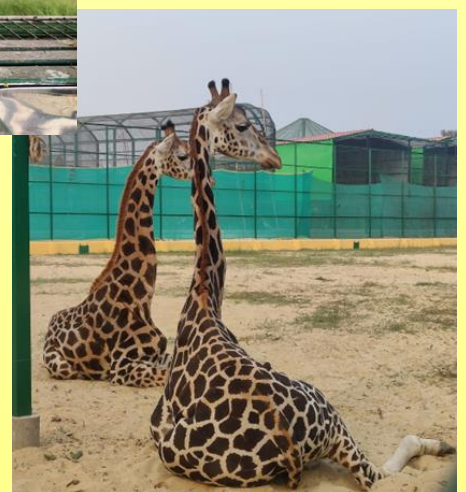


HARINALAYA MINI ZOO

NEWTOWN, KOLKATA



Annual Report

2022-23

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HARINALAYA MINI ZOO

Annual Report for the year of 2022-23

1. Report of the Officer –in-charge

The annual report of Harinalaya Mini Zoo for the year 2022-23 denotes its sustainable development. This zoo is developed with the aim to provide natural habitats to all the zoo housed species that supports their well-being as well as successful breeding.

From 2017 onwards the zoo has been housing Different Mammals such as Spotted Deer; Barking Deer, Reptiles like Marsh Crocodile and Saltwater Crocodile and different Water Birds and Flying birds. On 9th February, 2023 'HARINALAYA' was officially inaugurated as a mini zoo, with a variety of Indian and Exotic Species.

Along with the previously housed animals, the zoo has now become a home for different Mammals including Nubian Giraffe; Grant's Zebra and Hippopotamus, Exotic monkeys such as, Capuchin Monkey; White lipped Tamarin, Golden headed Lion Tamarin and Common Marmoset and a Nocturnal Marsupial known as Sugar Glider. Zoo inhabiting birds include three species of Macaw (Blue & Yellow Macaw, Scarlet Macaw, Red and Green Macaw), four species of Cockatoo (Umbrella Cockatoo, Greater and Lesser Sulphur Crested Cockatoo, and Red tailed Black Cockatoo), Grey Parrot, Amazon Parrot, Eclectus Parrot, Lory, Golden Pheasant etc. The Mini Zoo is having a water bird aviary which house different species like Mute Swan, Black Swan, White Chinese Goose, Barnacle Goose, Magpie Goose, Abdim's Stork, Paradise Shelduck, Harlequin Duck, Orinoco Goose etc.

The Zoo envisions to become a Centre of Ex-Situ conservation of different globally as well as regionally threatened fauna and flora, including different endemic species, so that they can be released in nature to maintain a viable population. Research on ethology, conservation management, development of different strategies regarding conservation, Different awareness programs has been already started. The utmost priority of this zoo is welfare of the zoo inhabitants by providing them a near-natural habitat, enrichment, proper diet & nutrition and medication. Harinalaya the new public attraction aims to connect the visitors to the captive animals, to make them understand the purpose of zoo.

The purpose of the annual report is to provide information about different aspects of zoo management as well as developmental activities. As we have planned to build conservation breeding centre of several species such as Painted Stork, Lesser Adjutant Stork, Black headed ibis and Yellow Monitor Lizard, I am optimistic about increase of the zoo bred as well as wild population. I am hopeful about this zoo to be one of the best zoos in our country.

I extend my sincere thanks to Sri Hari Krishna Dwivedi, IAS, Chief Secretary, Government of West Bengal and Chairman, West Bengal Zoo Authority and to Sri Vivek Kumar, IAS, Addl. Chief Secretary, Department of Forests and Vice-Chairman, West Bengal Zoo Authority for their guidance.

I express my gratitude to Sri Debal Ray, IFS, Principal Chief Conservator of Forests (WL) & Chief Wildlife Warden, West Bengal and Sri Saurabh Chaudhuri, IFS, Additional Principal Chief Conservator of Forests & Member Secretary, West Bengal Zoo Authority, for their valuable suggestions and guidance and immense support.

I also thank all the officers and Staffs of the zoo for successfully managing this zoo in the best possible manner.

2. History of the zoo

Harinalaya is located in the Newtown-Kolkata Metropolis in West Bengal. It is an upcoming tourist destination in the city. Harinalaya was previously

categorised as Deer Park; situated over an area of 12.5 acre adjacent to Eco Park, Kolkata with 50 numbers of Spotted Deer (17:3:2::50). These Spotted Deer were rescued from Taratala Nature Park and released in Harinalaya on 10.02.2016 and 22.02.2016. later on, 19.02.2016, 06 numbers of Barking Deer (3:3:0:6) were released in Harinalaya.

The Harinalaya mini zoo was established on 1st August 2017 and managed by Deputy Conservator of Forests, Urban Recreation Forestry Division with Head Quater at Eden Garden, Kolkata-700021 & came under West Bengal Zoo Authority (WBZA) from 21.04.2017.

The Harinalaya Deer Park was upgraded to Mini Zoo and revised master layout plan has been sent for further approval.

3. Vision

This Zoo envisions creating a mechanism for enhancing expertise on excellent upkeep and ex-situ conservation of the globally and also regionally threatened fauna and flora and community sensitization on ex-situ conservation. The zoo will be a place to study the animal behaviour, conservation management and develop species specific conservation and management strategies. The zoo will work for conservation breeding of endemic species and maintain insurance population as an institution for species recovery of endemic species.

4. Mission

Implement the best practices on conservation, conservation breeding, education, research and visitor experiences by connecting people to biodiversity conservation, and to serve as a conservation breeding and nature conservation centre for endemic, and endangered faunal and floral species and to convey the message of conservation education through demonstrative, replicable and

learning experiences without compromising the expected standards of display of wild fauna and flora under the existing policies and rules.

Our vision is to connect visitors and wild captive animals through exemplary animal welfare and care, best educational and inspirational experiences, fostering public appreciation and support for wild animals and conservation to achieve goals of nature conservation and wildlife as a whole.

5. Objective

A. Conservation Breeding:

To breed and rear the endangered species of the fauna of India and the world with the object of saving them from extinction by restocking other Zoos and eventually to enrich the depleted fauna in wild.

B. Conservation Education:

To support conservation education, capacity building, awareness and community attitude development towards conservation.

C. Animal Housing:

To ensure housing of captive animals and birds with special emphasis on health care, ethical standards, animal welfare and excellent animal husbandry.

D. Awareness:

To serve the cause of Wildlife conservation by arousing interest and concern for wildlife by organizing exhibitions and seminars among public.

E. Conservation Research:

To facilitate research and scientific study on animal behaviour, behavioural and environmental enrichment, nutrition and reproductive biology.

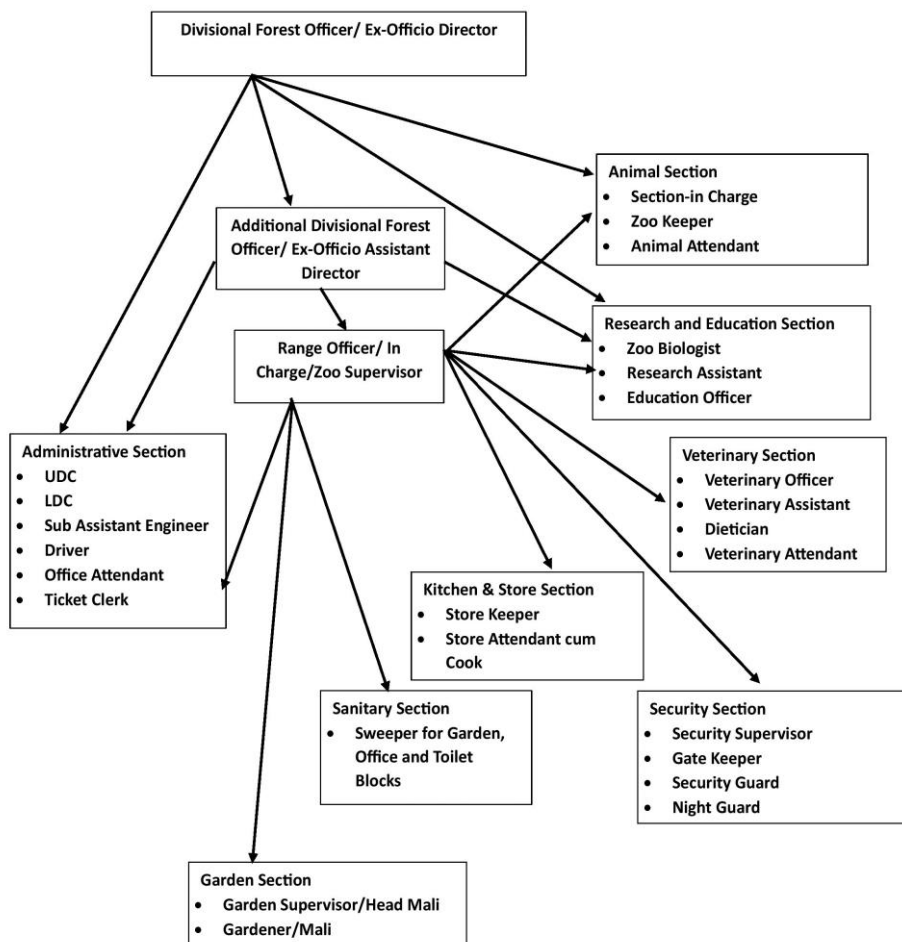
6. About us

Sl.No.	Particulars	Information
Basic Information about the Zoo		
1	Name of the Zoo	Harinalaya at Eco Park (Nature Park At Taratola Road)
2	Year of Establishment	2017
3	Address of the Zoo	Harinalaya (Deer Park), Rajarhat, Newtown, kolkata-700157
4	State	West Bengal
5	Telephone Number	7003598072
6	Fax Number	
7	E-mail address	dcfurfkolkata@gmail.com
8	Website	Harinalayazoo.com
9	Distance from nearest	Airport: 6 km
		Railway Station: 7.3 km
		Bus Stand: 1 km
10	Recognition Valid upto (Date)	25-05-2025
11	Category of zoo	Mini Zoo
12	Area (in Hectares)	5.058 hectare
13	Number of Visitors (2022-2023)	Adult: 68104
		Children: 6355
		Total Visitors: 74459
14	Visitor's Facilities Available in Zoo	<ul style="list-style-type: none"> • Public facilities like toilets • Sufficient number of drinking water taps • Visitor information centre • Zoo education facilities • Kiosks and restaurant • Emergency telephone facility • First Aid • Wheelchair and ramps <p>Other Facilities</p> <p>Visitor Rest Shed, Child Care Room</p>
15	Weekly Closure Day of the Zoo	Thursday
Management Personnel of the zoo		
16	Name of the Officer	Ramprasad Badana
Owner / Operator of the Zoo		
17	Name of the Operator	Ramprasad Badana
18	Address of the Operator	10, A Auckland Road, Eden Gardens, Kolkata-21
19	Contact details/Phone number of Operator	8617717077
20	E-mail address of Operator	dcfurfkolkata@gmail.com

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

- Zoo Operator's 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 Operator.

7. Organizational Chart



8. Human Resources

Manpower of the Zoo				
S.No.	Designation	Employee Name	Email	Contact Number
1	Officer In-charge/ Zoo Director	Sri Ramprasad Badana	dcfurfkolkata@gmail.com	8617717077
2	Curator	-	-	-
3	Ex-Officio Asst. Director	Sri Anindya Guha Thakurta		
4	Unit In-Charge/ Range Officer	Sri Vivek Ojha	Harinalaya2017@gmail.com	9681240757
5	Veterinarian	Dr. Surojit Kundu		
5	Biologist	Ms. Ishita Chongder	Ishita.titir@gmail.com	9874479727
6	Zoo Supervisor	Sri Biplab Kumar Bhowmik	-	-
7	Education Officer	-	-	-
7	Stockman/ Compounder	-	-	-
8	Laboratory Assistant	-	-	-
9	Veterinary Assistant	Tahira Khatun	-	-
10	Zoo Keeper	Debashis Mondal Prosad Barman	-	-
11	Animal Attendant	Shyamal Mahata Krishnendu Sahoo Ashis Sarkar	-	-

9. Capacity Building of zoo personnel

Capacity Building of zoo personnel					
Sl No.	Name	Designation	Subject matter of Training	Period of Training	Name of the Institution where the Training attended
1.	Sri Debasish Mondal	Zoo Keeper	Rescue of Aquatic Species	21.07.2022 to 23.07.2022	Wild life Rescue & Transit Facility Center, Salt Lake, Kolkata
2.		Biologist, Research Assistant, Veterinary Assistant, Zoo Keepers and Animal Attendants	One Day Workshop on Nutrition & Diet and Early Detection of Disease through Visual Symptoms of Cockatoo (<i>Cacatua sp.</i>) and Macaw (<i>Ara sp.</i>).	18.10.2022	Harinalaya Mini Zoo
3.		Biologist, Research Assistant, Veterinary Assistant, Zoo Keepers and Animal Attendants	One Day Workshop on Nutrition & Diet and Early Detection of Disease through Visual Symptoms of Cockatoo (<i>Cacatua sp.</i>), Macaw (<i>Ara sp.</i>), Gray Parrot(<i>Psittacus erithacus</i>), Lory (<i>Lorius sp.</i>)	07.12.2022	Zoological Garden, Alipore, Kolkata
4.		Veterinary Officer, Biologist, Research Assistant, Veterinary Assistant	Approaches to Common Clinical Conditions in Exotic Animals and Pet Birds Practice	22.12.2022	Harinalaya Mini Zoo
5.		Veterinary Officer, Biologist, Research	Fact About Exotic Bird Keeping	22.12.2022	Harinalaya Mini Zoo

		Assistant, Veterinary Assistant			
6.	Sri Debasish Mondal Sri Shyamal Mahata	Zoo Keeper/ Animal Attendant	Regional Workshop for Capacity Enhancement for Zoo Keepers	21.02.2023 to 23.02.2023	Zoological Garden, Alipore, Kolkata
7.	Sri Vivek Ojha Ms. Ishita Chongder	Unit In- Charge/ Range Officer Zoo Biologist	Skill Development Training Workshop for Scientific Staffs of West Bengal Zoos	17.03.2023 to 18.03.2023	Zoological Garden, Alipore, Kolkata
8.	Ms. Ishita Chongder	Zoo Biologist	Capacity Enhancement Workshop for Zoo Biologists of India	21.03.2023 to 23.03.2023	Greens Zoological Rescue and Rehabilitation Centre, Jamnagar, Gujarat

10. Zoo Advisory Committee- NIL

- a) Date of constitution
- b) Members
- c) Meeting Date

11. Health Advisory Committee

As per the directives of the Central Zoo Authority, one Health Advisory Committee has been constituted (ref. 1106/1(9)/5M-85/2005(Pt.-2), dated. 07.03.2018).

Details of the Health Advisory Committee:

Sl. No.	Name of the member	Designation
1	Joint Director, ARD IAH &VB (R&T),Belgachia, Kolkata-37	Chairman
2	Dr. Joyjit Mitra, Specialist, (Sero-Epidemiology), RDDDL(ER), IAH&VB,Belgachia, Kolkata-37	Member
3	Dr. Debasish Chatterjee, Asst. Director, ARD (Vety), (Disease Investigation), IAH &VB,Belgachia, Kolkata-37	Member
4	Dr. Proloy Mandal, Asst. Director, ARD (Vety), IAH&VB Belgachia, Kolkata-37	Member

12. Statement of income and expenditure of the Zoo

Income (Rs.): Rs. 27,80,800/-

Expense (Rs.): Rs. 9,59,92,431.15/-

13. Daily feed Schedule of animals

Diet chart of Spotted Deer/ Head/day		
SL. No.	Feed Item	Quantity
1	Wheat Bran	0.500 kg.
2	Crushed Barley	0.100 kg.
3	Crushed Oats	0.100 kg.
4	Soaked Gram	0.250 kg.
5	Sweet Potato	0.200 kg.
6	Carrot	0.200 kg.
7	Green Leafy Vegetables	0.200 kg.

8	Beans	0.200 kg.
9	Soaked Corn	0.500 kg.
10	Common Salt	0.050 kg.
	Total-	2.300 kg.
11	Green Fodder	L.S

Diet chart of Barking Deer/ Head/day		
SL. No.	Feed Item	Quantity
1	Wheat Bran	0.250 kg.
2	Crushed Barley	0.150 kg.
3	Oats	0.150 kg.
4	Soaked Gram	0.130 kg.
5	Red Potato	0.300 kg.
6	Carrot	0.300 kg.
7	Leafy Vegetables	0.300 kg.
8	Beans	0.100 kg.
9	Banana	0.300 kg.
10	Common Salt	0.020 kg.
	Total-	2.000 kg.
11	Green Grass	L.S

Diet chart of Zebra/ Head/day		
SL. No.	Feed Item	Quantity
1	Wheat Bran	1.200 kg.
2	Chrushed Indian Corn	0.500 kg.
3	Dry Gram	0.500 kg.
4	Oats	0.300 kg.

5	Crushed Barley	0.500 kg.
6	Carrot	2.000 kg.
7	Common Salt	0.050 kg.
8	Hay Grasses	4.000 kg.
9	Mineral Block	For Licking

Diet chart of Giraffe/ Head		
SL. No.	Feed Item	Quantity
1	Wheat Bran	2.250 kg.
2	Chrushed Oat	0.400 kg.
3	Chrushed Barley	1.000 kg.
4	Chrushed Gram	0.400 kg.
5	chrushed Maize	0.400 kg.
6	Boiled Lentil	0.400 kg.
7	Onion	0.250 kg.
8	Sweet Potato & Carrots	4.000 kg.
9	Beans	1.000 kg.
10	Banana	3.500 kg.
11	Apple	2.500 kg.
12	Guava	0.500 kg.
13	Orange	4 Pcs.
14	Molasses	0.200 kg.
15	Ground Nut Cake	0.250 kg.
16	Mustard Oil Cake	0.100 kg.
17	Salt	0.010 kg.
18	Leaves	L.S.
19	Mineral & Vitamin Mixture	1% of concentrate

20	Mineral Block	For Licking
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Diet chart of Hippopotamus/ Head		
SL. No.	Feed Item	Quantity
1	Wheat Bran	5.500 kg.
2	Chrushed Oat	0.500 kg.
3	Chrushed Barley	1.000 kg.
4	Soaked Gram	2.500 kg.
5	Wheat	0.500 kg.
6	Linseed	0.100 kg.
7	Sweet Potato	1.500 kg.
8	Carrots	1.500 kg.
9	Cabbage	3.500 kg.
10	Salt	0.150 kg.
11	Leafy Vegetables	3.000 kg.
12	Green Grass	33.000 kg.

Diet chart of Exotic Monkey/ Head/day		
SL. No.	Feed Item	Quantity
1	Egg	1 pc
2	Papaya	50 gm
3	Carrot	20 gm
4	Beetroot	20 gm
5	Sprout gram and mung bean	10 gm
6	Carrot	2.000 kg.
7	Lettuce (Weekly once)	1 leaf
8	Alfa alfa (Weekly twice)	20 leaves

9	Banana	1 pc
10	Cucumber	50 gm
11	Watermelon	30 gm
12	Banana	1 pc
13	Muskmelon	10 gm
14	Walnut	1 pc
15	Almond	1 pc
16	Mealworm	5 pcs
17	New world Primate diet	10 pcs

Diet chart of Sugar Glider/ Head/day		
SL. No.	Feed Item	Quantity
1	Cucumber	10 gm
2	Carrot	10 gm
3	Apple	10 gm
4	Cerelac	1 teaspoon

Diet chart of Crocodile/Animal/Week		
Sl. No.	Feed Item	Quantity
1	Small Fish	45.000 kg./wk
2	Chicken Meat	45.000 kg./wk
	Total-	90.000 kg./wk
* Body weight - 5% to 10 %/ wk/Animal		

Diet chart of Cockatoo / Head/Day		
SL. No.	Feed Item	Quantity
1	Soaked Gram	100 gm.
2	Maize	50 gm.
3	Nuts	100 gm.
4	Sunflower Seed	50 gm.
5	Kusumdana	50 gm.
6	Milk & Bread	75 gm.
7	Fruits	100 gm.

Diet chart of Macaw / Head/Day		
SL. No.	Feed Item	Quantity
1	Fruits	100 gm.
2	Sugarcane	3 - 4 pcs.
3	Milk & Bread	75 gm.
4	Walnut	1 No.
5	Kusumdana	50 gm.
6	Sunflower Seed ,Nuts	150 gm.
7	Soaked Gram	50 gm.
8	Maize	50 gm.

Diet chart of Amazon Parrot, Eclectus Parrot, Lory, African Gray Parrot/ Head/Day		
SL. No.	Feed Item	Quantity
1	Fruits	100 gm.
2	Kusumdana	50 gm.
3	Nuts	100 gm.

4	Sunflower Seed	50 gm.
5	Soaked Gram	50 gm.
6	Maize	50 gm.

Diet chart of Pheasants/ Head/Day		
SL. No.	Feed Item	Quantity
1	Soaked Gram	20 gm.
2	Soaked Maize	20 gm.
3	Crushed Maize	25 gm.
4	Chattu	10 gm.
5	Leafy Vegetable	25 gm.
6	Pumpkin + Onion + Garlic	50 gm.

Diet chart of Cassowary/ Head/Day		
SL. No.	Feed Item	Quantity
1	Banana	350 gm.
2	Papaya	500 gm.
3	Apple	400 gm.

14. Vaccination Schedule of animals

Vaccination has not been done for the housed animal till date.

15. De-worming Schedule of Animals

Name of Species	Name of Medicine	Dosage of Medicine/bird
Macaw	Piperazine Liquid	5 ml
Cockatoo	Piperazine Liquid	2 ml
Spotted Deer	Panacur Powder	2 tablet for adult, ½ tablet for fawn
Barking Deer	Panacur Powder	1 tablet for adult

16. Disinfection Schedule

Name of disinfectant	Dosage of disinfectant	Application
Vircon S	10 gm /l water	Weekly once spray all over the enclosures
Virocid	5 ml /l water	Weekly once spray all over the enclosures
Potassium Permanganate	1% Potassium Permanganate (10gm/l)	Foot Bath, Cleaning and disinfection of equipment

17. Health Check-up of employees for zoonotic diseases

It was not done in the previous years.

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

During the year 2022-23 several new enclosures have been built up for various mammals and birds, namely: Giraffe, Zebra, Hippopotamus, Primates

such as, Brown Capuchin, White lipped Tamarin, Golden headed Lion Tamarin, Sugar Glider, Birds including Macaws, Cockatoos, African Grey Parrot, Eclectus parrot, Amazon Parrot, Lory etc. Surrounding the enclosures, new Standoff barriers have been built. A Souvenir shop and a child care centre have been established at the zoo premises and along with that rest shed and sitting amenities have been provided.



GIRAFFE ENCLOSURE



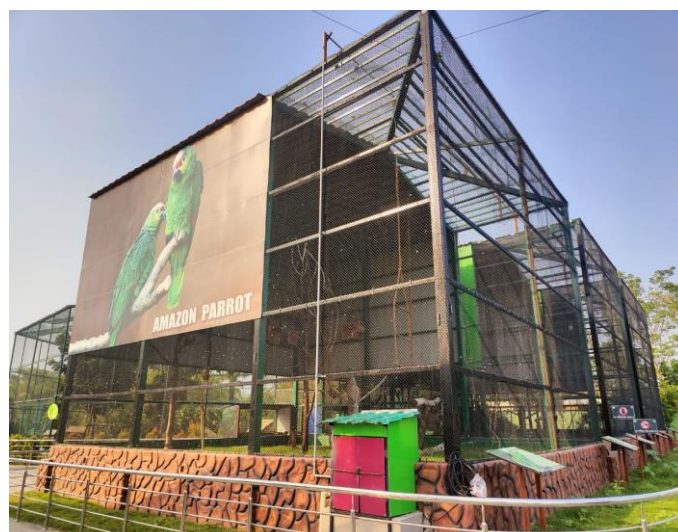
ZEBRA ENCLOSURE



HIPPOPOTAMUS ENCLOSURE



EXOTIC MONKEY ENCLOSURES



BIRD ENCLOSURE



CHILD CARE CENTRE



SOUVENIR SHOP



REST SHED AND SITTING AMENITIES

19. Education and Awareness programmes during the year

Purpose	Topic	Date
Workshop	Approaches to Common Clinical Conditions in Exotic Animals and Pet Birds Practice	22.12.2022
Workshop	Fact About Exotic Bird Keeping	22.12.2022
Education and Awareness	World Worldlife Day	03.03.2023
Education and Awareness	Skill Development Training Workshop for Scientific Staffs of West Bengal Zoos (Zoo Visit)	17.03.2023 to 18.03.2023

20. Important Events and happenings

Harinalaya Mini Zoo was previously categorized as Deer Park. So, it has been newly inaugurated as a 'Mini Zoo' on 9th February, 2023.

21. Seasonal special arrangements for upkeep of animals

a) Care for animals during summer

- Installation of sprinkler in different primate enclosures and aviaries
- Hanging of Khus-khus curtain at the particular sites to evade scorching heat
- Providing ORS to all animals
- Providing more shades for the animals

b) Care for animals during monsoon

- Disinfection of enclosures are done more frequent

c) Care for animals during winter

- Enough housing
- Providing proper substance as bedding for reptiles during hibernation

22. Research Work carried out and publications

Not done yet.

23. Conservation Breeding Programme of the Zoo

Conservation breeding program has been planned for Painted Stork (*Mycteria leucocephala*), Lesser Adjutant Stork (*Leptoptilos javanicus*), Black headed ibis (*Threskiornis melanocephalus*) and Yellow Monitor Lizard (*Varanus flavescens*).

24. Animal acquisition / transfer / exchange during the year

A.	Animals arriving in the zoo				
	Memo No.	Species	No. (M:F:U)	From which zoo	Date of arrival of zoo
AVES					
1.	1744/ZGA/ESTT/22-23	Umbrella Cockatoo	0:0:4	Zoological Garden, Alipore	08.12.2022

2.	1744/ZGA/ESTT/22-23	Red-tailed Black Cockatoo	1:1:0	Zoological Garden, Alipore	08.12.2022
3.	1744/ZGA/ESTT/22-23	Scarlet Macaw	4:0:0	Zoological Garden, Alipore	08.12.2022
4.	1744/ZGA/ESTT/22-23	Amazon Parrot	18:12:0	Zoological Garden, Alipore	08.12.2022
5.	1744/ZGA/ESTT/22-23	Eclectus Parrot	2:4:0	Zoological Garden, Alipore	08.12.2022
6.	3951/2-65	Golden Pheasant	4:5:0	Rasikbeel Mini Zoo	18.12.2022
7.		Harlequin Duck	0:0:10	Donated by Akash Aviary	19.12.2022
8.		Orinoco Goose	0:0:2	Donated by Akash Aviary	19.12.2022
9.		Paradise Shelduck	0:0:1	Donated by Akash Aviary	19.12.2022
10.	A 4207	Blue and Yellow Macaw	4:6:0	Rasikbeel Mini Zoo	08.01.2023
11.	A 4207	Red and Green Macaw	3:1:1	Rasikbeel Mini Zoo	08.01.2023
12.	1839/ZGA/ESH/23-24	Red-tailed Black Cockatoo	1:1:0	Zoological Garden, Alipore	16.01.2023
13.	1839/ZGA/ESH/23-24	African Grey Parrot	6:6:0	Zoological Garden, Alipore	16.01.2023
14.	1839/ZGA/ESH/23-24	Lory	0:0:24	Zoological Garden, Alipore	16.01.2023
15.	1839/ZGA/ESH/23-24	Mute Swan	1:0:1	Zoological Garden, Alipore	16.01.2023

16.	WB/123631	Black Swan	0:0:2	Nadia Murshidabad Division	23. 02.2023
17.	WB/123631	White Chinese Goose	0:0:1	Nadia Murshidabad Division	23. 02.2023
18.	WB/113153	Alexandrine Parrot	3:5:0	Barasat S.F Range	12.01.2023
19.	WB/113153	Rose-Ringed Parakeet	0:4:0	Barasat S.F Range	12.01.2023
20.	WB/125258	Dwarf Cassowary	1:1:0	Bethuadahari	18.03.2023
21.	WB/125258	Southern Cassowary	1:1:0	Bethuadahari	25.03.2023
MAMMALS					
22.	1773/ZGA/ESTT/22- 23	Grant's Zebra	0:1:0	Zoological Garden, Alipore	19.12.2022
23.	1767/ZGA/ESTT/22- 23	Grant's Zebra	1:0:0	Zoological Garden, Alipore	22.12.2022
24.		Sugar Glider	0:0:10	Donated by Prathik Importer & Exporter	24.12.2011
25.	1796/ZGA/ESTT/22- 23	Northern Giraffe	1:1:0	Zoological Garden, Alipore	27.12.2022
26.	A 064	White Lipped Tamarin	1:1:0	North Bengal Wild Animals Park	08.01.2023
27.	A 064	Golden Headed Lion Tamarin	1:1:0	North Bengal Wild Animals Park	08.01.2023
28.	A 064	Black-capped Capuchin	1:1:0	North Bengal Wild Animals Park	08.01.2023

29.	1844/ZGA/ESTT/22-23	Hippopotamus	1:0:0	Zoological Garden, Alipore	18.01.2023
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B. Animals going from the zoo					
	Memo No.	Species	No. (M:F:U)	Going to which zoo	Date of arrival of zoo
1.	58/DP/15	Spotted Deer	0:0:1	Zoological Garden, Alipore	17.06.2022
2.	Challan No. 119	White Chinese Goose	0:0:7	Garchumuk Zoological Garden	19.01.2023

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 & Place of rehabilitation in their habitat	Reasons for housing in the zoo, if not released in their habitat
			-	-	-	-

PART - B
Harinalaya at Eco Park (Nature Park At Taratola Road), Kolkata, West Bengal

Proforma for Annual Inventory Report
Inventory Report for the Year : 2022-2023

Other than Endangered Species*

- Modified Closing Balance

S.No.	Animal Name	Scientific Name	Opening Stock (01-Apr-2022)				Births			Acquisitions			Disposals			Deaths			Closing Stock (31-Mar-2023)				
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T	
Aves																							
1.	Chinese Goose		0	0	5	5	0	0	4	0	0	1	0	0	7	0	0	0	0	0	3	3	
2.	Orange-winged Amazon, Orange-winged Parrot	<i>Amazona amazonica</i>	0	0	0	0	0	0	0	18	12	0	0	0	0	1	0	0	0	17	12	0	29
3.	Maggie Goose	<i>Anseranas semipalmata</i>	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
4.	# Blue-and-gold Macaw, Blue-and-yellow Macaw	<i>Ara ararauna</i>	0	0	10	10	0	0	0	4	6	0	0	0	0	0	0	0	0	9	11	0	20

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S.No.	Animal Name	Scientific Name	Opening Stock (01-Apr-2022)				Births			Acquisitions			Disposals			Deaths			Closing Stock (31-Mar-2023)			
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
5.	Green-winged Macaw, Red-and-green Macaw	<i>Ara chloropterus</i>	0	0	0	0	0	0	0	3	1	1	0	0	0	0	0	0	3	1	1	5
6.	Scarlet Macaw	<i>Ara macao</i>	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	4	0	0	4
7.	Barnacle Goose	<i>Branta leucopsis</i>	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
8.	Umbrella Cockatoo, White Cockatoo	<i>Cacatua alba</i>	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	4	4
9.	Greater Sulphur-crested Cockatoo, Sulphur-crested Cockatoo	<i>Cacatua galerita</i>	0	0	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
10.	Lesser Sulphur-crested Cockatoo, Yellow-crested Cockatoo	<i>Cacatua sulphurea</i>	0	0	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
11.	Red-tailed black cockatoo, Red-tailed Black-Cockatoo	<i>Calyptorhynchus banksii</i>	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	1	2	0	3

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S.No.	Animal Name	Scientific Name	Opening Stock (01-Apr-2022)				Births			Acquisitions			Disposals			Deaths			Closing Stock (31-Mar-2023)				
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T	
12.	Dwarf Cassowary	<i>Casuarius bennetti</i>	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	2
13.	Southern Cassowary	<i>Casuarius casuarius</i>	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	2
14.	Golden Pheasant	<i>Chrysolophus pictus</i>	0	0	0	0	0	0	0	4	5	0	0	0	0	0	0	0	0	4	5	0	9
15.	Abdim's Stork	<i>Ciconia abdimii</i>	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
16.	Black Swan	<i>Cygnus atratus</i>	0	0	2	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	4	4
17.	Mute Swan	<i>Cygnus olor</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	2
18.	Eclactus Parrot	<i>Eclactus roratus</i>	0	0	0	0	0	0	0	2	4	0	0	0	0	0	1	0	2	3	0	5	
19.	Harlequin Duck	<i>Histrionicus histrionicus</i>	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	10	10
20.	Black-capped Lory, Western Black-capped Lory	<i>Lorius lory</i>	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	2	0	0	22	22	
21.	Orinoco Goose	<i>Oressochen jubatus</i>	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	2
22.	Alexandrine Parakeet	<i>Psittacula eupatria</i>	0	0	0	0	0	0	0	3	5	0	0	0	0	0	0	0	3	5	0	8	
23.	Rose-ringed Parakeet	<i>Psittacula krameri</i>	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4	0	4	
24.	Grey Parrot, Jacquot	<i>Psittacus erithacus</i>	0	0	0	0	0	0	0	6	6	0	0	0	0	0	0	0	6	6	0	12	
25.	Paradise Shelduck	<i>Tadorna variegata</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1

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S.No.	Animal Name	Scientific Name	Opening Stock (01-Apr-2022)				Births			Acquisitions			Disposals			Deaths			Closing Stock (31-Mar-2023)				
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T	
Total Aves	25		0	0	35	35	0	0	4	48	47	46	0	0	7	1	1	3	52	51	65	168	
Mammalia																							
1.	Chital/ Spotted Deer	<i>Axis axis</i>	9	7	6	22	0	0	3	0	0	0	0	0	1	1	0	0	8	7	8	23	
2.	Black-capped Capuchin, Tufted Capuchin	<i>Cebus apella</i>	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	2	
3.	Grant's Zebra	<i>Equus quagga boehmi</i>	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	2	
4.	Northern Giraffe	<i>Giraffa camelopardalis</i>	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	2	
5.	Common hippopotamus, Hippopotamus, Large Hippo	<i>Hippopotamus amphibius</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	
6.	Golden-headed Lion Tamarin	<i>Leontopithecus chrysomelas</i>	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	2	
7.	Indian Muntjac	<i>Muntiacus muntjak</i>	1	7	0	8	0	0	0	0	0	0	0	0	0	0	0	0	1	7	0	8	
8.	Sugar Glider	<i>Petaurus breviceps</i>	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	10	10

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S.No.	Animal Name	Scientific Name	Opening Stock (01-Apr-2022)				Births			Acquisitions			Disposals			Deaths			Closing Stock (31-Mar-2023)				
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T	
9.	Geoffroy's Tamarin, Red-bellied Tamarin, Red-chested mustached tamarin, Red-chested Tamann, White-lipped Tamarin	<i>Saguinus labiatus</i>	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	2
Total Mammalia	9		10	14	6	30	0	0	3	6	5	10	0	0	1	1	0	0	15	19	18	52	
Total			10	14	41	65	0	0	7	54	52	56	0	0	8	2	1	3	67	70	83	220	
Grand Total			14	19	41	74	0	0	7	54	52	56	0	0	8	2	1	3	71	75	83	229	

Curator (Animals)


Director

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27. Mortality of Animals

Sl No.	Animal Name	Scientific Name	Sex	Date and time of Death	Cause of Death
1	Abdim's Stork	<i>Ciconia abdimii</i>	Unsexed	01.04.2022 7:06 am	Bearing numerous injury marks throughout body surface and wings. It indicates infighting with other birds
2	Spotted Deer	<i>Axis axis</i>	Male	21.05.2022	Cardio respiratory failure (traumatic shock) as a result of infighting injury
3	Eclectus Parrot	<i>Eclectus roratus</i>	Female	14.12.2022	Trauma arising from infighting

				Between 2 to 3 am	with other birds at the cage
4	Amazon Parrot	<i>Amazona amazonica</i>	Male	28.01.2023 Around 10:30 am	Proventriculus, mild haemorrhagic, liver white, necrotic, foci, spleen enlarged. Positive for <i>E. coli</i> and <i>Candida sp.</i>
5	Lory	<i>Lorius lory</i>	Unsexed	30.1.2023 Around 7 am	Skin having haemorrhagic patches, Trachea and lungs congested, liver pale in colour. Positive for <i>Staphylococcus sp.</i>
6	Lory	<i>Lorius lory</i>	Unsexed	15.02.2023	Brain haemorrhagic, skin having haemorrhagic patches, heart petechial, haemorrhagic. Trachea and lungs congested, Intestine filled with mucus, proventriculus mild congested. <i>Aspergillus sp.</i> positive.

28. Compliance with conditions stipulated by the Central Zoo Authority

Compliance Reports on conditions stipulated by CZA during grant of recognition based on the zoo evaluation on September 7th 2022

Renewal of recognition of Harinalaya Deer Park, Rajarhat, Kolkata, West Bengal under Section 38-H(1),(3)&(4) of the Wild Life (Protection) Act, 1972 for period beyond 19th August,2021

Sr. No.	Norm No.	Particulars of suggestions/ recommendation	Time Period to Comply	Remarks
3. Development and Planning				
1.	10.3(3)	Disaster management mock drill should be carried out.	One month	Has been started
4. Animal housing, display of animals and animal enclosures				
2.	10.4(2)	Live screens should be developed in a planned manner between <i>pucca</i> buildings and visitor facilities.	Six months	Complied with
3.	10.4(7)	Screening should be developed between adjoining enclosures by way of plantation.	Six months	Complied with
4.	10.4(8)	Although Harinalaya is presently under the category of mini zoo construction of enclosure for carnivores like tigers and Asiatic lion, reptiles section, herbivore section, enclosure for hippopotamus, giraffe and zebra is going on without any approval from CZA. Proper approval should be taken.	Immediately	Enclosed with Revised Master Plan
5.	10.4(10)	More educational signages with important details near the enclosure of animals should be displayed	Three months	Complied with
5. Upkeep and healthcare of animals				
6.	10.5 (9)	All staff involved with upkeep and healthcare of zoo animals should be	Three months	Complied with

		screened against zoonotic diseases once every year.		
6. Veterinary and Infrastructure facilities				
7.	10.6(1)	Sufficient medical equipment and storage facilities should be provided in the zoo.	Three months	Tender floated. Facilities will be developed within given time
8.	10.6(3)	Post mortem facility should be equipped properly. Post mortem room should be well ventilated with proper lights, should have <i>pucca</i> post mortem platform, top surface with glazed tiles, underground pipe fitted drainage system and	Three months	Tender floated. Facilities will be developed within mentioned time
11. Educational and outreach activities				
9.	10.11(1)	There is a lot of scope for improving the interpretative and educational aspects. Qualitatively superior material should be generated and displayed and made available to the	Three months	Complied with

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

Mammals:

1. Small Indian Civet : *Viverricula indica*
2. Asian Palm Civet : *Paradoxurus hermaphroditus*
3. Common Mongoose : *Urva edwardsii*
4. Five-striped Palm Squirrel : *Funambulus pennantii*
5. Lesser Bandicoot Rat : *Bandicota bengalensis*

Reptiles:

1. Spectacled Cobra : *Naja naja*
2. Monocled Cobra : *Naja kaouthia*
3. Banded Krait : *Bungarus fasciatus*
4. Russell's Viper : *Daboia russelii*
5. Checkered Keelback : *Fowlea piscator*

Birds:

1. Black-crowned Night Heron : *Nycticorax nycticorax*
2. Indian Pond Heron : *Ardeola grayii*
3. Cattle Egret : *Bubulcus ibis*
4. Little Egret : *Egretta garzetta*
5. Little Cormorant : *Microcarbo niger*
6. Black Kite : *Milvus migrans*
7. Shikra : *Accipiter badius*
8. White-breasted Water hen : *Amaurornis phoenicurus*
9. Common Pigeon : *Columba livia*
10. Eurasian Collared Dove : *Streptopelia decaocto*
11. Spotted Dove : *Spilopelia chinensis*
12. Rose-ringed Parakeet : *Psittacula krameri*
13. Alexandrine Parakeet : *Psittacula eupatria*
14. Common Hawk Cuckoo : *Hierococcyx varius*
15. Asian Koel : *Eudynamys scolopaceus*
16. Greater Coucal : *Centropus sinensis*
17. Asian Palm Swift : *Cypsiurus balasiensis*
18. Common Hoopoe : *Upupa epops*
19. White-throated Kingfisher : *Halcyon smyrnensis*
20. Common Kingfisher : *Alcedo atthis*
21. Green Bee-eater : *Merops orientalis*
22. Lineated Barbet : *Psilopogon lineatus*

23. Blue-throated Barbet	:	<i>Psilopogon asiaticus</i>
24. Coppersmith Barbet	:	<i>Psilopogon haemacephalus</i>
25. Lesser Goldenback	:	<i>Dinopium benghalense</i>
26. Common Iora	:	<i>Aegithina tiphia</i>
27. Brown Shrike	:	<i>Lanius cristatus</i>
28. Black Drongo	:	<i>Dicrurus macrocercus</i>
29. Black-hooded Oriole	:	<i>Oriolus xanthornus</i>
30. Black-naped Oriole	:	<i>Oriolus chinensis</i>
31. Rufous Treepie	:	<i>Dendrocitt avagabunda</i>
32. House Crow	:	<i>Corvus splendens</i>
33. Red-whiskered Bulbul	:	<i>Pycnonotu sjocosus</i>
34. Red-vented Bulbul	:	<i>Pycnonotus cafer</i>
35. Common Tailorbird	:	<i>Orthotomus sutorius</i>
36. Jungle Babbler	:	<i>Argya striata</i>
37. Jungle Myna	:	<i>Acridothera sfuscus</i>
38. Common Myna	:	<i>Acridotheres tristis</i>
39. Asian Pied Starling	:	<i>Gracupica contra</i>
40. Chestnut-tailed Starling	:	<i>Sturnia malabarica</i>
41. Oriental Magpie Robin	:	<i>Copsychu ssaularis</i>
42. Purple-rumped Sunbird	:	<i>Leptocoma zeylonica</i>
43. Purple Sunbird	:	<i>Cinnyris asiaticus</i>
44. House Sparrow	:	<i>Passer domesticus</i>
45. White Wagtail	:	<i>Motacilla alba</i>

Butterflies:

Family: Papilionidae

1. Common Jay	:	<i>Graphium doson</i>
2. Tailed Jay	:	<i>Graphium agamemnon</i>
3. Lime Butterfly	:	<i>Papilio demoleus</i>
4. Common Mormon	:	<i>Papilio polytes</i>

5. Common Rose : *Pachliopta aristolochiae*

Family: Pieridae

6. Mottled Emigrant : *Catopsilia pyranthe*

7. Common Emigrant : *Catopsilia pomona*

8. Common Jezebel : *Delias eucharis*

9. Psyche : *Leptosia nina*

10. Indian Cabbage White : *Pieris canidia*

11. Common Wanderer : *Pareronia valeria*

12. Common Grass Yellow : *Eurema hecabe*

Family: Lycaenidae

13. Striped Pierrot : *Tarucus nara*

14. Tiny Grass Blue : *Zizula hylax*

Family: Nymphalidae

15. Common Bushbrown : *Mycalesis perseus*

16. Common Five-ring : *Ypthima baldus*

17. Common Four-ring : *Ypthima huebneri*

18. Tawny Coster : *Acraea violae*

19. Danaid Eggfly : *Hypolimnas misippus*

20. Blue Tiger : *Tirumala limniace*

21. Striped Tiger : *Danaus genutia*

22. Plain Tiger : *Danaus chrysippus*

23. Common Indian Crow : *Euploea core*

24. Common Evening Brown : *Melanitis leda*