		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	
		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	
		Papaya	0.05	0.05	
		Guava	0.05	0.05	
		Broken rice	0.05	0.05	

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



Indian Star Tortoise

14. Vaccination Schedule of Animals

Sl. No	Species	Date	Vaccine Used	Remark
1.	Dholes	3/07/2017	Vanguard plus 5L4, Antirabies (Raksharab)	Successful
2	Tigers	17/08/2018	Felovax, Antirabies (Raksharab)	Successful
3	Leopard	21/08/2018	Felligen, Antirabies (Raksharab)	Successful

15. De-worming Schedule of Animals

Sl. No	Species	Date	Oral/ Injection	Remark
1	Dhole (Wild Dog), Jackals	21/01/ 2018	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	Febendazole 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	Febendazole .50mg /kg bwt.	do

16. Disinfection Schedule

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

The following Zoo staffs of Animal Section were sent for Regular Medical Checkup/Screening on 16th January 2018 at District Civil Hospital, Dimapur.

Sl. No	Name	Designation	Diagnosis	Hospital
1	Shri. Bir Bahadur	Animal Attendant	No Specific complaint	Civil Hospital, Dimapur
2	Shri. S. Sangjen Phom	Animal Attendant	No Specific complaint	Civil Hospital, Dimapur
3	Shri. Watitongzuk	Animal Attendant	No Specific complaint	Civil Hospital, Dimapur
4	Shri. Moatemsu	Animal Attendant	No Specific complaint	Civil Hospital, Dimapur
5	Shri. Vikheto	Animal Attendant	No Specific complaint	Civil Hospital, Dimapur
6	Shri. Roman	Animal Attendant	No Specific complaint	Civil Hospital, Dimapur
7	Shri. Bhol Bahadur	Animal Attendant	No Specific complaint	Civil Hospital, Dimapur
8	Shri. Gopal	Animal Attendant	No Specific complaint	Civil Hospital, Dimapur
9	Shri. T. Ruchu	Animal Attendant	No Specific complaint	Civil Hospital, Dimapur
10	Shri. James Swu	Animal Attendant	No Specific complaint	Civil Hospital, Dimapur
11	Shri. Bongkhao	Animal Attendant	No Specific complaint	Civil Hospital, Dimapur
12	Shri. Hechulo Semy	Animal Attendant	No Specific complaint	Civil Hospital, Dimapur
13	Shri. Khevikhu	Animal Attendant	No Specific complaint	Civil Hospital, Dimapur
14	Shri. Bengdangsangba	Animal Attendant	No Specific complaint	Civil Hospital, Dimapur
15	Shri. Hosheto	Animal Attendant	No Specific complaint	Civil Hospital, Dimapur
16	Shri. Suko Khamnuingan	Animal Attendant	No Specific complaint	Civil Hospital, Dimapur
17	Shri. Enyie Konyak	Animal Attendant	No Specific complaint	Civil Hospital, Dimapur

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

Sl. No.	Name of Work	Grant	Status	Year of Completion
1	White Tiger Enclosure	CZA	Completed	2018
2	Solar Power Plant Battery House	CFA (MNRE)	Ongoing	2017



White Tiger Enclosure

Solar Power Plant



19. Education and Awareness programmes during the year

Sl. No	Program	Date	Participants
1	Zoo Volunteer	25 th to 31 st December 2017	Ms. Siddhi Jaishankar, Dept of Life Sciences, Christ University, Bengaluru, Karnataka
2	Internship	3 rd Jan to 31 st March 2018	Mr. Martsuba Kichu, Martin Luther University, Shillong Meghalaya
3	Awareness for visiting College Students	Throughout the year	Various College Students
4	Awareness for visiting School Students	Throughout the year	Various School Students
5	Painting Competition	5 th June 2017	School Children
6	Conservation Practices & Animal Adoption	Throughout the year	Fingerprints Media House, Dimapur
7	Forester-I Trainee	7 th February 2018	State Environment & Forestry Training Institute, Dimapur
8	Forestry Exchange Program Student	6 th February 2018	Mr. M. Lasuh North East Regional Institute of Science and Technology, Itanagar, Arunachal Pradesh



The Zoo Director with Volunteers

20. Important Events and happenings

1. Celebration of World Wildlife Day 3rd March 2018 →



2. Visit of Ex-Chief Wildlife Warden Shri. Shashidhar Shastry on 16th January 2018 ←

3. Staff Cleanliness Drive →



4. Squeeze Cage Donated by Assam Rifles on 31st December 2017 ←

5. Ms. Siddhi Jaishankar receiving Completion Certificate of Zoo Volunteering. →



6. Mr. Martsuba Kichu receiving Completion Certificate of Internship. ←

Sl. No	Events	Date	Remarks
1	One Day sensitizing program for Judicial Magistrates at Forest Office complex, Dimapur	14 th October 2017	Participated
2	World Wildlife Day 2018	3 rd March 2018	Hosted
3	World Wildlife Week 2017	1 st to 7 th October 2017	Hosted
4	1 st Wildlife Photo Exhibition	21 st October 2017	Hosted
5	Independence Day 2017	15 th August 2017	Unfurling of National Flag
6	Squeeze Cage Donation	31 st December 2017	Donated by No. 1 Workshop Assam Rifles 3 rd Mile Dimapur
7	Republic Day 2018	26 th January 2018	Unfurling of National Flag
8	Visit of Member Secretary	19 th April 2017	Inspection of works in the Zoo.
9	Official Visits	Throughout	Hosted



Present Forest Minister during his visit to the Zoo

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	Capped Langur	Secondary Protection	Completed
7	Burmese Python	Strengthening of exhibit closures	Completed



Burmese Tortoise Feeding Time

22. Research Work carried out and publications

“A Survey on Butterflies of Nagaland Zoological Park” by Shri. P. Thirumalainathan, Zoo Biologist.

23. Conservation breeding programme of the Zoo

Sl.No.	Species	Status
1	Conservation Breeding of Burmese Tortoise in collaboration with Turtle Survival Alliance - India	Ongoing.
2	In-house breeding programme for Oriental Pied Hornbills.	No successful nesting during the year. Attempts continuing during 2018 with improved and modified nest box and additional dietary supplements. Pairing successful for one pair. Positive result expected during 2018.

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	Emu	2:4	Emu Farm, Guwahati	16 th January 2018
B.	Animals going from the Zoo				
	Sl.No.	Species	Number (M:F)	Going to which Zoo	Date of arrival in the zoo
		Nil			

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		Common Leopard 1:0:0:1	Tuli, Mokokchung Nagaland	NA	Leopard Enclosure	Healthy Specimen
2		Burmese Python 0:1:0:1	Pfutsero, Phek Nagaland	NA	Snake Exhibit	Large and Healthy Specimen
3		Himalayan Black Bear 0:0:1:1	Wazeho, Phek Nagaland	NA	Juvenile Care	Infant
4		Slow Loris 1:0:0:1	Dimapur	NA	Rescue Centre	Special Care
5		Rhesus Macaque 1:1:1:3	Dimapur	NA	Exhibit	Good Specimen
6		Assamese Macaque 1:0:1:2	Dimapur	NA	Exhibit	Good Specimen
7		Hoolock Gibbon 0:0:1:1	Dimapur	NA	Exhibit	Good Specimen
8		Tokay Gecko 3:2:2:7	Dimapur	NA	Released into wild	Cannot be exhibited



26. Annual Inventory of animals

Form – II
[See Rule 11(1)]

Part - A

Inventory Report for the year: 2017-18

Endangered Species

Sl. No	Name of Species	Scientific Name	Stock as on 31.03.2017					Births			Acquisition				Disposal			Death				Stock as on 31.03.2018									
			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	HOOLOCK GIBBON	<i>Hylobates hoolock</i>	2				2						1												2		1		3		
2	DHOLE	<i>Cuon alpinus</i>		1	1		2																			1	1		2		
3	RED SEROW	<i>Capricornis rubidus</i>	1				1																		1				1		
4	ROYAL BENGAL TIGER	<i>Panthera tigris</i>	1	1			2																		1	1			2		
5	BLACK SOFT-SHELL TURTLE	<i>Nilssonina nigricans</i>	1				1																		1				1		
6	KEELED BOX TURTLE	<i>Cuora mouhotii</i>					2	2																				2	2		
7	BURMESE BLACK TORTOISE	<i>Manouria emys</i>	6	6	3		15																		6	6	2		14		
		TOTAL	11	8	4	2	25	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	11	8	4	2	25

Part – B

Other than Endangered Species

Sl. No	Name of Species	Scientific Name	Stock as on 31.03.2017					Births			Acquisition				Disposal			Death				Stock as on 31.03.2018							
			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			4						1												3	1	1		5
2	ASSAMESE MACAQUE	<i>Macaca assamensis</i>	7	6	2		15	1			1	1													9	7	2		18
3	RHESUS MACAQUE	<i>Macaca mulatta</i>	6	4	4		14				1	1													7	5	4		16
4	PIG-TAILED MACAQUE	<i>Macaca leonina</i>	2		1		3																		2		1		3
5	CAPPED LANGUR	<i>Trachypithecus pileatus</i>		2			2																			2			2
6	SLOW LORIS	<i>Nycticebus coucang</i>				8	8					2															1	8	9
7	BARKING DEER	<i>Muntiacus muntjak</i>	8	2	4		14	1																	9	2	4		15
8	SPOTTED DEER	<i>Axis axis</i>	4	12	2	6	24																		4	1	1	6	23
9	SAMBAR DEER	<i>Cervus unicolor</i>	3	7	4	2	16																		3	7	4	2	16
10	HIMALAYAN BLACK BEAR	<i>Ursus thibetanus</i>	1	0	5	5	20												1						9	5	5		19
11	COMMON JACKAL	<i>Canis aureus</i>	4	2		10	16																		4	2		10	16
12	MASKED PALM CIVET	<i>Paguma larvata</i>				1	1																					1	1

13	LEOPARD CAT	<i>Prionailurus bengalensis</i>	2	2		3	7					1						2	2	1	3	8				
14	ASIATIC BRUSH-TAILED PORCUPINE	<i>Atherurus macrourus</i>				3	3			1								1	1	1	1	4				
15	MALAYAN PORCUPINE	<i>Hystrix brachyura</i>				2	2														2	2				
16	COMMON LEOPARD	<i>Panthera pardus</i>	2				2											2				2				
17	GREAT INDIAN HORNBILL	<i>Buceros bicornis</i>		1			1							1								0				
18	WREATHED HORNBILL	<i>Aceros undulatus</i>	1				1											1				1				
19	RUFIOUS-NECKED HORNBILL	<i>Aceros nipalensis</i>		1			1												1			1				
20	ORIENTAL PIED HORNBILL	<i>Anthracoceros albirostris</i>	6	6		4	16					1						6	6	2	3	17				
21	BROWN HORNBILL	<i>Anorrhinos tickelli</i>				1	1														1	1				
22	FOREST EAGLE OWL	<i>Bubo nipalensis</i>			1	1	2													1	1	2				
23	TAWNY FISH OWL	<i>Ketupa flavipes</i>				5	5														5	5				
24	BROWN WOOD OWL	<i>Strix leptogrammica</i>				2	2														2	2				
25	BARN OWL	<i>Tyto alba</i>				3	3					2									5	5				
26	CRESTED SERPENT EAGLE	<i>Spilornis cheela</i>				3	3														3	3				
27	BLACK KITE	<i>Milvus migrans</i>				1	1														1	1				
28	INDIAN PEA FOWL	<i>Pavo cristatus</i>		1			1												1			1				
29	GREEN PIGEON	<i>Treron sp.</i>				25	25									2					23	23				
30	PARAKEET	<i>Psittacula sp.</i>				2	2					9									9	2	11			
31	BARBET	<i>Megalaima sp.</i>				3	3														3	3				
32	SOFT-SHELL TURTLE	<i>Nilssonina sp.</i>			2	12	14													2	12	14				
33	INDIAN LEAF TURTLE	<i>Cyclemys dentata</i>			1	19	20													1	19	20				
34	MALAYAN BOX TURTLE	<i>Cuora amboinensis</i>			1	1	2													1	1	2				
35	INDIAN STAR TORTOISE	<i>Geochelone elegans</i>				45	45							8							37	37				
36	BURMESE ROCK PYTHON	<i>Python molurus bivittatus</i>				1	1														1	1				
37	EMU	<i>Dromaius novaehollandiae</i>								1	1	4									1	6				
	TOTAL		58	52	27	163	300	2	0	1	3	3	18	2	0	0	0	1	1	2	10	62	55	42	156	315

Mammals - Species – 20 Specimens - 167
 Birds - Species – 16 Specimens - 82
 Reptiles - Species – 8 Specimens - 91
Total - Species – 44 Specimens - 340

27. Mortality of animals

Sl. No.	Animal Name (with individual identification mark, if any)	Scientific Name	Sex	Date of Death	Reason of Death as per Post-mortem report
1	Slow Loris	<i>Nycticebus coucang</i>	Female	12.02.2018	Stress due to improper housing.
2	Spotted Deer	<i>Axis axis</i>	Female	09.07.2017	In-fighting injuries
3	Great Indian Hornbill	<i>Buceros bicornis</i>	Female	30.05.2017	Cage injury.
4	Himalayan Black Bear	<i>Ursus thibetanus</i>	Male	17.11.2017	Infighting
5	Green Pigeon	<i>Treron sp.</i>	Adult Adult	23.08.2017 18.08.2017	Cage injury
6	Burmese Black Mt. Tortoise	<i>Manouria emys</i>	Adult	11.09.2017	Aging related Intestinal rapture.
7	Indian Star Tortoise	<i>Geochelone elegans</i>	Sub-Adult Sub-Adult Sub-Adult	11.02.2018 13.02.2018 19.02.2018	Respiratory infections.



Zoo Biologist taking Field Class

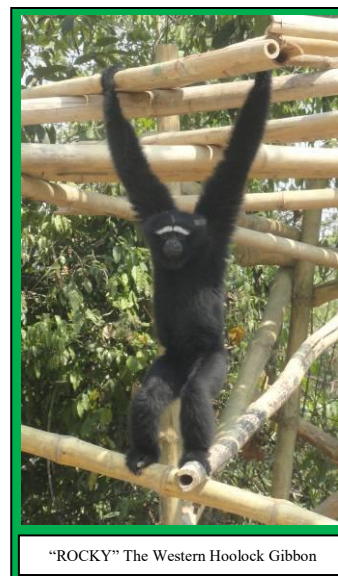
28. Status of the Compliance with conditions stipulated by the Central Zoo Authority

The Zoo has been recognized as a medium zoo by the Central Zoo Authority, New Delhi upto 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.

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.



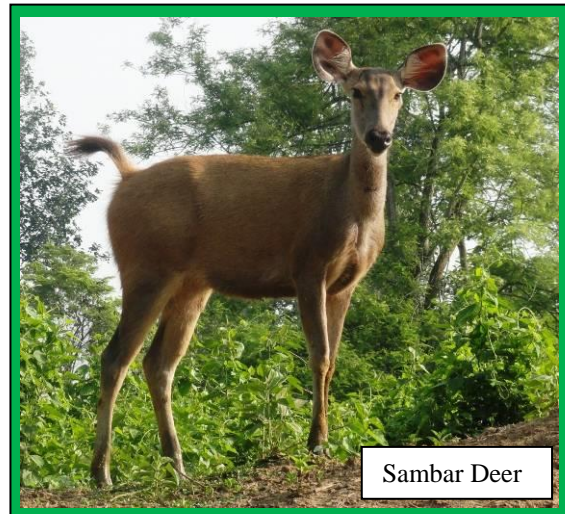
“ROCKY” The Western Hoolock Gibbon



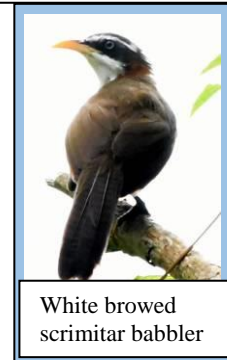
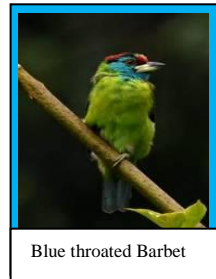
Visitors viewing “TUTU” the free-ranging Oriental Pied Hornbill

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

Free Living Mammals



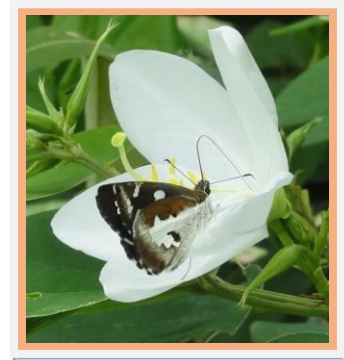
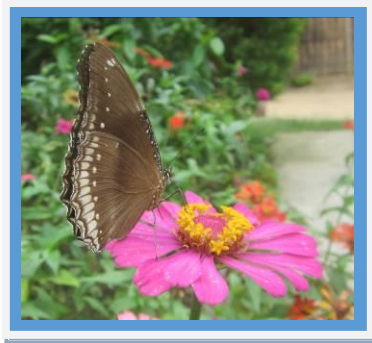
Free Living Birds



Free Living Reptiles



Some Butterflies from “Butterfly Pass”



Free Living Mammals

1	Sambar Deer	<i>Cervus unicolor</i>
2	Golden Jackal	<i>Canisaureus</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.
---	-------------	--------------------------------

Free Living Birds

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

14	Black Crested Bulbul	<i>Pycnonotus melanicterus</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 hottentottus</i>
22	Common Hoppoe	<i>Upupa epops</i>
23	Long Tailed Shrike	<i>Lanius schach</i>
24	Indian Scrimitar Babbler	<i>Pomatorhinus erythrogeus</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>Sturnus malabaricus</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</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 sphenura</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>Dendronanthus indicus</i>



Thank You

Do Visit Us


For Information, Visit Us at:

<https://www.nagalandzoologicalpark.org>

 : zoomail.nzp@gmail.com

 : Nagaland Zoological Park

 : NagaZoo

 : 7005405933, 9436600467