

**Zoological  
Garden  
Alipore  
Kolkata**

**Annual Report  
2023-24**

# ANNUAL REPORT 2023-24



**Zoological Garden Alipore, Kolkata**



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# 01 Report from the Director's Desk

The Annual Report of the Zoological Garden, Alipore, Kolkata for the year 2023-2024 is published with a hope of sustainable development. In 2024 we have stepped into the pre-sesquicentennial year of Zoological Garden, Alipore. This Zoo has achieved tremendous successes on captive breeding of different types of animal e.g Black Vulture, Brow-antlered Deer, Barking Deer, Spotted Deer, Marsh crocodile, wild dog, lutino parakeet, monitor lizard etc. Many of these animals belong to Schedule-I under Wildlife (Protection) Act, 1972 and are listed in IUCN Red List.

Constant sincere effort was made to maintain the animal health of the Zoo. Besides a Zoo Biologist, a Research Assistant and Zoo Educator were appointed during this financial year to monitor the records, enclosure enrichment, and behavioural data of the inmates etc. and fulfil educational objectives of the Zoo respectively.

Fascinating greenery, gardening and landscaping added attraction to the visitors of the Zoo. Modifications have been made into many enclosures and aviaries making them more comfortable for the inmates and more visually appealing to the visitors. The annual footfall during the year hovered around 34lac visitors and adjudged as the most visited tourist attraction of Kolkata during the year.

The Annual Report for the year 2023 -

2024 of Zoological Garden, Alipore provides all zoo enthusiasts and others about various aspects of management as well as developmental activities undertaken in the Zoo. I am optimistic that Zoological Garden, Alipore will continue to develop and grow as one of the best managed Zoos of the country.

I extend my sincere thanks to Sri Vivek Kumar, IAS, Addl. Chief Secretary, Department of Forests, Government of West Bengal, Sri Niraj Singhal, IFS, Principal Chief Conservator of Forests & Head of the Forest Force and Sri Debal Roy, IFS, Principal Chief Conservator of Forests, Chief Wildlife Warden, Govt. of West Bengal, Sri Saurabh Chaudhuri, IFS, Addl. Principal Chief Conservator of Forests and Member Secretary of West Bengal Zoo Authority and also all senior officers of Department of Forests, Government of West Bengal and Central Zoo Authority for their support and co-operation in successfully managing the Zoological Garden, Alipore in a best possible manner under the given situation. I also extend my thanks to all the officers and staffs of the Zoological Garden, Alipore for their immense support in making Alipore zoo one of the most sought after place to visit in Kolkata.



Subhankar Sen Gupta, IFS  
Director,  
Zoological Garden, Alipore

# 02 History of the Zoo

Since its founding on September 24, 1875, the Alipore Zoological Garden has gone through numerous phases. The inhabitants of Kolkata were generous in their support of the Zoo's establishment, both financially and by donating animals from their own collections to the Zoo which helped a lot in getting the zoo settled.

Thereafter, land development began, and animal homes were built to house the animals. The first animal house built within the Zoo was "Mullick House," which was funded by Raja Rajendra Mullick Bahadur, the first Indian patron. This house was home to fowls and pheasants, which began breeding as early as February 1876. Following Mullick House, Burdwan House, now known as an open-air moated enclosure for lions, was built at a cost of Rs.35,000/-, with the Maharaja of Burdwan donating the entire sum. Other animal houses/enclosures developed over time, each bearing the name of a kind donor.

Mr. Schwendler and the famed botanist Mr. George King served in the honorary governing committee that oversaw the park's early operations. Rai Bahadur Ram Brahma Sanyal, the zoo's first Indian superintendent, did much to boost the zoo's reputation and achieved good captive breeding success at an era when such endeavours were uncommon. A live birth of the rare Sumatran Rhinoceros in 1889 was one of the zoo's many successes.

The following pregnancy in captivity took place in 1997 at the Cincinnati Zoo, but it

resulted in a miscarriage. In 2001, the Cincinnati Zoo finally reported a live birth. Sanyal, who published the first handbook on captive animal keeping, made Alipore Zoo a pioneer among zoos in the 19th century and early part of the 20th century.

Since inception, the zoo had an extraordinarily high scientific quality which has been maintained till date.

After the establishment of Central Zoo Authority in India in the year 1992, open air moated enclosures for primates, white tiger, Indian elephants, Indian lions and mugger, gharial & salt water crocodile were constructed with the financial help of Central Zoo Authority. During this period, remodelling of open-air moated enclosure for hippopotamus, Zebra, Chimpanzee, was also carried out with the financial assistance of Government of West Bengal.

Since shifting of management of the Zoological Garden, Alipore from the Management Committee to the West Bengal Zoo Authority in the month of August, 2009, several developmental activities started at the Zoo and because of those activities face of the zoo changed enormously. Several outlived animal house like "Echidna House", "Balaram House", "Kiosk House", "Jungle Fowl Enclosure", "Cat Cage", "Leanto Shed" etc. were demolished and new enclosures built. Also, species specific enrichment work has been done for different enclosures.

# 03 About Us

Particulars	Information
<b>Basic Information About the Zoo</b>	
01 Name of the Zoo	Zoological Garden, Alipore, Kolkata
02 Year of Establishment	1875
03 Address of the Zoo	2 No. Alipore Road, Kolkata-700027, West Bengal, India
04 State	West Bengal
05 Telephone Number	For Animal adoption – 6292336680 / 6292336681 For General queries about zoo - 6292336682 / 6292336683 Any queries about ticket related issues - 6292336684
07 E-mail Address	Director: <a href="mailto:director@kolkatazoo.in">director@kolkatazoo.in</a>
08 Website	<a href="http://www.kolkatazoo.in">http://www.kolkatazoo.in</a>
09 Distance from nearest	Airport: 17.4 km Railway Station: 7 km Bus Stand: 0 km
10 Recognition valid up to (Date)	19.08.2023(Pending with CZA)
11 Category of the Zoo	Medium
12 Area (in Acre/Ha)	20.51 Ha
13 No. of Visitors (Financial Year 23-24)	Adult-2973117 Children-280892 Aquarium visitors-56013 Total Visitors: 3310022
14 Visitors Facilities Available in Zoo	Proper Toilets, Resting Sheds at different locations, Decorative Benches, Filtered Drinking Water, Child care Centre, Food Stall, Wheel Chair, Battery operated carts, Zoo map in different locations, Animal Signages, Distance Board, Public Awareness Board, Online ticketing prebooking system, Yatri Sathi App for ticket purchase, Ticket purchase through UPI Payment, Souvenir Shop etc.
15 Weekly Closure Day of the Zoo	Thursday

### Management Personnel of the Zoo

16	Name with Designation of the Officer-in-Charge	Sri Tapas Das, IFS, CCF& Director (01.04.2022 to 30.9.2023) and Sri Subhankar Sengupta, IFS, CCF& Director (01.10.2023 to till date)
	Name of the Deputy Director	Dr. Piyali Chattopadhyay, PhD, PGDPM
	Name of the Assistant Director	Sri Partha Debnath (01.04.2023 to till 28.02.2024) Sri Prithwis Ghosh, WBFS (From 29.02.2024 to till date)
	Name of the Veterinary Officer	Dr. Arnab Majie, Dr. Shantanu Shome, Dr. Pralay Mandal, Dr. Debkumar Das
	Name of the Zoo Biologist	Sri Samya Basu
	Name of the Zoo Educator	Smt. Rupsha Bramhachari (01.04.2023 to 09.9.2023) Smt. Sayani Maji (07.11.2023 to till date)
	Name of the Dietician/Kitchen Supervisor	Smt. Runia Ghatak
	Name of the Education Assistant	-----
	Name of the Research Assistant	Smt. Sayani Maji (01.04.2023 to 06.11.2023) Dr. Manabi Paul (01.01.2023 to till date)
	Name of the Veterinary Assistant	Sri Sanjit Pandit, Smt. Riya Ghosh(01.01.2023 to till date)

### Owner/Operator of the Zoo

17	Name of the Operator	Addl. Chief Secretary to the Govt. of West Bengal, Department of Forests, Government of West Bengal
18	Address of the Operator	Aranya Bhawan, Block-LA-10A, Sector-III, Salt Lake City, Kolkata-700106, West Bengal
19	Contact Details/Phone numbers of Operator	Phone: 913323358581
20	E-mail Address of Operator	<a href="mailto:m&lt;sup&gt;s&lt;/sup&gt;wbza@gmail.com">m<sup>s</sup>wbza@gmail.com</a> ,



SIR JOTEENDRO MOHUN TADORE LIBRARY

# 04 Vision

“

To provide future direction for modernization & up gradation of the Zoological Garden, Alipore to such extent that in spite of being one of the oldest Zoos of India , it can be at par with one of the best Zoos of the country.

For that purpose the available resources, planned breeding, research etc. would be the essential tools keeping in mind the constraints, limitations and inherent challenges of an old Zoo.

”



# 05 Mission

“

The mission of the Zoological Garden, Alipore is “Conservation of wild animals from India and abroad with special reference to the wet land fauna and education & research for sustainable

conservation of wild fauna which are under severe threat due to biotic interference”.

”



# 06 Objectives of the Zoo

It is intended to develop this zoo on modern lines in conformity with the National Zoo Policy, 1998 with the following objectives in mind:

i) Make Alipore Zoo a conservation breeding centre of prominence in India with focus on species of the region with special emphasis on wetland fauna.

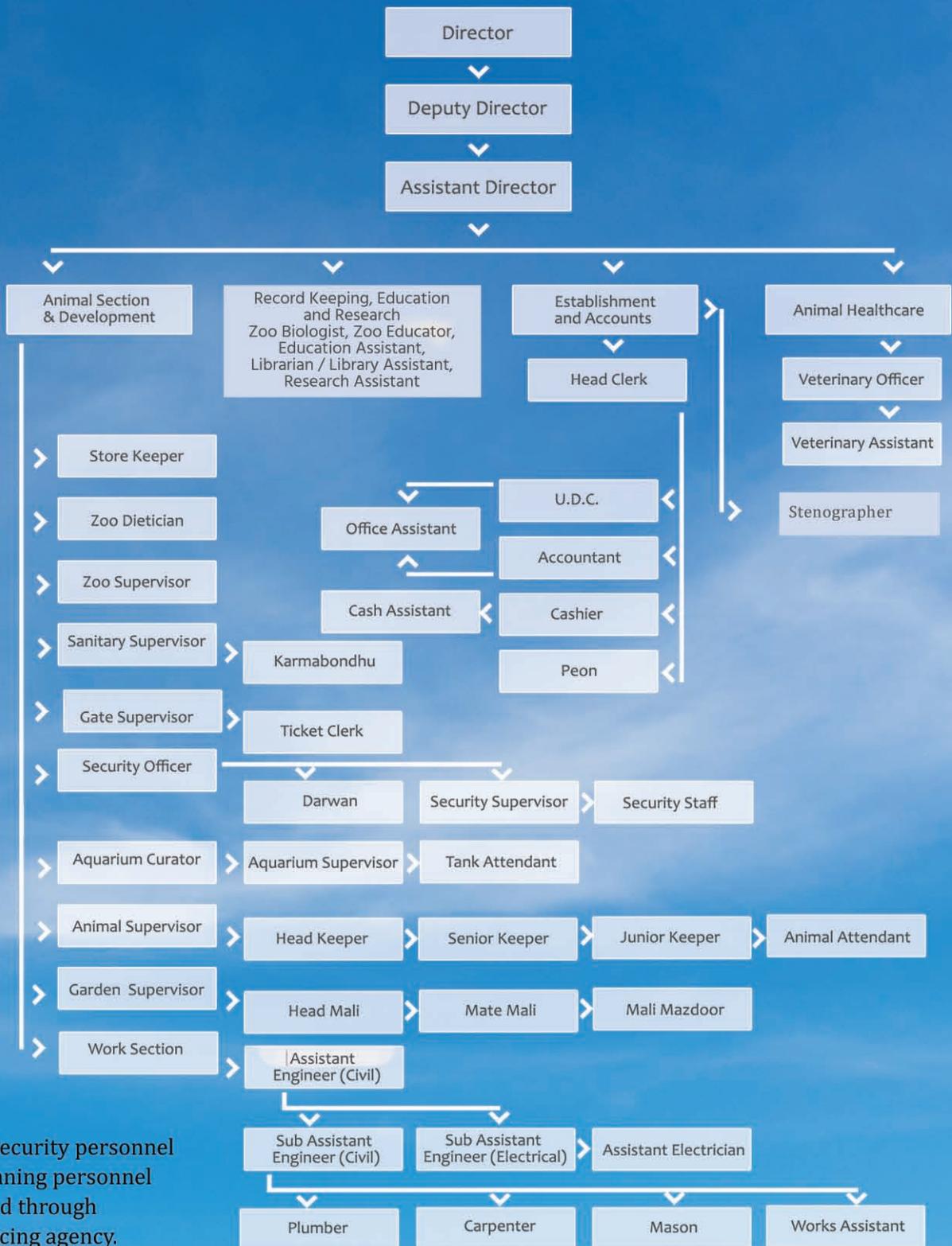
ii) Make the zoo a centre for

conservation and awareness for the visiting public, particularly the young ones, taking advantage of the large visitation of the metropolis and the surrounding region.

iii) To initiate and conduct the research on wildlife in captivity and to disseminate the results thereof to other captive animal facilities for conservation of animals in this wild.



# 07 Organizational Chart



Note:- Security personnel and cleaning personnel deployed through outsourcing agency.

# 08 Human Resource

Statement showing the sanctioned strength as per 9th G.B Meeting & existing strength of staff working at the Zoological Garden, Alipore.

Sl No	Category of Post	Total no. of sanctioned Posts.	No of existing strength working		No of posts Vacant
			Permanent	Contractual	
1.	Director	1	1	-	Nil
2.	Deputy Director	1	1	-	Nil
3.	Assistant Director	1	1	-	Nil
4.	Estate/Security Supervisor	1	1	-	Nil
5.	Veterinary Officer	2	1	1	Nil
6.	Head Clerk	1	Nil	Nil	1
7.	P.A./Stenographer	1	1	-	Nil
8.	Store- Keeper	1	1	-	Nil
9.	UDC/OA	7	2	5	Nil
10.	LDC	7	1	-	6
11.	Ticket Clerk	12	2	7	3
12.	Gate Keeper	8	Nil	Nil	8
13.	Zoo Keeper	30	8	-	22
14.	Mahout	2	Nil	Nil	2
15.	Cook	2	Nil	Nil	2
16.	Asst. Engineer(Civil)	1	-	1	Nil
17.	Zoo Biologist	1	-	1	Nil
18.	Zoo Educator	1	-	1	Nil
19.	Sub-Assistant Engineer (Civil)	1	-	1	Nil
20.	Sub-Assistant Engineer (Electrical)	1	-	1	Nil
21.	Dietician/Kitchen Supervisor	1	-	1	Nil
22.	Zoo Supervisor	2	-	2	Nil
23.	Garden Supervisor	1	Nil	Nil	1
24.	Sanitary Supervisor	1	-	1	Nil
25.	Research Assistant	1	-	1	Nil
26.	Education Assistant	1	Nil	Nil	1
27.	Library Assistant	1	-	1	Nil

Sl No	Category of Post	Total no. of sanctioned Posts.	No of existing strength working		No of posts Vacant
28.	Laboratory Assistant	1	Nil	Nil	1
29.	Veterinary Assistant	2	-	2	Nil
30.	Asst. Zoo Supervisor	4	-	2	2
31.	Asst. Estate/Security Supervisor	4	-	2	2
32.	Asst. Garden Supervisor	1	Nil	Nil	1
33.	Asst. Sanitary Supervisor	1	Nil	Nil	1
34.	Accountant	1	-	1	Nil
35.	Driver	1	-	1	Nil
<b>Support Staff (On Contract)</b>					
36.	Attendant	20	-	-	20
37.	Animal Attendants	32	-	32	Nil
38.	Garden Attendants	20	-	7	13
39.	Security	110 ***	-	-	***
40.	Sanitation	20 ***	-	-	***
	<b>Total</b>	<b>307</b>	<b>20</b>	<b>71</b>	<b>86</b>

**List of other permanent staff of ZGA:  
(As per erstwhile Managing Committee approval)**

<b>Sl No</b>	<b>Category of Posts</b>	<b>No. of Sanctioned posts</b>	<b>No. of persons working</b>	<b>No. of posts Vacant</b>
1.	Cashier	1	Nil	1
2.	Gate Supervisor	1	1	Nil
3.	Assistant Wireman	1	1	Nil
4.	Mason	1	1	Nil
5.	Peon	7	3	4
6.	Head Durwan	3	3	Nil
7.	Mate Durwan	3	Nil	3
8.	Durwan	60	Nil	60
9.	Tank Attendent	6	2	4
10.	Animal Supervisor.	2	2	Nil
11.	Head Keeper	4	4	Nil
12.	Senior Keeper	6	6	Nil
13.	Junior Keeper	54	15	39
14.	Head Mali	1	1	Nil
15.	Mate -Mali	3	3	Nil
16.	Mali Mazdoor	60	12	48
17.	Karmabandhu	5	2	3
	<b>Total</b>	<b>218</b>	<b>56</b>	<b>162</b>

NB: One Account Assistant, previously deputed in WBZA is now posted in ZGA as per order of the MS, WBZA.

\*\*\* Security and Sanitation works are completely outsourced and managed by private agencies.



# 09 Capacity Building of Zoo Personnel

	<b>Name and Designation of Zoo personnel</b>	<b>Subject Matter of Training</b>	<b>Period of Training</b>	<b>Name of the Institution where the training attended</b>
1	Zoo Keepers and Animal Attendants	Workshop on 'Reptile Husbandry, Handling, upkeep and veterinary'.	18.05.2023	Zoological Garden, Alipore
2	Zoo Keepers and Animal Attendants	Workshop on 'Captive Management'	16.10.2023	Zoological Garden, Alipore
3	Zoo Keepers and Animal Attendants	Workshop on 'Captive Management'	21.11.2023	Zoological Garden, Alipore
4	Zoo Staffs	Workshop and hands-on training on 'Disinfection procedure and Fire Fighting'.	21.03.2024	Zoological Garden, Alipore
5	Ticket Clerk and other staffs	Workshop on 'Modified ticketing system for enhancing visitor's experience and Management of Souvenir Shop'.	23.03.2024	Zoological Garden, Alipore
6	Zoo Staffs	Workshop and hands-on training on 'Bio-Security Management and Fire Safety'.	28.03.2024	Zoological Garden, Alipore
7	Garden Staffs	Workshop on 'Preparation of compost and Vermicompost from Zoo waste'	29.03.2024	Zoological Garden, Alipore

# 10 Zoo Advisory Committee

The West Bengal Zoo Authority is governed by a 14 Member Body headed by the Chief Secretary, West Bengal as Chairman and Additional Chief Secretary /Principal Secretary, Department of Forests, Govt. of West Bengal as the

Vice-Chairman. Member Secretary, WBZA is responsible for the day to day management of the Zoo Authority. Detailed list of Governing Body of West Bengal Zoo Authority is appended below:

1	The Chief Secretary to the Govt. of West Bengal	Chairman
2	Addl. Chief/Principal Secretary to the Govt. of West Bengal, Dept. of Forests	Vice-Chairman
3	Addl. Chief Secretary to the Govt. of West Bengal, Dept of Finance	Member
4	Principal Chief Conservator of Forests & HoFF, West Bengal	Member
5	Principal Chief Conservator of Forests (Wildlife) and Chief Wildlife Warden, West Bengal	Member
6	Member Secretary, Central Zoo Authority, New Delhi	Member
7	Member Secretary, West Bengal Zoo Authority	Convenor
8	Director, Animal Husbandry & Vet. Services, W.B.	Member
9	Director, Padmaja Naidu Himalayan Zoological Park, Darjeeling	Member
10	Director, Zoological Garden, Alipore, Kolkata	Member
11	A person from North Bengal to be nominated.	Member
12	NGO from North Bengal to be nominated	Member
13	NGO from South Bengal to be nominated.	Member
14	A person from South Bengal to be nominated	Member

# 11 Health Advisory Committee

a. Date of constitution: 01.02.2018

b. Members:

1. Joint Director, ARD, IAH & VB Kolkata

Chairman

2. Veterinary Officer, ARD, IAH & VB Kolkata

Member

3. Specialist, ARD, IAH & VB Kolkata

Member

4. Assistant Director, ARD, IAH & VB Kolkata

Member

c. Dates on which Meetings held during the year:

As and when required



# 12 Profit & Loss A/c



**WBZA - Zoological Garden, Alipore**  
**Income and Expenditure Statement**  
 1-Apr-2023 to 31-Mar-2024 (Unaudited)

Particulars	1-Apr-2023 to 31-Mar-2024	Particulars	1-Apr-2023 to 31-Mar-2024
<b>Direct Expenses</b>	<b>13,99,34,808.00</b>	<b>Direct Incomes</b>	<b>17,49,67,732.81</b>
Plan Expenditures	<i>13,99,34,808.00</i>	Gate Collection	<i>17,27,09,227.81</i>
<b>Indirect Expenses</b>	<b>11,05,55,555.02</b>	Other Collections	<i>4,09,305.00</i>
Non - Plan Expenditures	<i>11,05,55,555.02</i>	Scheme Incomes	<i>18,49,200.00</i>
Excess of income over expenditure		<b>Indirect Incomes</b>	<b>7,55,22,630.21</b>
		Interest Income	<i>4,25,179.00</i>
		Other Incomes	<i>20,48,907.00</i>
		Transfer of Utilized Funds	<i>7,30,48,544.21</i>
<b>Total</b>	<b>25,04,90,363.02</b>	<b>Total</b>	<b>25,04,90,363.02</b>



# 13 Daily Feed Schedule of Animals

SL No.	SPECIES	FEED ITEM	QUANTITY (Kg.) /Number per individual.		Day of Fasting
			Summer	Winter	
1.	Giraffe	Concentrated feed	4.85	4.85	No fasting day
		Sweet potato & carrot	4	4	
		Banana	3.5	3.5	
		Apple	2.5	2.5	
		Oranges	4	4	
		Green fodder & cut branches	10	10	
2.	Zebra	Concentrated feed	3.8	3.8	No fasting day
		Sweet potato & carrot	2.0	3.25	
		Hay grass	4.0	1.2	
3.	Barking Deer	Concentrated feed	0.4	0.6	No fasting day
		Sweet potato & carrot	0.3	0.3	
		Green fodder	0.3	1.3	
4.	Spotted Deer	Concentrated feed	0.7	1.5	No fasting day
		Sweet potato & carrot	0.2	0.8	
		Green fodder	0.2	4	
5.	Brow antlered Deer	Concentrated feed	0.8	3	No fasting day
		Sweet potato & carrot	0.7	0.6	
		Green fodder	0.7	3	
6.	Sambar Deer	Concentrated feed	2.6	2.6	No fasting day
		Sweet potato & carrot	1.5	1.5	
		Green fodder	0.6	4	
7.	Black Buck	Concentrated feed	0.7	1	No fasting day
		Sweet potato & carrot	0.2	1	
		Green fodder	0.2	2	
8.	Swamp Deer	Concentrated feed	3	3	No fasting day
		Sweet potato & carrot	1.0	0.8	
		Green fodder	0.3	2	
9.	Rhino	Concentrated feed	1.7	8	No fasting day
		Sweet potato & carrot	10	10	
		Green grass	20.0	40	
		Banana	5	4	
		Sugarcane Top		15	
10.	Hippo	Concentrated feed	10	10	No fasting day
		Sweet potato & carrot	3.0	1.5	
		Green grass	27	33	

SL No.	SPECIES	FEED ITEM	QUANTITY (Kg.) /Number per individual.		Day of Fasting
			Summer	Winter	
11.	Elephant	Rice	2.5	1.25	No fasting day
		Soaked gram	0.75	0.75	
		Paddy	0.5	0.5	
		Lentil	1	1	
		Fodder	50.0	50	
		Sugarcane Top	70.0	37	
		Banana	5	5	
12.	Bear	Rice	0.5	0.5	No fasting day
		Wheat	0.3	0.3	
		Milk	0.5	0.5	
		Molasses	0.25	0.25	
		Honey	–	0.1	
		Sour Curd	0.25	–	
		Fruits	0.30	0.30	
		Meat	0.75	0.75	
13.	Chimpanzee	Complan	2 tsp with 0.5kg milk & sugar	2 tsp with 0.5kg milk & sugar	No fasting day
		Bread	½ pound	½ pound	
		Musumbi	0.3	0.3	
		Apple	0.5	0.5	
		Banana	6	2	
		Dry fruits	0.1	0.1	
		Carrot & sweet potato	0.4	0.8	
		Lettuce	0.1	0.1	
		Other Vegetables	1	1	
14.	Nilgai	Concentrated feed	3.0	3.5	No fasting day
		Sweet potato & carrot	0.5	0.5	
		Green grass	3	3	
		Paddy straw	1	1	
15.	Porcupine	Sweet potato & carrot	0.2	0.2	No fasting day
		Pumpkin	0.050	0.050	
		Soaked Gram	0.075	0.075	
		Bread	¼ pound	¼ pound	
		Banana	0.1	0.1	
		Other Vegetables	0.150	0.150	
16.	Kangaroo	Apple	0.50	0.50	No fasting day
		Banana	5 Nos.	5 Nos.	
		Guava	0.20	0.20	
		Soaked Chhola	0.10	0.10	
		Beans	0.050	0.050	
		Watermelon	0.500	0.500	
		Molasses	0.050	0.050	
		Green Grass	adlib	Adlib	

SL No.	SPECIES	FEED ITEM	QUANTITY (Kg.) /Number per individual.		Day of Fasting
			Summer	Winter	
		Glucon D	0.010	0.010	
17.	Tiger	Buffalo meat	8.5	11.5	Thursday
18.	Lion	Buffalo meat	8.5	10.5	Thursday
19.	Leopard	Buffalo meat	6.0	7.0	Thursday
20.	Jaguar	Buffalo meat	5.0	6.0	Thursday
21.	Hyena	Buffalo meat	4.0	7.0	Thursday
22.	Jackal	Buffalo Meat	1.25	1.5	No fasting day
23.	Jungle Cat	Buffalo Meat	0.6	1.5	No fasting day
24.	Fishing Cat	Live fish	0.75	1	No fasting day
25.	Crocodile	Live Fish	3.0	-	3 days a week
26.	Reptiles	Frogs, snakes etc	6 nos.	-	Given only on Thursday
27.	Monitor Lizard	Fish	0.500(on Friday)	-	
		Extract of Chaat- Buffalo Meat	0.500(on Monday)		
28.	Birds of Psittacidae Family	Soaked maize & gram	0.050	0.050	No fasting day
		Sunflower seed	0.025	0.025	
		Kusum seed	0.025	0.025	
		Ground nut (Roasted)	0.050	0.050	
		Sugar cane	0.050	0.050	
		Fruits	0.100	0.100	
29.	Hill Moyna	Fruits	0.150	0.150	No fasting day
30.	Adjutant stork	Fish(silver carp)	1.0	1.0	No fasting day
31.	Mandarin Duck	Boiled maize	0.100	0.100	No fasting day
		Chicken mash	0.025	0.025	
		Boiled rice	0.025	0.025	
		Leafy vegetables	0.050	0.050	
		Egg	1 piece	1 piece	
		Chhattu	0.030	0.030	
32.	Pheasant	Soaked gram	0.020	0.020	No fasting day
		Soaked maize	0.020	0.020	
		Crushed maize	0.025	0.025	
		Chattu	0.010	0.010	
		Minced meat	0.020	0.020	
		Ants egg	0.020	0.020	
		Boiled egg	½ piece	½ piece	

SL No.	SPECIES	FEED ITEM	QUANTITY (Kg.) /Number per individual.		Day of Fasting
			Summer	Winter	
33.	Black swan	Leafy vegetables	0.025	0.025	No fasting day
		Pumpkin, onion, garlic	0.050	0.050	
		Gram	0.050	0.050	
		Paddy	0.050	0.050	
		Bajra	0.030	0.050	
		Red leaf	0.050	0.050	
34.	Horn bill	Egg	1	1	No fasting day
		Chattu	0.050	0.050	
		Minced meat	0.050	0.050	
		Fruit mixture	0.100	0.100	
35.	Rosy pelican	Fish	0.500	0.500	No fasting day
36.	Painted Stork	Fish (fingerling)	0.500	0.500	No fasting day
37.	Tortoise	Chopped leafy vegetables	0.010	0.010	No fasting day
		Pumpkin	0.010	0.010	
		Cabbage	0.010	0.010	
		Cucumber	0.010	0.010	
38.	American Bald Eagle	Silver carp Fish	0.500	0.500	No fasting day
39.	Emu	Egg	2	2	No fasting day
		Chola	0.10	0.10	
		Mesh	0.050	0.050	
		Banana	1.5	1.5	
		Leafy vegetables	0.01	0.01	
40.	Malayan Tapir	Carrot	0.75	0.75	No Fasting Day
		Sweet Potato	0.30	0.30	
		Apple	0.80	0.80	
		Watermelon	1.0	1.0	
		Ripe Papaya	0.2	0.2	
		Banana	1.0	1.0	
		Pomegranate	0.2	0.2	
		Palang Leaves	0.2	0.2	
Beet	0.6	0.6			
41.	Bengal Fox	Buffalo Meat	0.250	0.250	No Fasting Day
		Chicken Keema	0.125	0.125	
		Chicken Neck	0.100	0.100	









# 14 Vaccination / Chemo-prophylactic schedule

Sl No	Species	Disease/ organism	Name of vaccine/ drug	Frequency	Route
1	Big cats	Trypanosomiasis	Inj Triquin	Twice in year	S/C
2	Elephants	Foot & mouth disease	Inj rakshaovac	Twice in year	I/M
3	Big cats	Canine distemper	Inj purevax ferret (DNA recombinant vaccine)	0 day, 21 day, 42 day then twice in year	S/C
4	Bigcats (young)	Feline calci virus, feline rhinotrachitis and Feline Panleukopaenia virus	Inj Feligen CRP	Primary vaccination with booster	S/C
5	Birds*	Ranikhet Disease	Ranikhet B1/F1 strain vaccine	0 & 6 week	through drinking water with addition of skim milk powder and ice as per dose
			Ranikhet R2B Strain	4 weeks after B1/F1 strain. Then Annually	S/C

\*NB – 28 days after R2B Vaccination, immune status survey conducted once in a year.

# 15 Clinical Investigation

1. All Animals and Birds : Kit test for Tuberculosis
2. Ante Mortem Sample : Detection of fungal and bacterial organism
3. Post Mortem Sample : Detection of fungal and bacterial organism
4. Faecal Sample : Parasitological Study
5. Automatic Hematology  
& Blood chemistry : For disease screening & Diagnosis
6. Electrolyte Analyzer : For Disease Dignosis
7. Urine Analyzer : For Disease Dignosis
8. Digital X-ray : For Disease Dignosis
9. Abdominal USG : As & when required for diagnosis



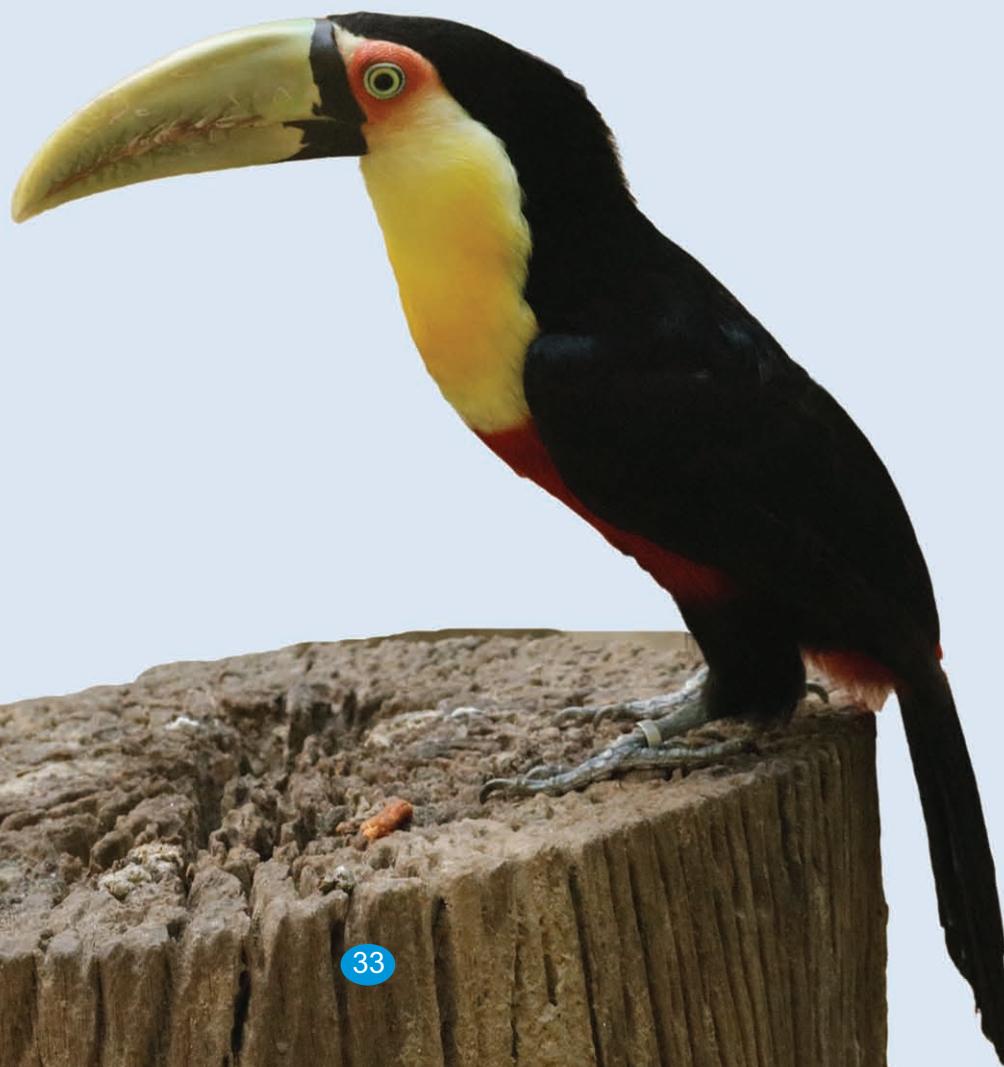
# 16 Non-Clinical Investigation

1. Bacterial & Fungal Estimation in Buffalo meat
2. Bacterial & Fungal Estimation in Maize dust etc.



# 17 Deworming Schedule

Sl No	Name of the species	Drug used and route	Frequency
1	Carnivores	Praziquantel, Pyrental pamoate; oral	Quarterly in recommended dose.
2	Herbivores & primates	Fenbendazole/ ivermectin / Albendazole; oral Rafoxomide, oral	Twice in year as required in recommended dose.
3	Reptiles (Python & Ind. rat snake)	Albendazole/Ivermectin; oral and injectible	Once in year with recommended dose.
4	Birds	Fenbendazole/Ivermectin / Albendazole; oral	Twice in year with recommended dose.



# 18 Disinfection Schedule

SPECIES	SITE OF USE	COMPOUND USED	METHOD	FREQUENCY
Herbivores	Entrance	2% KMno4 Solution	Foot Bath	Daily Changing
	Night Shelter Cum adjacent room/Space	Khorsolin Th Solution	@5ml/litre of water for cleaning	Twice in week
		Heating by Blow Lamp	Firing of all walls & nets of enclosure	Once in month
	Open area for animal roaming	Virkon.S powder	@10gm/litre of water for spraying	Once in month
	1)Night Shelter Cum adjacent room/Space 2)Open area for animal roaming	Deltamethrin 1.25% solution spray	@2ml/1lit water	Twice in a month
	Full enclosure area	Zenprotecil	@50 ml/10 lit water	Twice in a month (as and when required)
Carnivores	Entrance	2% KMno4 Solution	Foot Bath	Daily Changing
	Night Shelter Cum adjacent room/Space	Khorsolin Th Solution	@5ml/litre of water for cleaning	Twice in week
		Heating by Blow Lamp	Firing of all walls & nets of enclosure	Once in month
	Open area for animal roaming	Virkon.S powder	@10gm/litre of water for spraying	Once in month
	Full enclosure area	Zenprotecil	@50 ml/10 lit water	Twice in a month (as and when required)

Birds	Entrance	2% KMno4 Solution	Foot Bath	Daily Changing
	Night Shelter Cum adjacent room/Space	Khorsolin Th Solution	@5ml/litre of water for cleaning	Twice in week
		Heating by Blow Lamp	Firing of all walls & nets of enclosure	Once in month
	Open area for animal roaming	Virkon.S powder	@10gm/litre of water for spraying	Once in month
	Full enclosure area	Zenprotecil	@50 ml/10 lit water	Twice in a month (as and when required)
Reptiles	Entrance	2% KMno4 Solution	Foot Bath	Daily Changing
	Room	Heating by Blow Lamp	Firing of all walls & nets of enclosure	Once in month
	Full enclosure area	Zenprotecil	@50 ml/10 lit water	Twice in a month (as and when required)



# 19 Developmental Work

During the current financial year, the following developmental works have been taken up in the zoo.

Sl. No.	NAME OF WORKS
1.	Repairing and renovation of veterinary hospital building at ZGA
2.	Repairing and renovation of post mortem building at ZGA
3.	Repairing and renovation of veterinary hospital main gate at ZGA
4.	Construction of Quarantine suspended cages in Rescue Centre at ZGA
5.	Construction of Toughened Glass barrier in front of White Tiger Enclosure at ZGA
6.	Extension and Renovation of Toilet for Office Staff at ZGA
7.	Extension and Renovation of NL gate toilet ZGA
8.	Extension and Renovation of toilet opposite open aviary at ZGA
9.	Repair and rehabilitation work of existing overhead concrete water tank with underground water storage reservoir at ZGA
10.	Renovation of visitor's pathway with paver block in front of NL gate ticket counter, back side of library & beside spoon bill aviary at ZGA
11.	Renovation and Painting of South Section Garden, Animal Enclosure Fencing and Road side wall at ZGA
12.	Renovation and Painting of North Section Garden, Animal Enclosure Fencing and Road side wall at ZGA



13.	Renovation and height extension of Murshidabad house Bird enclosure at ZGA
14.	Supplying fitting and fixing Stainless Steel railing at 1 <sup>st</sup> floor left and right-side lobby and roof top periphery at Veterinary Hospital <b>at ZGA</b>
15.	Extension & Renovation of Hippo Night Shelter & enclosure at ZGA
16.	Extension & Renovation of Zebra Night Shelter & enclosure at ZGA
17.	Extension Repair and Renovation of 2 nos. Grey Parrots Aviary at ZGA
18.	Supplying, fitting and fixing furniture in administrative block at ZGA
19.	Renovation and Covering of Chimpanzee Enclosure top with chain link net at ZGA
20.	Supply and installation of CCTV system for surveillance of Veterinary Hospital at ZGA
21.	Supply and installation of CCTV system for surveillance of zoo garden at ZGA
22.	Renovation of old Pheasant House cage with increase of height beside Emu cage at ZGA
23.	Supply and installation of Conference Sound System in Administrative Conference Room at ZGA
24.	Extension and renovation of existing administrative building at ZGA
25.	Renovation and Painting of Bengal Tiger Enclosure and Night Shelter at ZGA
26.	Renovation of old Pheasant House cage with increase of height at ZGA
27.	Repairing and renovation of Bardhaman house at ZGA



46	Renovation of Pigtail Monkey room at ZGA
47	Renovation and painting of Hoolock Gibbon moat at ZGA
48	Repairing of Schewlender, Pheasant , Nocturnal House Schewlender House moat wall at ZGA
49	Renovation of Paver Block pavement front hoolock gibbon math and N.S cage at ZGA
50	Renovation supply, fitting, fixing (ACP) wall cladding at macaw cage at ZGA
51	Renovation of stainless steel reeling in front of Wild Dog enclosure at ZGA
52	Renovation of Major S C Dutta small cage, concrete bridge at ZGA
53	Renovation and painting of garden, Polka Tiles near restaurant at ZGA
54	Renovation and painting of monkey room cage and S.S Railing beside enclosure at ZGA
55	Renovation of Hippo enclosure night shelter with roof sheet at ZGA
56	Renovation of stainless steel railing in front of Jackal enclosure enclosure at ZGA
57	Painting of Schewlender House at ZGA
58	Repairing of Samber Deer night shelter and kraal area at ZGA
59	Sanitary plumbing maintenance works at zoo garden, staff quarter at ZGA
60	Painting road to schewlender house and S C Dutta Aviary and Misc development work at ZGA
61	Renovation visitors area with polka Tiles near Grey Parrot, Leopard Bridge near schewlender house and rest shed at ZGA
62	Renovation of N.I.C building entrance gate, flooring at ZGA
63	Renovation and painting of Committee Room outside wall at ZGA
64	Renovation of ARD room at ground floor of Zoo hospital with roof top beam at ZGA
65	Renovation and painting of inside wall and roof of N.I.C building at ZGA
66	Repairing work of difference place in garden at ZGA
67	Renovation of enclosure front area and vat area at ZGA
68	Renovation works at Hospital building including outside soil line of Doctors toilet at ZGA
69	Renovation of Ticket counter inside near National library gate at ZGA
70	Supply of Bamboo Dorma fencing at Kangaroo & Elephant Enclosure at ZGA
71	Renovation of Stainless steel railing in front of Signature selfie of Zoo at ZGA

72	Repairing and change of Ticket Counter entry gate door at ZGA
73	Misc. repair work at Tiger , Elephant ,Rhino , Anaconda enclosure and Kangaroo enclosure at ZGA
74	Renovation Natun bagan counter outside and boundary wall at ZGA
75	Painting of bamboo dorma at Kangaroo & elephant enclosure at ZGA
76	Sanitary plumbing maintenance works at zoo garden, toilets, staff quarter at ZGA
77	Renovation of Director's office chamber at ZGA



# 20 Education and Awareness Programmes

Over the year, Zoological Garden, Alipore conducted a number of Education and Awareness programme as generating awareness is one of the main objectives of the Zoo.

## 1) Training Programmes:

Various type of Training programmes on zoo management is organized throughout the year for Zoo Staffs, Zoo keepers, Animal attendants and other stakeholders.

Besides that, trainee Officers belonging to All India Services, State Services, Central Services and others visit the zoo under their East India Tour Programme and get the insights of zoo management. This year trainee Range Officers from Chandrapur Forest Academy, Maharashtra, Tamil Nadu Forest Academy, Karnataka Forest Academy, Forest Guard trainees from SFTI, Hijli etc. visited during different time of the year.

## 2) Awareness Programmes:

Throughout the year, a number of special species Day were observed at the zoo with school and college students. These programmes were aimed for creating general awareness and for this, quiz competition, painting competition, tree plantation drives, workshops, guided zoo visits etc. were planned. This year Zoo Lovers' Day, Earth Day, World Turtle Day, World Environment Day, World Giraffe Day, Snake Day, World Chimpanzee Day, International Tiger Day, World Rhino Day, World Zebra Day etc. were observed.

The theme of the events was based on wildlife, their importance and conservation.

## 3) Zoo Festival:

5th zoo festival was organized from 21st -24th September,2023. This is 4- days long event for school and college students on the theme of Wildlife, its importance and conservation. Different competitions such as sit-and-draw, On-spot-poster making, quiz, Extempore, Go-as-you like are organized during the event. Around 1200 students from different schools and colleges of West Bengal participated in the zoo festival. The presence of esteemed judges and guests inspired the young students in conservation of biodiversity and its importance.

## 4) School and college visits:

This year a number schools and colleges visited the zoo for educational excursion. Guided zoo visit with an insight of zoo management was organised for them. Apart from that, different NGOs have organised zoo visits with under-privileged children, Special child and differently abled persons destitutes, street children etc. Organizations like Halo Heritage, Lion's club, Blind Club, Nirmal Hriday etc. organized such visits to zoo during the year.

## Others:

Throughout the year, a number of new exhibits, expansion of infrastructure, Renovation of the old heritage structures, Multi-Speciality

Zoo Hospital, Quarantine cages, Hospital Gate, Installation of CCTV system, Souvenir shop were carried out. Hon'ble chief Minister Mamata Bandyopadhyay inaugurated many facilities on 12th March, 2024.

2 No. Animal ambulances & 10 nos. battery operated carts were donated by Smt. Mala Roy Hon'ble MP Kolkata (South) from her MPLAD Scheme.

### Special Programme:

• 12th March, 2024: Inauguration of various enclosures by Hon'ble Chief Minister, West Bengal

Hon'ble Chief Minister, West Bengal, Smt. Mamata Bandyopadhyay inaugurated 5 no. of projects of Zoological Garden, Alipore through virtual mode. The following dignitaries attended the programme from Zoological Garden, Alipore premises:

1. Shri Aroop Biswas, Minister of Sports, Power, Housing and Youth Affairs.,
2. Smt. Mala Roy, Hon'ble MP Kolkata (South)

3. Smt. Birbaha Hansda, MOS Forest (Independent Charge)

4. Smt. Deblina Biswas, Councilor, Ward No-74, Borough-9

5. Shri Vivek Kumar, Additional Chief Secretary, Forest

6. Shri Niraj Singhal, PCCF (Head of the Forest Force), West Bengal

7. Shri Debal Roy, PCCF (Wildlife) and CWLW, West Bengal

8. Shri Saurabh Chawdhuri, MS, WBZA and other dignitaries and officers were also present.

• The following projects were inaugurated:

1. New Conference Room and Training facilities
2. Expansion of Zebra night Shelter and enclosure area
3. Renovation of Chimpanzee enclosure
4. Quarantine suspended cages in Rescue Centre for birds
5. Renovation of Veterinary Hospital, Installation of CCTV System, Postmortem room and hospital gate.



# 21 Seasonal Special Arrangements for Upkeep of Animals

## 1. Special care for animals in summer

### Physical Methods of Cooling

- Bathing of the animals and birds in the morning
- Sprinkling of cold water in and around the aviaries
- Shade at aviaries covering bamboo thatch, tarpaulin etc.
- Installation of fans in reptile house, chimpanzee, tiger etc. enclosures.
- ORS has been provided to the animals mixing with drinking water.
- Ice slabs for carnivore animals and beers for keeping them cool.
- Installation of water sprinklers in the aviaries and reptile house.

## 2. Special care for animals in winter

### Physical Methods

- Mammals
  - Wooden plank to all carnivores

- Reptiles

- Provide adequate hiding place for proper hibernation
- Blanket & Paddy straw bedding
- UV Light

## 3. Others

### Nutritional Supplementation

- Mammals
  - Calcium & other minerals supplementation to all mammals
- Birds
  - Calcium supplementation to all.
  - Vitamin A, D3, E supplementation to all

### Medicinal Supplementation

- Spraying of disinfectant before hibernation as prophylactic measure



## 22 Research Work carried out and publications

The Research wing of the Veterinary Hospital, Zoological Garden, Alipore has initiated multiple research projects aiming at the association between behavioral and underlying physiological parameters. They have started observing the reproductive behaviour of giraffes, large felids (such as tigers), and chimpanzees within a human-modified captive, semi-open enclosure. Variables, that are responsible for the success and failure of captive breeding are also being monitored. Besides, regular health assessment and disease screening of these captive animals are also ongoing.

The Veterinary Officers have started disease diagnosis in these animals by using modern diagnostic imaging techniques, ultrasonography, and also by examining the hemato-biochemical parameters. They found frequent cases of lameness, i.e. animals become inefficient in walking and weight bearing, for which the irregular movements and less use of limbs are suspected as the most influential variables in these captive animals. Here, the X-ray imaging reveals evident degenerative changes in various bone joints with reduced joint space. Moreover, profuse respiratory complications such as pneumonia, cough with a wheezing sound, occasional open mouth respiration, etc. are also being diagnosed in snakes, birds, and, mammals.

Recently the research team identified the behaviour repertoire that could be used to detect the onset of estrous in captive fishing cats. Besides, the hematological and biochemical

reports have also been analyzed for 10 samples, which revealed no statistical difference between male and female cats other than their hemoglobin profile (Unpaired t-test:  $t= 3.97$ ,  $p= 0.005$ ).

The veterinary team also started examining the sanitary status of the raw buffalo meat which is used as the prime food source for the large captive carnivores at the Zoological Garden, Alipore, Kolkata. The buffalo carcass has less fat, less bone, and a higher proportion of muscle than cattle. Due to its high nutrient content, raw buffalo meat is considered an excellent medium for the growth of various pathogenic organisms. Therefore, the nature and level of microbial contamination in meat have important consequences concerning animal health. Here we tested a total of 37 raw buffalo meat samples and except the sample BM-8, all of them were positive for *E. coli*. Moreover, we also found *Staphylococcus*, mostly in summer, and a varied range of yeast and molds throughout the year. However, despite bacterial and fungal loads, none seem to cross the threshold value and no pathogen-borne disease has yet been recorded in the Zoological Garden, Alipore. Additionally, microbiological diagnosis from tissue samples of animals has been done with Antibioqram study. Besides, parasitological studies including fecal samples and blood parasite identification of Zoo animals and birds are being done regularly and effective measures have been taken in the positive cases.

# 23 Conservation Breeding Programme of the Zoo

The Conservation Breeding Programme is a science of conserving a species by preventing imminent population collapse in the wild due to a large number of eliminative pressures (i.e. habitat loss, habitat fragmentation, industrialization, poaching, illegal trade and climate change etc.).

The Zoological Garden, Alipore is pioneer in CBP of globally endangered Brow-antlered Deer and conserving genetic diversity of the species to restock or reintroduce them to re-establish self-sustaining population in its natural wild habitat.

The zoo has been successfully

conducting the conservation breeding programme of Painted Stork and Fishing Cat (the State Animal of West Bengal), and has proposed to initiate the CBP of Indian Crested Porcupine, Tokay Gecko, White-backed Vulture, Yellow Monitor Lizard, Black-headed Ibis, etc.

The zoo is also successfully conducting captive breeding of certain exotic species with global conservation importance. The Northern Giraffe, Grants' Zebra, Yellow Anaconda, Grey Parrot, Blue and Gold Macaw are some of the species under the captive breeding programme. Which have successful results.



# 24 Animal acquisition / transfer / exchange during the year

Transfer of animals from Zoological Garden, Alipore to Greens Zoological, Rescue & Rehabilitation Centre 02.04.2023

SI No	Species	M:F:U:T
1.	Jungle cat ( <i>Felis chaus</i> )	1:0:0:1
2.	Fishing cat ( <i>Prionailurus viverrinus</i> )	2:2:0:4
3.	Marsh crocodile ( <i>Crocodylus palustris</i> )	2:0:0:2
4.	Brow-antlered deer ( <i>Rucervus eldii</i> )	1:0:0:1
5.	Indian muntjac ( <i>Muntiacus muntjac</i> )	1:1:0:2
6.	Water monitor lizard ( <i>Varanus salvator</i> )	0:0:3:3
7.	Indian rock python ( <i>Python molurus</i> )	0:0:9:9
8.	Painted stork ( <i>Mycteria leucocephala</i> )	0:0:9:9
9.	Indian star tortoise ( <i>Geochelone elegans</i> )	0:0:20:20

Transfer of animals from Padmaja Naidu Himalayan Zoological Park, Darjeeling to Zoological Garden, Alipore - 13.12.2023

1. Lady Amherst Pheasant ( <i>Chrysolophus amherstiae</i> )	2:1:0:3
2. Temminck's Tragopan ( <i>Tragopan temminckii</i> )	2:2:0:4
3. Golden Pheasant ( <i>Chrysolophus pictus</i> )	4:4:0:8
4. Silver Pheasant ( <i>Lophura nycthemera</i> )	2:2:0:4

Transfer of animals from Zoological Garden, Alipore to North Bengal Wild Animals Park - 13.12.2023

1. Indian Crested Porcupine ( <i>Hystrix indica</i> )	1:1:0:2
2. Blue and Gold Macaw ( <i>Ara ararauna</i> )	2:2:0:4

Transfer of animals from Junglemahal Zoological Park to Zoological Garden, Alipore - 18.01.2024

1. Indian Striped Hyena ( <i>Hyaena hyaena</i> )	0:1:0:1
2. Indian Grey Wolf ( <i>Canis lupus pallipes</i> )	1:0:0:1
3. Kalij Pheasant ( <i>Lophura leucomelanos</i> )	1:1:0:2
4. Sloth Bear ( <i>Melursus ursinus</i> )	0:1:0:1

**Transfer of animals from Zoological Garden, Alipore to Junglemahal Zoological Park  
- 18.01.2024**

- |   |         |
|---|---------|
| 1. Indian Crested Porcupine ( <i>Hystrix indica</i> ) | 1:1:0:2 |
| 2. Blue and Gold Macaw ( <i>Ara ararauna</i> )        | 2:2:0:4 |

**Transfer of animals from Zoological Garden, Alipore to North Bengal Wild Animals Park  
- 02.03.2024**

- |   |         |
|---|---------|
| 1. Barking Deer ( <i>Muntiacus muntjak</i> )              | 1:4:0:5 |
| 2. Indian Rock Python ( <i>Python molurus</i> )           | 1:1:0:2 |
| 3. Burmese Python ( <i>Python bivittatus</i> )            | 1:1:0:2 |
| 4. Reticulated Python ( <i>Malayopython reticulatus</i> ) | 1:1:0:2 |
| 5. Water Monitor Lizard ( <i>Varanus salvator</i> )       | 2:2:0:4 |

**Transfer of animals from North Bengal Wild Animals Park to Zoological Garden, Alipore  
- 04.03.2024**

- |   |         |
|---|---------|
| 1. Bengal Tiger ( <i>Panthera tigris tigris</i> ) | 1:1:0:2 |
|---|---------|



# 25 Rescue and Rehabilitation of the wild animals carried out by the zoo

Date	Animal	Number	From	To	Remarks
26/04/2023	Indian Peafowl ( <i>Pavo cristatus</i> )		Garchumuk Zoological Park	Zoological Garden, Alipore	For treatment
13/06/2023	Indian Parakeet ( <i>Psittacula krameri</i> ) Munia ( <i>Lonchura sp</i> )	0:0:3:3 0:0:4:4	Wildlife and Environment Offences Section, Detective Department, Kolkata Police	Zoological Garden, Alipore	Seized and for safe custody
16/08/2023	Indian Striped Hyena ( <i>Hyaena hyaena</i> )	0:0:1:1	Surulia Mini Zoo	Zoological Garden, Alipore	For treatment
12/10/2023	Golden Parakeet ( <i>Guarouba guarouba</i> ) Moluccan Cockatoo ( <i>Cacatua muluccensis</i> ) Military Macaw ( <i>Ara militaris</i> ) Blue and Gold Macaw ( <i>Ara ararauna</i> )	0:0:1:1 0:0:2:2 0:0:1:1 0:0:1:1	Wildlife Wing Directorate of Forests, Government of West Bengal	Zoological Garden, Alipore	Seized and for safe custody
12/10/2023	Jungle Cat ( <i>Felis chaus</i> )	1:0:0:1	Bardhaman Zoological Park	Zoological Garden, Alipore	For treatment
06/12/2023	Golden Pheasant ( <i>Chrysolophus pictus</i> )	0:1:0:1	Zoological Garden, Alipore	Garchumuk Zoological Park	Returned after treatment
10/12/2023	Indian Pangolin ( <i>Manis crassicaudata</i> )	0:0:1:1	Kangsabati North Division	Zoological Garden, Alipore	For treatment

12/02/2024	Golden Parakeet ( <i>Guarouba guarouba</i> ) Moluccan Cockatoo ( <i>Cacatua moluccensis</i> ) Military Macaw ( <i>Ara militaris</i> ) Blue and Gold Macaw ( <i>Ara ararauna</i> )	0:0:1:1 0:0:2:2 0:0:1:1 0:0:1:1	Zoological Garden, Alipore	Wildlife Wing Directorate of Forests, Government of West Bengal	Returned as per order of court
13/02/2024	Barking Deer ( <i>Muntiacus muntjak</i> )	1:0:0:1	Garchumuk Zoological Park	Zoological Garden, Alipore	For treatment
04/03/2024	Malyan Tapir ( <i>Tapirus indicus</i> )	1:0:0:1	North Bengal Wild Animals Park	Zoological Garden, Alipore	Seized and for safe custody



# 26 Adoption

Sl. No	Name	Animal	Type of adoption	Duration	Amount
1	Anusua Basu	Salt Water Crocodile	Annual	16.04.2023 to 15.04.2024	10000.00
2	Dibyendu Sekhar Das	Burmese Python	Annual	08.05.2023 to 07.05.2024	15000.00
3	Dibyendu Sekhar Das	Hooded Vulture	Annual	08.05.2023 to 07.05.2024	5000.00
4	Sayan Rakshit	Budgerigar	Annual	26.05.2023 to 25.05.2024	1000.00
5	Lal Kamal Mathur	Budgerigar	Annual	26.05.2023 to 25.05.2024	1000.00
6	Meghdeep Mukherjee	Zebra	Monthly	16.05.2023 to 15.06.2023	3000.00
7	Meghdeep Mukherjee	Rosy Pelican	Annual	17.05.2023 to 16.05.2024	7000.00
8	Sharmila Gupta	Red &Blue Macaw	Annual	07.06.2023 to 06.06.2024	10000.00
9	V.R Gopala Krishnan	Indian Star Tortoise	Annual	25.06.2023 to 24.06.2024	5000.00
10	V.R Gopala Krishnan	Spoon bill	Annual	25.06.2023 to 24.06.2024	7000.00
11	Bittu Hazra	Budgerigar	Annual	26.08.2023 to 25.08.2024	1000.00
12	Suman Banerjee	Spotted Deer	Annual	29.08.2023 to 28.08.2024	10000.00
13	Subhralekha Sur	Two Aldabra Giant Tortoise	Annual	27.08.2023 to 26.08.2024	80000.00
14	Subhajit Ghosh	Two Cassowaries	Annual	29.08.2023 to 28.08.2024	20000.00
15	Indian Oil Corporation Ltd. (Haldia Refinery)	Indian One horned Rhino	Annual	22.09.2023 to 21.09.2024	100000.00
16	Manish Agarwal	Iguana	Annual	13.09.2023 to 12.09.2024	5000.00
17	DPS,Howrah	Spotted Deer	Annual	04.10.2023 to 03.10.2024	10000.00
18	Makintosh Burn Limited	2nos.tiger,2nos.lion,1no.hippo	Annual	07.10.2023 to 06.10.2024	900000.00

19	Sharmila Dutta	One budgeriger	Annual	08.10.2023 to 07.10.2024	1000.00
20	Bratin Kr. Ghosh	One amazon parrot	Monthly	08.10.2023 to 07.11.2023	500.00
21	Dyutiman Bhattacharya	One Striped Hyena	Annual	15.11.2023 to 14.11.2024	15000.00
22	Smt. Swagata Das	One Scarlet Macaw	Annual	18.11.2023 to 17.11.2024	10000.00
23	Sri Satyajit Roy	Himalayan Black Bear	Annual	18.11.2023 to 17.11.2024	30000.00
24	Centre for Sustainability and Management	One Indian Peafowl(Male)	Annual	30.11.2023 to 29.11.2024	5000.00
25	Anil Punjabi	One Moluccan Cockatoo	Annual	01.12.2023 to 30.11.2024	8000.00
26	Vinit Kumar	Two Large indian Parakeet	Annual	30.12.2023 to 29.12.2024	10000.00
27	Nature club of Scottish church college	One Chimpanzee	Annual	14.12.2023-13.12.2024	30000.00
28	Schneider Electric India PVT.LTD	Rose-ringed parakeet	Annual	14.12.2023-13.12.2024	3000.00
29	Saibal Paul	Cockatiel	Annual	15.12.2023-14.12.2024	2000.00
30	Saptaaghya Paul	Java Sparrow	Annual	15.12.2023-14.12.2024	2000.00
31	Shreya Mitra	Great Indian Hornbill	Monthly	16.12.2023-15.01.2024	700.00
32	DPS, New Town	One saltwater Crocodile	Annual	07.12.2023-06.12.2024	10000.00
33	DPS, New Town	Kangaroo	Annual	07.12.2023-06.12.2024	25000.00
34	DPS, New Town	Python	Annual	07.12.2023-06.12.2024	15000.00
35	DPS, New Town	Vulture	Annual	07.12.2023-06.12.2024	5000.00
36	Swarnab Deb	Greater sulpher crested cockatoo	Annual	25.12.2023-24.12.2024	8000.00
37	Subhas Chatterjee	Indian star tortoise	Annual	29.12.2023-28.12.2024	5000.00
38	Raghunath Dhara	Peafowl (White)	Annual	30.12.2023-29.12.2024	5000.00
39	Ricky Ray & Srabanti Ray	Anaconda	Monthly	07.01.2024-06.02.2024	1500.00

40	Ricky Ray & Srabanti Ray	Spotted Deer	Monthly	07.01.2024-06.02.2024	1000.00
41	Sourav Chatterjee	Anaconda	Annual	08.01.2024-07.01.2025	15000.00
42	Moitri Das	Rock Python	Annual	10.01.2024-09.01.2025	15000.00
43	Saptarshi Maulik & Sohini Sengupta	Chimpanzee(Male )	Annual	11.01.2024-10.01.2025	30000.00
44	Roshni Das Bhattacharya	Iguana	Annual	14.01.2024-13.01.2025	5000.00
45	Pamela Chakroborty Dutta	Normal Colour Peafowl(Male)	Annual	12.01.2024-11.01.2025	5000.00
46	Suroshree Ganguly	White Swan	Monthly	15.01.2024-14.02.2024	500.00
47	Veena Hingarh & Priti Chatter	Elephant	Annual	18.01.2024-17.01.2025	200000.00
48	Arif Ahmed	Python	Annual	19.01.2024-18.01.2025	15000.00
49	Saikat Mitra	Chimpanzee	Annual	19.01.2024-18.01.2025	30000.00
50	Saptarshi Das & Puja Roy Das	Black Swan	Annual	18.01.2024-17.01.2025	10000.00
51	Veena Hingarh	Red & Blue Macaw	Annual	20.01.2024-19.01.2025	10000.00
52	Debashis Gangopadhyay	Emu	Annual	27.01.2024-26.01.2025	10000.00
53	Ashish Kanjilal	Scarlet Macaw	Annual	13.02.2024-12.02.2025	10000.00
54	Anshul Jain	Chimpanzee	Annual	20.02.2024-19.02.2025	30000.00
55	Shambo Mukherjee	White Parakeet	Annual	21.02.2024-20.02.2025	4000.00
56	Shambo Mukherjee	Iguana	Annual	21.02.2024-20.02.2025	5000.00
57	Monami Basu	Painted Stork	Annual	28.02.2024-27.02.2025	7000.00
58	Inner Wheel Club of Calcutta Eastland, District-329	Black & White ruffed Lemur	Annual	28.02.2024-27.02.2025	5000.00

59	Bipul Islam on behalf of M.Sc Zoology, Calcutta University Batch:1985-87	Zebra	Annual	17.03.2024-16.03.2025	30000.00
60	Upasana Dutta	Elephant	Monthly	24.04.2024-23.05.2024	20000.00
61	Subham Agarwal	Rose-ringed Parakeet	Annual	30.3.2024-29.03.2025	3000.00
<b>Total</b>					<b>1842200.00</b>



# 27 Annual Inventory of Animals

## Endangered Species\*

Sl.No	Animal Name	Scientific Name	Opening Stock (01-Apr-2023)				Births			Acquisitions			Disposals			Deaths			Closing Stock (31-Mar-2024)								
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T					
<b>Mammals</b>																											
1.	Tiger (leucistic/White)	<i>Panthera tigris</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2		
2.	Bengal Tiger	<i>Panthera tigris tigris</i>	2	2	0	4	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	3	2	0	5	
3.	Asiatic Lion	<i>Panthera leo persica</i>	1	3	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	4	
4.	Leopard	<i>Panthera pardus</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	
5.	Asiatic Wild Dog	<i>Cuon alpinus</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
6.	Indian Grey Wolf	<i>Cuon lupus pallipes</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
7.	Sloth Bear	<i>Melursus ursinus</i>	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	
8.	Himalayan Black Bear	<i>Ursus thibetanus</i>	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	
9.	Fishing Cat	<i>Prionailurus viverrinus</i>	2	2	1	5	0	0	0	6	0	0	2	0	2	0	0	0	0	0	0	2	3	4	3	10	
10.	Jungle Cat	<i>Felis chaus</i>	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	
11.	Bonnet Macaque	<i>Macaca radiata</i>	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
12.	Western Hoolock	<i>Hoolock hoolock</i>	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	
13.	Indian Elephant	<i>Elephas maximus</i>	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	
14.	Indian Rhinoceros	<i>Rhinoceros unicornis</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
15.	Blackbuck	<i>Antelope cervicapra</i>	1	1	1	3	3	2	6	0	0	0	0	0	0	0	0	0	0	0	0	2	0	3	6	12	
16.	Swamp Deer	<i>Rucervus duvaucelii</i>	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
17.	Brow-antlered Deer	<i>Rucervus eldii</i>	8	9	5	22	2	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0	4	11	12	5	28
18.	Mouse Deer	<i>Moschiola indica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.	Four-horned Antelope	<i>Tetracerus quadricornis</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

Sl.No	Animal Name	Scientific Name	Opening Stock (01-Apr-2023)				Births			Acquisitions			Disposals			Deaths			Closing Stock (31-Mar-2024)							
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T				
<b>Birds</b>																										
1.	Malabar Pied Hornbill	<i>Anthraceros</i>	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
2.	Common Hill Myna	<i>Gracula religiosa</i>	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
3.	Kalij Pheasant	<i>Lophura leucomelanos</i>	1	1	0	2	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4

SI.No	Animal Name	Scientific Name	Opening Stock (01-Apr-2023)						Births						Acquisitions						Disposals						Deaths						Closing Stock (31-Mar-2024)					
			M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T				
4.	Indian Peafowl	<i>Pavo cristatus</i>	6	4	2	10	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	6	15				
5.	Peafowl (leucistic)	<i>Pavo cristatus</i>	3	1	4	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	4	8								
6.	Eurasian Spoonbill	<i>Platalea leucorodia</i>	0	0	14	14	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	3	0	2	0	0	0	0	14								
7.	Grey Peacock Pheasant	<i>Polyplectron</i>	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5								
<b>Reptiles</b>																																						
1.	Marsh Crocodile	<i>Crocodylus palustris</i>	2	3	7	12	0	0	0	12	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	21								
2.	Saltwater Crocodile	<i>Crocodylus porosus</i>	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	2								
3.	Gharial	<i>Gavialis gangeticus</i>	0	5	0	5	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6								
4.	Reticulated Python	<i>Malayopython</i>	1	1	0	2	0	0	0	7	0	0	0	0	1	0	1	0	1	0	1	0	1	0	1	0	0	0	5	5								
5.	Burmese Python	<i>Python bivittatus</i>	1	1	0	2	0	0	0	10	0	0	0	0	1	0	1	0	1	0	1	0	0	0	0	0	0	0	9	9								
6.	Indian Rock Python	<i>Python molurus</i>	1	1	0	2	0	0	0	16	0	0	0	0	1	1	9	0	1	0	0	0	1	0	0	0	0	0	7	7								
7.	Monocled Cobra	<i>Naja kaouthia</i>	0	0	5	5	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	10								
8.	Spectacled Cobra	<i>Naja naja</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1								
9.	Common Rat Snake	<i>Ptyas mucosa</i>	0	0	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	6	6								
10.	Russell's Viper	<i>Daboia russelli</i>	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4								
11.	Checked Keelback	<i>Fowlea pistacior</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
12.	Yellow Monitor Lizard	<i>Varanus flavescens</i>	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2								
13.	Asian Water Monitor	<i>Varanus salvator</i>	0	0	25	25	0	0	0	8	0	0	0	0	2	2	3	0	2	2	3	0	0	0	0	0	0	0	25	25								

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

**Other than Endangered Species\***

S.No.	Animal Name	Scientific Name	Opening Stock (01-Apr-2023)						Births						Acquisitions						Disposals						Deaths						Closing Stock (31-Mar-2024)					
			M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T				
<b>Mammals</b>																																						
1.	Chital/ Spotted Deer	<i>Axis axis</i>	5	9	15	29	10	17	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	1	8	60							
2.	Nilgai	<i>Posephaps</i>	0	0	7	7	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	7								
3.	Sambar Deer	<i>Rusa unicolor</i>	1	2	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4								





# 28 Mortality of Animals

Month	Sl No.	Name of the animal	Date of death	Cause of death	Remarks
APR	1	Hill Myna (M)	02/04/23	Respiratory tract infection	
	2	Indian Rat Snake (F)	02/04/23	Pneumonia	
	3	Indian Rat Snake (M)	06/04/23	Pneumonia	
	4	Black Buck (M)	14/04/23	Chronic Myopathy and renal failure	
	5	Java Sparrow (M)	25/04/23	Hepatitis	
	6	Helmeted Curassow (F)	25/04/23	Traumatic Shock	
	7	Monocled Cobra (F)	25/04/23	Pneumonia	
	8	Red & Blue Macaw (M)	28/04/23	Hepatic disorder	
MAY	9	Spoon Bill (M)	03/05/23	Multi-organ failure	
	10	Zebra foal (M)	07/05/23	Acute Impaction and Respiratory infection	
	11	Hill Myna (M)	11/05/23	Nodular Pulmonary disease	
	12	B.A. Deer sub-adult (M)	20/05/23	Internal injury & Septicaemia	
	13	Grey Francolin (M)	21/05/23	Acute hepatic insufficiency	
	14	Jungle Cat (F)	27/05/23	Multi-organ failure due to gangrenous septicaemia	
JUNE	15	Crimson Bellied Conure (M)	03/06/23	Hypo-volumic shock	
	16	Jackal (M)	05/06/23	Multi-organ failure	
JUL	17	Tokay gecko (M)	01/07/23	Haemorrhagic enteritis	
	18	Common Marmoset (M)	10/07/23	Renal failure & senility	
	19	Banded krait (F)	12/07/23	Ulcerative nodular Enteritis	

JUL	20	Spotted Deer (M)	17/07/23	Multi organ failure	
	21	Wild Dog (F)	20/7/23	Multi organ failure due to babesiosis	
	22	Barking Deer (fawn)	26/07/23	Pneumonia	
	23	Giraffe Calf (F)	27/07/23	Cardio respiratory failure with cervical spondylopathy	
	24	Burmese Python (M)	30/07/23	Pneumonia	
AUG	25	Ostrich (M)	27/08/23	Paralysis with Toxaemia	
SEP	26	Hedge Hog (M)	12/09/23	Renopathy	
	27	Marsh Crocodile (M)	23/09/23	Infighting & Septicaemia	
OCT	28	Burmese Python (M)	01/10/23	Toxaemia	
	29	Spotted Deer (F)	02/10/23	Per-acute infection	
	30	Nilgai (M)	15/10/23	Pericardial effusion	
	31	Barking Deer M ( Calf)	17/10/23	Starvation	
	32	Tokay gecko (M)	17/10/23	Hepatitis	
	33	B.A. Deer F (Fawn)	30/10/23	Pericardial effusion	
NOV	34	Cockatiel (M)	08/11/23	Lower respiratory tract infection	
	35	Nilgai Calf (F)	11/11/23	Metabolic bone disease	
NOV	36	B.A. Deer fawn (M)	18/11/23	Pericardial Effusion	
	37	Finch (M)	20/11/23	Hepatic lipidosis	
	38	Cockatiel (M)	20/11/23	Enteritis	
	39	Cockatiel (M)	21/11/23	Enteritis	
	40-41	Hill Myna (M)	23/11/23	Chronic Wasting Disease	
	42	Reticulated Python (F)	23/11/23	Multi organ failure and tumor in GI tract	
	43-44	Cockatiel (F)	27/11/23	Haemorrhagic Typhlitis	
	45	Cockatiel (F)	29/11/23	Enteritis	

	46	Porcupette (U)	29/11/23	Unfit for PM	
DEC	47	Porcupine (F)	01/12/23	Septicaemia with senility	
	48	Cockatiel (F)	10/12/23	Coccidiosis	
	49	Cockatiel (M)	13/12/23	Coccidiosis	
	50	Mexican red headed Amazon parrot (M)	13/12/23	Typhlitis	
	51	Hahn's Macaw (F)	13/12/23	Shock due to injury	
	52	Amazon Parrot (M)	14/12/23	Enteritis	
	53	TemincksTragopan (F)	14/12/23	Transport Stress	
	54	Cockatiel (M)	15/12/23	Coccidiosis	
	55	Spotted Deer (M)	18/12/23	Ascites & Pleural Effusion	
	56	Reticulated Python (M)	18/12/23	Carcass putrefied	
JAN	57	Tigress Rani (White Tiger)	02/01/24	Hepato renal failure	
	58	Painted Stork (F)	05/01/24	Cloacal Prolapse	
	59	Spotted Deer (M)	08/01/24	Starvation	
	60	Four Horned Antelope (M)	10/01/24	Clostridium septicum infection	
	61	Spotted Deer Calf (New born)	15/01/24	Cold Shock	
	62	Sub-adult Iguana (F)	16/01/24	Respiratory tract infection	
	63	Spoon bill (New born chicks)	22/01/24	Not fit for PM	

	64	B.A. Deer (F)	24/01/24	Pneumonia	
	65	Spoon bill chick (M)	24/01/24	Shock	
	66	Iguana (F)	24/01/24	Enteritis	
	67	Iguana (Sub-adult) (M)	25/01/24	Asphyxia	
	68	Barking Deer (M)	27/01/24	Per-acute bacterial disease	
	69	Spoon bill chick (M)	27/01/24	Yolk sac peritonitis	
	70	Green Iguana (Sub-adult) (F)	27/01/24	Cold shock	
	71	Green Iguana (M)	30/01/24	Emphysema	
	72	Four Horned Antelope (M)	31/01/24	Toxaemia	
	73-74	Green Iguana (2M)	31/01/24	Shock	
FEB	75	Monitor Lizard	04/02/24	Hepatitis	
	76	Baby Iguana (M)	04/02/24	Metabolic disease	
	77	Iguana (M)	05/02/24	Metabolic disease	
	78	Baby Iguana (F)	06/02/24	Hepatopathy & Pneumonia	
	79-80	Mexican red headed Amazon parrot	07/02/24	Aspergillosis	
	81	Pintail Duck(M)	09/02/24	Chronic wasting disease	
	82	Jungle Cat (M)	13/02/24	Ascites and pleural effusion	
	83	Painted Stork (M)	14/02/24	Traumatic Shock	
FEB	84	Nilgai (M)	17/02/24	Theileriosis	
	85	Pigeon (M)	17/02/24	Chronic wasting disease	
	86	Red ear Turtle (M)	17/02/24	Hepatitis	
	87	Mexican Red Headed Amazon Parrot (M)	19/02/24	Aspergillosis	
	88	Albino Mandarin Duck (M)	20/02/24	E coli infection	

	89	Lutino Parakeet (M)	23/02/24	Candidiosis and E coli infection	
	90-92	Lutino Parakeet (M)	23/02/24	Candidiosis and E coli infection	
	93	Spotted Deer Calf (M)	23/02/24	Clostridium perfringens infection	
	94-99	Rose ring parakeet (F)	24/02/24	Infectious Bronchitis	
	100	Blue parakeet (M)	25/02/24	Infectious Bronchitis	
	101	Albino parakeet (F)	26/02/24	Infectious Bronchitis	
	102	Albino parakeet (M)	27/02/24	Infighting Injury	
	103	Star Tortoise (M)	27/02/24	Unfit for PM	
MAR	104	Pigeon (F)	02/03/24	Shock	
	105	Painted Stork (M)	05/03/24	Infectious Bronchitis	
	106	Black buck (M)	07/03/24	Cardio respiratory failure	
	107	Ind Quail (M)	09/03/24	Infectious Bronchitis	
	108	Spoon bill chick	10/03/24	Not fit for PM	
	109	Ball Python (F)	10/03/24	Respiratory tract infection disease	
	110	Fishing Cat (M)	11/03/24	Mycoplasmosis	
	111	Barking Deer fawn (M)	11/03/24	Claustridial infection	
	112	Giraffe calf (F)	14/03/24	Hepatorenal failure	
	113	Zebra (F)	14/03/24	Hyperthermia & Shock	
	114	Western crown pigeon (M)	18/03/24	Infectious Bronchitis	
	115	Cockatiel (F)	21/03/24	Haemorrhagic Proventriculitis	
	116	Scarlet Macaw (M)	28/03/24	New castle disease and candidiasis	



# 29 Status of the Compliance With Conditions Stipulated by the Central Zoo Authority

During this period no conditions was stipulated by CZA for its compliance so it may be treated as nil.

Sl. No.	Norm under 2009	No. RZR,	Condition Stipulated	Time period to Comply	Since when pending	Status with regard to compliance of the conditions
-	-	-	-	-	-	-



# 30 List of free living wild animals within the zoo premises

## Butterfly

Sl. No.	Family	Scientific Name	Common Name
Lepidoptera (Butterflies & Moths)			
1.	Crambidae	<i>Arthroschista hilaralis</i> (Walker, 1859)	-
2.		<i>Cnaphalocrocis medinalis</i> (Guenée, 1854)	Rice Leafroller
3.		<i>Cnaphalocrocis rutilalis</i> (Walker, [1859])	-
4.		<i>Maruca vitrata</i> Fabricius, 1787	Legume Pod Borer
5.		<i>Metoeca foederalis</i> (Guenée, 1854)	-
6.		<i>Metoeca</i> sp.	-
7.		<i>Omiodes diemenalis</i> (Guenée, 1854)	Bean Leaf-roller
8.		<i>Spoladea recurvalis</i> (Fabricius, 1775)	Beet Webworm Moth
9.		<i>Elophila difflualis</i> (Snellen, [1880])	-
10.		<i>Elophila</i> sp.	-
11.		<i>Paracataclysta fuscalis</i> (Hampson, 1893)	-
12.		<i>Parapoynx diminutalis</i> Snellen, 1880	Hydrilla Leafcutter Moth
13.		<i>Parapoynx stagnalis</i> (Zeller, 1852)	-
14.	Erebidae	<i>Lithosiini</i> sp.	-
15.		<i>Syntomoides imaon</i> (Cramer, 1780)	Handmaiden Moth
16.		<i>Aroa</i> sp.	-
17.		<i>Asota caricae</i> (Fabricius, 1775)	-
18.		<i>Progonia kurosawai</i> Owada, 1987	-
19.	Geometridae	<i>Sterrhinae</i> sp.	-
20.		<i>Pelagodes-Thalassodes</i> sp.	-
21.		<i>Achrosis cf. rondelaria</i>	-

22.	Hesperiidae	<i>Pelopidas agna</i> (Moore, [1866])	Obscure-branded Swift
23.		<i>Pelopidas mathias</i> (Fabricius, 1798)	Small-branded Swift
24.		<i>Telicota bambusae</i> (Moore, 1878)	Dark Palm Dart
25.	Lycaenidae	<i>Anthene emolus</i> (Godart 1823)	Common Ciliate Blue
26.		<i>Chilades pandava</i> (Horsfield, [1829])	Plains Cupid
27.		<i>Pseudozizeeria maha</i> (Kollar, [1844])	Pale Grass Blue
28.	Noctuidae	<i>Spodoptera litura</i> (Fabricius, 1775)	Cotton Leafworm
29.		<i>Noctuidae</i> sp.	-
30.	Nolidae	<i>Nola internella-analis</i> complex	-
31.		<i>Nola taeniata</i> Snellen, 1875	-
32.	Nymphalidae	<i>Euploea core</i> (Cramer, [1780])	Common Crow
33.		<i>Melanitis leda</i> (Linnaeus, 1758)	Common Evening Brown
34.		<i>Mycalesis perseus</i> (Fabricius, 1775)	Common Bushbrown
35.		<i>Elymnias hypermnestra</i> (Linnaeus, 1763)	Common Palmfly
36.		<i>Moduza procris</i> (Cramer, [1777])	Commander
37.		<i>Acraea terpsicore</i> (Linnaeus, 1758)	Tawny Coster
38.		<i>Phalanta phalantha</i> (Drury, [1773])	Common Leopard
39.		<i>Junonia almana</i> (Linnaeus, 1758)	Peacock Pansy
40.		<i>Junonia atlites</i> (Linnaeus, 1763)	Grey Pansy
41.		Papilionidae	<i>Graphium Agamemnon</i> (Linnaeus, 1758)
42.	<i>Papilio demoleus</i> Linnaeus, 1758		Lime Swallowtail
43.	<i>Papilio polytes</i> Linnaeus, 1758		Common Mormon
44.	Pieridae	<i>Catopsilia pyranthe</i> (Linnaeus, 1758)	Mottled Emigrant
45.		<i>Catopsilia Pomona</i> (Fabricius, 1775)	Common Emigrant
46.		<i>Leptosia nina</i> (Fabricius, 1793)	Psyche
47.		<i>Delias eucharis</i> (Drury, 1773)	Common Jezebel
48.		<i>Appias olferna</i> Swinhoe, 1890	Eastern Striped Albatross
49.	Pterophoridae	<i>Pterophoridae</i> sp.	True Plume Moth
50.	Uraniidae	<i>Phazaca</i> cf. <i>theclata</i>	-

## Amphibia

Sl. No.	Family	Scientific Name	Common Name
1.	Bufonidae	<i>Duttaphrynus melanostictus</i> (Schneider, 1799)	Common Indian Toad
2.	Dicroglossidae	<i>Fejervarya orissaensis</i> Dutta, 1997	Orissa Cricket Frog
3.		<i>Minervarya Agricola</i> (Jerdon, 1853)	Agricolated Cricket Frog
4.		<i>Euphlyctis cyanophlyctis</i> (Schneider, 1799)	Common Skittering Frog
5.	Microhylidae	<i>Microhyla nilphamariensis</i> Howlader et al., 2015	Nilphamari Narrow Mouthed Frog
6.	Rhacophoridae	<i>Polypedates bengalensis</i> Purkayastha et al., 2019	Bengal Tree Frog

## Reptiles (Lizards)

Sl. No.	Family	Scientific Name	Common Name
1.	Agamidae	<i>Calotes versicolor</i> (Daudin, 1802)	Oriental Garden Lizard
2.	Gekkonidae	<i>Hemidactylus flaviviridis</i> Rüppell, 1835	Yellow-green House Gecko
3.		<i>Hemidactylus frenatus</i> Duméril & Bibron, 1836	Asian House Gecko
4.		<i>Hemidactylus leschenaultii</i> Duméril & Bibron, 1836	Bark Gecko
5.		<i>Hemidactylus brookii</i> Gray, 1845	Ground Gecko
6.		<i>Hemidactylus flaviviridis</i> Rüppell, 1835	Yellow-green House Gecko

## Reptiles (Snakes)

Sl. No.	Family	Scientific Name	Common Name
1.	Colubridae	<i>Amphiesma stolatum</i> (Linnaeus, 1758)	Buff-striped Keelback
2.		<i>Fowlea piscator</i> (Schneider, 1799)	Checkered Keelback
3.		<i>Ptyas mucosa</i> (Linnaeus, 1758)	Oriental Rat Snake
4.		<i>Lycodon aulicus</i> (Linnaeus, 1758)	Common Wolf Snake
5.	Elapidae	<i>Naja kaouthia</i> Lesson, 1831	Monocellate Cobra
6.	Viperidae	<i>Daboia russelii</i> (Shaw & Nodder, 1797)	Russell's Viper

## Birds

Sl. No.	Family	Scientific Name	Common Name
1.	Alcedinidae	<i>Pelargopsis capensis</i> (Linnaeus, 1766)	Stork-billed Kingfisher
2.	Accipitridae	<i>Accipiter badius</i> (Gmelin, JF, 1788)	Shikra
3.		<i>Milvus migrans</i> (Boddaert, 1783)	Black Kite
4.		<i>Alcedo atthis</i> (Linnaeus, 1758)	Common Kingfisher
5.	Apodidae	<i>Cypsiurus balasiensis</i> (J.E. Gray, 1829)	Asian Palm Swift
6.	Ardeidae	<i>Ardeola grayii</i> (Sykes, 1832)	Indian Pond Heron
7.		<i>Nycticorax nycticorax</i> (Linnaeus, 1758)	Black-crowned Night Heron
8.		<i>Bubulcus ibis</i> (Linnaeus, 1758)	Cattle Egret
9.	Cisticolidae	<i>Orthotomus sutorius</i> (Pennant, 1769)	Common Tailorbird
10.	Columbidae	<i>Spilopelia chinensis</i> (Scopoli, 1786)	Spotted Dove
11.		<i>Columba livia</i> Gmelin, JF, 1789	Common Pigeon
12.		<i>Treron phoenicopterus</i> (Latham, 1790)	Yellow-footed Green Pigeon
13.		<i>Streptopelia decaocto</i> (Frisvaldszky, 1838)	Eurasian Collared Dove
14.	Corvidae	<i>Corvus splendens</i> Vieillot, 1817	House Crow
15.		<i>Corvus leuallantii</i> Lesson, 1831	Eastern Jungle Crow
16.		<i>Dendrocitta vagabunda</i> (Latham, 1790)	Rufous Treepie
17.	Cuculidae	<i>Eudynamys scolopaceus</i> (Linnaeus, 1758)	Asian Koel
18.		<i>Centropus sinensis</i> (Stephens, 1815)	Greater Coucal
19.	Dicruridae	<i>Dicrurus macrocercus</i> Vieillot, 1817	Black Drongo
20.	Halcyoninae	<i>Halcyon smyrmensis</i> (Linnaeus, 1758)	White-throated Kingfisher
21.	Megalaimidae	<i>Psilopogon lineatus</i> (Vieillot, 1816)	Lineated Barbet
22.		<i>Psilopogon asiaticus</i> (Latham, 1790)	Blue-throated Barbet
23.		<i>Psilopogon haemacephalus</i> (Statius Müller, 1776)	Coppersmith Barbet
24.	Motacillidae	<i>Motacilla alba</i> Linnaeus, 1758	White Wagtail
25.	Muscicapidae	<i>Copsychus saularis</i> (Linnaeus, 1758)	Oriental Magpie Robin
26.	Nectariniidae	<i>Leptocoma zeylonica</i> (Linnaeus, 1766)	Purple-rumped Sunbird
27.	Oriolidae	<i>Oriolus xanthornus</i> (Linnaeus, 1758)	Black-hooded Oriole
28.	Passeridae	<i>Passer domesticus</i> (Linnaeus, 1758)	House Sparrow
29.	Phalacrocoracidae	<i>Phalacrocorax fuscicollis</i> Stephens, 1826	Indian Cormorant
30.		<i>Microcarbo niger</i> (Vieillot, 1817)	Little Cormorant

31.	Phylloscopidae	<i>Phylloscopus trochiloides</i> (Sundevall, 1837)	Greenish Warbler
32.	Picidae	<i>Dinopium benghalense</i> (Linnaeus, 1758)	Lesser Goldenback
33.	Pycnonotidae	<i>Pycnonotus cafer</i> (Linnaeus, 1766)	Red-vented Bulbul
34.	Rallidae	<i>Amauromis phoenicurus</i> (Pennant, 1769)	White-breasted Waterhen
35.	Sturnidae	<i>Acridotheres fuscus</i> (Wagler, 1827)	Jungle Myna
36.		<i>Gracupica contra</i> (Linnaeus, 1758)	Asian Pied Starling
37.	Turdidae	<i>Geokichla citrina</i> (Latham, 1790)	Orange-headed Thrush

## Mammals

Sl. No.	Family	Scientific Name	Common Name
1.	Herpestidae	<i>Urva edwardsii</i> (É. Geoffroy Saint Hilaire, 1818)	Indian Grey Mongoose
2.		<i>Urva auropunctata</i> (Hodgson, 1836)	Small Indian Mongoose
3.	Pteropodidae	<i>Pteropus medius</i> Temminck, 1825	Indian Flying Fox
4.	Sciuridae	<i>Funambulus pennantii</i> Wroughton, 1905	Five-striped Palm Squirrel



# 31 List of trees in Zoological Garden, Alipore

Sl. No.	Family	Common name	Botanical Name
1.	Anacardiaceae	Aam	<i>Mangifera indica</i> L
2.	Annonaceae	Debdaru	<i>Polyalthia longifolia</i> . (Sonn.) Thwaites
3.		Ata(nona) fal	<i>Annona reticulata</i> . L
4.	Apocynaceae	Kurchi	<i>Hollarehna antidysenterica</i> .(L.) Wall. ex A. DC
5.		Chatim	<i>Alstonia scholaris</i> . (L) R.Br
6.	Araceae	Golden pothos	<i>Epipremnum aureum</i> .L & A
7.	Arecaceae	Fish Tail palm	<i>Caryota urens</i> .L
8.		Tal	<i>Borassus flabellifer</i> .L
9.		Fox tail palm	<i>Wodyetia bifurcate</i> A.k.Irvine
10.		Royal palm	<i>Roystonea regia</i> (Kunth)
11.		Wild areca palm	<i>Areca triandra</i> Roxb.
12.	Aurocariaceae	Aurocaria	<i>Aurocaria columnaris</i> . J.R.Frost. Hook
13.	Bignoniaceae	Yellow tabebuia	<i>Tabebuia aurea</i> . Benth & Hook.
14.		Pink trumpet	<i>Handroanthus impetiginosus</i> . Mart. Ex Dc
15.		Calabash	<i>Crescentia cujete</i> (L.)
16.		Katsagon	<i>Haplophragma adenophyllum</i> Wall ex. G.Don
17.		Rudrapalash	<i>Spathodea campanulata</i> P.Beauv.
18.	Boraginaceae	Indian cherry	<i>Cordia dichotoma</i> G. Forst.
19.		Indian cherry	<i>Cordia dichotoma</i> G.Forst.
20.		Brown ceder	<i>Ehretia acuminata</i> R.Br.
21.	Calophyllaceae	Nageswar	<i>Mesua ferea</i> (L.)
22.		Mast wood	<i>Calophyllum inophyllum</i> (L.)
23.	Cannabaceae	Indian Charcoal T	<i>Trema orientale</i> (L). blume
24.	Casuarinaceae	Jhaw	<i>Casuarina equisetifolia</i> (L.)
25.	Combretaceae	Satellite tree	<i>Terminalia mantaly</i> H. perrier
26.		Bahera	<i>Terminalia belerica</i> (Gaertn.) Roxb
27.		Arjun	<i>Terminalia arjuna</i> (Roxb.)
28.		-	<i>Terminalia leiocarpa</i> (DC.) baill.
29.		Chakawa	<i>Anogeissus acuminata</i> (Roxb.ex DC.)
30.	Diptrocarpaceae	Sal	<i>Shorea robusta</i> . Roth

31.	Fabaceae	Rose of venezuela	Brownia grandiceps . Jacq	
32.		Ashok	Saraca asoca (Roxb) Wild.	
33.		Sonalu	Cassia fistula. L	
34.		Sweti sal	Dalbargia latifolia. Roxb	
35.		Sissoo	Dalbergia sissoo. Roxb.	
36.		Lal Kanchan	Bauhinia purpurea.L	
37.		Radhachura	Peltophorum pterocarpum. (DC).K.H	
38.		Palash	Butea monosperma .(Lam.) Taub.	
39.		Pink cassia	Cassia nodosa. L	
40.		Tetul	Tamarindus indica. L	
41.		Palash	Butea monosperma. (Lam.) Taub	
42.		Andaman red wood	Pterocarpus indicus Willd.	
43.		Pink cassia	Cassia nodosa Roxb.	
44.		Coral wood	Adenanthera pavonina L.	
45.		Lamiaceae	Segun	Tectona grandis. L.f
46.			Headache tree	Premna serratifolia L.
47.	Lauraceae	Kukurchita	Litsea glutinosa (Lour.) C.B. Rob	
48.	Lecythydaceae	Kumbi	Careya arborea Roxb.	
49.		Hijal	Barringtonia acutangula ( L).Gaertn.	
50.	Licythydaceae	Naglingam	Couroupita guianensis Aubl.	
51.	Lythraceae	Jarul	Lagerstroemia speciosa.(L). Pers	
52.		Jarul	Lagerstroemia speciosa (L.) Pers.	
53.	Magnoliaceae	champ	Michelia champaca L.	
54.	Malvaceae	Kanak Champa	Pterospermum acerifolium.(L).Willd.	
55.		Baobab tree	Adansonia digitata. L	
56.		Wild almond tree	Sterculia foetida (L.)	
57.		Buddha coconut	Pterygota alata (Roxb.)	
58.		Tulip Mangrove	Heritiera littoralis Aiton	
59.		Simul	Bombax ceiba (L.)	
60.		Sundari	Heritiera littoralis (Aiton.)	

Sl. No.	Family	Common name	Botanical Name
61.	Meliaceae	Lambu	Khaya anthotheca (Welw.) C.DC.
62.		Mehogani	Swietenia Mahagoni (Macro).L.Jacq
63.		Neem	Azadirachta indica. A. Juss.
64.		Mehogani	Swietenia mahogoni (micro).L. Jacq.
65.		Lali	Amoora wallichii King
66.		Ghora neem	Melia azedarach .L
67.		Toon	Toona ciliate M. roem.
68.	Moraceae	Chinese Banyan	<i>Ficus benjamina</i> . L
69.		Deufal/Baral	Artocarpus lacucha Buch.-Ham.
70.		sheora	Stebulus asper. Lour
71.		Rubber tree	Ficus elastic Roxb.
72.		Triangle tree	Ficus triangularis
73.		Aswatha	Ficus religiosa. L
74.		Bat	Ficus benghalensis. L
75.		-	Ficus altissima Blume.
76.		Fiddle leaf Fig	Ficus lyrata warb.
77.		Krishna Bat	Ficus Krishnae C.D.C
78.	Myrtaceae	Jamun/Jam	Syzygium cumini (L.)
79.		Jamrul	Syzygium samarangense Blume.
80.	Nyctaginaceae	Bougenvelia	Bougainvelia glabra
81.	Oxalidaceae	Bilimbi	Averrhoa bilimbi Linn.
82.	Phyllanthaceae	Amlaki	Phyllanthus emblica L.
83.	Pinaceae	Chir pine	Pinus roxburghii. Sarg
84.	Putranjivaceae	Putranjeva	Putranjiva roxburghii. Wall
85.	Rhamnaceae	Kul	Ziziphus jujuba. Mill.
86.	Rhizophoraceae	Kankra	Bruguiera cylindrical (L.) Blume
87.	Rubiaceae	Kadam	<i>Anthocephalus cadamba</i> .(Roxb).Miq
88.		Rangan (white)	Ixora Sp
89.	Rutaceae	Bel	Aegle marmelos. L
90.		Kamini	Murraya paniculata. L
91.	Sapindaceae	Ashfal	Dimocarpus longan. Lour
92.	Sapotaceae	Bakul	Mimusops elengi .L
93.		Mahua	Madhuca longifolia J.F.Macbr.
94.		Sabeda	Manilkara zapota L.P.Royen.
95.	Verbenaceae	Purple/Queen's wreath	Petrea volubilis L.

# 32 Security Audit of The Zoo

## What is a security Audit?

A security audit systematically examines an organization's security systems, data protection policies, and safety procedures. It looks for security vulnerabilities that can penetrate the organization's information assets, Physical assets, and personnel.

A security audit assesses the effectiveness of existing security measures, detects security gaps and weaknesses, and recommends improvements to mitigate security risks.

## How Often Should a Security Audit be Conducted?

Security audits should be conducted at least once or twice a year, depending on the type of data the organization deals with. While vulnerability assessments are quick automated scans that can be conducted daily, penetration testing is time-consuming, making it best suited for a bi-annual basis.

## Planning and Scoping

The first stage of a security audit is planning and defining the audit's scope. This includes determining the audit's parameters, the regions to be assessed, the audit team, and the necessary resources. The team will also specify the audit's goals, anticipated results, and schedule.

## Information Gathering

The next stage in a security audit is obtaining information on the organization's systems, procedures, and controls. This includes technical evaluations, analyzing paperwork, and speaking with essential persons. The audit team will then use this data to pinpoint security holes and threats.

## Risk Assessment

Once the security audit tool has gathered sufficient information, a risk assessment is conducted to identify potential security risks and vulnerabilities.

## Testing and Evaluation

After that, the audit team will conduct several tests and assessments to determine the effectiveness of the organization's security measures. This may involve vulnerability scans, penetration testing, social engineering tests, or other types of security assessments.

## Reporting

The final step in a security audit is preparing a report summarizing the audit findings and recommendations. This report will typically include an executive summary, a detailed analysis of the findings, and suggestions for improving the organization's security posture.

## Findings and Recommendations

After the security audit, the potential risks and vulnerabilities are discussed, and recommendations are made to improve the organization's security posture. The audit team may also provide a risk rating for each identified risk based on its likelihood and impact.

### Physical Security

- Check if physical security measures (e.g., cameras, locks, alarms) are in place and functioning correctly.
- Adequate access control should be enforced.

### Reasons to Conduct Regular Security Audits

1. Identify and Address Security Vulnerabilities : Regular security audits can help organizations find security flaws and vulnerabilities in their networks, systems, and procedures. They can also fix these weaknesses and lower the risk of a security breach.

2. Stay Compliant with Regulations : Many industries have regulations and standards that require organizations to maintain specific levels of security. Organizations can ensure they comply with rules and fulfill these obligations by conducting regular security audits.

3. Proactively Address Emerging Threats : Security threats and vulnerabilities are constantly evolving. Regular security audits help organizations stay aware of emerging threats and proactively address them before they become significant risks.

4. Maintain Customer Trust : A security breach could result in severe repercussions for an organization, including monetary losses and reputational harm. Frequent security audits show stakeholders and customers that a company values security and is dedicated to

upholding a reliable security posture.

For the first time in 2023-24, Security Audit of physical security of the Zoological Garden, Alipore was conducted. For conducting security Audit in ZGA, interested parties were asked to quote rates. M/S Green World Ecosystem Management Private Limited were selected as per their quote and they conducted the security Audit of physical security and submitted a detailed report.

Gist of the report as per their observations is as follows :

“The zoo has adequate nos. of CCTV cameras to covering all areas. The audit also noted the security personnel of the zoo are dutiful and maintain timing properly. Recommendations included upgrading infrastructure, enhancing surveillance, and providing regular training for zoo personnel”.

It may also be mentioned that the zoo maintains constant vigil regarding cybersecurity over its Network System.



মঙ্গলবার ছিল বিশ্ব কচ্ছপ দিবস। এই উপলক্ষে আলিপুর চিড়িয়াখানার বাসিন্দা কচ্ছপটিকে পরিচর্যা করছেন এক কর্মী।  
উল্লেখ্য, জামাই বর্ষী উপলক্ষে বৃহস্পতিবার চিড়িয়াখানা খোলা থাকবে, বন্ধ থাকবে শুক্রবার। —দিলীপ দত্ত



## ZOO FESTIVAL 2023

স্কুল ও কলেজ পড়ুয়াদের জন্য বিশেষ প্রতিযোগিতা  
উদ্যোগ আলিপুর চিড়িয়াখানার

পাঁচ দিনের এই জু ফেস্টিভ্যাল-এ অংশগ্রহণ করেছেন ১,০০০ পড়ুয়া। এই ফেস্টিভ্যাল চলবে ১১ থেকে ১৫ সেপ্টেম্বর পর্যন্ত

## বড়দিনে অকাল গরমকে হারিয়েই দিকে দিকে জনপ্লাবন

বড়দিনের সকালে হাডু কাঁপানো ঠান্ডার বদলে অকাল গরমের সাক্ষী থাকল শহর। তার সঙ্গে পাল্লা দিয়ে ভিড়ে নাজেহাল হয়ে অনেকেই প্রশ্ন করতে  
“এটা সত্যি সত্যি শীতকাল তো?”



#King #Cobra #Alipore Zoo  
#Alipore #Zoo



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Bangla News > Videos > Interesting Art Festival At Alipur Zoo

## Zoo Art Fest: খাঁচায় বাঘ-সিংহ, বাইরে লোকশিল্প

গ্রামীণ প্রান্তিক মানুষদের লোকশিল্পের সম্ভার আলিপুর চিড়িয়াখানায়। রাজ্যের বিভিন্ন জেলা থেকে এসেছেন শিল্পীরা। কেউ কাজ কেউ কাঠের কেউ আবার ডোকরা কিংবা কাঁথার। গ্রামীণ জনগোষ্ঠী যারা একটি জঙ্গলকে ঘিরে বাস করে তাদের সংরক্ষণের আ আ ক খ লেগে থাকে।



## শীতের দুপুরে চিড়িয়াখানায় কাচকাচাদের ভিড়, নেতাজির জন্মদিনে বাঘ দর্শন

১৩ জানুয়ারি, ছুটির সকালে আলিপুর চিড়িয়াখানায় কচিকচাদের ভিড়। কচুপদের মতো সকালেই ভিড় ছিল ১০ মতা ১০০ মতা



নিবিড় ছায়ার উদ্যোগ কর্তৃপক্ষের

কলকাতা



DIGITAL ORIGINALS



# Zoological Garden, Alipore

For Adoption : 6292336680 / 6292336681

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