

BARDHAMAN ZOOLOGICAL PARK
RAMNABAGAN, BURDWAN

ANNUAL REPORT FOR THE YEAR
2017-18



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Report of the Officer-in-charge

1. History of the Zoo

Bardhaman Zoological Park erstwhile Ramnabagan Mini Zoo has been developed within the Ramnabagan Wild Life Sanctuary, a natural forest patch flourished during the feudal reign of Rajas and Maharajas of Bardhaman Taluk. After the promulgation of Estate Acquisition act, it was handed over to the Forest Department of West Bengal for management. The area had been declared as reserved forests vide Notification No. 2275-For. Dt. 07.06.1960. In the year 1978, the area had been converted to a Deer Park with the introduction of 6 nos. of deer. Subsequently, the whole area of 14.31 ha. has been declared as Wild Life Sanctuary vide G.O. No. 4345/For-11B-7/80 dt. 30.09.1981. In the recent past lots of illegal trades of wild animals & birds were going on throughout the country. The transportation is mainly through railways and roads. Due to intervention by the staff of Burdwan Forest Division, some animals and birds are seized from time to time & kept in a portion of the Sanctuary maintained as a rescue center. Moreover, any injured animal rescued in the district is also given shelter in this Zoological Park. Since there is no zoo located in the district and nearby areas, people from Burdwan town and other parts of the district became interested to visit the rescue center to take a glimpse of wild animals and birds.

As per the provisions laid down in **Wild Life Protection Act, 1972 (Amended)**, it is mandatory to obtain permission for setting up of any rescue center or zoo from Central Zoo Authority, Govt. of India. Accordingly, Ramnabagan Wild Life Sanctuary was recognised as a Mini Zoo vide Central Zoo Authority's memo number F. No. 22-67/2004-CZA(473)(M) dt. 10.02.2006. Renewal of recognition to Ramnabagan Zoo, Burdwan (renamed as Bardhaman Zoological Park, Bardhaman), upto 18.05.2018 was sanctioned by Central Zoo Authority, New Delhi vide their No. F. No. 22-67/2004-CZA (473)(Vol.II)(AK)/1155/2017 dated 22.06.2017 as a '**Small category Zoo**'. Application for renewal of recognition to Bardhaman Zoological Park, Burdwan beyond 18.05.2018 has been submitted to the Central Zoo Authority with requisite fees of Rs. 5,000/- (Rupees Five thousand) only vide this office No.444-47/R-13 dt. 08.02.2018 and revisedly submitted vide this office No. 972-75/R-13 dt. 13.03.2018.

Area : The area of Bardhaman Zoological Park is 14.31 ha. located in mouza Baburbag, J.L. No.40, P.S. Burdwan (Sadar) within the municipal limits of Burdwan town Longitude – 87.30⁰ east, Latitude – 23.15⁰ north and mean sea level – 20 m.) Soil is alluvial plain of Western Gangetic basin. Topography is flat.

2. Vision

The Bardhaman Zoological Park intends to complement the national efforts to develop empathy among visitors for wild animals. It will help to showcase the rich biodiversity of middle and lower Gangetic plains.

3. Mission

The mission of the Bardhaman Zoological Park is conservation of representative wild animals. The Zoological Park provides rewarding experience to the visitors about the wildlives of the past and present of the Gangetic plains. The mission is also to provide future direction for modernization and upgradation of the Zoological Park to such extent that it can be at par with one of the best zoological parks in the country.

4. Objective

- i) Conservation education and awareness generation of endangered spp. among general people to develop a healthy relationship between animals and human being.
- ii) Display of animals and birds in a forest patch for education through amusement of visitors.
- iii) Research & education by college and university students of Bardhaman University situated close to the Zoological Park.
- iv) To maintain gene pool of wild animals and birds.
- v) To provide a safe abode to the rescued wild animals, confiscated, injured, orphaned and sick animals.
- vi) To protect animals from immediate and impending danger to their lives.
- vii) For research on the various aspects of ecology and behaviour of wild animals.
- viii) To give shelter to Indian soft-shelled turtles (*Lissemys punctata punctata*) and Ganges soft-shelled turtles (*Trionyx gangeticus*) in the existing pond in the Zoo seized from time to time on transit in illegal trade.

5. About us

S.No.	Particulars	Information
Basic Information about the Zoo		
1	Name of the Zoo	Bardhaman Zoological Park (erstwhile Ramnabagan Mini Zoo) Burdwan
2	Year of Establishment	2006
3	Address of the Zoo	Bardhaman Zoological Park Ramnabagan P.O. Rajbati Dist. Purba Bardhaman Pin – 713 104
4	State	West Bengal
5	Telephone Number	0342 - 2657172
6	Fax Number	0342- 2659507
7	E-mail address	dfobdn@yahoo.co.in
8	Website	Not exists
9	Distance from nearest	Airport: 110 km.

S.No.	Particulars	Information
		Railway Station: 4 km.
		Bus Stand: 3 km.
10	Recognition Valid upto (Date)	18.05.2018 (Applied for renewal of recognition vide this office No. 444-47/R-13 dt. 08.02.2018 and revisedly submitted vide this office No. 972-75/R-13 dt. 13.03.2018).
11	Category of zoo	Small Category Zoo
12	Area (in Hectares)	14.31 ha.
13	Number of Visitors (Financial Year 2017-18)	Adult : 91833
		Children : 8366
		Total Indian : 100199
		Total Foreigners : nil
		Total Visitors: 100199
14	Visitors' Facilities Available in Zoo	<p>a. There are two big umbrellas and quite a good number of concrete benches for the visitors to take rest</p> <p>b. Urinals / toilets are also there to use for the visitors separately for gents and ladies.</p> <p>c. For the amusement of children, construction of a small children park with swings, slopes etc. are felt absolutely necessary.</p> <p>d. Drinking water supply facility and road network within the zoo are available, but it needs to be improved</p> <p>e. Visitors' amenities to be enhanced and of course new road net work is needed for new enclosures in future which is in the master lay out plan and being undertaken. Visitors' circulation is also under development programme.</p> <p>f. A watch tower with 65' height at the northern side of the zoo is built to have a bird's eye view of the surrounding forest patch</p>

S.No.	Particulars	Information
		with the captive and free living animal species as well as the adjacent urban localities to the visitors.
15	Weekly Closure Day of the Zoo	Thursday
Management Personnel of the zoo		
16	Name with designation of the Officer in-charge	Shri Debashish Sharma, IFS Ex-officio Director, Bardhaman Zoological Park & Divisional Forest Officer, Burdwan Division.
	Name of the Veterinary Officer	Shri Tapan Kumar Ghosh, V.O.
	Name of the Curator	Shri Sujit Kumar Das, WBFS, locally arranged Curator, Bardhaman Zoological Park & Asstt. Divisional Forest Officer, Burdwan Division.
	Name of the Biologist	Not exists
	Name of the Education Officer	Not exists
	Name of the Compounder/ Lab Assistant	Not exists
Owner / Operator of the Zoo		
17	*Name of the Operator	Shri Debashish Sharma, IFS
18	Address of the Operator	Divisional Forest Office Ramnabagan, P.O. Rajbati Dist. Purba Bardhaman
19	Contact details/Phone number of Operator	0342-2657172 (landline) 9547144500 (mobile)
20	E-mail address of Operator	dfobdn@yahoo.co.in

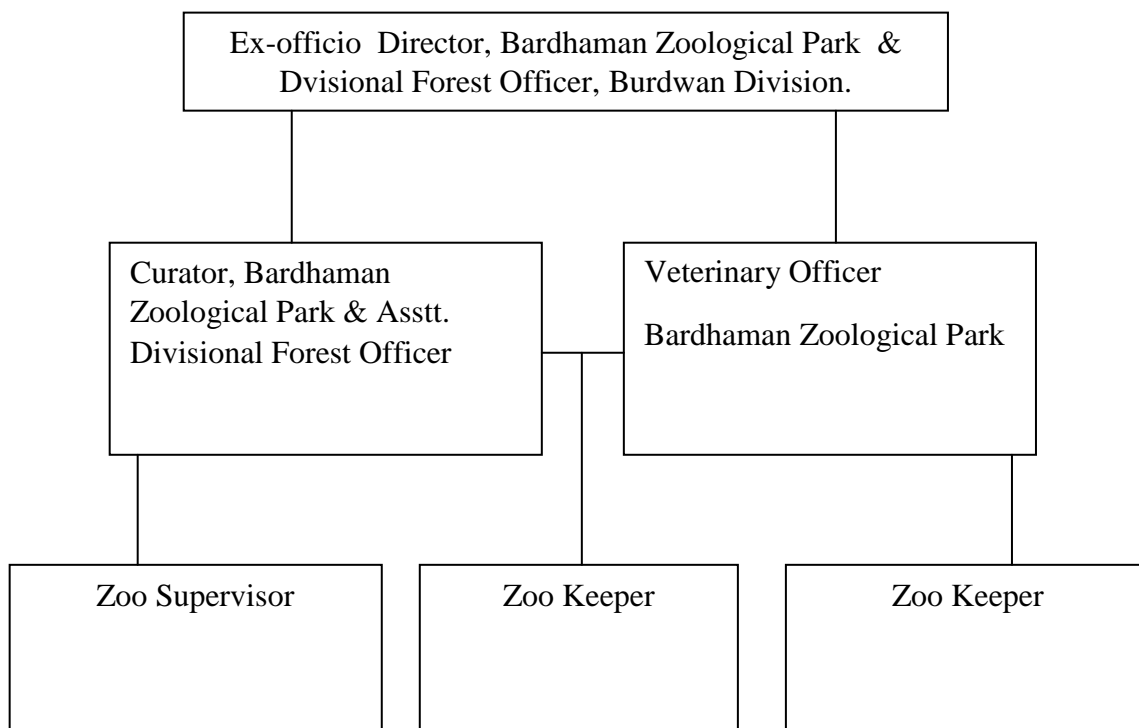
* Rule 2(m) of the Recognition of Zoo Rules, 2009.

“Zoo Operator” means the person who has ultimate control over the affairs of the zoos provided that _____

- I. in the case of a firm or other association of individuals, any one of the individual partners or members thereof; or*
- II. in the case of a company, any director, manager, secretary or other officer, who is in-charge of and responsible to the company for the affairs of the zoo; or*

III. In case of zoo owned or controlled by the Central Government or any State Government or Union Territory Administration or any Trust or Society funded by the Central Government or a State Government or a Union Territory Administration, the Secretary of the concerned Department of that Government, or as the case may be the Union Territory Administration, shall be deemed to be the Zoo Operat

6. Organizational Chart



7. Human Resources

Manpower of the Zoo*

Sl.No.	Designation	Number of Sanctioned Posts	Names of the incumbent
A. Sanctioned strength of Officer & Permanent Staff			
		Sanctioned strength	Existing
1	Ex-officio Director	1	Debashish Sharma, IFS
2	Asstt. Director	1	Vacant
1	Veterinary Officer	1	Dr. Tapan Kumar Ghosh (on contractual basis)
2	Zoo Biologist	1	Vacant

Sl.No.	Designation	Number of Sanctioned Posts	Names of the incumbent
3	Zoo Supervisor	1	Vacant
4	Education Assistant	1	Vacant
5	Veterinary Assistant	1	Vacant
6	Asstt. Zoo Supervisor	1	Vacant
7	Asstt.Estate/Security Supervisor	1	Vacant
8	Gate Keeper	1	Vacant
9	Driver	1	Vacant
10	Zoo Keeper	8	1. Rabindranath Pal (permanent) 2. Susanta Mondal (on contractual basis)
11	UDC	1	Sukumar Patra Retd. P.A. to DFO (on contractual basis)
12	OA/LDC	1	Subhankar Das (on contractual basis; engaged through Webel)
13	Ticket Clerk	1	Vacant
B. Support Staff (on contract) Sanctioned strength Existing			
14	Security Guard	12	1. Pravat Majhi 2. Avijit Das 3. Binay Madhab Bhakat 4. Raju Keut 5. Sk. Lal Babu 6. Sk. Alamgir Islam 7. Manoj Kumar Shaw 8. Krishnendu Mohanta
15	Sanitary Attendant	6	1.Tapas Dalui
16	Garden Attendant	6	Vacant
17	Attendant	7	Vacant
18	Animal Attendant	8	Vacant

*Please give abovementioned information in respect of all zoo personnel, from the Officer in-charge upto the Animal Keeper.

8. 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	1. Bangali Dusad, F.G. 2. Subodh Das, F.G.	Training for tranquilisation	29 th & 30 th May, 2017	Zoological Garden, Alipore, Kolkata
2	1. Debashish Sharma, IFS Ex-officio Director, Bardhaman Zoological Park & DFO/Burdwan Division. 2. Sujit Kumar Das, WBFS Locally arranged Curator & Asstt. D.F.O./Burdwan Division	Workshop on Enrichment of Zoo enclosures	30.01.2018 & 31.01.2018	Zoological Garden, Alipore, Kolkata
3	1. Rabindranath Pal, Zoo Keeper 2. Susanta Mondal, Zoo Keeper	Theme based training programme for Zoo Keepers	20.03.2018 to 25.03.2018	Nandankanan Zoological Park, Bhubaneswar, Orissa

9. Zoo Advisory Committee – Not constituted yet.

- a. Date of constitution
- b. Members
- c. Dates on which Meetings held during the year

10. Health Advisory Committee–

- a. Date of constitution - 07,03,2018 (Constituted by WBZA)
- b. Members
 1. Joint Director, ARD IAH & VB (R&T) - Chairman
Belgachia, Kolkata-37
 2. Dr. Joyjit Mitra, Specialist (Sero-Epidemiology)- Member
RDDDL (ER),IAH & VB
Belgachia, Kolkata-37
 3. Dr. Debasish Chatterjee, Asstt. Director,ARD - Member
(Vety), (Desease Investigation),IAH & VB,
Belgachia, Kolkata-37
 4. Dr. Proloy Mandal, Asstt. Director, ARD - Member
(Vety.), IAH & VB, Belgachia, Kolkata – 37
- c. Dates on which Meetings held during the year - No meeting during the year.

11. Statement of income and expenditure of the Zoo-

Sl. No.	Scheme	Opening balance (Rs.)	Fund received during the year (Rs.)	Expenditure during the year (Rs.)	Closing balance (Rs.)
1	Non-Plan	88297.00	8512000.00	8362849.00	237448.00
2	State-Plan	461770.00	11292334.00	10993331.00	760773.00
		550067.00	19804334.00	19356180.00	998221.00

Revenue earned from collection of entry fee to the Zoo during 2017-18 = Rs. 11,85,233.00

12. Daily feed schedule of animals :

Sl. No.	Species	Feed item	Quantity		Day of fasting
			Winter	Summer	
1	Spotted Deer for 20 Nos.	1. Gram	4 kg	same	
		2. Wheat grain	12 kg	same	
		3. Crushed dal	4 kg	same	
		4. Vegetables	Cauliflower, Cabbages, Carrot - 30 Kg.	Pumpkin, Cucumber, Watermelon - 30 Kg.	
		5. Other vegetables			
		6. Potato	4 Kg	same	
		7. Molasses	1Kg	same	
		8. Oil cake	800gm.	same	
		9. salt	1 Kg.	same	
2	Sloth Bear	1. wheat flour	500 gm.	Same +Mango 1 Kg.	
		2. Soaked gram	250 gm.	Same + Watermelon 1Kg.	
		3. Rice or dalia	1 Kg.	same	
		4. Milk	1 Ltr	same	
		5. Honey	200gm.		
		6. Banana	12pc.	same	
		7. Other fruits	Apple - 1 Kg.	same	
3	Crocodile	1.Chicken/ beaf	2kg/day	2 Kg / day.	Thursday
4	Rhesus Monkey - 4 Nos.	1. Banana	25 nos.	same	
	Bonnet Monkey - 1 No.	2. Cucumber	2.500Kg	same	
		3. Soaked grain	1Kg.	same	
5	Golden pheasant-1 No. Silver pheasant - 1 No.	1. Vegetable	150gm.	Same +Watermelon 400gm	
		2. Banana	400gm	same	
		3. Cucumber	400gm	same	

		4. Carrot	400gm	same	
		5. Bedana	400gm	same	
		6. Wheat	200gm.	same	
		7. Maize	400gm	same	
6	Emu -02 Nos.	1. Poultry feed	2Kg.	same	
		2. Vegetable	1Kg.	same	
		3. Bhusi	500gm	same	
		4. Crodicom	2Kg.	same	
		5. Banana	10pcs.	same	
		6. Carrot	1Kg.	same	
7	Baaz - 5 Nos.	1.Fish	1.500Kg.	1.500Kg.	
8	Peafowl - 4 nos.	1.Gram	1Kg.	1Kg.	
		2. Paddy	500 gm	500 gm	
9	Indian Parakeet 4nos.	1.Vegetables	1.500 Kg	1.500 Kg	
10	Tortoise Box - 8 nos.	1.Vegetables	2Kg.	2Kg.	
	Star tortoise - 16 nos.	1. Soaked gram	1Kg	1Kg	

13. De- worming Schedule of animals:

Sl No	Species	Drug used	Month
1	Bear	Febtus Plus 150 ml x 3	30.03.2018
2	Spotted Dear	Albendazadol 60 ml.	28.03.2018
3	Monkey.	Albendazadol 15 ml.	28.03.2018
4	Baz	Albendazadol 5 ml.	28.03.2018
5	Pefowl	Albendazadol 6 ml.	28.06.2018

14. Vaccination sehedule of animals

Sl No	Species	Disease vaccinated for	Name of the vaccine and dosage/quantity used	periodicity	Remarks
1	Peafowl	R.D	F1	08.11.2017	Every 6 Months interval
2	Baaz	R.D	F1	08.11.2017	
3	Indian parakeet	R.D	F1	08.11.2017	

15. Disinfection schedule

Sl. No	Species	Type of enclosure	Disinfectant used and method	Frequency of disinfection
1	Sloth Bear		Lime & Bleaching	Once in a week
2	Spotted Deer		Pottassium permanganet	Once in a week
3	Monkey		Formaline 10% spray	3 months interval
4	All Birds			
5				

16. Health Check -up of employees for zoonotic diseases:

Sl. No	Name	Designation	Date of health check up	Findings of health check up.

17. Development Works carried out in the zoo during the year- **Completed in all**

1. Entrance Gate with Ticket Counter -1





2. Boundary (perimeter) wall – 500 meter



3. Pheasantry – 1



4. Barking deer enclosure – 1



5. Spotted deer enclosure – 1



6. Sambar enclosure – 1



Civil construction completed

1. Leopard enclosure with night shelter – 1



2. Sloth bear enclosure with night shelter – 1



3. Veterinary treatment room



4. Kitchen cum store room – 1



5. NIC building renovation



Work order given

1. Boundary wall – 365 meter
2. Boundary wall – 235 meter

18. Education and Awareness programmes during the year-

19. Important Events and happenings – A sit & draw competition of school children (class V to VIII) was organised at Bardhaman Zoological Park on 28.12.2017 to celebrate Wildlife Day, 2017.

20. Seasonal special arrangements for upkeep of animals –

1. Special water arrangement during summer.
2. Arrangement of shade over the enclosures to avoid direct sunlight during hot summer.

21. Research Work carried out and publications – Nil

22. Conservation Breeding Programme of the Zoo – Not taken up

23. Animal acquisition / transfer / exchange during the year

A. Animals arriving in the Zoo					
H.NO.	Species	Number (M:F)	From which Zoo	Date of arrival in the zoo	
1	Pea-fowl	1:1	Alipore Zoological Garden, Kolkata	15.03.2018	
2	Emu	2:0	Junglemahal Zoological Park, Jhargram	12.03.2018	
3	Chinese Silver Pheasant	1:1	Padmaja Naidu Himalayan Zoo, Darjeeling	15.03.2018	
4	Golden Pheasant	1:1	-do-	15.03.2018	
B. Animals going from the zoo					
H.NO.	Species	Number (M:F)	Going to which Zoo	Date of deposition from the zoo	
1	Spotted Deer	59:95	Buxa Tiger Reserve	16.02.2018 17.02.2018 & 18.02.2018	

24. 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	05.07.2017	Male Langur(3:0:0:3)	Purbasthali, Karwa	-do-	In nature after recuperation from injury	N.A.
2	22.11.2017	Rhesus Monkey (1:0:0:1)	Panagarh	-do-	-do-	N.A.

25. Annual Inventory of animals

Form – II

[See Rule 11(1)]

Part – A

Inventory Report for the Year :2017-18

Endangered Species* -

Revised Annual Inventory Report of Ramnabagan Zoo, Burdwan for the year 2017-18

Endangered Species

Sl. No.	Animal Name	Scientific name	Opening Stock as on 01.04.2017				Births			Acquisitions			Disposals			Deaths			Closing stock as on 31st March/2018			
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
Bird																						
1	Bazas	Aviceda jeordone & Aviceda leuphotes	0	0	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
2	Pea Fowl	Pavo cristatus Linnaeus, 1758	0	4	0	0	0	0	1	1	0	0	0	0	0	1	0	1	4	0	5	
Total Birds			0	4	5	5	0	0	1	1	0	0	0	0	0	1	0	1	4	5	10	
Mammal																						
1	Sloth Bear	Melursus ursinus (Shaw. 1791)	1	1	0	2	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	
2	Macaque Rhesus	Macaca mullata (Zimmermann, 1780)	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4	
3	Macaque Bonnet	Macaca radiata (E.Geoffroy, 1812)	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
4	Chowsinga/ Four-horned Antelope	Tetracerus quadricornis (Deblainville, 1816)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total mammals			3	3	0	6	0	0	0	0	0	0	0	0	1	0	0	0	4	2	6	
Reptile																						
1	Crocodile Coast/Crocodile Salt Water	Crocodilus porosus Schneider, 1801	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
Total Reptile			1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	

Ex-officio Director, Bardhaman Zoological Park &
Divisional Forest Officer, Burdwan Division.

PART – B

Other Species

Revised Annual Inventory Report of Ramnabagan Zoo, Burdwan for the year 2017-18 upto 31st March, 2018

Sl. No.	Animal Name	Scientific name	Opening Stock as on 01.04.2017				Births			Acquisitions			Disposals			Deaths			Closing stock as on 31st March/2018			
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
Birds																						
1	Owl Barn	Tyto alba (Scopoli, 1769)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Parakeet Rose Ring	Psittacula krameri (Scopoli, 1769)	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
3	Pelican Rosy/white	Pelecanus onocrotalus (Linnaeus, 1758)	1	1	0	2	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
4	Stork Adjutant	Leptoptilos javanicus Horsfeild, 1821	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Emu	Dromaius novaehollandiae	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	2
6	Chinese Silver Pheasant	Lophura nycthemera	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	2
7	Golden Pheasant	Chrysolophus pictus	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	2
Total Birds			1	1	4	6	0	0	0	3	3	0	0	0	0	1	1	0	0	3	7	10
Mammals																						
2	Deer spotted/Chital	Axis axis Erxleben 1777 (Ramnabagan)	50	65	0	115	16	47	0	0	0	0	59	95	0	0	3	0	7	14	0	21
		Axis axis Erxleben 1777 (Deul)	21	34	5	60	0	0	3	0	0	0	0	0	0	1	0	0	20	34	8	62
Total mammals			71	99	5	175	16	47	3	0	0	0	59	95	0	1	3	0	27	48	8	83
Reptiles																						
1	Tortoise Indian Star	Geochelone elegans (Schoepf, 1801)	14	2	16	0	0	0	0	0	0	0	0	0	0	0	0	0	14	2	0	16
2	Common Box turtle	Terrapene carolina	3	6	9	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	0	9
Total Reptiles			17	8	25	0	0	0	0	0	0	0	0	0	0	0	0	0	17	8	0	25

Area of the Zoo- 14.31 ha.

Total visitors to the Zoo during the financial year 2017-18 - 1,00,199 Nos.

Ex-officio Director, Bardhaman Zoological Park &
Divisional Forest Officer, Burdwan Division.

26. Mortality of animals -2017-18

Annual Inventory Death Report for the year 2017-18

Sl. No.	Animal name (with individual identification mark, if any)	Scientific name	Sex	Date of death	Cause of death
1	Sloth Bear	<i>Melursus ursinus</i>	M	05.06.2017	Cardio respiratory failure
2	Pea fowl	<i>Pavo cristatus Linnaeus, 1758</i>	F	18.10.2017	Viral cause
3	Rosy Pelican	<i>Pelecanus onocrotalus (Linnaeus, 1758)</i>	M	05.11.2017	Toximea & cardio respiratory failure
4	Rosy Pelican	<i>Pelecanus onocrotalus (Linnaeus, 1758)</i>	F	30.03.2018	Cardio respiratory failure
5	Spotted deer	<i>Axix axis</i>	F	16.02.2018	Cardio respiratory failure
6	Spotted deer (at Deul)	<i>Axix axis</i>	M	18.01.2018	Physical Injury
7	Spotted deer	<i>Axix axis</i>	F	17.02.2018	Cardio respiratory failure
8	Spotted deer	<i>Axix axis</i>	F	25.02.2018	Distress perforation respiratory failure

27. Compliance with conditions stipulated by the Central Zoo Authority

Sr. No	Norm No. Under RZR, 2009	Condition Stipulated	Time Period to Comply	Since when pending	Remarks	
					Status with regard to compliance of the conditions as submitted by the Officer-in-charge of the Zoo	Status with regard to compliance as noted physically by the evaluator during the visit
1.General requirements						
1	10.1 (1)	The Zoo has been breeding among the existing population of spotted deer since 1978. The zoo should implement proper and adequate population control measures.	One year	22.06.2016 and 22.06.2017	154 no. (59 no. male and 95 female) has been translocated to Buxa Tiger Reserve in compliance with Memo No. 379/WL/2W-260 dt. 09.02.2018 of the Conservator of Forests, Wildlife, Headquarters, West Bengal. To implement proper and adequate population control measure, the spotted deer will be exchanged with other zoos in near future	
2	10.1 (5)	The zoo operator failed to construct perimeter wall of minimum two meters height around the zoo. Since the zoo is located within the premises of a Wildlife Sanctuary, providing a masonry wall all round may not be a feasible option. Wherever, the sanctuary boundary and the zoo boundary form the common boundary dividing the human landscape, a masonry wall could be provided for such length to avoid encroachment and trespassing by humans and stray dogs & livestock.	Two years	22.06.2016 and 22.06.2017	Construction of 500 mt. perimeter wall has been completed during 2017-18 Work order for further construction of 600 mt. perimeter wall has already been issued and will be completed in 2018-19. Will be constructed soon.	
3	10.1	The zoo operator failed	Immediately	22.06.2016 and	Work is going on and	

	(6)	to separate residential accommodation from the zoo premises. It should be separated out of the zoo campus by providing a wall with separate entry / exit gates. Common access from zoo should be stopped.		22.06.2017	will be completed soon	
4	10.1(7)	a) Soil should be turned inside the animal enclosures on regular basis and enclosures disinfected to reduce soil borne parasites and diseases.	With immediate effect	22.06.2016	Will be done on regular basis.	
2.Administrative & staffing pattern						
5	10.2 (1)	The zoo operator failed to appoint a whole-time in-charge of the zoo with adequate financial & administrative powers.	Six months	22.06.2017	Walk-in interview has been arranged on 30.07.2018 for engagement of Zoo Supervisor and Asstt. Zoo Supervisor from the retired Forest Ranger & retired Deputy Ranger/Forester vide this office Notice No. 2859(5)/-24 dt. 09.07.2018.	
6	10.2 (2)	The zoo operator failed to appoint full-time Biologist and Curator to support the Officer In-charge, in carrying out the responsibilities of Housing, Upkeep and Healthcare of zoo animals, Research and Visitor education	One year	22.06.2017	Development work of the Zoo is going on. On arriving of new animals after completion of all the enclosures as per approved master lay-out plan, full time Zoo Biologist & Curator will be appointed as per approval of higher authority. At present ADFO/Burdwan Division has been appointed Curator as a local arrangement in addition to his own assignment.	
7	10.2 (2)	A full time veterinarian should be appointed for day to day health management of animals in the zoo.	One year	22.06.2016	A retired V.O. has been hired on contractual basis and he attends the regular health management of the zoo animals. Zoo-empennelled Vety.Polyclinic, Bardhaman under Animal Husbandry and	

					Veterinary Services Deptt., Govt. of West Bengal is also consulted as and when required.	
3.Development and planning						
8	10.3 (1 a)	Modification and corrections of Master Plan to be done as per directives of CZA and get it approved.	With immediate effect	31.12.2012/01.01.2013	This is being done and will be submitted soon.	
9	10.3 (1 &2)	All future development of the zoo should be done after approval of the Master Plan by the Central Zoo Authority.	Immediately	22.06.2016 and 22.06.2017	All the development works are done as per approved lay out plan by the CZA	
10	10.3 (4)	The zoo houses Sloth bear, Rhesus macaque, Four horned antelope, Pelicans, Pea-fowls, Porcupines & Pariah kites in captivity in enclosures not appropriate to the species. Appropriately designed enclosures for all above animals should be constructed at area as earmarked after approval of Master Plan and drawings by the Central Zoo Authority.	Two years	22.06.2016 and 22.06.2017	The enclosure for the Sloth Bear, Rhesus Monkey, Common Langur, Leopard and Birds' Aviary have been constructed during 2017-18 as per approved lay-out plan. Rhesus macaques and Bonnet macaque have already been shifted to newly constructed enclosure. The four-horned antelope has been translocated to Alipore Zoological Garden on 09.03.2017 in compliance with the WBZA's No. 390/WBZA/T-7/15-16 dt. 07.09.2016. Pea-fowls have been shifted to newly constructed pheasantry. One pelican died on 05.11.2017 and one on 30.03.2018. The Porcupine is a rescued one and kept in the old sloth bear enclosure. Baazes are kept in one corner of the old aviary.	
11	10.3 (4)	The Zoo should have isolation facility during quarantine period.	Within one year	31.12.2012/01.01.2013	Will be undertaken soon	
12	10.3 (5)	All facilities for captive animals including <i>pucca</i> buildings like Feeding and Night shelters should be created with proper drainage in such a way that they do not compromise the natural landscape and without affecting the overall	Two years	22.06.2016 and 22.06.2017	Re-digging of the existing canal has been done and drainage system has been improved. Feeding cubicle and night shelter of the Sloth Bear enclosure and Leopard enclosure have been completed without	

		cleanliness and hygiene of the campus			compromising the natural landscape and affecting the overall cleanliness and hygiene of the campus.	
13	10.3 (5 c)	Record of acquisition of animals etc. to be properly maintained with the following information mentioning identification of the species, date of arrival at the zoo, date of rescue, by whom rescued, from whom received, source of wild origin, sex, age at the time of arrival, health status at the time of arrival, date of release etc.	With immediate effect	31.12.2012/01.01.2013	Being maintained	
14	10.3 (6)	The future collection plan of animals to be displayed in the zoo should be prepared and got approved from CZA. Carrying capacity of animal enclosures should be fixed.	Immediately	22.06.2016 and 22.06.2017	Future collection plan will be implemented as per approved revised master lay-out plan and approval of higher authority. Carrying capacity is maintained as per draft master plan. Revised final Master Plan will be submitted soon.	
15	10.3 (7)	Without creation of Isolation cum Quarantine enclosure, the zoo should not accept rescued animals.	Immediately	22.06.2016 and 22.06.2017	As per suggestion, isolation cum quarantine enclosure has been proposed to be constructed to accept rescued animals. Till the construction of rescue centre is over, rescued animals are being/shall be released for rehabilitation in their natural habitat soon after their recuperation from sickness/injury.	
4. Animal housing, display of animals and animal enclosures						
16	10.4 (1,2 &5)	The zoo operator should ensure that animals at the zoo are housed in enclosures meeting minimum standards and specifications of the Central Zoo Authority.	Two years	22.06.2017	It can be ensured that the animals at the Zoo are to be housed in enclosures meeting minimum standards and specification of the Central Zoo Authority as the new enclosures are being constructed as per approved Master Lay-out Plan.	

17	10.4 (1 & 5)	Bonnet & rhesus macaque, sloth bear, four horned antelope, horned owl, barn owl, kites & eagles, pelicans are kept in substandard enclosures. The zoo should construct enclosures as per the CZA prescribed norms and master plan.	Two years	22.06.2016	Sloth bear and rhesus macaque enclosure has been completed as per CZA prescription and approval of higher authority complying with the approved master lay-out plan. Bonnet & Rhesus macaque have already been shifted to the newly constructed enclosure. At present no owls are there in the Zoo. One owl died on 05.12.2016 and another on 08.12.2016. The matter has already been made known to the WB Zoo Authority vide this office No. 45-47/W-7 dt. 04.01.2017. Report regarding baazes and pelicans have been furnished hereinabove at sl. No. 10; Norm No. 10.3(4).	
18	10.4 (2)	The design and dimensions of proposed enclosures to be constructed for sloth bear, langur and rhesus macaque should be of the size prescribed by CZA. Similarly, the height of chainlink fence barriers for all deer enclosure should be increased to 3 metres in height.	One year	31.12.2012/01.01.2013 and 22.06.2016	Construction of sloth bear enclosure, langur and rhesus macaque enclosures have been completed as per approved design, dimension and size. Chain link fence barriers for the deer enclosures have also been increased to 3 meters as suggested.	
19	10.4 (2)	The Zoo should shift the Hornbill from existing cage to appropriate enclosure (Aviary) as soon as possible.	With immediate effect	31.12.2012/01.01.2013	This animal was a rescued one and died sometime in May, 2013. No record regarding this was maintained at that time.	
20	10.4 (2 a) & (3 a)	The common leopard enclosure where one adult male sloth bear is housed is not safe and secure and may lead to accidental escape any time and the captive	With immediate effect	31.12.2012/01.01.2013	The adult male sloth bear will be shifted to the newly constructed enclosure soon as the construction of sloth bear enclosure is completed.	

		may enter to human habitat. The Zoo should renovate the enclosure immediately keeping in mind about safety and security of the captive, animal handler, visitors and public residing in and around the zoo till permanent enclosure for sloth bear is constructed approved by CZA.				
21	10.4(6)	There exists opportunity to create near naturalistic habitat in proposed Chital, sambar and barking deer enclosures. Trees could be thinned to make way for small grassy patch and water bodies.	Two years	22.06.2016	The suggestions will be complied with soon	
22	10.4 (9)	Standoff barriers should be provided all along the new proposed enclosures & visitors' pathway to prevent teasing and feeding of animals. Appropriate signage warning the visitors of consequences of violation may also be provided at various places	One year	22.06.2016 and 22.06.2017	Stand-off barriers to the newly constructed sloth bear enclosure, leopard enclosure, langur enclosure, rhesus macaque enclosure and the already constructed spotted deer, barking deer and sambar enclosure has been/are being provided.	
23	10.4 (10)	All animal enclosures should be provided with signage, having relevant information on the biology, behaviour and population status of the species in the wild.	One year	22.06.2016 and 22.06.2017	Construction work is going on and will be completed soon	
5.Upkeep and healthcare of animals						
24	10.5(2)	i)A feeding store cum kitchen should be constructed as per approved Master Layout Plan.. Exhaust fans should be installed to reduce moisture inside the feed store. Suitably designed platforms should be provided in the feeding store for stocking dry	One year	22.06.2017 22.06.2016 and 22.06.2017	Construction of a feeding store cum kitchen is going on. Exhaust fan will be installed in the kitchen cum store room to reduce moisture inside the feed store. Work is going on and will be completed soon.	

		ration				
25		ii) A fly proof meat room away from the feed store & kitchen should also be constructed with adequate drainage facility.		22.06.2017	Construction is going on and will be completed soon.	
26	10.5 (2)	Suitably designed platforms should be provided in the feeding store for stocking dry ration. Stainless Steel drums could be used for storage of choker, gram etc. Exhaust fans should be installed to reduce moisture inside the feed store.	One year	22.06.2016	Construction is going on and will be completed soon.	
27	10.5 (4)	Kraals of dimensions prescribed by the Central Zoo Authority should be created in enclosures for Chital, Sambar and Barking deer.	One year	22.06.2016 and 22.06.2017	Kraals have already been created in enclosures for Chital, Sambar and Barking deer as per dimension prescribed by the CZA	
28	10.5 (5)	Leftover food should be removed from the enclosures on daily basis. Dung should also be removed from the enclosures periodically and in consultation with veterinary doctor.	Immediately	22.06.2016	Being maintained properly as per suggestion	
29	10.5(8)	Herd animals should be screened periodically through random sampling for parasitic loads and prophylactic measures taken under guidance of the veterinary doctor. A written schedule should be prepared and implemented.	Immediately	22.06.2016	Being done by the V.O.	
30	10.5(9)	All zoo staff involved in upkeep & healthcare of animals should be subjected to annual health checkup to avoid spread of Zoonotic diseases.	Immediately	22.06.2016	Will be undertaken soon	

31	10.5(10)	Daily reporting by the animal keepers should be introduced through Keepers Diaries and Daily Reports as per the CZA prescribed format.	Immediately	22.06.2016	Being maintained	
6. Veterinary & Infrastructure facilities						
32	10.6 (1)	The zoo operator failed to construct a Veterinary Unit / Hospital appropriate to animals housed. A kraal for recuperating of animals, In-patient ward, Reference library, a laboratory, a dispensary for storing lifesaving drugs and other veterinary equipment should also be considered in the Veterinary unit.	Two years	22.06.2016 and 22.06.2017	A veterinary unit in the Zoo premises has already been completed as per approval of higher authority. Further development of this unit will be undertaken as per approval of the higher authority.	
33	10.6 (1 b)	The Zoo should keep tranquilizing drugs and equipments with due consultations with nearby experienced Zoo dealing with to meet up any emergencies.	Within six months	31.12.2012/01.01.2013	Being maintained	
34	10.6(6)	The zoo should enter into a written MoU with the District Animal Husbandry Department & Research laboratory for:	Immediately	22.06.2016	V.O., Vety. Polyclinic, Bardhaman under West Bengal Animal Husbandry and Veterinary Services has been entrusted for rendering Animal Health Care Services as and when required basis to Bardhaman Zoological Park in a order issued by Director of Animal Husbandry and Veterinary Services, West Bengal forwarded to this office vide No. 3126(15)/5M-85/2005(Pt-2) dt. 02.06.2017 and their services are being taken as and when required.	
7. Post-mortem and disposal of carcasses of animals						
35	10. 7(1 &2)	Every animal that dies in the zoo should be subjected to detailed postmortem by a registered veterinarian.	Immediately	22.06.2016	Being done accordingly	

		The findings should be recorded in the CZA prescribed format and maintained at the zoo premises and open for inspection.				
36	10.7 (4)	An incinerator should be installed for safe disposal of animal carcasses and other bio wastes including shed antlers etc.	Immediately	22.06.2016 and 22.06.2017	and	Will be undertaken as per revised approved master lay-out plan on approval from higher authority.
9.Acquisition and breeding of animals						
37	10.9 (1&2)	The Zoo has been breeding among the existing population of herbivores. There has not been any effort to infuse new bloodline. The population of animals should be restricted to the carrying capacity and proper and adequate population control measures should be implemented.	One year	22.06.2016 and 22.06.2017		Will be complied as per instruction received from higher authority. Efforts will be made for selective swap of female animals amongst deer population of other nearby zoos.
38	10.9 (1&2)	Inbreeding may have taken place in the population over the years. Efforts should be made for selective swap of female animals amongst deer population of other nearby zoos like Bonpukuria Deer Park in Bankura or Jhargram Zoo.	One year	22.06.2016		154 nos. of spotted deer (59:95) have been translocated to Buxa Tiger Reserve during February, 2018. Now there is on 20 no. (7:13) of spotted deer in this Zoo. Efforts will be made for selective swap of female animals amongst deer population of other nearby zoos as suggested.
39	10.9 (3)	The zoo operator failed to release rescued animals in the wild. The zoo should refrain from acquiring single sexed animals in from of rescued animals for display. Rather the rescued animals should be rehabilitated in their natural habitat soon after their recuperation from sickness/ injury.	Immediately	22.06.2017		As per suggestion, isolation cum quarantine enclosure has been proposed to be constructed to accept rescued animals. Rescued animals are being released in natural habitat after recuperation from injury/sickness.

40	10.9 (4)	The zoo operator failed to pair single animals. Animals namely Bonnet macaque, Salt water crocodile, Four horned antelope & Peafowl should be paired, failing which they should be sent to other recognized zoo with prior approval of the Central Zoo Authority.	Immediately	22.06.2016 and 22.06.2017	Attempt is being made to acquire pair for single sexed bonnet macaque and salt water crocodile as per suggestion.	
41	10.9 (7)	The zoo should initiate programs for restocking of Protected Areas of the State with their surplus Deer population by entering into an agreement with them and provide founder animals for breeding in soft release areas created specifically in the buffer zones of PA's. This will help in augmenting the ever decreasing prey base for carnivores in PA's of South West Bengal.	Two years	22.06.2016 and 22.06.2017	The proposal for restocking of PAs of the State with the surplus deer population of the Zoo in augmenting the ever decreasing prey base for carnivores in PA's has been implemented in February, 2018. Total 154 no. of spotted deer have been translocated to Buxa Tiger reserve in February, 2018 in compliance with the order of higher authority.	
10. Research activities						
42	10.10	The zoo authorities should enter into an agreement with Bardhaman University and local colleges for allowing graduate/postgraduate students to carry out their dissertation on various aspects of Animal Biology. The findings can help the zoo in better and scientific management of captive animals.	Immediately	22.06.2016 and 22.06.2017	For better and scientific management of captive animals in the zoo, negotiation has already been taken up with the University of Burdwan and also with local colleges for allowing graduate/post graduate students to carry out their dissertation on various aspects of animal biology.	
11. Education and outreach activities						
43	10.11 (1)	The zoo should develop a year-long educational calendar and initiate activities for educating the visitors on the significance of Wildlife / Biodiversity conservation and Ecosystem services	Immediately	22.06.2016 and 22.06.2017	The zoo has already developed a yearlong educational calendar and initiated activities for educating the visitors on the significance of wildlife/bio-diversity conservation & ecosystem services	

		provided by the Animal Kingdom.			provided by the animal kingdom. It will continue.	
12.Visitors' facilities						
44	10.12 (1)	More number of civic facilities like toilets, drinking water points and their access to physically challenged personnel should be provided in the proposed Master Plan	Immediately	22.06.2016 and 22.06.2017	The zoo has already proposed more number of civic facilities like toilets, drinking water points and their access to physically challenged persons in the revised master lay-out plan. This will be completed by the end of 2018 provided approval of the revised master lay-out plan and work approval from the higher authority.	
45	10.12 (1)	Anti venom and life saving drugs should be stored in the zoo campus	Immediately	22.06.2016	Being complied with.	
46	10.12 (3)	The newly proposed pathways are not friendly to visitors on wheel chairs. They should be made accessible to visitors on wheel chairs.	One year	22.06.2016 and 22.06.2017	As per suggestion, the newly proposed pathways are to be paved with paver blocks for easy accessible to visitors as well as visitors on wheel chairs in all weather conditions in certain areas by 2019.	
Other Observations						
47		Zoo authorities without awaiting for approval of Master Plan by CZA have started development activities like construction of pheasant enclosure and tendering for rhesus and langur enclosures. No work should be taken up without approval of the master plan. The ongoing construction work without approval of the master plan be stopped forthwith.	Immediately	22.06.2016	Such works have been undertaken and completed by this time as per master lay-out plan duly approved by the CZA and working approval and guidelines by the WBZA. All these works have been undertaken maintaining the CZA norms and approved specification.	
48		The zoo should provide the CZA a list of rescued animals for the last 10 years and the status of those animals.	Immediately	22.06.2016		
49		The zoo should provide the CZA a list of all animals kept in the zoo	Immediately	22.06.2016	Copy of inventory enclosed	

		and its source of acquisition.				
50		The zoo has total population of 60+ chital and there is a visible space constraint. Population control measures should be put in place rather than creating more and more enclosures for them.	Immediately	22.06.2016	154 nos. of spotted deer (59:95) have been translocated to Buxa Tiger Reserve during February, 2018 as per approval of higher authority. Now there is only 20 no. (7:13) of spotted deer in this Zoo permissible number as per concept plan of CZA.	

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

- a. Mammals
- b. Birds
- c. Reptiles

Free living animal species occurring in the Bardhaman Zoological Park, Ramnabagan campus, Bardhaman

Sl. no.	Local name	English name	Scientific name
A	Mammals		
1	Beji, Neul	Common mongoose	<i>Herpestes edwardsi</i> Geoffroy
2	Beji, Neul	Small Indian mongoose	<i>Herpestes auropunctatus</i> Hodgson
3	Chamchika	Indian pipistrelle	<i>Pipistrellus coromandra</i> Gray
4	Kathbirali	Three striped squirrel	<i>Funambulus palmarum</i> Linnaeus
5	Indur	Indian mole rat	<i>Bandicota bengalensis</i> Gray & Hardwicke
6	Indur	Common house rat	<i>Rattus rattus</i> Linnaeus

B	Reptilia		
1	Girgiti	Common garden lizard	<i>Calotes versicolor</i> Daudin
2	Tiktiki	Northern house gecko	<i>Hemidactylus flaviviridis</i> Ruppel
3	Halde Gosap	Yellow monitor	<i>Varanus flavescens</i> Gray
4	Dhaman	Common rat snake	<i>Ptyas mucosus</i> Linn.
5	Jal dhonra	Checkered keelback	<i>Xenochrophis piscator</i> Schneider
6	Helesap	Buffstriped keelback	<i>Amphiesma stolata</i> Linn.
7	Chiti	Common Indian krait	<i>Bungarus caeruleus</i> Schneider
8	Gokhura	Indian cobra	<i>Naja naja</i> Linn.
C	Birds		
1	Korche bok	Smaller egret	<i>Egretta intermedia</i> Waglor
3	Gobok	Cattle egret	<i>Bubulcus ibis</i> Linnaeus
5	Dahuk	White breasted waterhen	<i>Amaurornis phoenicurus</i> Pennant
7	Paira	Blue rock pigeon	<i>Columba livia</i> Gmelin
8	Tile ghughu	Spotted dove	<i>Streptopelia chinensis</i> Scopoli
9	Kanthi ghughu	Indian ring dove	<i>Streptopelia decaocto</i> Frivaldszky
10	Bulbul	Red vented bulbul	<i>Pycnonotus cafer</i> Linnaeus
11	Sipai bulbul	Red whiskered bulbul	<i>Pycnonotus jocosus</i> Linnaeus
12	Halde bulbul	Black headed yellow bulbul	<i>Pycnonotus malanicterus</i> Gmelin
13	Chhatare	Jungle babbler	<i>Turdoides striatus</i> Dumont
14	Bochka	Night heron	<i>Nycticorax nycticorax</i> Linnaeus
15	Doyel	Magpie robin	<i>Copsychus saularis</i> Linnaeus

16	Shyama	Shyama	<i>Copsychus malabaricus</i> Scopoli
17	Kali shyama	Indian robin	<i>Saxicoloides fulicata</i> Linnaeus
18	Halde khanjan	Yellow wagtail	<i>Motacilla flava</i> Linnaeus
19	Fulchusi	Thickbilled flowerpecker	<i>Dicaeum agile</i> Tickell
20	Durga tuntuni	Purple sunbird	<i>Nectarinia asiatica</i> Latham
21	Charai	House sparrow	<i>Passer domesticus</i> Linnaeus
22	Lal munia	Red munia	<i>Estrilda amandava</i> Linnaeus
23	Danrkak	Juggle crow	<i>Corvus macrorhynchos</i> Wagler
24	Kak	House crow	<i>Corvus splendens</i> , Vicillot
25	Hanrichancha	Tree pie	<i>Dendrocitta vagabunda</i> Latham
26	Fingey	Black drongo	<i>Dicrurus adsimilis</i> Bechstein
27	Lal shalik	Common myna	<i>Acridotheres tristis</i> Linnaeus
28	Guye Shalik	Pied myna	<i>Sturnus contra</i> Linnaeus
29	Kokil	Koyel	<i>Eudynamys scolopacea</i> Linnaeus
30	Kubo	Crow pheasant	<i>Centropus sinensis</i> Stephens
31	Tia	Rose ringed parakeet	<i>Psittacula krameri</i> Scopoli
32	Tia	Blossom headed parakeet	<i>Psittacula cyanocephala</i> Linnaeus
33	Banspati	Green bee eater	<i>Merops orientalis</i> Latham
34	Macchranga	White breasted kingfisher	<i>Halcyon smyrensis</i> Linnaeus
35	Chhota macchranga	Common blue kingfisher	<i>Alcedo atthis</i> Linnaeus
36	Laxmi pencha	Burn owl	<i>Tyto alba</i> Scopoli
37	Benebou	Black headed oriole	<i>Oriolus xanthornus</i> Linnaeus
38	Sonabou	Golden oriole	<i>Oriolus oriolus</i> Linnaeus

39	Fatka	Lesser pied kingfisher	<i>Ceryle rudis</i> Linnaeus)
40	Nilkantha Basantabouri	Blue throated barbet	<i>Megalaima asiatica</i> Latham
41	Kaththokra	Lesser golden backed woodpecker	<i>Dinopium benghalense</i> Linnaeus
42	Tuntuni	Tailor bird	<i>Orthotomus sutorius</i> Pennant
D	Amphibia		
1	Kuno bang	Toad	<i>Bufo melanostictus</i> Schneider
2	Sona bang	Frog	<i>Rana tigerina</i> Daudin

Ex-officio Director
Bardhaman Zoological Park &
Divisional Forest Officer, Burdwan Division.