



# Harinalaya Mini Zoo



**Annual Report 2024-25**

# CONTENTS

Sl. No	Section	Page Number
1.	Report of the Officer –in-charge	1-2
2.	History of the Zoo	2-3
3.	Vision	3
4.	Mission	3
5.	Objective	3-4
6.	About us	4-5
7.	Organizational Chart	5-6
8.	Human Resources	6-7
9.	Capacity building of the zoo Personnel	7-9
10.	Zoo Advisory Committee	10
11.	Health Advisory Committee	10
12.	Statement of income & expenditure of the Zoo	11
13.	Daily feed Schedule of animals	11-22
14.	Vaccination Schedule of animals	23-24
15.	De-worming Schedule of animals	24-26
16.	Disinfection Schedule	26
17.	Health Check-up of employees for zoonotic disease	26-27
18.	Development Works carried out in the zoo during the year	27-31
19.	Education & Awareness Programmes during the year	32-33
20.	Important Events and happenings in the zoo	34-39
21.	Seasonal special arrangements for upkeep of animals	40-41
22.	Research work carried out and publications	42
23.	Conservation Breeding Programme of the zoo	42
24.	Annual acquisition/ transfer/ exchange during the year	42-43
25.	Rescue and Rehabilitation of the wild animals carried out by the zoo	43
26.	Annual Inventory of the Animals	43-47
27.	Mortality of Animals	48-51
28.	Status of the Compliance with conditions stipulated by the Central Zoo Authority	52-53
29.	List of free living wild animals within the zoo premises	53-56

# HARINALAYA MINI ZOO

## Annual Report for the year of 2024-25

### 1. Report of the Officer –in-charge

Harinalaya is situated in West Bengal's Newtown-Kolkata Metropolis, housing large mammals like the Northern Giraffe, Common Hippopotamus,, Grant's Zebra, Spotted Deer, Barking Deer, a wide variety of Birds including the Blue-Gold Macaw, Amazon Parrot, Lory, Cockatoos, and India's only ape, the Hoolock Gibbon. Harinalaya also houses other primates and a good number of Water Birds.

Harinalaya ensures the best care for the animals and an immersive experience for the visitors with scientifically designed naturalistic enclosures with enrichments and visitor facilities. The zoo is constantly under CCTV surveillance for safety and security of the animals and visitors alike.

Run under the West Bengal Zoo Authority, by the ex-officio Director and Deputy Conservator of Forests, Urban and Recreation Forestry Division, Harinalaya is currently recognised as a Mini Zoo by the Central Zoo Authority.

The Harinalaya was inaugurated by Smt Mamata Banerjee, the Honourable Chief Minister, West Bengal on the 9<sup>th</sup> February, 2023 and catered to more than 3 lakh visitors annually.

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 and 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 Dr. Manoj Pant, IAS, Chief Secretary, Government of West Bengal and Chairman, West Bengal Zoo Authority, Sri Debal Ray, IFS, Principle Secretary, Forest Department and Principle Chief Conservator of Forest and Head of Forest Force, West Bengal for their kind guidance.

I express my gratitude to Sri Saurabh Chaudhuri, IFS, Additional Principal Chief Conservator of Forests & Member Secretary, West Bengal Zoo Authority, for his valuable suggestions 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. Harinalaya was previously categorized as Deer Park with 50 numbers of Spotted Deer. 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 were released in Harinalaya.

Harinalaya is currently recognized as a Mini Zoo by the Central Zoo Authority, with a total area of 15.2 acres.

### **3. Vision**

This Zoo envisions providing a means for raising community awareness of ex-situ conservation and expertise on the proper maintenance and ex-situ conservation of the globally and regionally threatened fauna and flora. The zoo will serve as an institute to research animal behaviour, oversee conservation efforts, and create species-specific conservation and management plans. The zoo will work for conservation breeding and endemic species and maintain insurance population as an institution for 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 center for endemic, and endangered faunal and floral species and scientific landscaping to make optimal use of the natural and park like surroundings.

### **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:**

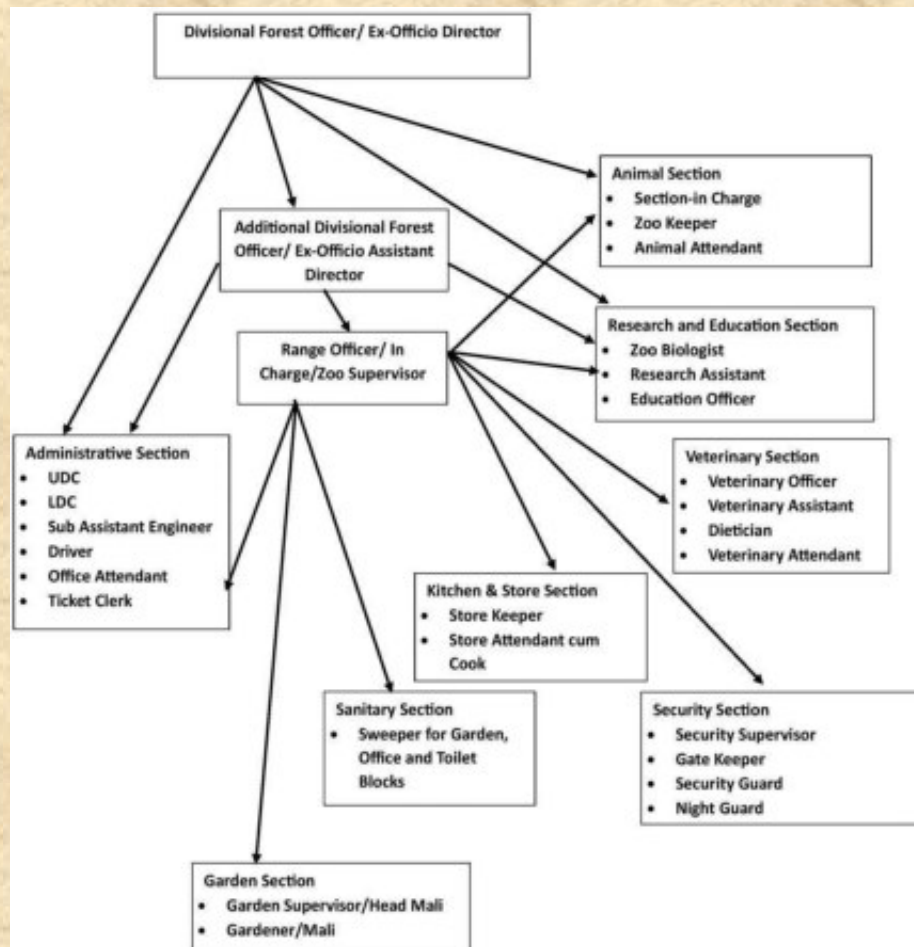
To facilitate research and scientific study on animal behavior, behavioral and environmental enrichment, nutrition and reproductive biology.

## **6. About us**

<b>Sl.No.</b>	<b>Particulars</b>	<b>Information</b>
<b>Basic Information about the Zoo</b>		
1	Name of the Zoo	Harinalaya
2	Year of Establishment	2017
3	Address of the Zoo	Harinalaya, Action Area IIE, Newtown West Bengal 700156
4	State	West Bengal
5	Telephone Number	033 22482504
6	Fax Number	033 22482504
7	E-mail address	<a href="mailto:mwbza@gmail.com">mwbza@gmail.com</a> <a href="mailto:dcfurkolkata@gmail.com">dcfurkolkata@gmail.com</a> <a href="mailto:harinalaya2017@gmail.com">harinalaya2017@gmail.com</a>
8	Website	<a href="https://www.wbza.in/">https://www.wbza.in/</a>
9	Distance from nearest	Airport: 6 km
		Railway Station: 7.3 km
		Bus Stand: 1 km
10	Recognition Valid upto (Date)	25-05-2025 ; Renewal fees paid and application submitted as acknowledged by
11	Category of zoo	Mini Zoo
12	Area (in Hectares)	6.3596 hectare
13	Number of Visitors (2024-2025)	Adult: 1,95,690
		Children: 19,887

		Total Visitors: 2,15,557
14	Visitor's Facilities Available in Zoo	<ul style="list-style-type: none"> <li>• Public facilities like toilets</li> <li>• Sufficient number of drinking water taps</li> <li>• Visitor information center</li> <li>• Zoo education facilities</li> <li>• Kiosks and restaurant</li> <li>• Emergency telephone facility</li> <li>• First Aid</li> <li>• Wheelchair and ramps</li> </ul> <p><b>Other Facilities</b></p> <p>Visitor Rest Shed, Child Care Room, Children's Play Equipment in children's park, Visitor pathway shed</p>
15	Weekly Closure Day of the Zoo	Thursday
<b>Management Personnel of the zoo</b>		
16	Name of the Officer	Ram Prasad Badana, IFS
<b>Owner / Operator of the Zoo</b>		
17	Name of the Operator	Member Secretary, West Bengal Zoo Authority on behalf of Department of Forests, Government of West Bengal &
18	Address of the Operator	Aranaya Bhawan, Block- LA-10A, Sector- III, Salt Lake City, Kolkata- 700106, West Bengal
19	Contact details/Phone number of Operator	Phone: <u>+91 33 23355011</u> (EPABX), <u>033- 2335-8755</u> FAX: <u>+91 33 23350012</u>
20	E-mail address of Operator	<u>m<sup>s</sup>wbza@gmail.com</u>

## 7. Organizational Chart



## 8. Human Resources

Manpower of the Zoo				
Sl.No	Designation	Employee Name	Email	Contact Number
1	Officer In-charge/ Zoo Director	Sri RamprasadBadana, IFS	dcfurfkolkata@gmail.com	(033) 2248-2504
2	Curator	-	-	-
3	Ex-Officio Asst. Director	Ms.Ankita Bhaduri, WBFS	adfoharinalaya-wb@bangla.gov.in	-
4	Unit In-Charge/ Range	Sri Vivek Ojha	<a href="mailto:harinalaya2017@gmail.com">harinalaya2017@gmail.com</a>	-

	<b>Officer</b>			
5	<b>Veterinarian</b>	Dr Jibon Kanti Sarkar	-	-
5	<b>Research Assistant</b>	Ms.Purbasha Acharyya Chowdhury	purbashachowdhury02@gmail.com	-
6	<b>Zoo Supervisor</b>	Sri Biplab Kumar Bhowmik	-	-
8	<b>Veterinary Assistant</b>	Wasikur Rahaman	wasikurrock@gmail.com	-
9	<b>Technical Assistant</b>	Sudipto Manna	sudiptomannat2@gmail.com	-
10	<b>Zoo Keeper</b>	DebashisMondal, Alok Paul, Prosad Barman	-	-
11	<b>Animal Attendant</b>	Shyamal Mahata, Krishnendu Sahoo, Ashis Sarkar, Dhananjoy Sahis	-	-

## 9. Capacity Building of zoo personnel

Capacity Building of zoo personnel					
SI No.	Name	Designation	Subject matter of Training	Date of Training	Name of the Institution where the Training attended
1.	Shyamal Mahata Prasanta Mondal	Animal Section	Training program for zoo staff of WBZA	28 <sup>th</sup> April- 1 <sup>st</sup> May 2024	1. Padmaja Naidu Himalayan Zoological Garden
2.	1.Mr. Vivek kr. Ojha 2.Purbasha Acharyya Chowdhury 3.Wasikur Rahaman 4.Debasish Mondal 5. Shyamal Mahata	1.Range Officer 2.Research Assistant 3.Veterinary assistant 4.Zoo Keeper	Capacity Building of Zoo Personnel	20 <sup>th</sup> May- 24 <sup>th</sup> May 2024	1. North Bengal Wild Animal Park 2. Padmaja Naidu Himalayan Zoological Park

		5. Animal Attendent			
3.	1. Purbasha Acharyya Chowdhury 2. Wasikur Rahaman 3. Prasanta Mondal 4. Shyamal Mahata 5. Dipankar Mondal 6. Biplab Kabiraj	1. Research Assistant 2. Veterinary assistant 3. Animal Section 4. Animal Section 5. Animal Section 6. Animal Section	Training Programme on Ex-situ management of Royal Bengal Tiger	22 <sup>nd</sup> August 2024	Sundarban Wild Animal Park
4.	Rakesh Maity	Aviary Section	Training on Avian Care and Captive Breeding	20 <sup>th</sup> -22 <sup>nd</sup> September 2024	Tata steel Zoological Park, Jamshedpur
5.	1. Purbasha Acharyya Chowdhury 2. Wasikur Rahaman 3. Sudipto Manna 4. Debasish Mondal 5. Prasad Barman 6. Alope Paul 7. Anup kr. Mahata 8. Krishnendu Sahoo 9. Asish Sarkar 10. Sourav Tikadar 11. Shyamal Mahata 12. Debabrata Mahata 13. Biplab Kabiraj 14. Karuna Sindhu Paramanik 15. Palan Chandra Mondal 16. Subrata Sahoo 17. Rakesh Maity 18. Sanjib Ghosh 19. Dhanesh Sinha 20. Ramesh Mridha 21. Dhananjay Sahis 22. Dipankar Mondal 23. Sagar Tikadar 24. Ganesh Nath	1. Research Assistant 2. Veterinary Assistant 3. Technical Assistant 4. Zoo Keeper 5. Zoo Keeper 6. Zoo Keeper 7. LDC 8. Animal Section 9. Animal Section 10. CCTV operator 11. Animal Section 12. Animal Section 13. Animal Section 14. Animal Section 15. Animal Section 16. Animal Section 17. Animal Section 18. Banasahayak 19. Banasahayak 20. Animal Section 21. Animal Section 22. Animal Section 23. Animal Section 24. Animal Section	Mock Drill and Workshop on Disaster Management	17 <sup>th</sup> October 2024	Harinalaya

6.	Alok Paul	Zoo Keeper	Training for Zoo Keepers organized by Central Zoo Authority	13 <sup>th</sup> -15 <sup>th</sup> November 2024	North Bengal Wild Animal Park
7.	1. Purbasha Acharyya Chowdhury 2. Wasikur Rahaman 3. Sudipto Manna 4. Debasish Mondal 5. Alope Paul 6. Anup kr. Mahata 7. Krishnendu Sahoo 8. Asish Sarkar 9. Debabrata Mahata 10. Karuna Sindhu Paramanik 11. Palan Chandra Mondal 12. Subrata Sahoo 13. Rakesh Maity 14. Dhananjoy Sahis 15. Dipankar Mondal 16. Sagar Tikadar 17. Prasanta Mondal	1. Research Assistant 2. Veterinary Assistant 3. Technical Assistant 4. Zoo Keeper 5. Zoo Keeper 6. LDC 7. Animal Section 8. Animal Section 9. Animal Section 10. Animal Section 11. Animal Section 12. Animal Section 13. Animal Section 14. Animal Section 15. Animal Section 16. Animal Section 17. Animal Section	Assistant Caretaker of Wild/ Zoo animals ( RPL+ Bridge)	2 <sup>nd</sup> -4 <sup>th</sup> Dec 2024	Harinalaya

## 10. Zoo Advisory Committee- NIL

- a) Date of constitution- Not applicable
- b) Members- Not applicable
- c) Meeting Date- Not applicable

## 11. Health Advisory Committee

As per the directives of the Central Zoo Authority, one Health Advisory Committee has been constituted vide order of the Director, Animal Husbandry & Veterinary Services, West Bengal 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. 1,06,13,415/-

Expense (Rs.): Rs. 6,15,94,571/-

## 13. Daily Feed Schedule of animals

The Diet chart of Animals has been revised and approved by Health Advisory committee and West Bengal Zoo Authority through a review meeting on Animal Health, Diet, Biosecurity of Harinalaya, Newtown, Kolkata held on 21<sup>st</sup> May, 2024 at Harinalaya. Memo no: 797/1-3/Animal, dated : 05.06.2024 from DCF/URF office. Technical approval of Member Secretary, WBZA has been received vide memo no. 181/1/WBZA/D-26/24-25, Dated: 11.06.2024

Diet chart of Spotted Deer/ Individual /day		
Sl No.	Feed Item	Amount /Head (gm)
1	Wheat Bran	500
2	Crushed Barley	100
3	Crushed Oats	100
4	Soaked Gram	250
5	Sweet Potato	200
6	Carrot	200
7	Spinach	200
8	Red Amaranth	100
9	Beans	100
10	Soaked Corn	500
11	Common Salt	20
12	Black Salt	20
13	Green Fodder	1000
14	Watermelon (April-June)	2000
15	Jaggary (March to August)	200
16	Mineral Block	-
17	ORS	

Diet chart of Barking Deer/ Individual/day		
Sl No	Feed Item	Amount/Head (kg)
1	Wheat Bran	250
2	Crushed Barley	150
3	Oats	150
4	Soaked Gram	130
5	Red Potato	300
6	Carrot	300
7	Spinach	150
8	Red Amaranth	150
9	Beans	100
10	Banana	300
11	Common Salt	10
12	Black Salt	10
13	Green Grass	1000
14	Soyabean Cake	200
15	Watermelon (April-June)	1500
16	Jaggary (March to August)	200
17	Mineral Block	

<b>Diet chart of Northern Giraffe/ Individual/Day</b>		
<b>Sl No.</b>	<b>Feed Item</b>	<b>Amount/ Head (gm)</b>
1	Wheat Bran	1,500.00
2	Chrushed Oat	350.00
3	Chrushed Barley	750.00
4	Chrushed Gram	350.00
5	Crushed Maize	350.00
6	Boiled Lentil	400.00
7	Onion	250.00
8	Sweet Potato	600.00
9	Carrots	600.00
10	Beans	1,000.00
11	Mango	500.00
12	Banana	3,500.00
13	Apple	2,000.00
14	Guava	500.00
15	Orange	480.00
16	Molasses	200.00
17	Ground Nut Cake	200.00
18	Mustard Oil Cake	100.00
19	Common Salt	100.00
20	Black Salt	100.00
21	Leaves(Banyan, Jackfruit, Subabul, Alfa alfa, Timothy, Bermuda etc)	15,000.00
22	Mineral & Vitamin Mixture	1% Concentrate

<b>Diet chart of Grant's Zebra/ Individual /Day</b>		
<b>Sl No.</b>	<b>Feed Item</b>	<b>Amount/ Head (gm)</b>
1	Wheat Bran	1200
2	Chrushed Indian Corn	500
3	Dry Gram	500
4	Oats	300
5	Crushed Barley	500
6	Carrot	2000
7	Common Salt	50
8	Black Salt	50
9	Hay Grasses ( Alfa Alfa, Timothy, Bermuda)	4000
10	Mineral Block	
11	ORS	

<b>Diet chart of Common Hippopotamus/ Individual / Day</b>		
<b>Sl No.</b>	<b>Feed Item</b>	<b>Amount/ Head (gm)</b>
1	Wheat Bran	5500
2	Chrushed Oat	500
3	Chrushed Barley	1000
4	Soaked Gram	1500
5	Wheat	500
6	Linseed	100
7	Sweet Potato	1500
8	Carrots	1500
9	Cabbage	1500
10	Common Salt	75
11	Black Salt	100
12	Water Spinach	1500
13	Red amaranth	1500
14	Green Grass	3000

<b>Diet chart of Common Marmoset/ Individual /day</b>		
<b>SL No.</b>	<b>Feed Item</b>	<b>Amount /Head (gm)</b>
1	Egg white	20
2	Papaya	30
3	Sprout gram	5
4	Mung bean	5
5	Alfa alfa (Weekly twice)	20 leaves (5 gm)
6	Banana	50
7	Cucumber	30
8	Watermelon	30
9	Muskmelon	10
10	Sapodilla	10
11	Mango	10
12	Figs	5
13	Java Apple	10

14	Guava	20
15	Apple	15
16	Orange	15
17	Grapes	10
18	Beetroot	15
19	Brocoli	5
20	Carrot	5
21	Sweet corn	5
22	Coconut Water	
23	Almond	1
24	Walnut	3
25	Mealworm	5
26	New world Primate diet	5
27	Cricket (Weekly once)	2pcs(0.8gm)
28	Grasshopper (Weekly once)	2pcs(0.6gm)
29	Hibiscus (Weekly Once)	2pcs
30	Turmeric	

<b>Diet chart of Golden Headed Lion Tamarin/ Individual /day</b>		
<b>SL No.</b>	<b>Feed Item</b>	<b>Amount/ Head (gm)</b>
1	Egg white	20
2	Papaya	30
3	Sprout gram	5
4	Mung bean	5
5	Alfa alfa (Weekly twice)	20 leaves (5 gm)
6	Banana	50
7	Cucumber	30
8	Watermelon	30
9	Muskmelon	10
10	Sapodilla	10
11	Mango	10
12	Figs	5
13	Java Apple	10
14	Guava	20

15	Apple	15
16	Orange	15
17	Grapes	10
18	Beetroot	15
19	Brocoli	5
20	Carrot	5
21	Sweet corn	5
22	Coconut Water	
23	Almond	1
24	Walnut	3
25	Mealworm	5
26	New world Primate diet	5
27	Cricket (Weekly once)	2pcs(0.8gm)
28	Grasshopper (Weekly once)	2pcs(0.6gm)
29	Hibiscus (Weekly Once)	2pcs
30	Turmeric	

<b>Diet chart of White lipped Lion Tamarin/ Individual /day</b>		
<b>SL No.</b>	<b>Feed Item</b>	<b>Amount/ Head (gm)</b>
1	Egg white	20
2	Papaya	30
3	Sprout gram	5
4	Mung bean	5
5	Alfa alfa (Weekly twice)	20 leaves (5 gm)
6	Banana	50
7	Cucumber	30
8	Watermelon	30
9	Muskmelon	10
10	Sapodilla	10
11	Mango	10
12	Figs	5
13	Java Apple	10
14	Guava	20
15	Apple	15
16	Orange	15
17	Grapes	10
18	Beetroot	15
19	Brocoli	5
20	Carrot	5
21	Sweet corn	5
22	Coconut Water	
23	Almond	1
24	Walnut	3
25	Mealworm	5
26	New world Primate diet	5
27	Cricket (Weekly once)	2pcs( 0.8gm)
28	Grasshopper (Weekly once)	2pcs( 0.6gm)
29	Hibiscus ( Weekly Once)	2pcs
30	Turmeric	

<b>Diet chart of Tufted Capuchin/ Individual /day</b>		
<b>SL No.</b>	<b>Feed Item</b>	<b>Amount/Head (gm)</b>
1	Egg white	30
2	Papaya	40
3	Sprout gram	10
4	Mung bean	10
5	Alfa alfa (Weekly twice)	20 leaves (5 gm)
6	Banana	100
7	Cucumber	40
8	Watermelon	30
9	Muskmelon	20
10	Sapodilla	20
11	Mango	20
12	Figs	10
13	Java Apple	25
14	Guava	25
15	Apple	30
16	Orange	25
17	Grapes	20
18	Beetroot	20
19	Brocoli	5
20	Carrot	15
21	Sweet corn	5
22	Coconut Water	
23	Almond	1
24	Walnut	5
25	Mealworm	8
26	New world Primate diet	10
27	Cricket (Weekly once)	2pcs( 0.8gm)
28	Grasshopper (Weekly once)	2pcs( 0.6gm)
29	Hibiscus ( Weekly Once)	2pcs
30	Turmeric	

<b>Diet chart of Red-tailed Monkey / Individual /day</b>		
<b>SL No.</b>	<b>Feed Item</b>	<b>Amount/Head (gm)</b>
1	Egg white	30
2	Papaya	40
3	Sprout gram	10
4	Mung bean	10
5	Alfa alfa (Weekly twice)	20 leaves (5 gm)
6	Banana	100
7	Cucumber	40
8	Watermelon	30
9	Muskmelon	20
10	Sapodilla	20
11	Mango	20
12	Figs	10
13	Java Apple	25
14	Guava	25
15	Apple	30
16	Orange	25
17	Grapes	20
18	Beetroot	20
19	Brocoli	5
20	Carrot	15
21	Sweet corn	5
22	Coconut Water	
23	Almond	1
24	Walnut	5
25	Mealworm	8
26	New world Primate diet	10
27	Cricket (Weekly once)	2pcs( 0.8gm)
28	Grasshopper (Weekly once)	2pcs( 0.6gm)
29	Hibiscus ( Weekly Once)	2pcs

<b>Diet chart of Hoolock Gibbon / Individual /day</b>		
<b>SL No.</b>	<b>Feed Item</b>	<b>Amount/ Head (gm)</b>
1	Egg white	30
2	Papaya	40
3	Sprout gram	10
4	Mung bean	10
5	Alfa alfa (Weekly twice)	20 leaves (5 gm)
6	Banana	100
7	Cucumber	40
8	Watermelon	30
9	Muskmelon	20
10	Sapodilla	20
11	Mango	20
12	Figs	10
13	Java Apple	25
14	Guava	25
15	Apple	30
16	Orange	25
17	Grapes	20
18	Beetroot	20
19	Brocoli	5
20	Carrot	15
21	Sweet corn	5
22	Coconut Water	
23	Almond	1
24	Walnut	5
25	Mealworm	8
26	New world Primate diet	10
27	Cricket (Weekly once)	2pcs( 0.8gm)
28	Grasshopper (Weekly once)	2pcs( 0.6gm)
29	Hibiscus ( Weekly Once)	2pcs

<b>Diet chart of Salt water Crocodile/ Individual /Week</b>		
<b>Sl. No.</b>	<b>Feed Item</b>	<b>Amount/ Head (gm)</b>
1	Chicken ( Summer)	2000
2	Fish ( Summer )	
1	Chicken ( Winter)	1000
2	Fish ( Winter)	

<b>Diet chart of Marsh Crocodile / Individual /Week</b>		
<b>Sl. No.</b>	<b>Feed Item</b>	<b>Amount/ Head (gm)</b>
1	Chicken ( Summer)	2000
2	Fish ( Summer )	
1	Chicken ( Winter)	1000
2	Fish ( Winter)	

<b>Diet chart of Water Birds / Individual /Day</b>		
<b>SL No.</b>	<b>FEED ITEM</b>	<b>Amount/Head (gm)</b>
1	Maize Dust	65
2	Paddy	65
3	Boiled Rice	65
4	Water Spinach	65
5	Red Amaranth	30
6	Bajra	65
7	Chattu	65
8	Cabbage	50
9	Beans	65
10	Fingerline Fish (Only for Stork)	250

<b>Diet chart of Pheasant / Head/Day</b>		
<b>Sl No.</b>	<b>Feed Item</b>	<b>Amount/Head (gm)</b>
1	Crushed Maize	10
2	Onion finely chopped	5
3	Garlic finely chopped	5
4	Cabbage	5
5	Radish leaves	5
6	Carrots and Carrot Leaves	5
7	Beetroot	5
8	Spinach	5
9	Mustard green	5
	Red Amaranth	
10	(Laal Shaag)	5
11	Radish	5
12	Ash gourd	5
13	Mutton heart (Keema/chopped)/ Chicken chopped	20
14	Wheat husk	15
15	Paddy husk	15
16	Boiled egg	50
17	Sattu Balls	10
18	Mealworm	15

<b>Diet chart of Green Iguana / Head/Day</b>		
<b>Sl. No.</b>	<b>FEED ITEM</b>	<b>Amount/Head (gm)</b>
1	Kale Leaves	25
2	Mulberry leaves	25
3	Hibiscus leaves	25
4	Hibiscus Flower	10
5	Cabbage	50
6	Water Spinach	50
7	Grated carrot	50
8	Grated apple	50
9	Kale Leaves	25
10	Mulberry leaves	25
11	Hibiscus leaves	25
12	Hibiscus Flower	10
13	Cabbage	50
14	Water Spinach	50
15	Grated carrot	50
16	Grated apple	50

<b>Diet chart of Cassowary / Head/Day</b>		
<b>SL No.</b>	<b>FEED ITEM</b>	<b>Amount/Head (gm)</b>
1	Apple	400
2	Papaya	500
3	Banana	900
4	Boiled Egg	40
5	Ant Egg	100

<b>Diet chart of Suger Glider/ Head/Day</b>		
<b>SL No.</b>	<b>FEED ITEM</b>	<b>Amount/Head (gm)</b>
1	Cucumber	10
2	Carrot	10
3	Apple	10
4	Cerelac	5

### Diet chart of Macaw/Individual /Day

	Feed Item	Amt/h/d		Feed Item	Amt/h/d	
<b>VEGETABLES</b>	Ladies Finger	10	<b>NUTS</b>	Roasted Peanuts	5	
	Bitter gourd	5		Brazil Nuts (2/week)	5	
	Pumpkin	5		Macadamia Nuts (2/week)	2.5	
	Carrot	5		Hazelnuts (2/week)	2.5	
	Raw Green Chillies	10		Almond	2	
	Red , Yellow, Green Bell Pepper	10		Pecan Nuts	1.5	
	Corn Cob	10		Red Cashewnut	2.5	
	Sweet Potato	10		Walnut with shell	30	
	Yard-long Bean	5		<b>SEEDS</b>	Sunflower seeds	15
	Gourd	5	Pumpkin Seeds		5	
	Pointed Gourd	5	Watermelon Seeds		5	
	Spinach	5	Canary Seeds		15	
	Broccoli	5	Paddy		2.5	
	Beet Root	5	White Millet		2	
			Red Millet		2	
	<b>SOFT FOOD</b>	Boiled Egg	10	<b>WORM</b>	Yellow Millet	2
Brown Rice		5	Hulled Oats		5	
<b>Sprout</b>			Safflower		2.5	
Sunflower		5	Wheat		2.5	
Gram		5	<b>TREATS</b>		Mealworm	2
Mung Bean		5			Hibiscus Petal	1pc
Corn		5		Neem Leaves	2pc	
Chikpea		5	Basil Leaves	2pc		
Whole Yellow Peas		5	Kalmegh	2pc		
Wheat	5					
<b>FRUITS</b>	Guava	15	<b>SUPPLEMENTS</b>	Calcium (10gm in1 kg )		
	Papaya	15		Mineral ( 5gm in 1 Kg)		
	Banana	5		Black Tea		
	Cucumber	5				
	Sugar Cane	10				
	Java Apple	10				
	Mango	10				
	Coconut ( Weekly Once)					
	Sapodila	5				
	Watermelon	10				
	Muskmelon	10				
	Litchi	10				
	Pomegranate	10				
	Figs	10				
	Yam	10				
	Apple	10				
	Orange	5				
	Grapes	10				

## Diet chart of Grey Parrot/Individual /Day

Diet chart of Grey Parrot / Head/Day				Feed Item	Amount/Head (gm)
	Feed Item	Amount/Head (gm)			
VEGETABLES	Ladies Finger	5	NUTS	Roasted Peanuts	5
	Bitter gourd	5		Brazil Nuts (2/week)	5
	Pumpkin	5		Macadamia Nuts (2/week)	2.5
	Carrot	5		Hazelnuts (2/week)	2.5
	Raw Green Chillies	5		Almond	2
	Red , Yellow, Green Bell Pepper	5		Pecan Nuts	1.5
	Corn Cob	5		Red Cashewnut	2.5
	Sweet Potato	5		Walnut with shell	30
	Yard-long Bean	5		Palm nut	15
	Gourd	5			
	Pointed Gourd	5	SEEDS	Sunflower seeds	10
	Spinach	5		Pumpkin Seeds	2.5
	Broccoli	5		Watermelon Seeds	2.5
	Beet Root	5		Canary Seeds	8
				Paddy	2
		White Millet		2	
		Red Millet		2	
		Yellow Millet		2	
		Hulled Oats		4	
		Safflower		4	
		Wheat	2		
SOFT FOOD	Boiled Egg	10	WORM	Mealworm	2
	Brown Rice	5			
	<b>Sprout</b>				
	Sunflower	3			
	Gram	3			
	Mung Bean	3			
	Corn	3			
	Chikpea	3			
	Whole Yellow Peas	3			
	Wheat	3			
		TREATS	Hibiscus Petal	1pc	
			Neem Leaves	2pc	
			Basil Leaves	2pc	
			Kalmegh	2pc	
FRUITS	Guava	15	SUPPLEMENTS	Calcium (10gm in 1 kg )	
	Papaya	15		Mineral ( 5gm in 1 Kg)	
	Banana	5		Black Tea (gm)	
	Cucumber	5			
	Sugar Cane	10			
	Java Apple	10			
	Mango	10			
	Coconut ( Weekly Once)				
	Sapodila	5			
	Watermelon	10			
	Muskmelon	10			
	Litchi	10			
	Pomegranate	10			
	Figs	10			
	Yam	10			
	Apple	10			
	Orange	5			
Grapes	10				

## Diet chart of Amazon Parrot/Individual /Day

Diet chart of Amazon Parrot / Head/Day				Feed Item	Amount/Head (gm)
	Feed Item	Amount/Head (gm)			
VEGETABLES	Ladies Finger	10	NUTS	Roasted Peanuts	5
	Bitter gourd	5		Brazil Nuts (2/week)	5
	Pumpkin	5		Macadamia Nuts (2/week)	2.5
	Carrot	5		Hazelnuts (2/week)	2.5
	Raw Green Chillies	10		Almond	2
	Red , Yellow, Green Bell Pepper	10		Pecan Nuts	1.5
	Corn Cob	10		Red Cashewnut	2.5
	Sweet Potato	10		Walnut with shell	30
	Yard-long Bean	5			
	Gourd	5	SEEDS	Sunflower seeds	2
	Pointed Gourd	5		Pumpkin Seeds	2
	Spinach	5		Watermelon Seeds	2
	Broccoli	5		Canary Seeds	25
	Beet Root	5		Paddy	2
				White Millet	1
		Red Millet		1	
		Yellow Millet		1	
		Hulled Oats		2	
		Safflower		2	
		Wheat	2		
SOFT FOOD	Boiled Egg	5	WORM	Mealworm	2
	Brown Rice	5			
	Sprout				
	Sunflower	3	TREATS	Hibiscus Petal	1pc
	Gram	3		Neem Leaves	2pc
	Mung Bean	3		Basil Leaves	2pc
	Corn	3		Kalmegh	2pc
	Chikpea	3			
	Whole Yellow Peas	3			
Wheat	3				
FRUITS	Guava	15	SUPPLEMENTS	Calcium (10gm in1 kg )	
	Papaya	15		Mineral ( 5gm in 1 Kg)	
	Banana	5		Rex Oil ( 2.5ml in 1 kg)	
	Cucumber	5		Black Tea (gm)	
	Sugar Cane	10			
	Java Apple	10			
	Mango	10			
	Coconut ( Weekly Once)				
	Sapodila	5			
	Watermelon	10			
	Muskmelon	10			
	Litchi	10			
	Pomegranate	10			
	Figs	10			
	Yam	10			
Apple	10				
Orange	5				
Grapes	10				

## Diet chart of Eclectus Parrot/Individual /Day

Diet chart of Eclectus Parrot / Head/Day				Feed Item	Amount/Head (gm)
	Feed Item	Amount/Head (gm)			
<b>VEGETABLES</b>	Ladies Finger	10	<b>NUTS</b>	Roasted Peanuts	5
	Bitter gourd	5		Brazil Nuts (2/week)	5
	Pumpkin	5		Macadamia Nuts (2/week)	2.5
	Carrot	5		Hazelnuts (2/week)	2.5
	Raw Green Chillies	10		Almond	2
	Red , Yellow, Green Bell Pepper	10		Pecan Nuts	1.5
	Corn Cob	10		Red Cashewnut	2.5
	Sweet Potato	10		Walnut with shell	30
	Yard-long Bean	5			
	Gourd	5	<b>SEEDS</b>	Sunflower seeds	2
	Pointed Gourd	5		Pumpkin Seeds	2
	Spinach	5		Watermelon Seeds	2
	Broccoli	5		Canary Seeds	25
	Beet Root	5		Paddy	2
				White Millet	1
				Red Millet	1
		Yellow Millet		1	
		Hulled Oats		2	
		Safflower		2	
		Wheat	2		
<b>SOFT FOOD</b>	Boiled Egg	5	<b>WORM</b>	Mealworm	2
	Brown Rice	5			
	<b>Sprout</b>		<b>TREATS</b>	Hibiscus Petal	1pc
	Sunflower	3		Neem Leaves	2pc
	Gram	3		Basil Leaves	2pc
	Mung Bean	3		Kalmegh	2pc
	Corn	3			
	Chikpea	3			
	Whole Yellow Peas	3			
Wheat	3				
<b>FRUITS</b>	Guava	15	<b>SUPPLEMENTS</b>	Calcium (10gm in 1 kg )	
	Papaya	15		Mineral ( 5gm in 1 Kg)	
	Banana	5		Rex Oil ( 2.5ml in 1 kg)	
	Cucumber	5		Black Tea	
	Sugar Cane	10			
	Java Apple	10			
	Mango	10			
	Coconut ( Weekly Once)				
	Sapodila	5			
	Watermelon	10			
	Muskmelon	10			
	Litchi	10			
	Pomegranate	10			
	Figs	10			
	Yam	10			
	Apple	10			
Orange	5				
Grapes	10				

## Diet chart of Cockatoo/Individual /Day

Diet chart of Cockatoo / Head/Day			Diet chart of Cockatoo / Head/Day		
	Feed Item	Amount/Head (gm)		Feed Item	Amount/Head (gm)
<b>VEGETABLES</b>	Ladies Finger	10	<b>NUTS</b>	Roasted Peanuts	5
	Bitter gourd	5		Almond	2
	Pumpkin	5			
	Carrot	5	<b>SEEDS</b>	Sunflower seeds	2
	Raw Green Chillies	10		Pumpkin Seeds	2
	Red , Yellow, Green Bell Pepper	10		Watermelon Seeds	2
	Corn Cob	10		Canary Seeds	25
	Sweet Potato	10		Paddy	2
	Yard-long Bean	5		White Millet	1
	Gourd	5		Red Millet	1
	Pointed Gourd	5		Yellow Millet	1
	Spinach	5		Hulled Oats	2
	Broccoli	5		Safflower	2
	Beet Root	5			
		<b>WORM</b>	Mealworm	2	
<b>SOFT FOOD</b>	Boiled Egg	5	<b>TREATS</b>	Hibiscus Petal	1pc
	Brown Rice	5		Neem Leaves	2pc
	<b>Sprout</b>			Basil Leaves	2pc
	Sunflower	3		Kalmegh	2pc
	Gram	3			
	Mung Bean	3	<b>SUPPLEMENTS</b>	Calcium (10gm in1 kg )	
	Corn	3		Mineral ( 5gm in 1 Kg)	
	Chikpea	3		Rex Oil ( 2.5ml in 1 kg)	
	Whole Yellow Peas	3		Black Tea	
	Wheat	3			
	Sapodila	5			
	Watermelon	10			
	Muskmelon	10			
	Litchi	10			
	Pomegranate	10			
	Figs	10			
	Yam	10			
	Apple	10			
	Orange	5			
Grapes	10				

## 14. Vaccination Schedule of animals

Deworming and Vaccination schedule of Animals is approved by Health Advisory committee and West Bengal Zoo Authority through a review meeting on Animal Health, Diet, Biosecurity of Harinalaya, Newtown, Kolkata held on 21<sup>st</sup> May,2024 at Harinalaya. Issued by memo no: 797/1-3/Animal, dated : 05.06.2024 of of Ex-Officio Director, Harinalaya, Urban Recreation Forestry Division office.

Group	Vaccine	Dosage	Comments
Callitrichids (marmosets and tamarins)	Tetanus(adsorbed human product or equine product)	0.1 mL, IM, every 5 years	
	Rabies (killed vaccine)	1.0 mL, SC, annually	Only if there is a risk of exposure in the facility.
Cebidae (capuchin)	Tetanus (same products as other species)	0.5 mL, IM, every 5 years	
	Rabies (killed vaccine)	1.0 mL, IM or SC, annually	Only if there is a risk of exposure in the facility
Apes (gibbons)	Tetanus (same products as for other species)	0.5 mL, IM, every 5 years	
	Rabies (killed vaccine)	1.0 mL, IM or SC, annually	
	Measles (MMR vaccine)	IM	First dose at 4–6 months old, booster in 6 months, then at 6–7 years. Do not vaccinate pregnant animals. This vaccine may lead to a false-positive intradermal TB test.
Birds (Pheasants)	RD	*RD Vaccine -F1 strain at the age of 7-8 days,I/O or I/N *RD vaccine booster - LaSota Strain at the	RD Vaccine - LaSota repeated every 6month interval

		age of 28-30 days, Drinking water *RD Vaccine booster- R2B Mesogenic Strain at more than 8 week or older age,0.5ml,I/M	
	Avian Pasteurellosis	1.0 mL, IM or SC, every 6 months	
Water Birds	Duck Plague	1.0 mL, IM or SC, every 6 months	1 <sup>st</sup> dose at 5 <sup>th</sup> to 6 <sup>th</sup> week (repeat after 6 month at epidemic zone ) and then once in a year.
	Duck Cholera	1.0 mL, IM or SC, every 6 months	
Primates, Zebra	Tetanus Toxoid		As and when required
Mostly all Herbivores, Primates & Avian (selective)	Chemoprophylaxis for Tuberculosis	July-October	May repeat if necessary
Cervid	HaemorrhagicSepticaemia	Nov-December	Once in a year (If incident of outbreak confirmed.)
Bird	FD RD R2B	Nov-January	Once in a year
Bird	RDB1 Strain		During Epidemic
Bird	FDRDF Strain/La-sota		For Newly arrival birds
Feline	Canine Distemper in Feline	June-July & December-January	Twice in a year
Feline	Vaccination against Feline Panleukopenia Virus, Herpes Virus, Calci Virus,	Jan-Feb	Once in a year
Canine	DHPPIL	Feb-March	Once in a year
Canine & Feline	Rabies	As per pre-bite schedule	Once in a year

## 15. De-worming Schedule of Animals

Species/ Class	Drugs used	De-worming Schedule	Variation	Dose
-------------------	------------	------------------------	-----------	------

Herbivores	<ul style="list-style-type: none"> <li>Albendazole</li> <li>Fenbendazole</li> <li>Ivermectin</li> </ul>	<ul style="list-style-type: none"> <li>Quarterly February</li> <li>May</li> </ul>	<ul style="list-style-type: none"> <li>On specific diagnosis for Helminthiasis in particular animal/s</li> </ul>	<ul style="list-style-type: none"> <li>Albendazole: 5mg/kg body wt.</li> <li>Fenbendazole: 5mg/kg</li> </ul>
	<ul style="list-style-type: none"> <li>Oxyclozanide</li> <li>Levamisole</li> </ul>	<ul style="list-style-type: none"> <li>August,</li> <li>November</li> </ul> <p>➤ As single dose</p>		<ul style="list-style-type: none"> <li>Body wt.</li> <li>Ivermectin: 0.2 mg/kg body wt.</li> <li>Oxyclozanide: 10-15 mg/kg body wt.</li> <li>Levamisole: 7.5 mg/kg body wt.</li> </ul>
Carnivores	<ul style="list-style-type: none"> <li>Albendazole</li> <li>Fenbendazole</li> <li>Levamisole</li> <li>Praziquantel</li> <li>Pyrantel Pamoate/Embonate</li> <li>Febantel</li> </ul>	<ul style="list-style-type: none"> <li>Quarterly (February, May, August, November)</li> <li>Once a day for 3 days</li> </ul>	<ul style="list-style-type: none"> <li>On specific diagnosis for Helminthiasis in particular animal/s</li> <li>Combination of 2 or more drugs</li> </ul>	<ul style="list-style-type: none"> <li>Albendazole: 10-15 mg/kg body wt.</li> <li>Fenbendazole: 50 mg/kg body wt.</li> <li>Levamisole: 7.5 mg/kg body wt.</li> <li>Praziquantel: 7.5 mg/kg body wt.</li> </ul>
Primates	<ul style="list-style-type: none"> <li>Albendazole</li> <li>Fenbendazole</li> <li>Ivermectin</li> <li>Oxyclozanide</li> <li>Levamisole</li> </ul>	<ul style="list-style-type: none"> <li>Quarterly (February, May, August, November)</li> <li>As single dose</li> </ul>	<ul style="list-style-type: none"> <li>On specific diagnosis for Helminthiasis in particular animal/s</li> <li>Combination of 2 or more drugs</li> </ul>	<ul style="list-style-type: none"> <li>Albendazole: 25 mg/kg body wt.</li> <li>Fenbendazole: 20-50 mg/kg body wt.</li> <li>Ivermectin: 0.2 mg/kg body wt.</li> <li>Oxyclozanide</li> <li>Levamisole: 5-10 mg/kg body wt.</li> <li>Praziquantel: 15-40 mg/kg body wt.</li> <li>Pyrantel Pamoate: 1mg/kg body wt.</li> </ul>
Birds	<ul style="list-style-type: none"> <li>Albendazole</li> <li>Fenbendazole</li> <li>Levamisole</li> <li>Praziquantel</li> <li>Piperazine</li> </ul>	<ul style="list-style-type: none"> <li>Quarterly (February, May, August, November)</li> <li>As single dose</li> </ul>	<ul style="list-style-type: none"> <li>On specific diagnosis for Helminthiasis in particular animal/s</li> <li>Combination of 2 or more drugs</li> </ul>	<ul style="list-style-type: none"> <li>Fenbendazole: 7.5 mg/kg body wt.</li> <li>Levamisole: 7.5 mg/kg body wt.</li> <li>Praziquantel: 10-15 mg/kg body wt.</li> </ul>
Reptiles	<ul style="list-style-type: none"> <li>Albendazole</li> <li>Fenbendazole</li> <li>Ivermectin</li> </ul>	<ul style="list-style-type: none"> <li>Initially in 7 days interval</li> <li>Quarterly (February, May, August, November)</li> </ul>	<ul style="list-style-type: none"> <li>On specific diagnosis for Helminthiasis in particular animal/s</li> <li>Combination of 2 or more drugs</li> </ul>	<ul style="list-style-type: none"> <li>Albendazole</li> <li>Fenbendazole: 25-50 mg/kg body wt.</li> <li>Ivermectin: 0.2 mg/kg body wt. S/c ly Inj.</li> </ul>

		• As single dose		
--	--	------------------	--	--

## 16. Disinfection Schedule

Disinfection schedule of Animals is approved by Health Advisory committee and West Bengal Zoo Authority through a review meeting on Animal Health, Diet, Biosecurity of Harinalaya, Newtown, Kolkata held on 21<sup>st</sup> May,2024 at Harinalaya. Issued by memo no: 797/1-3/Animal, dated : 05.06.2024 of Ex-Officio Director, Harinalaya, Urban Recreation Forestry Division office.

Name of disinfectant	Dosage of disinfectant	Application
Vircon S	10 gm /l lit water	Weekly once spray all over the enclosures
Virocid	5 ml /l lit water	Weekly once spray all over the enclosures
Mixture of CH <sub>3</sub> COOH, CuSO <sub>4</sub> , H <sub>2</sub> O	CH <sub>3</sub> COOH – 400ml , H <sub>2</sub> O- 600ml CuSO <sub>4</sub> – 50gm In 1 lit Solution	Whenever needed
Potassium Permanganate	2% Potassium Permanganate	Foot Bath, Cleaning and disinfection of Equipment daily.

## 17. Health Check-up of employees for zoonotic diseases

Zoonotic disease camps were conducted in collaboration with Bidhannagar SD Hospital, Saltlake, Kolkata since 22.04.2024 phase wise. Health Checkup for the following disease are done.

1. Tuberculosis Bacteria Test
2. Anti Rabies vaccine

3. Chest X-ray
4. Blood Pressure
5. Blood Sugar
6. De-worming

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

1. Construction of Toucan Aviary and supply of stainless steel for Toucan Aviary, technical sanction of Member Secretary, WBZA vide memo no. 1174/WBZA/D-26/23-24, dated: 09.02.2024
2. Construction of Sitting Platform near Gibbon enclosure technical sanction of Member Secretary, WBZA vide memo no. 1128/WBZA/D-26/23-24, dated: 01.02.2024
3. Renovation work of Food Store, technical sanction of Member Secretary, WBZA vide memo no. 1236/1//WBZA/D-26/23-24, dated: 29.02.2024
4. Supply and Installation of 50 KWP roof top Solar power plant (Grid Mode ), technical sanction of Member Secretary, WBZA vide memo no. 1035/WBZA/D-26/23-24, dated: 10.01.2024
5. Extension of Visitors pathway shed between Hippo and Zebra enclosure, technical sanction of Member Secretary, WBZA vide memo no. 769/WBZA/D-26/23-24, dated: 17.01.2023
6. Construction of tiger enclosure Paddock & Night Shelter as per CZA approval vide computer no. 147583 dated: 18.01.2025 of the Member Secretary, CZA, technical sanction of Member Secretary, WBZA vide memo no. 1268/1/WBZA/D-26/23-24, dated:

06.03.2024

7. Extension of visitors pathway shed beside food court, technical sanction of Member Secretary, WBZA vide memo no. 769/WBZA/D-26/23-24, dated: 17.01.2023
8. Construction of sewerage and drainage system, phase-II ( Carnivore Section ), technical sanction of Member Secretary, WBZA vide memo no. 1210/1/WBZA/D-26/23-24, dated: 20.02.2024



Construction of Toucan Aviary and supply of stainless steel for Toucan



Construction of Sitting Platform near Gibbon enclosure



Supply and Installation of 50 KWP roof top Solar power plant ( Grid Mode)



Renovation work of Food Store



Extension of visitors pathway shed between Hippo and Zebra enclosure



Construction of Paddock of Tiger enclosure



Construction of Night Shelter of Tiger Enclosure



Extension of visitor's pathway shed beside Food Court



Construction of sewerage & drainage system, phase-II

## 19 Education and Awareness programmes during the year

Date	Name of the School/Institution	Number of Students	Number of Teaching & Non teaching Staff
13.08.2024	Eueo kids	47	6
16.08.2024	Bengal Tiger army preprimary school	36	4
18.11.2024	SPK Jain Futuristic Academy	35	10
30.09.2024	Bengal Tiger Army Pre-primary School	36	4
03.12.2024	Euro Kids	25	7
03.12.2024	Little Steps School	17	2
04.12.2024	The Bhawanipur Gujrati Education Society	29	2
06.12.2024	Springdale High School	113	11
09.12.2024	Springdale High School	109	11
09.12.2024	The BSS School	131	10
10.12.2024	The BSS School	127	10
10.12.2024	Springdle High School	109	11
11.12.2024	Springdle High School	94	13
11.12.2024	The BSS School	151	10
13.12.2024	Springdle High School	123	12
13.12.2024	The BSS School	160	10
16.12.2024	The BSS School	66	11
17.12.2024	The BSS School	73	10
08.01.2025	Montessori St. Xavier School	65	9
11.01.2025	St. Jones School	61	10
16.01.2025	Junior Delhi School	25	10
17.01.2025	Sri Aurobindo Siksha Sadan	120	20
17.01.2025	Star kids Pre School	91	24
17.01.2025	Crescent Academy	61	4
17.01.2025	Bishop George School	464	24
18.01.2025	Indira Gandhi Memorial School	175	10
20.01.2025	St. Stephen School	162	17
22.01.2025	Kangaroo Kids	48	34
22.01.2025	Little Millennium pre school	19	9
22.01.2025	DRL School	79	11
22.01.2025	Indira Gandhi Memorial School	150	32
28.01.2025	Bridge international School	77	11
31.01.2025	Calcutta International School	54	10
01.02.2025	Calcutta International School	83	10
10.02.2025	DPS School	309	25
10.02.2025	The New Town School	131	20
12.02.2025	NGO AHED	55	6
13.02.2025	Narayana School Barasat	60	8

14.02.2025	Greenfield Academy	47	9
14.02.2025	Kangaroo Kids	11	6

## 20. Important Events and happenings

### WORLD ENVIRONMENT DAY

Date: 5<sup>th</sup> June, 2024





**World Giraffe Day**

Date: 21th June, 2024





**Celebration of Ek Ped Maa Ke Naam Campaign**

Date : 29<sup>th</sup> June, 2024



**Banmahotsav Celebration**  
Date: 19.07.2024



**Swachh Bharat Mission**

Date: 2<sup>nd</sup> October, 2024





**International Zebra Day**

Date: 31<sup>st</sup> January, 2024



## **21. Seasonal special arrangements for upkeep of animals**

### **a) Care for animals during summer**

- Using Sprinkler time to time to all primate's enclosures and aviaries to minimize the heat stress.
- Hanging of Khas-khas curtain and gunny bags to mitigate scorching heat and sprinkle water to khas-khas time to time.
- Providing ORS and summer-suitable diet to all animals
- Providing more shades for the animals with organic material.
- Installation of air coolers in enclosures to reduce heat stress.
- Sprinkle water to the paddock of Giraffe and Zebra enclosure weekly twice.
- Using aquatic vegetation (with proper maintenance) in both saltwater and Marsh crocodile enclosure to keep water body cool.
- Covering top shed of enclosures with straw to protect them from excessive heat wave.

### **b) Care for animals during monsoon**

- Disinfection of enclosures are done more frequent
- Making sheds for animals to protect them from heavy rainfall.

### **c) Care for animals during winter**

- Provide enough housing to all animals
- Provide straw bedding inside the rest shed of all primates enclosures and aviaries to keep them warm.
- Covering rest shed of all primate enclosure with gunny bags or blanket to

protect them from cold.

- Providing proper substance as bedding for reptiles during hibernation

- Heating as and when required.

## 22. Research Work carried out and publications

A case report on *Trichophyton spp.* Infection in Red- Tailed Monkey (*Cercopithecus ascanius*) at Harinalaya is published in Indian Zoo Year Book, 2025 Presented by VANTARA in association with Central Zoo Authority.

## 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*) as selected in the 20<sup>th</sup> Governing Board Meeting of West Bengal Zoo Authority, held on 06.08.2021 and approved by 21<sup>st</sup> Technical Committee Meeting of West Bengal Zoo Authority held on 11.04.2022.

## 24. Animal acquisition / transfer / exchange during the year

Acquisition of rescue animals is under process of approval from competent authority.

B. Animals going from the zoo					
SL. No	Memo No.	Species	No. (M:F:U)	Going to which Zoo	Date of arrival of zoo

1.	Challan no : 5607/57, dated- 13.03.2025 as per direction from MS, WBZA vide memo no. 230/WBZA/T- 35/24-25, dated- 21.02.2025	Blue & Yellow Macaw	2:2:0	Junglemahal Zoological Park, Jhargram	23.02.2022
2.	Challan no : 5607/57, dated- 13.03.2025 as per direction from MS, WBZA vide memo no. 230/WBZA/T- 35/24-25, dated- 21.02.2025	Lesser Sulphur crested cockatoo	1:1:0	Junglemahal Zoological Park, Jhargram	26.02.2022

## 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
1.	01.04.2024	Hoolock Gibbon 0:2:0:2	Seized; source undetected.	31.05.2024	From 31.05.2024 at Harinalaya Mini Zoo	Found unlikely to survive in the wild
2.	05.08.2024	Giant Squirrel 0:1:1:2	Seized; source undetected.	07.09.2024	From 07.09.2024 at Harinalaya Mini Zoo	Found unlikely to survive in the wild

3.	05.08.2024	Golden langur 0:2:0:2	Seized; source undetected.	09.09.2024	From 09.09.2024 at Harinalaya Mini Zoo	Found unlikely to survive in the wild
----	------------	--------------------------	----------------------------------	------------	---	--

## 26. Annual Inventory

**FORM-II**  
**[See rule 11 (1)]**

**PART - A**

**Harinalaya at Eco Park (Nature Park At Taratola Road), Kolkata, West Bengal**

Proforma for Annual Inventory Report

Inventory Report for the Year : 2024-2025

**Endangered Species\***

**# - Modified Closing Balance**

S.No.	Animal Name	Scientific Name	Opening Stock (01-Apr-2024)				Births			Acquisitions			Disposals			Deaths			Closing Stock (31-Mar-2025)							
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T				
<b>Mammalia</b>																										
1.	Hoolock Gibbon	<i>Hoolock hoolock</i>	1	1	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	3	0	4
2.	Malabar Giant Squirrel (Indian Giant Squirrel)	<i>Ratufa indica</i>	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	2
3.	Gee's Golden Langur (Golden Langur)	<i>Trachypitecus geei</i>	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	1	3
<b>Total Mammalia</b>		<b>3</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>6</b>	<b>2</b>	<b>9</b>	
<b>Reptilia</b>																										
1.	Marsh Crocodile	<i>Crocodylus palustris</i>	3	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	2	0	3

S.No.	Animal Name	Scientific Name	Opening Stock (01-Apr-2024)				Births			Acquisitions			Disposals			Deaths			Closing Stock (31-Mar-2025)								
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T					
2.	Saltwater Crocodile	<i>Crocodylus porosus</i>	1	3	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	4
Total Reptilia	2		4	5	0	9	0	0	0	0	0	0	0	0	0	0	2	0	0	2	5	0	7				
Total			5	6	0	11	0	0	1	0	5	1	0	0	0	2	0	0	3	11	2	16					

\*Animals under Sch-I and Sch-II of Wild Life (Protection) Act, 1972

Curator (Animals)

  
Director

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

Proforma for Annual Inventory Report  
Inventory Report for the Year : 2024-2025

Other than Endangered Species\*

**# - Modified Closing Balance**

S.No.	Animal Name	Scientific Name	Opening Stock (01-Apr-2024)				Births			Acquisitions			Disposals			Deaths			Closing Stock (31-Mar-2025)													
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T										
<b>Aves</b>																																
1.	Chinese Goose		3	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4			
2.	Orange-winged Amazon, Orange-winged Parrot	<i>Amazona amazonica</i>	14	6	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	13	4	0	17
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	0	0	0	0	0	0	0	1	1		
4.	Blue-and-gold Macaw, Blue-and-yellow Macaw	<i>Ara ararauna</i>	8	11	0	19	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	6	9	0	15			

S.No.	Animal Name	Scientific Name	Opening Stock (01-Apr-2024)				Births			Acquisitions			Disposals			Deaths			Closing Stock (31-Mar-2025)											
			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>	2	1	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	4
6.	Scarlet Macaw	<i>Ara macao</i>	4	0	2	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	2	6
7.	Umbrella Cockatoo, White Cockatoo	<i>Cacatua alba</i>	4	2	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	0	6	
8.	Greater Sulphur-crested Cockatoo, Sulphur-crested Cockatoo	<i>Cacatua galenta</i>	3	3	0	6	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	2	0	4						
9.	Lesser Sulphur-crested Cockatoo, Yellow-crested Cockatoo	<i>Cacatua sulphurea</i>	4	2	0	6	0	0	0	0	0	0	1	1	0	0	0	0	0	0	3	1	0	4						
10.	Red-tailed black cockatoo, Red-tailed Black-Cockatoo	<i>Calyptorhynchus banksii</i>	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	
11.	Dwarf Cassowary	<i>Casuarus bennetti</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	

S.No.	Animal Name	Scientific Name	Opening Stock (01-Apr-2024)				Births			Acquisitions			Disposals			Deaths			Closing Stock (31-Mar-2025)							
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T				
12.	Southern Cassowary	<i>Casuarus casuarus</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
13.	Golden Pheasant	<i>Chrysolophus pictus</i>	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	
14.	Abdim's Stork	<i>Ciconia abdimii</i>	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
15.	Black Swan	<i>Cygnus atratus</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	
16.	Eclectus Parrot	<i>Eclectus roratus</i>	2	3	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	5	
17.	Harlequin Duck	<i>Histrionicus histrionicus</i>	5	4	0	9	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	5	3	0	8	
18.	Black-capped Lory, Western Black-capped Lory	<i>Lorius lory</i>	13	9	0	22	0	0	0	0	0	0	0	0	0	0	0	1	0	0	12	9	0	21		
19.	Orinoco Goose	<i>Oressochen jubatus</i>	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1		
20.	Alexandrine Parakeet	<i>Psittacula eupatria</i>	3	5	0	8	0	0	0	0	0	0	0	0	0	0	0	1	2	0	2	3	0	5		
21.	Rose-ringed Parakeet	<i>Psittacula krameri</i>	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	4		
22.	Grey Parrot, Jacquot	<i>Psittacus enthacus</i>	6	6	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6	0	12		
<b>Total Aves</b>			<b>22</b>				<b>75</b>	<b>67</b>	<b>5</b>	<b>147</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>6</b>	<b>8</b>	<b>0</b>	<b>66</b>	<b>56</b>	<b>5</b>	<b>127</b>
<b>Mammalia</b>																										
1.	Chital/ Spotted Deer	<i>Axis axis</i>	12	17	5	34	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	14	20	5	39	

S.No.	Animal Name	Scientific Name	Opening Stock (01-Apr-2024)				Births			Acquisitions			Disposals			Deaths			Closing Stock (31-Mar-2025)						
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T			
2.	Common Marmoset	<i>Callithrix jacchus</i>	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	1	3	0	4
3.	Black-capped Capuchin, Tufted Capuchin	<i>Cebus apella</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
4.	Black-cheeked White-nosed Monkey, Red-tailed guenon, Red-tailed Monkey, Redtail Monkey, Schmidt's Guenon	<i>Cercopithecus ascanius</i>	1	4	0	5	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	1	0	1	
5.	Grant's Zebra	<i>Equus quagga boehmi</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	
6.	Northern Giraffe	<i>Giraffa camelopardalis</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
7.	Common hippopotamus, Hippopotamus, Large Hippo	<i>Hippopotamus amphibius</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
8.	Golden-headed Lion Tamarin	<i>Leontopithecus chrysomelas</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	
9.	Indian Muntjac	<i>Muntiacus muntjak</i>	0	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	5	

S.No.	Animal Name	Scientific Name	Opening Stock (01-Apr-2024)				Births			Acquisitions			Disposals			Deaths			Closing Stock (31-Mar-2025)				
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T	
10.	Sugar Glider	<i>Petaurus breviceps</i>	4	6	6	16	0	0	0	0	0	0	0	0	0	0	0	0	0	4	6	6	16
11.	Geoffroy's Tamarin, Red-bellied Tamarin, Red-chested mustached tamarin, Red-chested Tamarin, White-lipped Tamarin	<i>Saguinus labiatus</i>	2	2	0	4	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0	2
<b>Total Mammalia</b>	<b>11</b>		<b>24</b>	<b>38</b>	<b>11</b>	<b>73</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>6</b>	<b>0</b>	<b>25</b>	<b>38</b>	<b>11</b>	<b>74</b>	
<b>Total</b>			<b>99</b>	<b>105</b>	<b>16</b>	<b>220</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>8</b>	<b>14</b>	<b>0</b>	<b>91</b>	<b>94</b>	<b>16</b>	<b>201</b>	
<b>Grand Total</b>			<b>104</b>	<b>111</b>	<b>16</b>	<b>231</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>8</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>10</b>	<b>14</b>	<b>0</b>	<b>94</b>	<b>105</b>	<b>18</b>	<b>217</b>	

Curator (Animals)

  
Director

## 27. Mortality of Animals

Sl No.	Animal Name	Scientific Name	Sex	Date of Death	Cause of Death
1	Mute Swan	<i>Cygnus olor</i>		01.04.2024	Due to suggestive of acute interstitial pneumonia resulting from candida spp.
2	Harlequin Duck	<i>Histrionicus histrionicus</i>	F	01.04.2024	Due to dehydration & respiratory failure
3	Black Swan	<i>Cygnus atratus</i>	M	01.04.2024	Due to suggestive of acute interstitial pneumonia resulting from candida spp.
4	Barnacle goose	<i>Branta leucopsis</i>	M	03.04.2024	Cardio-respiratory failure due to electrolyte imbalance.

5	Barnacle Goose	<i>Branta leucopsis</i>	M	08.04.2024	Trauma on breast, liver and clotted blood on heart.
6	Orinico Goose	<i>Neochen jubata</i>		10.04.2024	Due to concomitant infection of staphylococcus aureus and candida spp.
7	Chinese Goose	<i>Anser cygnoid</i>		13.04.2024	Due to concomitant infection of staphylococcus aureus and candida spp.
8	Marsh Crocodile	<i>Crocodylus palustris</i>	M	19.04.2024	May be due to respiratory failure & trauma due to infighting.
9	Greater Sulpher crested cockatoo	<i>Cacatua galerita galerita</i>	F	23.04.2024	Fear, severe trauma on right toe resulting cardiac shock.
10	Grant's Zebra	<i>Equus quagga</i>	F	04.05.2024	Death may be due to asphyxia from severe accidental injury.
11	Greater Sulpher crested cockatoo	<i>Cacatua galerita galerita</i>	M	01.06.2024	Died due to asphyxia for choking food into esophageal junction.

12	White-lipped baby Tamarin	<i>Saguinas Labiatus</i>	F	27.06.2024	Due to acute interstitial pneumonia and liver abscess from aspergillus infection.
13	Red-tailed Monkey	<i>Ceropithecus ascanius</i>	M	16.07.2024	Died due to severe hemorrhage with hypovolemic shock & cardiac failure.
14	Red-tailed Monkey	<i>Ceropithecus ascanius</i>	M	18.07.2024	Asphyxia & respiratory failure.

15	White-lipped baby Tamarin	<i>Saguinas Labiatus</i>	M	01.08.2024	Congenital defect suspected due to Inbreeding and anorexia.
16	Red-tailed Monkey	<i>Ceropithecus ascanius</i>	F	20.09.2024	Due to multiple liver abscesses.
17	Barnacle Goose	<i>Branta leucopsis</i>	M	13.10.2024	Respiratory failure due to rupture of diaphragm.
18	Marsh Crocodile	<i>Crocodylus palustris</i>	M	10.11.2024	Respiratory failure due to necrosis of lungs.
19	Red-tailed Monkey	<i>Ceropithecus ascanius</i>	M	08.12.2024	Due to hepatic granuloma with interstitial pneumonia.

20	Lory	<i>Loriini Sp.</i>	M	18.12.2024	Excessive loss of blood due to severe injury & hypovolemic shock resulting hypoxia.
21	Golden Pheasant	<i>Chrysolophuspictus</i>	Female	21.12.2024	Internal severe hemorrhage(ce rvical)
22	Golden headed lion tamarin	<i>Leontopithecus chrysomehas</i>	F	23.01.2025	Severe anemia & shock & multi organ failure.
23	Alexandrin e parakeet	<i>Psittacula eupatria</i>	F	09.02.2025	Loss of blood due to injury & shock.
24	Alexandr ine parakeet	<i>Psittacula eupatria</i>	F	09.02.2025	Hypovolemic shock due to loss of blood through injury
25	Alexandr ine parakeet	<i>Psittacula eupatria</i>	M	15.02.2025	Internal hemorrhage with severe anemia
26	Amazon Parrot	<i>Amazonas spp.</i>	M	08.03.2025	Anemia due to round worm infestation with loss of blood.
27	Amazon Parrot	<i>Amazonas spp.</i>	F	14.03.2025	Tapeworm infestation resulting anemia & diarrhoea .
28	Amazon parrot	<i>Amazonas spp.</i>	F	27.03.2025	Hypovolemic shock due to severe blood loss for infighting.

## 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 7<sup>th</sup> 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 19<sup>th</sup> August, 2021

Sr. No.	Norm No.	Particulars of suggestions/ recommendation	Time Period to Comply	Remarks
<b>3. Development and Planning</b>				
1.	10.3(3)	Disaster management mock drill should be carried out.	One month	Complied
<b>4. Animal housing, display of animals and animal enclosures</b>				
2.	10.4(2)	Live screens should be developed in a planned manner between <i>pucca</i> buildings and visitor facilities.	Six months	Complied
3.	10.4(7)	Screening should be developed between adjoining enclosures by way of plantation.	Six months	Complied
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	Complied (Approval sought vide memo no 970/1-3 dated 29.08.2023)

				of Ex-officio Director, Harinalaya & DCF/URF)
5.	10.4(10)	More educational signages with important details near the enclosure of animals should be displayed	Three months	Complied
<b>5. Upkeep and healthcare of animals</b>				
6.	10.5 (9)	All staff involved with upkeep and healthcare of zoo animals should be screened against zoonotic diseases once every year.	Three months	Complied
<b>6. Veterinary and Infrastructure facilities</b>				
7.	10.6(1)	Sufficient medical equipment and storage facilities should be provided in the zoo.	Three months	Complied
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	Complied with; To be shifted for planned expansion of the Zoo
<b>11. Educational and outreach activities</b>				
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

## 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	:	<i>Halcyon smyrnensis</i>
20. Common Kingfisher	:	<i>Alcedo atthis</i>
21. Green Bee-eater	:	<i>Merops orientalis</i>
22. Lineated Barbet	:	<i>Psilopogon lineatus</i>
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>Dendrocitta vagabunda</i>
32. House Crow	:	<i>Corvus splendens</i>
33. Red-whiskered Bulbul	:	<i>Pycnonotus jocosus</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>Acridotheres fuscus</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>Copsychus saularis</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    | : | <i>Pachliopta aristolochiae</i> |

**Family: Pieridae**

- |                          |   |                            |
|--------------------------|---|----------------------------|
| 6. Mottled Emigrant      | : | <i>Catopsilia pyranthe</i> |
| 7. Common Emigrant       | : | <i>Catopsilia pomona</i>   |
| 8. Common Jezebel        | : | <i>Delias eucharis</i>     |
| 9. Psyche                | : | <i>Leptosia nina</i>       |
| 10. Indian Cabbage White | : | <i>Pieris canidia</i>      |
| 11. Common Wanderer      | : | <i>Pareronia valeria</i>   |
| 12. Common Grass Yellow  | : | <i>Eurema hecabe</i>       |

**Family: Lycaenidae**

- |                     |   |                     |
|---------------------|---|---------------------|
| 13. Striped Pierrot | : | <i>Tarucus nara</i> |
| 14. Tiny Grass Blue | : | <i>Zizula hylax</i> |

**Family: Nymphalidae**

- |                          |   |                            |
|--------------------------|---|----------------------------|
| 15. Common Bushbrown     | : | <i>Mycalesis perseus</i>   |
| 16. Common Five-ring     | : | <i>Ypthima baldus</i>      |
| 17. Common Four-ring     | : | <i>Ypthima huebneri</i>    |
| 18. Tawny Coster         | : | <i>Acraea violae</i>       |
| 19. Danaid Eggfly        | : | <i>Hypolimnas misippus</i> |
| 20. Blue Tiger           | : | <i>Tirumala limniace</i>   |
| 21. Striped Tiger        | : | <i>Danaus genutia</i>      |
| 22. Plain Tiger          | : | <i>Danaus chrysippus</i>   |
| 23. Common Indian Crow   | : | <i>Euploea core</i>        |
| 24. Common Evening Brown | : | <i>Melanitis leda</i>      |

