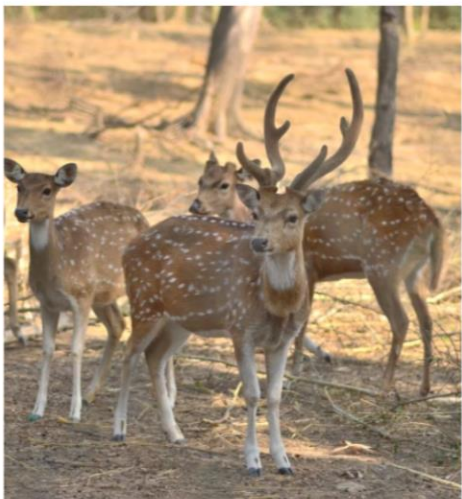




Annual Report :2020-21
Surulia Mini Zoo

SURULIA MINI
ZOO
Call of the wild...

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ZOO
Call of the wild...



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1. Report of the Officer-in-charge:

The Surulia Mini Zoo is a dynamic ex-situ nature conservation centre for the animals. This centre is built up to keep and breed wild animals / species earlier found in South West Bengal region (Jungle Mahal) for their ultimate release / re-introduce in the recently rejuvenated forests of Purulia district and to provide a safe abode to rescued wild animals, confiscated, injured, orphaned and sick animals from human habitation or miscreants.

During the past few years, the Zoo is receiving major improvements in the form of new and upgraded enclosures for Languor, Rhesus Macaques, Sloth Bears and Deer. Visitor friendly facilities such as new visitor path, beautiful lawns and landscaping have been put in place. For the betterment of the inmates, new Treatment room has been constructed. There is an informative Nature Interpretation Centre with dioramas of local fauna and tribal culture for children to interact in. A conference hall is present which is used to host wildlife film fests, quizzes and lecture sessions for the visitors.

New enclosures with night shelters and Kraal for Common Leopard, Striped Hyena and Indian Crested Porcupine have been built. Bilingual signages with distribution, habit and habitat, and conservation information of the animals have been installed. New residents like Sambar, Red Jungle Fowls have been acquired.

We would strive to achieve visitor satisfaction and will give priority to the coordination between the Zoo Staff and Officers so that there will be a good understanding between them. Our dream is to make this Zoo magnificent so that it can be made the centre of attraction to the inhabitants and the visitors to this region as well as a centre for education and awareness programme by offering exceptional public service and recreation.

Sd/-
Divisional Forest Officer
Kangsabati North Division
&
Ex-Officio Director
Surulia Mini Zoo, Purulia



2. History of the Zoo:

Surulia Mini Zoo was established in 1998 as a Spotted Deer Rescue-cum-Captive Breeding Centre with an area of 1.5 Ha. It was recognized as Mini Zoo by the Central Zoo Authority vide letter no. F No. 22-71/2004-CZA (457) (M) dated 05.08.2005. The CZA granted recognition to this Centre for a period up to 31st December, 2015 (Annexure-IX).

The main objective of this Centre was to keep and breed wild animals / species earlier found in South West Bengal region (Jungle Mahal) for their ultimate release and re-introduction in the rejuvenated forests of Purulia district. Initially the centre had 25 numbers of animals belonging to different species in the open air or caged enclosures. Later, with the increase in the variety of species being housed, the inhabitants of Puruliatown and other parts of the district became interested to visit the centre to take glimpses of local wild animals and birds.

3. Vision of the Zoo:

Our vision is to develop the zoo to serve as a dynamic ex-situ nature conservation centre for the animals by preserving the indigenous bio-diversity of the region with intensive Scientific Zoo Management by trained staff and engaging in Research activities to develop the zoo as a centre of learning for people and making it self-sufficient to accomplish its objectives.

4. Mission of the Zoo:

Our mission is to develop this mini zoo as a centre of excellence for ex-situ conservation and education and awareness programme by offering exceptional public service, recreation, and to make the future generations to become active citizens in wildlife conservation through nature education and awareness programme.

5. Objectives:

Surulia Mini Zoo was established with a view to achieve the following objectives in conformity with the National Zoo Policy, 1998:

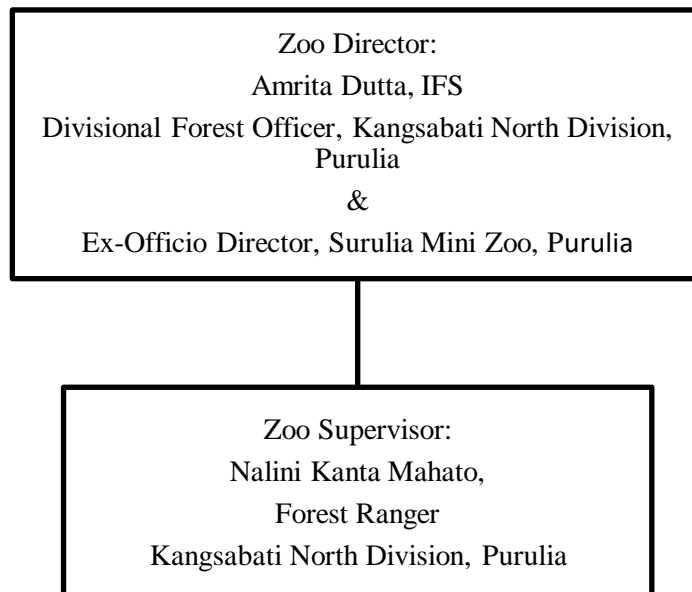
- To exhibit and display of wild animals in their naturalistic conditions
- To disseminate conservation education and spread awareness about wild animals and birds among general public especially youngsters
- To keep and breed wild animal, species earlier found in South West Bengal region (Jungle Mahal) for their release or re-introduction in the rejuvenated forests of the region
- To provide a safe abode to rescued wild animals, confiscated, injured orphaned and sick animals from human habitation or miscreants
- To promote research and education among school, college and university students on the various aspects of ecology and behaviour of wild animals
- To maintain a gene pool of the wild animals and birds
- To instill among people a sense of belonging and caring attitude towards wildlife

6. About us:

Sl. No.	Particulars	Information
Basic Information about the Zoo		
1.	Name of the Zoo	Surulia Mini Zoo
2.	Year of Establishment	05.08.2005
3.	Address of the Zoo	Vill .-Surulia, P.O. –Vivekananda Nagar, P.S.- Purulia (M), Pin – 723147 Division Address :Kangsabati North Division Raghabpur More, Purulia, Pin – 723101, West Bengal
4.	State	West Bengal
5.	Telephone Number	03252-222231
6.	Fax Number	03252-227468
7.	E-mail address	dfoknd@gmail.com
8.	Website	NA
9.	Distance from nearest	Airport:Ranchi (130 kms) Railway Station:Purulia Jn. (3km) Bus Stand:Purulia Bus Stand (6km)
10.	Recognition Valid up to (Date)	28.09.2019
11.	Category of Zoo	Mini Zoo
12.	Area (in Hectares)	6.5992 ha
13.	Number of Visitors (2020-2021)	Adult:36014 Nos. Children: 6318 Nos. Total Foreigners: Nil Total Visitors: 42332 Nos.
14.	Visitors' Facilities Available in Zoo	Drinking Water, Toilets, Seating arrangements, Ramps, Lawns
15.	Weekly Closure Day of the Zoo	Tuesday
Management Personal of the Zoo		
16.	Name with designation of the Officer in-charge	Amrita Dutta, IFS Divisional Forest Officer, Kangsabati North Division & Ex-Officio Director, Surulia Mini Zoo Zoo Supervisor: Nalini Kanta Mahato, FR Range Officer
	Name of the Veterinary Officer	Dr.Suman Mahato, DirectorofAnimalHusbandry& Veterinary Services, West Bengal Deputed.
	Name of the Curator	NA
	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	PCCF & Chief Wildlife Warden, Forest Department, Government of West Bengal Member-Secretary, West Bengal Zoo Authority
18.	Address of the Operator	Chief Wildlife Warden: North Block – 3rd Floor, VikasBhawan, Salt Lake City, Kolkata – 700091 Member-Secretary: Aranya Bhawan (7 th Floor), Block- LA-10A, Sector- III, Salt Lake City, Kolkata – 700 106
19.	Contact details / Phone number of Operator	+913323355010
20.	E-mail address of Operator	mswbza@gmail.com , wbzooauthority@yahoo.com

7. **Organizational Chart :**



8. **Human Resources :**

Manpower of the Zoo*

Sl. No.	Designation	No. of Sanctioned Posts	No. of Sanctioned posts filled	Names of the incumbent
1.	Zoo Supervisor	1	1	Nalini Kanta Mahato, FR
2.	Veterinary Assistant	1	1	Soumen Mandal
2.	Zoo Keeper	2	2	Ganesh Rajwar Yudhisthir Rajwar
3.	Animal Attendant	4	4	Biswajit Rajak Malinda Rajwar Prakash Singh Niru Rajwar
4.	Security Personnel	4	4	Swapan Rajwar Tulshi Rajwar Kishan Bouri Nepal Bouri
5.	Ticket Collector	1	1	Shekhar Choudhury
6.	Gate Keeper	1	0	
7.	Sanitation Attendant	1	1	Smt. Swarupa Bauri
8.	Garden Attendant	1	1	Kalipada Rajwar

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 attached
1.	Nalini Kanta Mahato, Zoo Supervisor Zoo Keepers- Ganesh Rajwar Yudhisthir Rajwar Animal Attendants- Biswajit Rajak Malinda Rajwar Prakash Singh NiruRajwar Security personnel- Swapan Rajwar Tulshi Rajwar Kishan Bouri Nepal Bouri	Snake Identification, Rescue and Bite Management	05.08.2019	Surulia Mini Zoo premises
2.	Yudhisthir Rajwar, (Zoo keeper) Ganesh Rajwar, (Zoo Keeper) Malinda Rajwar,	Snake Biology, Taxonomy, Rescue, Management, Conservation	23/11/2019	Surulia Mini Zoo premises

	(Animal Attendant)			
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10. Zoo Advisory Committee :

a. Date of constitution – 23.12.2009

b. Members -13 Nos.

1. Chief Secretary to the Govt. of West Bengal Chairman
2. Addl. Chief/Principal Secretary to the Govt. of West Bengal, Dept. of Forests Vice-Chairman
3. Secretary, West Bengal Zoo Authority Member-
4. Secretary to the Govt. of West Bengal, Dept of Finance
5. Principal Chief Conservator of Forests & HOFF, West Bengal Member
6. Principal Chief Conservator of Forests (Wildlife) and Chief Wildlife Warden, West Bengal Member
7. Member Secretary, Central Zoo Authority, New Delhi Member
8. Director, Animal Husbandry & Vet. Services, W.B Member
9. Director, Padmaja Naidu Himalayan Zoological Park, Darjeeling Member.
10. Director, Zoological Garden, Alipore, Kolkata Member
11. Shri Debasish Paramanik, Raigunj Panchayet Samiti, Uttar Dinajpur Member
12. Shri Sankar Dhar, People's for Animals, Alipurduar Member
13. Sk. Johar Ali, President , All Backward Class Relief & Development Mission Member
14. Smt. Debolina Biswas, Councilor, Kolkata Municipal Corporation, Ward No. 74 Member

c. Dates on which Meetings held during the year–

Nil

11. Health Advisory Committee :

a. Date of constitution–

b. Members–2 Nos.

1. Dr.MalayMaity.
2. Dr.JoyjitMitra.

c. Dates on which Meetings held during the year–

Nil

12. Statement of income and expenditure of the Zoo :

Opening Balance -Rs.1478856.78

Month	Revenue	Fund Received	Total Budget	Expenditure
Apr-20	-	10,00,000.00	14,78,856.78	
May-20	-	15,00,000.00	24,78,856.78	38,21,46.00
Jun-20	-	15,66,885.00	39,78,856.78	69,43,91.00
Jul-20	-	-	55,45,741.78	49,97,62.00
Aug-20	-	-	55,45,741.78	44,43,63.00
Sep-20	-	28,46,384.00	55,45,741.78	12,76,807.00
Oct-20	26,467.00	-	83,92,125.78	39,92,40.00
Nov-20	26,358.00	17,03,066.00	83,92,125.78	80,22,76.00
Dec-20	52,034.00	15,00,000.00	10,09,5191.78	89,69,77.00
Jan-21	11,72,08.00	-	11,59,5191.78	74,50,44.00
Feb-21	42,514.00	-	11,59,5191.78	10,26,307.00
Mar-21	31,136.00	24,50,000.00	11,59,5191.78	11,69,061.00
Total	29,57,17.00	12,56,63,35.00	14,04,5191.78	83,36,374.00

13. Daily feed Schedule of animals:

Sl. No.	Species	Feed item	Quantity		Day of fasting
			Winter	Summer	
1.	Sloth Bear	Wheat Flour, Milk, Refine Oil, Dates,Egg Honey	Dates	Watermelon	--
2.	Common Langur	Gram, rice, Banana	-	-	-
3.	Rhesus Monkey	Gram, rice, Banana	-	-	-
4.	Peafowl	Wheat, Rice, banana	-	-	-
5.	Indian Rock Python	Hen,	-	-	-
6.	Lesser Adjutant Stork	Fish	-	-	-
7.	Spotted Deer	MoongChuni, MusurChuni, ArharChuni, Molasses, Gram Chuni, BarleyChuni, Crushed Maize, Mustered-oil cake, CattleFeed,Wheat Brann, Black Salt, Green Vegetables	-	Watermelon	-
8.	Porcupine	Gram, , Banana	-	-	-
9.	Sambar	Wheat Bran, Crushed Maize, Mustered-oil cake, Thatch, ArharChuni, Molasses,			
10.	Red Jungle Fowl	Wheat& Paddy, Cabbage & Spinach, Carrot, Pumpkin, Boiled egg			

14. Vaccination Schedule of animals

<u>Sl No</u>	<u>Species</u>	<u>Disease vaccinated for</u>	<u>Name of vaccine & dosage/quantity used</u>	<u>Periodicity</u>	<u>Remarks</u>
1	Sloth Bear	Rabbies			As advised time to time by visiting Zoo Veterinarian
2	Common Langur	Rabbies			
3	Rhesus Monkey	Rabbies			
4	Peafowl	=			
5	Indian Rock Python	=			
6	Owl	=			
7	Lesser Adjutant Stork	=			
8	Spotted Deer				
9	Porcupine				
10	Sambar				
11	Red Jungle Fowl	=			

15. De-worming Schedule of animals

<u>Sl. No.</u>	<u>Species</u>	<u>Drug used</u>	<u>Month</u>	<u>Done on</u>
1.	All Mammals, Reptile and Birds in the zoo	Fenbendazole + Praziquantel	April	28.04.2020
		Albendazole + Ivermectin	September	02.09.2020
		Fenbendazole + Praziquantel	February	12.02.2021

16. Disinfection Schedule

<u>Sl No</u>	<u>Species</u>	<u>Type of Enclosure</u>	<u>Disinfectant used and method</u>	<u>Frequency of Disinfection</u>
1	Sloth Bear	Open with Night Shelter	KMnO ₄ Footbath, Lime dusting, Ca(ClO) ₂	Permanent footbath water changed daily, rest thrice in a week
2	Common Langur	Open with Night Shelter	KMnO ₄ Footbath, Lime dusting, Ca(ClO) ₂	Permanent footbath water changed daily rest thrice in a week
3	Rhesus Monkey	Open with Night Shelter	KMnO ₄ Footbath, Lime dusting, Ca(ClO) ₂	Permanent footbath water changed daily rest thrice in a week
4	Peafowl	Cage	KMnO ₄ wash, Lime dusting, Ca(ClO) ₂	Cleaning Daily Disinfectant thrice in a week
5	Indian Rock Python	Cage	KMnO ₄ wash, Lime dusting, Ca(ClO) ₂	Cleaning Daily Disinfectant thrice in a week
6	Lesser Adjutant Stork	Cage	KMnO ₄ wash, Lime dusting, Ca(ClO) ₂	Cleaning Daily Disinfectant thrice in a week
7	Spotted Deer	Cage	KMnO ₄ wash, Lime dusting, Ca(ClO) ₂	Permanent footbath water changed daily

				rest thrice in a week
8	Porcupine	Cage	KMnO ₄ wash, Lime dusting, Ca(ClO) ₂	Cleaning Daily Disinfectant thrice in a week
9	Sambar	Open with feed & rest sheds	KMnO ₄ Footbath, Lime dusting, Ca(ClO) ₂	Permanent footbath water changed daily rest thrice in a week
10	Red Jungle Fowl	Cage	KMnO ₄ wash, Lime dusting, Ca(ClO) ₂	Cleaning Daily Disinfectant thrice in a week

17. Health Check-up of employees for zoonotic diseases

Sl.No.	Name	Designation	Date of Health Check up	Findings of Health Check up
1.	Shekhar Choudhury	Ticket Collector	05.08.2019	All employees found free from any disease or illness and found fit for service
2.	Yudhisthir Rajwar,	Zoo keeper		
3.	Ganesh Rajwar	Zoo Keeper		
4.	Biswajit Rajak	Animal Attendant		
5.	Prakash Singh	Animal Attendant		
6.	Malinda Rajwar	Animal Attendant		
7.	Niru Rajwar	Animal Attendant		
8.	Kalipada Rajwar	Garden Attendant		
9.	Nepal Bouri	Security Personal		
10.	Tulshi Rajwar	Security Personal		
11.	Swapan Rajwar	Security Personal		
12.	Kishan Bouri	Security Personal		
13.	Swarupa Bauri	Sanitation Attendant		

18. Development Works carried out in the zoo during the year:



Construction of Leopard Enclosure



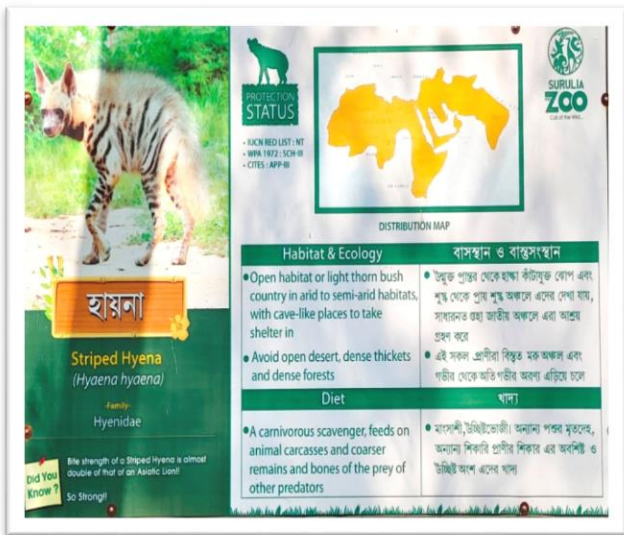
Construction of Hyena Enclosure



Porcupine Enclosure



Construction of Post Mortem room



Bilingual species information display boards



Instructive signages

19. Education and Awareness programmes during the year :

1. Specialized Training-cum-Workshop Programmes by experts on Animal biology, taxonomy, and handling have been arranged for zoo staff and other departmental staff, JFMC members time to time.
2. A Workshop on Wild Life Law Enforcement by legal experts has been arranged for officers of DCF, ACF rank, range and beat Officers, of the Department to impart and sharpen skills of identification and court case handling.
3. Awareness programmes have been conducted in the zoo to collaborate World Environment Day, Wildlife week and other important events of environmental significance.

20. Important Events and happenings :

- Workshop on forest & wildlife act & forest conservation act dated 18.07.2019.
- Workshop on snake biology, handling and bite management dated 05.08.2019.
- Workshop on snake biology, taxonomy, rescue, handling and bite management dated 23.11.2019
- Inauguration of Zoo website and guided tour of newly installed Bilingual Enclosure Boards, Zoo Etiquette Board and Warning Signs dated 09.12.2019
- Workshop on Wild Life Law Enforcement dated 17.12.2019 – 18.12.2019

21. Seasonal special arrangements for upkeep of animals :

Feed of the animals is modulated as per advice of veterinary officer depending on seasonal conditions. Special provisions for bathing for sloth bears, water points for primates, deer, etc are also arranged. Thatch sheds are put up in the deer enclosure and other enclosures for the animals to rest in.

Warming arrangements e.g. rags, straw cushioning are provided to the animals in cold weather.

22. Research Work carried out and publications :

At present there is no research programme in the Zoo. However, students from local colleges take up dissertation projects on the habitat and flora of the Zoo. Research programmes in collaboration with local colleges and universities are encouraged.

23. Conservation Breeding Programme of the Zoo :

The Zoo has taken up planned captive breeding of some locally found wild animal species earlier found in the forest of South west Bengal like e.g. Spotted Deer.

24. Animal Acquisition / transfer / exchange during the year :

<u>A</u>	Animals arriving in the Zoo				
	H.No	Species	Number (M:F)	From which Zoo	Date of Arrival at the Zoo

<u>B</u>	Animals going from the Zoo				
	H.No	Species	Number (M:F)	to which Zoo	Date of deposition from the Zoo
	NA				

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

Sl.	Date	Name of	Received from	Date of	Action taken
-----	------	---------	---------------	---------	--------------

No.		Species with Nos.		Submission of Report to the CWLW / CZA	Date and Place of rehabilitation in their habitat	Reasons for housing in the zoo, if not released in their habitat
1.	17.04.2020	L.A Stork-1No.	Hura Range		Released on 23.04.2020 at Surulia Mini Zoo forest	
2.	19.04.2020	Peafowl-1No.	Purulia Para Range		---	Expired on 02.05.2020
3.	09.05.2020	Barking Deer- 1No.	Kotshila Range		Released on 13.05.2020 at Kotshila Range	---
4.	11.05.2020	L.A Stork-1No.	Barabazar Range KSD		---	Expired on 11.05.2020
5.	28.05.2020	Peafowl-1No.	Joypur Range Purulia Division		Display at Zoo	
6.	29.07.2020	Common Langur-1No.	Purulia Para Range		Released on 19.09.2020 at GarhPanchakot Hill	---
7.	31.07.2020	Eegret Birds- 24 No.	Bankura Beliatore Range		Released on 09.08.2020 at Surulia mini zoo forest.	---
8.	27.08.2020	Python-1No.	Purulia Para Range		Release on 19.09.2020 at GarhPanchakot Hill	
9.	13.09.2020	Common Langur-1No	Purulia Para Range		Released on 03.11.2020 at Ajodhya Hill	---
10.	03.10.2020	Rhesus monkey-1No.	Kotshila Range		Released on 03.11.2020 at Ajodhya Hill	
11.	04.10.2020	Peacock-1 No.	Manbazar-I Range Sindurpur Beat		Display	
12.	23.10.2020	Common Langur-1 No.	Puncha Range		Released on 22.12.2020 at Surulia mini zoo forest.	
13.	30.11.20	Common Langur-1No.	Purulia Para Range		Released on 13.02.2021 at Rakab Forest Keshargarh Beat	
14.	04.02.2021	Burn Owl-1No.	Manbazar I Range			Expired on 12.02.2021
15.	22.03.2021	Peahen-1No.	Joypur Range Purulia Division		Display at Zoo	

26. Annual Inventory of animals :

27. Form – ii

28. [See Rule 11 (1)]

29. Inventory Report for the Year: 2020-2021

30. Endangered Species*

S.N	Animal Name	Scientific name	Opening Stock as on				Births			Acquisition			Disposal			Death			Closing Stock as on					
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T		
Endangered Species Schedule I & II																								
1	Peafowl	<u>Pavocristatus</u>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Bear Sloth	<u>Melursusursinus</u>	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
3	Langur Common	<u>Semnopithecusentellus</u>	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
4	Macaque Rhesus	<u>Macacamulatta</u>	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
5	Python Indian-Rock	<u>Python molurus</u>	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
		<u>Total of Endangered Species</u>	4	1	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	1
Other than Endangered Species (Schedule III and IV)																								
6	Owl Barn	<u>Tyto Alba</u>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Stork Adjutant(lesser)	<u>Leptoptilosjavanicus</u>	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
8	Red Jungle Fowl	<u>Gallus gallus</u>	1	2	0	3	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	3	2	0
9	Deer Spotted (Chital)	<u>Axis axis</u>	7	13	5	25	0	0	8	0	0	0	0	0	0	1	2	0	9	11	10	30		
10	Porcupine(Albino)	<u>Hystrixindica</u>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	Sambar	<u>Rusaunicolor</u>	1	2	0	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0
		<u>Total of Species</u>	10	18	7	35	0	0	11	0	0	0	0	0	0	1	2	0	15	16	12	43		

*Animals under Schedule I and Schedule II of the Wild Life (Protection) Act, 1972



Peacock and Python within their enclosure

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 the Post-mortem report
1.	Spotted Deer	<i>Axis axis</i>	F	23.11.2020	Weakness & Debility from old age & senility.
2.	Spotted Deer	<i>Axis axis</i>	F	27.01.2021	Death may have occurred due to cardiac arrest old age & senility.
3.	Spotted Deer	<i>Axis axis</i>	M	19.02.2021	Death may have occurred general debility from old age & respiratory arrest.

28. Compliance with conditions stipulated by the Central Zoo Authority :

Sl.	RZR, 2009 Norm No.	Particulars of suggestions/ recommendation	Time Period to Comply	Since When Pending	Status with regard to compliance of the conditions as submitted by the Officer-in-charge of the Zoo	Status with regard to compliance as noted physically by the evaluator during the visit on 18.03.2020
1. General requirements						
1.	10.1 (2)	The zoo should plant indigenous species of the plants in and around the newly constructed enclosures.	Immediately	29.01.2019	Complied.	Seen.
2.	10.1 (6)	There is a rest house constructed inside the zoo premises. The same should be separated by a boundary wall of 2 mtr. Height with independent entry and exit facility.	Immediately	29.01.2019	Under process.	The wall should be completed by the next evaluation.
3.	10.1 (9)	The entry of the zoo through main entrance and from rest house side should have appropriate barrier to ensure prevention of entry of stray animals in the zoo premises.	Immediately	29.01.2019	Complied.	Seen.
2. Administrative and Staffing Pattern						
4.	10.2 (1)	The Zoo Director is also having the additional responsibility of the Forest division. A whole time officer-in-charge of the zoo should be deputed to work exclusively for the zoo who shall be of appropriate rank with adequate administrative and financial powers.	Immediately	29.01.2019 and 15.06.2016	Complied. An In-Charge of rank Range Officer with adequate administrative and financial powers deputed as Zoo Supervisor.	Seen.
3. Development and Planning						

5.	10.3 (1)	The zoo should get the Master Plan approved from the CZA for its long term development.	Immediately	29.01.2019	Complied. Master Layout Plan approved on 28 th September, 2017 by CZA in its 30 th meeting. Master plan approval is pending from CZA.	Concerned authority may be requested to grant approval within next 6 months.
6.	10.3 (7)	The zoo should not accept any rescued animal unless the zoo has appropriate housing facility for the animal.	Immediately	29.01.2019 and 15.06.2016	Complied.	Seen.
4. Animal housing, display of animals and animal enclosures						
7.	10.4 (2)	At present the rescued monkey and birds are housed in very poor condition in small cages. The zoo should construct appropriate housing facility for the rescued animal as per the approved Master (Layout) plan following design and dimension of the enclosure prescribed by the CZA for similar species.	Immediately	29.01.2019	Complied. Old Rescue Enclosures have been repaired properly.	Seen. New Rescue-cum-Quarantine Centre should be completed within 1 year.
8.	10.4 (3)	The keeper entry to the Spotted deer enclosure is from the visitor side. It should be modified by constructing Night House following CZA prescribed norms and guidelines. A Kraal should be constructed with feeding cells which may also be used as night shelter for animals in extreme weather conditions.	Immediately	29.01.2019	Kraal has been constructed in the deer enclosure. Keeper Entry shall be through Service Road side when the Service Road is constructed (under process)	Seen. Service Road should be completed within 1 year.
9.	10.4 (6)	The zoo should provide species specific enrichment to the animals of all species housed in zoo.	Six month	29.01.2019	Complied. All enclosures are provided with species-specific enrichments e.g. Mud-pool for Sambar,	Seen.

					Cave and water-pool for Striped Hyena, Climbing provision and water-pool for Common Leopard, Burrowing provision for Indian Crested Porcupine etc.	
10.	10.4 (10)	The bilingual Signage's should be displayed with adequate scientific information of the species housed in the enclosure.	Three month	29.01.2019	Complied.	Seen.
5. Upkeep and healthcare of animals						
11.		The left over excreta of animals and other wastes should be removed on daily basis.	Immediately	29.01.2019	Complied.	Seen.
12.	10.5 (5)	The provision of footbath should be made at entry and exit point of the each enclosure. Further, the footbath should have provision of proper disinfectant.	Immediately	29.01.2019	Complied.	Seen.
13.	10.5 (6)	The food and water samples should be tested randomly and periodically for any contaminants at recognized laboratory.	Immediately	29.01.2019	On process.	Seen.
14.	10.5 (8)	The animal vaccination and de-worming schedule should be prepared and displayed at each enclosure and the same should be implemented.	Immediately	29.01.2019	Complied.	Seen.
15.	10.5 (9)	The zoo staff handling the animals should be screened against zoonotic diseases at least once in a year and the record should be maintained thereof.	Immediately	29.01.2019	Complied. Last done in September, 2019.	Seen.

16.	10.5 (10)	The Keeper's Diary, Daily Reports, Animal History Cards and Treatment Cards should be prepared as per the specified standards/format of the Central Zoo Authority.	Immediately	29.01.2019 and 15.06.2016	Complied.	Seen.
6. Veterinary and Infrastructure Facilities						
17.	10.6 (1)	The zoo is constructing a treatment room for animals. It should have provision of sufficient light and should be well equipped.	Three month	29.01.2019	Treatment Room is complete and will be equipped with sufficient illumination and medical equipments. Procurement is on process.	Should be completed within 1 year.
18.	10.6 (5)	Whole time veterinary support staff should be deputed.	Immediately	29.01.2019	Recruitment of whole-time veterinary support staff has been done.	Seen.
7. Post-Mortem and disposal of carcasses of animals						
19.	10.7 (2)	The zoo should record the finding of the post mortem of every animals dying in zoo. The CZA prescribed format should be used to record the finding and records should be maintained for not less than six years.	Immediately	29.01.2019	Complied.	Seen.
9. Acquisition and breeding of animals						
20.	10.9 (2)	The zoo should also take animal exchange programme especially for Spotted deer with other nearby recognized zoos as a safeguard against ill effects of inbreeding.	Immediately, as not done from long past.	29.01.2019 and 15.06.2016	Application for permission of Exchange program has been sent vide memo no 6544 dated 27 th December, 2019 of this office.	Seen
21.	10.9 (7)	The surplus population of the Spotted deer should be transfer to nearby recognized zoo having appropriate housing facility or should be released in their natural habitat following procedure and guidelines laid in	Immediately	29.01.2019 and 15.06.2016	Complied. 30 no of spotted deers were translocated to natural habitat during March 2019 with due permission of CZA vide memo no.F.No.23/- 1/2018- CZA(PKR)/4571/2018	Seen.

		this regard with prior approval of the CZA.			dated 12.10.2018	
22.	10.9 (7)	The zoo should implement scientific population control methods to limit the growing population of the Spotted deer.	Immediately	29.01.2019 and 15.06.2016	Will be taken up in compliance with CZA norms.	Seen.
10. Research Activities						
23.	10.10 (1)	The zoo by involving local education institutions should initiate need based research programme in the zoo.	One year	29.01.2019	Complied. Students from local colleges take part in research activities.	Seen.
11. Education and Outreach Activities						
24.	10.11(1)	The zoo should celebrate various environment days and wildlife week as Education and Outreach activity for the local people to make them aware of environment conservation.	Immediately	29.01.2019	Complied. Regular Celebration of Environment and Wildlife Days involving School Children and Public is taken up.	Seen.
12. Visitor Facilities						
25.	10.12 (2)	The zoo should also procure and maintain snake anti-venom and made available to the visitor or zoo staff as and when required.	Immediately	29.01.2019	Available for staff and visitor at the District Healthcare Facility which is very close to the zoo.	Seen.
26.	10.12 (3)	The zoo should make arrangement of wheel chair to facilitate the visit of “divyangjan”.	Immediately	29.01.2019	“Divyangjan”-friendly navigation and other facilities are present.	Seen.

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

- a. **Mammals**-Rat, Indian Palm Squirrel, Common Languor (*Presbytis entellus*), Common mongoose (*Herpestesedwardsii*), Fruit Bats (Chiroptera), Rhesus Monkey (*Macaca mulatta*)
- b. **Birds**-Jungle Babblers (*Turdoidesstriata*), Indian Myna (*Acridotherestrictis*), Parakeets (*Psittacidae*), Cuckoos (*Cuculidae*), Owls (*Strigidae*), Doves (*Columbidae*), Lesser Adjutant Storks (*Leptoptilosjavanicus*)
- c. **Reptiles**- Common Sand Boa (*Bungarusfasciatus*), Common Krait (*Bungaruscaeruleus*), Garden Lizards (*Calotesversicolor*), Snakes (*Najanaja*, *Viperaspp*, *Ptyasmucosus*, *Amphiesmastolata* etc.),

Submitted by

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Divisional Forest Officer, Kangsabati North Division &
Ex-Officio Director, Surulia Mini Zoo, Purulia