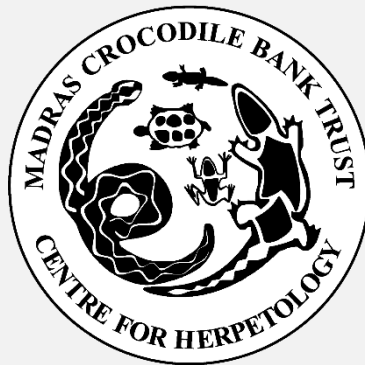


# MADRAS CROCODILE BANK TRUST / CENTRE FOR HERPETOLOGY

Post bag No.4, Vadanemmelli Village, East Coast Road, Mamallapuram-603 104, Tamil Nadu, India

## Annual Report for the year 2019-2020





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

The year 2019-2020 was a great one for us at the Madras Crocodile Bank Trust (MCBT), although we were looking at the effects of the COVID-19 pandemic in the far end of the year. We hosted just over 4 lakh visitors who went away with a much-improved understanding of reptiles. We had some very exciting new arrivals - 4 Monocled cobras and 4 banded kraits arrived at the zoo from Alipore Zoological Garden, Kolkata. The animals were isolated and dewormed upon arrival and are doing well. We were able to establish the sex of the blue tongued skinks that we have. The female even started laying some infertile eggs for the first time this year. We hope it will start laying fertile eggs soon. The deworming of all tortoises, lizards, and snakes have continued. We unfortunately lost one of our most charismatic animal, 'Jaws III', a salt water crocodile (*crocodylus porosus*) to pneumonia. Fortunately, we were able to replace the presence with an equally charismatic salt water crocodile, 'Thor'. The hide of Jaws III has been preserved for education purposes.

The education programs at MCBT which is a combination of a guided tour, show & tell with animals, enclosure visits, and venom extraction from the "Big Four" venomous snakes of India, is the core of our activities. We conducted over 40 such programs. We also had special programs on World days such as World Wildlife Day, World Environment Day and World Wetland Day. We conducted Air pollution themed activities off-campus and on-campus for World Environment Day 2019 as requested by the CZA. Further, our adoption program brings awareness for the reptiles and lets anyone with interest to adopt any of our on-display animals which help in maintaining the animal enclosure and their wellbeing. A total of 50 individuals and 1 enclosure was adopted from April 2019 to March 2020. MCBT was selected as one of the host organizations for the 2019-2020 William J. Clinton Fellowship for Service in India. Ms Naomi Tsai was our AIF Clinton Fellow who began her fellowship in September and worked closely with our education department on programs and creating materials. Lastly, our education officer, Steffi John, presented our work at the 7th Asian Zoo Educators Conference: AZEC 2019 Chiang Mai Thailand.

Overall, we had a busy and productive year at the MCBT. The ongoing pandemic has thrown a challenging situation at us. However, with the tremendous support that we get from institutions such as the Central Zoo Authority and from several patrons, we are confident that we won't just overcome this crisis, but thrive in it.

**ALLWIN JESUDASAN**

**DIRECTOR**

**1<sup>st</sup> September 2020**

## 2. History of the Zoo

By the mid-20th century hunting crocodiles was a lucrative enterprise throughout the tropics, and by the 1970s, India's croc populations had been exploited to the brink of extinction. Realizing this fact, the Indian government protected all three species of Indian crocodilian under the Wild Life Protection Act of 1972.

Responding to the need of that time, Rom and colleagues established the Madras Crocodile Bank Trust in 1976 with the specific goal of securing breeding populations of the three species of Indian crocodile: the mugger (*Crocodylus palustris*), the saltwater crocodile (*Crocodylus porosus*) and the rarest of all, the gharial (*Gavialis gangeticus*).

The Croc Bank was originally designed to be a living genetic repository of crocodiles for safekeeping, to protect and multiply until such time when they could be returned to restock their original wild habitats. This action was initially met with tremendous success, but today, release into the wild has stopped due to shrinking wilderness areas and the lack of suitable habitat.

Today Croc Bank is home to 15 species of crocodilians, three of which are listed by the IUCN as critically endangered with a further three listed as threatened.

As the need for the conservation of reptiles grew, the Croc Bank increased its repertoire to include turtles, lizards and snakes and it came to be known as the Madras Crocodile Bank Trust and Centre for Herpetology in 2003. The Croc Bank now successfully breeds several species of threatened chelonians, including two listed as critically endangered.

The Croc Bank is far more than a typical zoo and in fact our core operation is as much a field-based conservation outfit as it is a collection of captive animals for safekeeping. with two permanent field stations and several projects running concurrently.

## 3. Vision

The Madras Crocodile Bank Trust and Centre for Herpetology (or Croc Bank) was the brainchild of the legendary Romulus Whitaker and a handful of like-minded conservation visionaries who began work on the facility in 1976, in a desperate effort to save India's dwindling crocodilian populations. Today, after more than 40 formidable years of cutting-edge science and grassroots education, the Croc Bank remains a world leader in the field of frontline conservation and the preservation of natural landscapes.

#### 4. Mission

To promote the conservation of reptiles and amphibians and their habitats through education, scientific research and captive breeding. Efforts are focused on, but are not limited to, Indian species and ecosystems and include both in-situ and ex-situ components.

#### 5. Objective

Main Objectives:

- Conservation breeding of endangered species in captivity and to maintain a gene bank of endangered reptiles.
- Facilitate research and scientific study on reptile behaviour, enclosure enrichment,
- Feed, nutrition and reproductive biology.
- Promote education & awareness amongst visitors on the role of reptiles in the natural world and the importance of reptile conservation.
- Ensure comfortable housing for all reptiles with special emphasis on health care, animal welfare and excellent animal husbandry.

#### 6. About us

S.No.	Particulars	Information
<b>Basic Information about the Zoo</b>		
1	Name of the Zoo	<b>Madras Crocodile Bank Trust/ Centre for Herpetology</b>
2	Year of Establishment	<b>1976</b>
3	Address of the Zoo	<b>Post bag No.4, Vadanemmelli Village, East Coast Road, Mamallapuram-603 104 , Tamil Nadu, India</b>
4	State	<b>Tamil Nadu</b>

5	Telephone Number	<b>+91 9790242683</b>
6	Fax Number	<b>NIL</b>
7	E-mail address	<b>info@madrascrocodilebank.org</b>
8	Website	<a href="https://madrascrocodilebank.org/">https://madrascrocodilebank.org/</a>
9	Distance from nearest	Airport: 39.7km
		Railway Station:41.6km
		Bus Stand:0km
10	Recognition Valid upto (Date)	<b>19th August 2022</b>
11	Category of zoo	<b>Medium</b>
12	Area (in Hectares)	<b>3.4</b>
13	Number of Visitors (Financial Year)	Adult :233893
		Children :155929
		Total Indian: 389822
		Total Foreigners: 11699
		Total Visitors: 401521
14	Visitors' Facilities Available in Zoo	<b>Snack Kiosk</b> <b>Portable Water</b> <b>Education Centre</b> <b>(All terrain) Wheelchair</b>



15	Weekly Closure Day of the Zoo	<b>Monday</b>
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<b>Management Personnel of the zoo</b>		
16	Name with designation of the Officer in-charge (during reporting period)	<b>Zai Whitaker and Allwin Jesudasan</b>
	Name of the Veterinary Officer	<b>Dr. Ruchika Lakshmanan</b>
	Name of the Curator	<b>Nikhil Whitaker</b>
	Name of the Assistant Curator	<b>Ajay Karthik</b>
	Name of the Education Officer	<b>Achsah Steffi John</b>
	Name of the Compounder/ Lab Assistant	<b>NIL</b>

<b>Owner / Operator of the Zoo</b>		
17	*Name of the Operator	<b>Trust operated Madras Crocodile Bank Trust</b>
18	Address of the Operator	Post bag No.4, Vadanemmelli Village, East Coast Road, Mamallapuram-603 104, Tamil Nadu, India
19	Contact details/Phone number of Operator	<b>+91 9790242683</b>
20	E-mail address of Operator	<b>info@madrascrocodilebank.org</b>

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

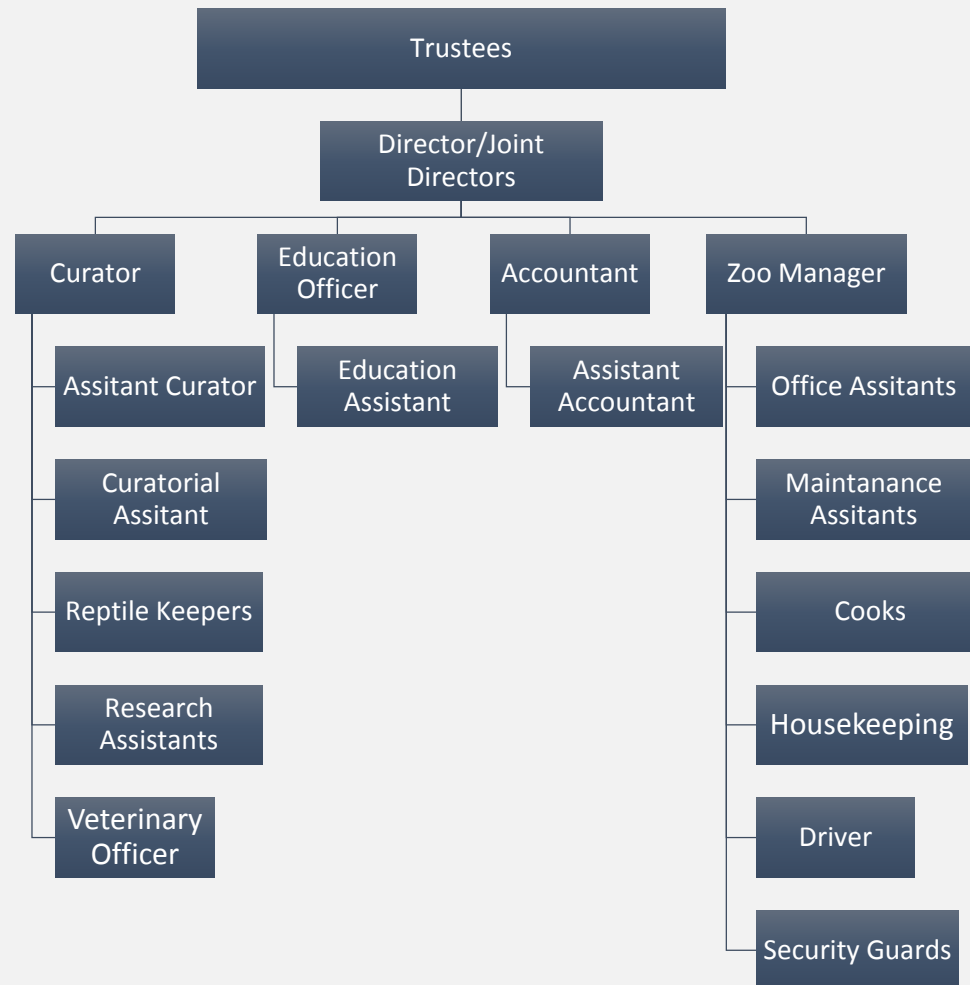
*“Zoo Operator” means the person who has ultimate control over the affairs of the zoos provided that\_\_\_\_\_*

*I. in the case of a firm or other association of individuals, any one of the individual partners or members thereof; or*

*II. in the case of a company, any director, manager, secretary or other officer, who is in-charge of and responsible to the company for the affairs of the zoo; or*

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

## 7. Organizational Chart



## 8. Human Resources

### Manpower of the Zoo\*

Sl.No.	Designation	Number of Sanctioned Posts	Names of the incumbent (during reporting period)
1	JOINT DIRECTOR	2	ZAI WHITAKER
2	JOINT DIRECTOR	2	ALLWIN JESUDASAN
3	ZOO MANAGER	1	SENTHIL THANGAM
4	CURATOR	1	NIKHIL WHITAKER
5	ASSISTANT CURATOR	1	AJAY KARTHIK
6	VETERINARY OFFICER	1	Dr. RUCHIKA LAKSHMANAN
7	CURATORIAL ASSISTANT	1	AMBIKA YELAHANKA
8	ASSISTANT COORDINATOR – Snakebite mitigation	2	GNANESWAR CH PETER CHRISTOPHER
9	RESERCH ASSISTANTS – Cauvery Mugger Project	2	JASON GERARD S. SURYA
10	EDUCATION OFFICER	1	ACHSAH STEFFI JOHN
11	ACCOUNTANT	2	M. MOHAN M. PAVITHRA
12	EDUCATION ASSISTANT	1	C. DHANASEKARAN
13	RESEARCH ASSISTANT	1	V. MOHANASUNDARAM
14	OFFICE ASSISTANT	2	T. MOHAN C. PURUSHOTHUMAN
15	COOK	3	G. ASHOK A. KUMARI V. YUVARANI
16	MAINTENANCE SUPERVISOR	1	L. GUNASEKARAN
17	MAINTENANCE ASSISTANT	3	S. MOHAN K. ELUMALAI S. JANAKIRAMAN
18	HOUSEKEEPING	1	M. INDRADEVI
19	PARK SUPERVISOR	1	R. TANGARAJ
20	REPTILE KEEPER	4	V. GANGADURAI S. NAGARATHINAM S. SHANTHI G. GOWRI SHANKAR

21	ENCLOSURE MAINTENANCE	2	V. AMUTHA J. PARIMALA
22	CROC SHOP KEEPER	1	N. PUSHPARANI
23	TICKET MACHINE OPERATOR	2	R. GNANAMURTHY N. SELVAMANI
24	SECURITY GUARD	3	KRISHNA BAHADUR BUDIBAL SOMAI MAGAR TEK BAHADUR
25	DRIVER	1	M.RAMU

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

### 9. Capacity Building of zoo personnel

Sl.No.	Name and designation of the zoo personnel	Subject matter of Training	Period of Training	Name of the Institution where the Training attended
NIL				

### 10. Zoo Advisory Committee –

#### a. Date of constitution: 1976

#### b. Members

Romulus Whitaker III, the famous “snake man of India”, who is a founder of MCBT.

Zai Whitaker, also one of the founders, and currently Managing Trustee of MCBT.

Samit Sawhny, Managing Director of Barefoot Resorts.

Ashish Gupta, Managing Director of Milesworth Travels.

Kamini Sundaram, Founder and Director, Abacus Montessori School.

M.M. Venkatachalam, Director, Coromandel International Ltd.

Prof Satyajit Mayor, Director, National Centre for Biological Sciences.

Venu Srinivasan, Chairman and Managing Director, TVS Motor Company, India.

#### c. Dates on which Meetings held during the year

**13/04/2019**

**13/07/2019**

**26/11/2019**

**11/01/2020**

**11. Health Advisory Committee– Currently no committee is present. A Health advisory Committee will be formed immediately.**

**12. Statement of income and expenditure of the Zoo**

**INCOME**

<b>Sl.no</b>	<b>Particulars</b>	<b>INR</b>
1	Ticket Sales	2,15,49,270.00
2	Research Grants	1,26,66,350.05
3	Donations & Rent	13,95,749.35
4	Environment Education	13,84,340.00
5	Adopt an Animal	3,20,000.00
6	Bank Interest	22,01,320.00
7	Croc Shop sales	10,46,600.00
	<b>Total</b>	<b>4,05,63,629.40</b>

**EXPENDITURE**

<b>Sl.no</b>	<b>Particulars</b>	<b>INR</b>
1	Salary and Wages	1,43,08,686.00
2	Reptile Feed Costs	48,14,483.00

3	Maintenance and Upkeep	34,42,956.00
4	Pen Maintenance and Upkeep	41,02,225.00
5	Research	54,11,190.78
6	Environmental Education Expenses	2,80,123.00
9	Croc Shop Expenses	2,65,634.00
10	Administrative Expenses	22,46,367.18
	<b>Total</b>	<b>3,48,71,664.96</b>

### 13. Daily feed Schedule of animals

Sl.No.	Species	Feed item	Quantity	Day of fasting
			Per Week	
1	Caiman Dwarf	Fish	5kg	NA
2	Caiman Spectacled	Fish Chicken	20kg	NA
3	Caiman Yacare	Fish Chicken	3kg	NA
4	Caiman Black	Fish Chicken	1kg	NA
5	Crocodile Alligator American	Chicken Buffalo	7kg	NA
6	Crocodile Tomistoma	Fish Chicken	6kg	NA
7	Crocodile Long Snouted (Gharial)	Fish	77kg	NA
8	Crocodile Marsh (Mugger)	Fish Chicken Buffalo	1213kg	NA
9	Crocodile Morelets	Fish	8kg	NA

Sl.No.	Species	Feed item	Quantity	Day of fasting
			Per Week	
		Chicken Buffalo		
10	Crocodile Nile	Fish Chicken Buffalo	9kg	NA
11	Crocodile Saltwater	Chicken Buffalo	77kg	NA
12	Crocodile Siamensis	Fish Chicken Buffalo	9kg	NA
13	Crocodile Snouted African Slender	Chicken Buffalo	2kg	NA
14	Crocodile West African Dwarf	Fish Chicken	2kg	NA
15	Crocodile Cuban	Chicken Buffalo	10kg	NA
16	Terrapin River (batagur)	Fish Greens	1kg 2kg	NA
17	Turtle Leith's Softshell	Fish	500g	NA
18	Tortoise Aldabra/Giant	Greens Fruits Vegetables	3kg 2kg 2kg	NA
19	Tortoise Indian Star	Greens Fruits Vegetables	2kg 1kg 1kg	NA
20	Turtle Crowned River/Roof	Fish Greens	1kg 2kg	NA

Sl. No	Species	Feed item	Quantity	Day of Fasting
			Per week	
21	Turtle Freshwater / Indian Soft-shelled	Fish	2kg	NA



Sl. No	Species	Feed item	Quantity	Day of Fasting
			Per week	
22	Turtle Ganges Soft-shelled	Fish	1kg	NA
23	Turtle Indian Roofed	Fish	1kg	NA
24	Turtle Indian Tent	Fish	1kg	NA
25	Travancore tortoise	Greens Fruits Vegetables	2kg 1kg 1kg	NA
26	Turtle Red Crowned Roofed	Fish Greens	2kg 1kg	NA
27	Indian Chameleon	Grasshoppers Superworms Crickets	Miscellaneous	NA
28	Blue Tongue Skink	Greens Fruits Vegetables Grasshoppers Superworms Crickets Mice pinkies (occasionally)	Miscellaneous	NA
29	Basilisk lizards	Grasshoppers Superworms Crickets Mice pinks (occasionally)	Miscellaneous	NA
30	Termite hill gecko	Grasshoppers Superworms Crickets Mice pinks (occasionally)	Miscellaneous	NA
31	Green iguana	Greens Fruits Vegetables	1kg 1kg 1kg	NA
32	Komodo dragon	Chicken Buffalo	2kg	NA
34	Python Indian - Rock	Rats	Miscellaneous	NA
35	Python Regal / Reticulated	Chicken Rats	Miscellaneous	NA
36	Trinket snake	Rats	Miscellaneous	NA

Sl. No	Species	Feed item	Quantity	Day of Fasting
			Per week	
37	Common Krait	Rats	Miscellaneous	NA
38	Saw Scaled Viper	Rats	Miscellaneous	NA
39	Rat Snake	Rats	Miscellaneous	NA
40	Common Wolf Snake	Rats	Miscellaneous	NA
41	Russell's Viper	Rats	Miscellaneous	NA
42	Green anaconda	Rats	Miscellaneous	NA
43	Yellow anaconda	Rats	Miscellaneous	NA
44	Whitaker's sand boa	Rats	Miscellaneous	NA
45	Cobra Indian	Rats	Miscellaneous	NA
46	Corn snake	Rats	Miscellaneous	NA
47	Banded Krait	Rats	Miscellaneous	NA
48	Cobra Monocled	Rats	Miscellaneous	NA

#### 14. Vaccination Schedule of animals

Sl.No.	Species	Disease vaccinated for	Name of the Vaccine and dosage/ quantity used	Periodicity	Remarks
NA					

#### 15. De-worming Schedule of animals

Sl.No.	Species	Drug used	Month
1	Tortoises	Fenbendazole	September
2	Snake	Fenbendazole Metronidazole	October
3	Lizards	Fenbendazole	October

## 16. Disinfection Schedule

Sl.No.	Species	Type of enclosure	Disinfectant used and method	Frequency of disinfection
1	Marsh Crocodile	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once a month
3	Dwarf Crocodile	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once a month
4	Yacare Caiman	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once a month
5	Gharial	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once in 3-4 months
6	Siamese Crocodile	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once in 3-4 months
7	Nile Crocodile	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once in 3-4 months
8	Marsh Crocodile	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip Annual Dredging to increase water level	once in 3-4 months
9A	Green Iguana	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once in 10 days
9B	Water Monitor	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once in 10 days
9C	Dwarf Caiman	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once a month
10	Marsh Crocodile	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once in 3-4 months

Sl.No.	Species	Type of enclosure	Disinfectant used and method	Frequency of disinfection
			Annual dredging to increase water level	
11	Saltwater Crocodile	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once in 3-4 months
11A	Aldabra Tortoise	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once in 10 days
12A	Saltwater Crocodile	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once in 3-4 months
12B	Saltwater Crocodile	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once in 3-4 months
12C	Saltwater Crocodile	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once a month
13	Gharial	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip Annual dredging to increase water level.	once in 3-4 months
14	Spectacled Caiman	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once a month
15	Morelets Crocodile	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once in 3-4 months
16	Marsh Crocodile	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once in 3-4 months
16A	Saltwater Crocodile	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once a month
17	Saltwater Crocodile	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once in 3-4 months

Sl.No.	Species	Type of enclosure	Disinfectant used and method	Frequency of disinfection
18	False Gharial	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once a month
19	American Alligator	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once in 3-4 months
20A	Saltwater Crocodile	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once a month
20B	Terrapin River ( <i>Batagur baska</i> )	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once a month
21	Marsh Crocodile	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	Twice a month
22	Marsh Crocodile	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	Twice a month
24	Gharial	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once in 3-4 months
25	Spectacled Caiman	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once a month
26	Spectacled Caiman	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once a month
27	African Slender Snouted Crocodile	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once a month
28	Nursery	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once in 10 days
29	Out Office	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once in 10 days

Sl.No.	Species	Type of enclosure	Disinfectant used and method	Frequency of disinfection
30	Snake room	Closed room	Dettol/ Manual cleaning	once every week
PP1	Cuban Crocodile	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once in 3-4 months
PP2	Marsh Crocodile	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once in 3-4 months
PP3	Morelets Crocodile	Open air	Dettol/ Manual cleaning Potassium permanganate foot dip	once a month

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

Sl.No.	Name	Designation	Date of Health Check up	Findings of Health Check up
No health check-up of employees for zoonotic diseases was conducted in the year 2019-2020. One will be scheduled soon (post pandemic).				

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

- Repair of casuarina barricades between small enclosure.
- Dredging of all natural ponds (Pen 8,10,13) was conducted during May-August.
- Extra fans were fitted in the snake room to improve air circulation.
- UV lamps were fixed above certain enclosures.
- Multiple CCTV cameras were fitted to various enclosures for security and to monitor animal behaviour.

### 19. Education and Awareness programmes during the year

Name of Programme	Dates	No. of Participants
What's that reptile? Jr.	18/05/2019 and 19/05/2019	18
Blind date at Croc bank	29/05/2019	8
Know your reptiles	1/6/2019	5
KYR - Birthday aptly	6/7/2019	20

Show and tell	20/7/2019	11
Know your reptiles	21/7/2019	10
Know your reptiles - Avinash	21/7/2019	47
KYR - Paul's family	3/8/2019	6
Know your reptiles	11/8/2019	14
KYR - David's family	24/8/2019	5
Vruksha camp	30/08/2019 & 31/08/2019	31
Reptile encounter	8/09/2019	15
Reptile encounter	25/09/2019	21
Scales and Tails	29/09/2019 to 2/10/2019	17
Know your Reptiles	6/10/2019	11
Know your Reptiles	16/10/2019	16
Zoo & Me - Modern Classroom	17/10/2019	95
Know your Reptiles	18/10/2019	27
Snake walk	19/10/2019	23
KYR - Modern Classroom	24/10/2019	78
Reptile encounter	11/11/2019	13
Know your Reptiles	30/11/2019	57
Reptile encounter	6/12/2019	63
Guided tour	13/12/2019	3
Snake walk	15/12/2019	2
Reptile encounter	25/12/2019	14
Scales and Tails	28/12/2019 – 31/12/2019	18

Know your Reptiles	9/01/2020	23
Know your Reptiles	15/01/2020	13
Snake walk	19/01/2020	5
Reptile encounter	22/01/2020	14
Reptile encounter	25/01/2020	95
Reptile encounter	26/01/2020	41
Reptile encounter	2/02/2020	40
Snake Walk	9/02/2020	9
Reptile encounter	15/02/2020	4
Reptile encounter	19/02/2020	62
Guided tour & venom extraction	22/02/2020	8
Reptile encounter	27/02/2020	35
Reptile encounter	28/02/2020	30

**20. Important Events and happenings:** Inauguration of Thor's enclosure, our new on display Saltwater Crocodile.

**21. Seasonal special arrangements for upkeep of animals:** LUCKY HERP 100W UVA/UVB HEAT/LIGHT MERCURY VAPOUR LAMP provided for longer duration during colder months. More basking opportunities for smaller animals during colder months.

**22. Research Work carried out and publications:**

Bardi, E. Lubian, E. Whitaker, N. & Romussi, S. (2018) Preliminary study on haematological values of two endangered turtle species: *Indotestudo travancorica* and *Batagur kachuga*. International Journal of Health, Animal Science and Food Safety, Vol 5 No 1(2018).

Khandelwal, P. C., & Hedrick, T. L. (2020). How biomechanics, path planning and sensing enable gliding flight in a natural environment. Proceedings of the Royal Society B: Biological Sciences, 287(1921), 20192888.

Augustine, L. B.C. Moore, V. Waller, S.D. Bailey, A. Kartik and K. Guyton II. (2018) Copulatory Directional Asymmetry and Implications for Crocodylian Reproduction.



164-171. In: Crocodiles. Proceedings of the 25th Working Meeting of the IUCN-SSC Crocodile Specialist Group. IUCN: Gland, Switzerland.

Litschka-Koen T, Pons J, Tiglao PJ et al. Case reports of tropical snakebite victims illustrate the vital humanitarian role and challenges of community action groups: RSTMH Special Report on Snakebite. London: RSTMH, 2019 (Ajay Kartik co-author).

Kartik, A.- Note on aberrant morphology in *Bungarus caeruleus*. Herpetological Review 51(1), 2020 pp 13.

### 23. Conservation Breeding Programme of the Zoo:

Red crowned roofed turtle (*Batagur kachuga*)  
 Gharial (*Gavialis gangeticus*)  
 River Terrapin (*Batagur Baska*)  
 Three striped roofed turtle (*Batagur dhongoka*)

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

A.	Animals arriving in the Zoo				
	H.NO.	Species	Number (M:F)	From which Zoo	Date of arrival in the zoo
	1	Banded krait ( <i>Bungarus fasciatus</i> )	3:1:0	Alipore Zoological Gardens, Kolkata	10/06/2019
	2	Cobra Monocled ( <i>Naja kaouthia</i> )	2:2:0	Alipore Zoological Gardens, Kolkata	10/06/2019
B.	Animals going from the zoo				
	H.NO.	Species	Number (M:F)	Going to which Zoo	Date of deposition from the zoo
	1	Yellow anaconda ( <i>Eunectus notaeus</i> )	0:0:4	Alipore Zoological Gardens, Kolkata	10/06/2019
	2	Yellow anaconda ( <i>Eunectus notaeus</i> )	4:4:0	Nandankanan Zoological Park, Bhubaneswar	19/10/2019
	3	Nile crocodile ( <i>Crocodylus niloticus</i> )	1:2:0	Nandankanan Zoological Park, Bhubaneswar	19/10/2019

## 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 and Place of rehabilitation in their habitat	Reasons for housing in the zoo, if not released in their habitat
NIL						



## 26. Annual Inventory of animals

Form – II

[See Rule 11(1)]

Part – A

Inventory Report for the Year:

Endangered Species\*

2019-2020 Annual Report	ANIMAL NAME	SCIENTIFIC NAME	Opening stock on 01/04/2019				Births			Acquisition s			Disposal			Deaths			Closing stock on 31/03/2020			
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
	Crocodile Long Snouted (Gharial)	<i>Gavialis gangeticus</i>	3	5	30	38			21									8	3	5	43	51
	Crocodile Marsh (Mugger)	<i>Crocodylus palustris</i>	650	1050	132	1832											2	1 0	650	1048	122	1820

2019-2020 Annual Report		Opening stock on 01/04/2019				Births			Acquisitions			Disposal			Deaths			Closing stock on 31/03/2020			
		M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
Crocodile Salt Water	<i>Crocodylus porosus</i>	6	5	31	42										1			5	5	31	41
Terrapin River (batagur)	<i>Batagur baska</i>	1	2	22	25													1	2	22	25
Turtle Crowned River/Roof	<i>Batagur dhongoka</i>	1	4	6	11													1	4	6	11
Turtle Fresh Water / Indian Soft-shelled	<i>Lissemys punctata</i>	0	0	54	54													0	0	54	54
Turtle Ganges Soft-shelled	<i>Nilssonina gangetica</i>	0	0	9	9													0	0	9	9
Turtle Red Crowned Roofed	<i>Batagur kachuga</i>	14	3	57	74											2		14	3	55	72

2019-2020 Annual Report		Opening stock on 01/04/2019				Births			Acquisitions			Disposal			Deaths			Closing stock on 31/03/2020			
		M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
Indian Chameleon	<i>Chamaeleo zeylanicus</i>	1	0	0	1													1	0	0	1
Python Indian - Rock	<i>Python molurus</i>	1	1	17	19													1	1	17	19
Russell's Viper	<i>Daboia russelii</i>	1	0	0	1													1	0	0	1
Cobra Indian	<i>Naja naja</i>	1	0	2	3													1	0	2	3
Cobra Monocled	<i>Naja kaouthia</i>	0	0	0	0				2	2	0							2	2	0	4

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

Part – B

Other than Endangered Species

2019-2020 Annual Report		Opening stock on 01/04/2019				Births			Acquisitions			Disposal			Deaths			Closing stock on 31/03/2020			
		M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
Caiman Dwarf	<i>Paleosuchus palpebrosus</i>	1	1	25	27													1	1	25	27
Caiman Spectacled	<i>Caiman crocodylus</i>	0	0	42	42												2	0	0	40	40
Caiman Yacare	<i>Caiman yacare</i>	1	2	0	3													1	2	0	3
Caiman Black	<i>Melanosuchus niger</i>	0	1	0	1													0	1	0	1
Crocodile False Gharial	<i>Tomistoma schlegelii</i>	1	1	0	2													1	1	0	2



2019-2020 Annual Report		Opening stock on 01/04/2019				Births			Acquisitions			Disposal			Deaths			Closing stock on 31/03/2020			
		M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
Crocodile Alligator American	<i>Alligator mississippiensis</i>	1	2	0	3													1	2	0	3
Crocodile Morelets	<i>Crocodylus moreletii</i>	1	1	11	13												1	1	1	10	12
Crocodile Nile	<i>Crocodylus niloticus</i>	2	3	17	22								3					2	3	14	19
Crocodile Siamensis	<i>Crocodylus siamensis</i>	1	1	26	28													1	1	26	28
Crocodile Snouted African Slender	<i>Mecistops cataphractus</i>	0	2	0	2													0	2	0	2
Crocodile West African Dwarf	<i>Osteolaemus tetraspis</i>	1	0	0	1													1	0	0	1

2019-2020 Annual Report		Opening stock on 01/04/2019				Births			Acquisitions			Disposal			Deaths			Closing stock on 31/03/2020			
ANIMAL NAME	SCIENTIFIC NAME	M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
Crocodile Cuban	<i>Crocodylus rhombifer</i>	1	3	0	4													1	3	0	4
Leith's Softshell Turtle	<i>Nilssonia leithii</i>	0	0	1	1													1	0	0	1
Tortoise Aldabra/Giant	<i>Dipsochelys gigantea</i>	0	0	4	4													1	3	0	4
Tortoise Indian Star	<i>Geochelone elegans</i>	2	3	9	14											1	1	2	2	8	12
Turtle Indian Roofed	<i>Pangshura tentoria circumdata</i>	0	0	17	17										1	1	1	0	0	14	14
Turtle Indian Tent	<i>Pangshura tecta</i>	0	0	2	2													0	0	2	2

2019-2020 Annual Report		Opening stock on 01/04/2019				Births			Acquisitions			Disposal			Deaths			Closing stock on 31/03/2020			
		M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
Travancore tortoise	<i>Indotestudo travancorica</i>	6	22	20	48			1										6	22	21	49
Blue Tongue Skink	<i>Tiliqua scincoides</i>	0	0	2	2													1	1	0	2
Basilisk lizards	<i>Basiliscus basiliscus</i>	0	0	4	4										1			0	0	3	3
Termite hill gecko	<i>Hemidactylus triedurus</i>	1	2	1	4													1	2	1	4
Green iguana	<i>Iguana iguana</i>	1	1	3	5										1			1	0	3	4
Komodo dragon	<i>Varanus komodoensis</i>	2	1	0	3													2	1	0	3
Legless lizards	<i>Pseudopus apodus</i>	0	0	1	1												1	0	0	0	0

2019-2020 Annual Report		Opening stock on 01/04/2019				Births			Acquisitions			Disposal			Deaths			Closing stock on 31/03/2020			
		M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
Python Regal / Reticulated	<i>Python reticulatus</i>	0	1	0	1													0	1	0	1
Trinket snake	<i>Coeleognathus helena</i>	1	2	1	4													1	2	1	4
Common Krait	<i>Bungarus caereuleus</i>	0	0	2	2													1	1	0	2
Saw Scaled Viper	<i>Echis carinatus</i>	0	0	3	3													1	2	0	3
Rat Snake	<i>Ptyas mucosa</i>	1	1	0	2													1	1	0	2
Common Wolf Snake	<i>Lycodon aulicus</i>	1	1	0	2													1	1	0	2

2019-2020 Annual Report		Opening stock on 01/04/2019				Births			Acquisitions			Disposal			Deaths			Closing stock on 31/03/2020				
		M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T	
ANIMAL NAME	SCIENTIFIC NAME																					
Green anaconda	<i>Eunectes murinus</i>	1	1	6	8												4	1	1	2	4	
Yellow anaconda	<i>Eunectes notaeus</i>	0	2	25	27									12			2	0	2	11	13	
Whitaker's sand boa	<i>Eryx whitakerii</i>	1	1	11	13												1	1	1	10	12	
Corn snake	<i>Pantherophis guttatus</i>	0	0	3	3												1	0	0	2	2	
Banded Krait	<i>Bungarus fasciatus</i>	0	0	0	0				3	1	0							3	1	0	4	

## 27. Mortality of animals

SI no.	SPECIES	DATE	SEX	NO.	Cause of death as diagnosed by post-mortem
1	Whitaker's sand boa <i>Eryx whitakerii</i>	17/04/2019	UK	1	Emaciated
2	Legless lizard <i>Pseudopus apodus</i>	10/05/2019	UK	1	Ingestion of foreign body
3	Marsh crocodile <i>Crocodylus palustris</i>	08/05/2019	UK	1	Cannibalized
4	Indian roofed turtle <i>Pangshura tentoria circumdata</i>	28/06/2019	UK	1	Fatigue/Emaciated
5	Marsh crocodile <i>Crocodylus palustris</i>	02/07/2019	UK	1	Cranial bones only
6	Corn snake <i>Pantherophis guttatus</i>	22/07/2019	UK	1	Abscess on the mouth
7	Star tortoise <i>Geochelone elegans</i>	25/07/2019	UK	1	Cloacal prolapse

<b>SI no.</b>	<b>SPECIES</b>	<b>DATE</b>	<b>SEX</b>	<b>NO.</b>	<b>Cause of death as diagnosed by post-mortem</b>
8	Green anaconda <i>Eunectus murinus</i>	29/07/2019	UK	1	Anorexic
9	Green anaconda <i>Eunectus murinus</i>	09/08/2019	UK	1	Pulmonary pneumonia
10	Marsh crocodile <i>Crocodylus palustris</i>	11/08/2019	UK	1	Cannibalized
11	Yellow anaconda <i>Eunectus notaeus</i>	14/08/2019	UK	1	Autolyzed
12	Green anaconda <i>Eunectus murinus</i>	17/08/2019	UK	1	Emaciated
13	Marsh crocodile <i>Crocodylus palustris</i>	24/08/2019	UK	1	Cranial bones only
14	Green basilisk <i>Basiliscus pulmifrons</i>	13/09/2019	Female	1	Enteritis
15	Star tortoise <i>Geochelone elegans</i>	04/10/2019	UK	1	Crystallization in the liver

<b>SI no.</b>	<b>SPECIES</b>	<b>DATE</b>	<b>SEX</b>	<b>NO.</b>	<b>Cause of death as diagnosed by post-mortem</b>
16	Marsh crocodile <i>Crocodylus palustris</i>	10/10/2019	UK	1	Cannibalized
17	Spectacled caiman <i>Caiman crocodilus</i>	27/10/2019	UK	1	Autolysed
18	Green anaconda <i>Eunectes murinus</i>	27/10/2019	UK	1	Anorexic
19	Gharial crocodile <i>Gavialis gangeticus</i>	29/10/2019	UK	1	Emaciated
20	Gharial crocodile <i>Gavialis gangeticus</i>	08/11/2019	UK	1	Emaciated
21	Indian roofed turtle <i>Pangshura tentoria circumdata</i>	10/11/2019	UK	1	Autolyzed
22	Gharial crocodile <i>Gavialis gangeticus</i>	12/11/2019	UK	1	Emaciated



<b>SI no.</b>	<b>SPECIES</b>	<b>DATE</b>	<b>SEX</b>	<b>NO.</b>	<b>Cause of death as diagnosed by post-mortem</b>
23	Marsh crocodile <i>Crocodylus palustris</i>	17/11/2019	UK	1	Cannibalized
24	Marsh crocodile <i>Crocodylus palustris</i>	28/11/2019	UK	1	Cranial Bones only
25	Gharial crocodile <i>Gavialis gangeticus</i>	04/12/2019	UK	1	Emaciated
26	Gharial crocodile <i>Gavialis gangeticus</i>	09/12/2019	UK	1	Emphysema
27	Yellow anaconda <i>Eunectes notaeus</i>	11/12/2019	UK	1	Autolyzed
28	Marsh crocodile <i>Crocodylus palustris</i>	18/12/2019	UK	1	Cannibalized
29	Saltwater crocodile <i>Crocodylus porosus</i>	13/01/2020	Male	1	Pulmonary pneumonia
30	Morelet's crocodile <i>Crocodylus moreletii</i>	06/01/2020	UK	1	Cannibalized

SI no.	SPECIES	DATE	SEX	NO.	Cause of death as diagnosed by post-mortem
31	Red-crowned roofed turtle <i>Batagur kachuga</i>	14/01/2020	UK	2	Enteritis
32	Marsh crocodile <i>Crocodylus palustris</i>	19/01/2020	UK	1	Impaction of colon
33	Spectacled caiman <i>Caiman crocodilus</i>	20/01/2020	UK	1	Nodular growth on lung and spleen
34	Marsh crocodile <i>Crocodylus palustris</i>	11/02/2020	Male	1	Cranial bones only
35	Green iguana <i>Iguana iguana</i>	27/02/2020	Female	1	Salpingitis with bacterial septicaemia
36	Indian roofed turtle <i>Pangshura tentoria circumdata</i>	12/03/2020	Male	1	Autolyzed
37	Marsh crocodile <i>Crocodylus palustris</i>	14/03/2020	UK	1	Cranial bones only
38	Gharial crocodile <i>Gavialis gangeticus</i>	28/03/2020	UK	1	Emaciated

<b>SI no.</b>	<b>SPECIES</b>	<b>DATE</b>	<b>SEX</b>	<b>NO.</b>	<b>Cause of death as diagnosed by post-mortem</b>
39	Marsh crocodile <i>Crocodylus palustris</i>	10/04/2020	UK	1	Autolyzed
40	Gharial crocodile <i>Gavialis gangeticus</i>	04/04/2020	UK	1	Emaciated
41	Gharial crocodile <i>Gavialis gangeticus</i>	25/04/2020	UK	1	Emaciated

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

<b>Sr. No</b>	<b>Norm No. under RZR, 2009</b>	<b>Condition Stipulated</b>	<b>Time Period to Comply</b>	<b>Since when pending</b>	<b>Status with regard to compliance of the conditions</b>
	AWAITING REPORT FROM LATEST CZA INSPECTION.				

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

### ARACHNIDS

1. *Argiope versicolor* St. Andrew's Cross Spider
2. *Argiope aemula* Oval St Andrew's Cross Spider
3. *Argiope anasuja* Giant cross spider
4. *Argiope pulchella* Garden cross spider
5. *Gasteracantha geminate* Oriental Spiny Orb-weaver
6. *Gasteracantha mammosa* Asian Spinyback Spider
7. *Cyclosa insulana* Island Cyclosa Spider
8. *Parawixia sp.* Orb-weaver Spider sp.
9. *Tetragnatha sp.* Long-jawed orb-weavers sp.
10. *Leucauge decorata* Decorative silver orb spider
11. *Tetragnatha mandibulata* Big-jawed Spider
12. *Theridion sp.* Tangle-web spiders
13. *Hippasa sp.* Wolf spiders
14. *Citrophora citricola* Tropical tent-web spider
15. *Citrophora cicatrosa* Garden tent web spider
16. *Crossopriza lyoni* Tailed cellar spiders
17. *Oxyopes rufisternum* Lynx spider
18. *Peucetia viridans* Green lynx spider
19. *Oxyopes sp.* Lynx spider sp.
20. *Pardosa pseudoannulata* Pond wolf spider
21. *Plexippus petersi* Common housefly-catcher
22. *Plexippus paykulli* Pantropical jumper
23. *Telamonia dimidiata* Two-striped jumper
24. *Thomisus pugilus* Crab Spider

25. *Olios milleti* Green crab spider  
 26. *Neosparassus sp.* Badge Huntsman Spiders

## BIRDS

- |                                   |                           |
|-----------------------------------|---------------------------|
| 1. <i>Turdoides affinis</i>       | White headed babbler      |
| 2. <i>Megalaima haemacephala</i>  | Coppersmith barbet        |
| 3. <i>Merops philippinus</i>      | Blue tailed bee-eater     |
| 4. <i>Merops orientalis</i>       | Small bee-eater           |
| 5. <i>Pycnonotus cafer</i>        | Red vented bulbul         |
| 6. <i>Pycnonotus luteolus</i>     | White browed bulbul       |
| 7. <i>Pycnonotus jocosus</i>      | Red-whiskered bulbul      |
| 8. <i>Corvus splendens</i>        | House crow                |
| 9. <i>Corvus macrorhynchos</i>    | Jungle crow               |
| 10. <i>Hierococcyx varius</i>     | Common hawk cuckoo        |
| 11. <i>Cacomantis passerines</i>  | Indian plaintive cuckoo   |
| 12. <i>Streptopelia chinensis</i> | Spotted dove              |
| 13. <i>Dicrurus macrocercus</i>   | Black drongo              |
| 14. <i>Nycticorax nycticorax</i>  | Black crowned night heron |
| 15. <i>Ardeola grayii</i>         | Indian pond heron         |
| 16. <i>Aegithina tiphia</i>       | Common iora               |
| 17. <i>Ceryle rudis</i>           | Pied kingfisher           |
| 18. <i>Alcedo atthis</i>          | Small blue kingfisher     |
| 19. <i>Halcyon smyrnensis</i>     | White throated kingfisher |
| 20. <i>Haliastur Indus</i>        | Brahminy kite             |
| 21. <i>Milvus migrans</i>         | Black kite                |
| 22. <i>Haliaeetus leucogaster</i> | White bellied sea eagle   |
| 23. <i>Eudynamis scolopacea</i>   | Asian koel                |

24. <i>Vanellus indicus</i>	Red-wattled lapwing
25. <i>Acridotheres tristis</i>	Common myna
26. <i>Oriolus oriolus</i>	Eurasian golden oriole
27. <i>Otus bakkamoena</i>	Collared scops owl
28. <i>Athene brahma</i>	Spotted owlet
29. <i>Psittacula cyanocephala</i>	Blossom headed parakeet
30. <i>Psittacula krameri</i>	Rose ringed parakeet
31. <i>Copsychus saularis</i>	Oriental magpie robin
32. <i>Accipiter badius</i>	Shikra
33. <i>Nectarinia lotenia</i>	Loten's sunbird
34. <i>Nectarinia zeylonica</i>	Purple rumped sunbird
35. <i>Artamus fuscus</i>	Ashy swallow shrike
36. <i>Apus affinis</i>	House swift
37. <i>Cypsiurus balasiensis</i>	Asian palm swift
38. <i>Dendrocitta vagabunda</i>	Indian treepie
39. <i>Amaurornis phoenicurus</i>	White breasted waterhen
40. <i>Dinopium benghalense</i>	Lesser flameback woodpecker
41. <i>Clamator coromandus</i>	Chestnut winged cuckoo
42. <i>Zoothera citrina</i>	Orange headed thrush
43. <i>Ardea alba</i>	Great egret
44. <i>Egretta garzetta</i>	Little egret
45. <i>Bubulcus ibis</i>	Cattle egret
46. <i>Mesophoyx intermedia</i>	Intermediate egret
47. <i>Phalacrocorax niger</i>	Little cormorant
48. <i>Muscicapa dauurica</i>	Asian brown flycatcher
49. <i>Terpsiphone paradisi</i>	Asian paradise flycatcher
50. <i>Dendronanthus indicus</i>	Forest wagtail

51. <i>Motacilla flava</i>	Yellow wagtail
52. <i>Pericrocotus cinnamomeus</i>	Small minivet
53. <i>Tyto alba</i>	Barn owl
54. <i>Pitta brachyura</i>	Indian pitta
55. <i>Ptyonoprogne concolor</i>	Dusky crag martin
56. <i>Centropus sinensis</i>	Greater coucal
57. <i>Otus bakkamoena</i>	Collared scops-owl
58. <i>Upupa epops</i>	Common hoopoe
59. <i>Orthotomus sutorius</i>	Common tailorbird
60. <i>Prinia socialis</i>	Ashy prinia

## LIZARDS

1. <i>Calotes versicolor</i>	Common garden lizard
2. <i>Mabuya carinata</i>	Brahminy skink
3. <i>Sitana ponticeriana</i>	Fan-throated lizard
4. <i>Chamaeleo zeylanicus</i>	Indian chameleon *rare
5. <i>Hemidactylus frenatus</i>	Southern house gecko
6. <i>Hemidactylus leshenaultii</i>	Bark gecko
7. <i>Hemidactylus flaviviridis</i>	Common house gecko
8. <i>Hemidactylus brookii</i>	Brook's gecko
9. <i>Varanus bengalensis</i>	Common Indian monitor lizard
10. <i>Lygosoma punctata</i>	Striped skink

<b>SNAKES</b>	
1. <i>Ptyas mucosa</i>	Indian rat snake
2. <i>Amphiesma stolata</i>	Stripped keelback
3. <i>Macrophistodon plumbicolor</i>	Green keelback
4. <i>Ahaetulla nasuta</i>	Common vine snake
5. <i>Dendrelaphis tristis</i>	Common Bronzeback tree snake
6. <i>Lycodon aulicus</i>	Common wolf snake
7. <i>Lycodon striatus</i>	Barred wolf snake
8. <i>Eryx johnii</i>	Common sand boa
9. <i>Bungarus caeruleus</i>	Common krait
10. <i>Naja naja</i>	Spectacled cobra





