

Madras Crocodile Bank
Trust/Centre for
Herpetology

Annual Report for the year
2017-18



CONTENTS

S.No	Section	Page Number
1.	Report of the Officer-in-charge	5
2.	History of the Zoo	7
3.	Vision	8
4.	Mission	8
5.	Objective	8
6.	About us	9
7.	Organizational Chart	12
8.	Human Resources	13
9.	Capacity Building of the zoo personnel	16
10.	Zoo Advisory Committee	17
11.	Health Advisory Committee	17

S.No	Section	Page Number
12.	Statement of income and expenditure of the Zoo	18
13.	Daily feed Schedule of animals	19
14.	Vaccination Schedule of animals	19
15.	De-worming Schedule of animals	20
16.	Disinfection Schedule	21
17.	Health Check-up of employees for zoonotic diseases	21
18.	Development Works carried out in the zoo during the year	21
19.	Education and Awareness programmes during the year	22
20.	Important Events and happenings in the zoo	24
21.	Seasonal special arrangements for upkeep of animals	24
22.	Research Work carried out and publications	25
23.	Conservation Breeding Programme of the Zoo	25
24.	Animal acquisition / transfer / exchange during the year	26
25.	Rescue and Rehabilitation of the wild animals carried out by the zoo	26
26.	Annual Inventory of animals	27
27.	Mortality of animals.	29

S.No	Section	Page Number
28.	Status of the Compliance with conditions stipulated by the Central Zoo Authority	29
29.	List of free living wild animals within the zoo premises	30

1. Report of the Officer-in-charge

Another busy and productive year has gone by in the annals of the Madras Crocodile Bank Trust, or “Croc Bank”. Field work, namely surveys and ecological studies, are a large part of its activities; in fact our core operation is as much a field based conservation outfit as it is a captive gene pool of endangered species. Over the years, the Croc Bank has developed into a world-renowned conservation NGO with strong community and government support at the local and national level. Apart from its commitment to research and conservation of herpetofauna, it is a recognized resource for environment education and interpretation. Its strength has been to maintain a relatively small but effective operation that is dynamic in action and prolific in results. An example of this is its field station in the Andaman Islands, ANET (Andaman and Nicobar Environment Team). Shortly after its foundation in 1976, the Croc Bank team realized that there was a serious and urgent need for herpetological surveys and conservation action in the then little-known and neglected Andaman and Nicobar archipelago. ANET was conceived and started, and has since carried out extensive work on marine turtles and marine ecosystems, herpetofaunal biogeography and many other biological studies. In addition, ANET has also been productively involved in the broader ecological and social spheres, including projects on natural resource utilization, sustainable development and protected areas management. As one of the oldest and most known and trusted NGOs in the Islands, ANET played a pivotal humanitarian role after the 2004 tsunami devastated the region including getting relief supplies to desperate victims. Today, although still active in the herpetological arena, ANET carries out a broad range of environmental work including marine and terrestrial components. It remains the only research base in the archipelago and voices ecological concerns on many local committees which advise government on development policies and assessments. Its education and awareness building work includes programs and presentations for local and mainland schools, colleges and other institutions and groups on the amazing ecology

of these islands and the need to conserve it. This year, the Croc Bank signed a two-year MOU with Dakshin Foundation, Bangalore, to run and develop ANET and this has been a most productive partnership which will have long-lasting benefits for the conservation and research platforms in the Islands. Another such field station is ARRS, Agumbe Rainforest Research Station. It is situated in Agumbe in the Western Ghats, which was set up by Rom Whitaker in 2005 and is now run by the Croc Bank. It was the result of concern for the king cobra, after field studies on its biology and status. Agumbe is one of the few remaining refuges of the “king”. Other iconic herpetofauna in the area, include Draco (flying lizard), pit vipers and several species of endangered amphibians. A black leopard routinely strolls down one of the pathways that adjoins the ARRS campus. Research projects range from frogs to lapwings, and of course the king cobra. A rescue-release project for king cobras is the “call centre” for farms and households in the district, which have now become increasingly tolerant to this occasional visitor, thanks to the public education work being done by ARRS staff. The snake is removed and relocated, and the family/community is given moral support and confidence because superstitions and erroneous fears are negated, and scientific information provided. This has been named the most successful snake rescue services in the country. 2000 kms to the north on the mighty Chambal River, is Garhaita: the base of the Gharial Ecology Project, one of the most long-term and in-depth crocodile studies in the world. Using sophisticated data collection techniques including telemetry, the study is tracking the home ranges and observing the habits of this wonderful and rare animal. Local inhabitants are being trained in these techniques, and the need for conserving the species. Interesting and surprising data and information has emerged about the natural history of the gharial, such as the extensive riverine range of adults and the protection of hatchlings by adult males. MCBT’s education programs include school camps and family activities, as well as hands-on zoo experiences for youngsters such as Zoo Keeper for a Day. There are also presentations in rural schools and this year, with funding from USV Pharmaceuticals, the Croc Bank conducted programs on snakebite and its treatment at schools, colleges, NGOs, government departments and tourist groups. Education is definitely the key to long term

sustainable conservation. We devote a large part of our time and resources towards educating people of all ages and backgrounds on the importance of conserving reptiles and natural ecosystems. Workshops and training programs are also tailor made and carried out for other zoos, schools, colleges, conservation agencies and government departments on topics related to reptile conservation, husbandry and management. These include groups from other countries as well, since we hold husbandry experience for species in those regions (eg the Siamese crocodile). MCBT's flagship project this year is the snakebite one, which has already made successful inroads in the education, research and data-collection areas. It is in fact one of the most ambitious conservation initiatives we have ever undertaken. There is an extensive report about it in this issue of our 2017-18 Annual Report, which we present with pride and gratitude for our team and partners, supporters and funders.

2. History of the Zoo

It was started in 1976 by a group of idealistic conservationists including Rom Whitaker initially with private funds and a lot of goodwill and support from friends and family, as a desperate effort to save India's dwindling crocodilian populations from extinction. At that time the gharial was particularly endangered, with only 300 or so left in the wild. The mugger and saltwater crocodile were in better shape but hunting and habitat depletion were serious threats for them as well. Today, after 40 years of cutting-edge science/research and grassroots education and awareness building, the Croc Bank is recognized as a world leader in the field of frontline conservation of species and habitats. Its infrastructure and programs include a reptile zoo on the East Coast Road south of Chennai, and field stations and study sites reaching as far afield as the Nicobar Islands. The zoo receives about 4.5 lakh visitors annually, making it one of the popular tourist attractions in the region. Originally designed to be a living repository of crocodilians for genetic safekeeping, the Croc Bank is now no

longer confined to crocodile conservation but includes all reptiles in its mandate and its title includes “Centre for Herpetology”. The release of captive bred crocodiles into the wild, which was the original goal, has not happened because of shrinking wilderness areas and the lack of suitable habitats. There are therefore about 2000 crocodiles in residence. The mandate has also extended to crocodilians from other countries, in fact all the world’s species, ie 23. Of these, 17 are housed at the Croc Bank currently, the only place in India where such a sizeable chunk of the total species can be seen. Of the 17 species represented, 2 are listed as *Critically Endangered* by the IUCN, and 3 as *Threatened*. In 2003, the Trustees of the Croc Bank decided to expand its mandate and reach, and become a centre for herpetology. Its work now includes the conservation of all reptiles, ie snakes, chelonians and lizards as well. The need for chelonian conservation has grown in recent years and MCBT now breeds several threatened species including 2 that are listed as *Critically Endangered* by IUCN.

3. Vision

To develop and run a world-class reptile zoo, and 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.

4. Mission

As above

5. Objective

As above

6. About us

S.No.	Particulars	Information
Basic Information about the Zoo		
1	Name of the Zoo	Madras Crocodile Bank Trust/ Center for Herpetology
2	Year of Establishment	1976
3	Address of the Zoo	Center for Herpetology Madras Crocodile Bank Trust Post Bag 4, Mamallapuram 603 104
4	State	Tamil Nadu
5	Telephone Number	9500101470
6	Fax Number	-
7	E-mail address	info@madrascrocodilebank.org

S.No.	Particulars	Information
8	Website	www.madrascrocodilebank.org
9	Distance from nearest	Airport: 40km
		Railway Station:55km
		Bus Stand:60km
10	Recognition Valid upto (Date)	
11	Category of zoo	Medium
12	Area (in Hectares)	3.2
13	Number of Visitors (Financial Year)	Adult :3,61,628
		Children :78595
		Total Indian :
		Total Foreigners :
		Total Visitors:440223
14	Visitors' Facilities Available in Zoo	Restrooms, Interpretation Centre
15	Weekly Closure Day of the Zoo	Monday
Management Personnel of the zoo		

S.No.	Particulars	Information
16	Name with designation of the Officer in-charge	Zai Whitaker, Director
	Name of the Veterinary Officer	Dr. J.P. Arun Pari B.Sc., B.V.Sc., & A.M.
	Name of the Curator	Nikhil Whitaker
	Name of the Biologist	Ajay Kartik
	Name of the Education Officer	Anjana Srimathi Arul CV
	Name of the Compounder/ Lab Assistant	Mohanasundaram V
Owner / Operator of the Zoo		
17	*Name of the Operator	Zai Whitaker
18	Address of the Operator	Center for Herpetology Madras Crocodile Bank Trust Post Bag 4, Mamallapuram 603 104
19	Contact details/Phone number of Operator	9487409737

S.No.	Particulars	Information
20	E-mail address of Operator	zai@madrascrocodilebank.org

** 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_____

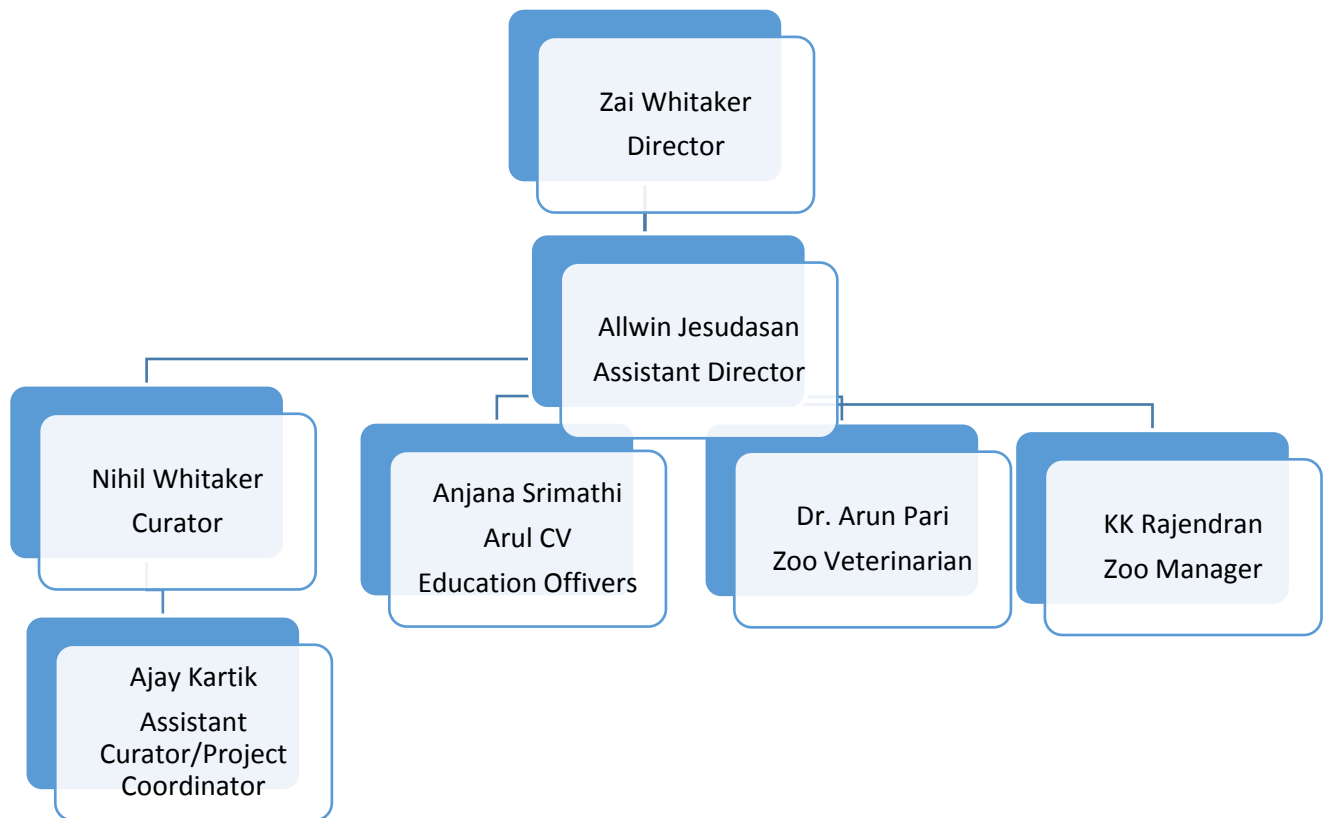
I. in the case of a firm or other association of individuals, any one of the individual partners or members thereof; or

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
1	Director		Zai Whitaker
2	Assistant Director		Allwin Jesudasan
3	Curator/Research Director		Nikhil Whitaker
4	Assistant Curator/Project coordinator		Ajay Kartik
5	Zoo Manager		KK Rajendran
6	Education Officer		Anjana Srimathi

7	Zoo Educator		Arul CV
8	Veterinarian		Dr.Arun Pari
9	ANET SRF		Dr.Manish Chandi
10	ANET-Operations Manager		Saw John
11	ANET-Base Coordinator		Adhith Swaminathan
12	ANET-Marine Research Fellow		Mahima Jani
13	ANET-Post Doctoral Fellow		Madhuri Ramesh
14	ARRS-Field Director		Anup Prakash (upto May 2017)
15	ARRS-Research Coordinator		Dhiraj Bhaisare
16	ARRS-Education Officer		Ajay Giri
17	ARRS-Operations		Shankar CM
18	ARRS-Base Manager		SS Jayakumar
19	ARRS-Research Assistant		Venetia Sharanya
20	ARRS-Research Assistant		Abhishek Shirsat
21	GEP-Primary Investigator		Dr.Jeffrey Lang
22	GEP- Project Coordinator		Jailabdeen A
23	Accountant		Mr M. Mohan
24	Assistant Accountant		Mrs. Pavithra M
25	Senior Ticket Clerk		Mr. Kannappan K
26	Senior Animal Keeper		Mr. V Gangadurai
27	Senior Animal Keeper		Mr. S Nagarathinam
28	Snake Keeper		Mr. S Sampath
29	Entrance and Pen staff supervisor		Mr. R Thangaraj
30	Zoo Educator		Mr. C Dhanasekaran

31	Maintenance supervisor		Mr. L Gunasekaran
32	Curatorial Assistant		Mr. V Mohanasundaram
33	Office Assistant		Mr. T Mohan
34	Senior Office Assistant		Mr. Pur
35	Ticket checker		Mr N. Selvamani
36	Ticket checker		Mr R. Gnanamurthy
37	Senior House Keeper		Ms M. Indradevi
38	Enclosure Maintenance and House Keeping		Ms E. Amutha
39	Chelonian Keeper		Ms S. Shanthi
40	Enclosure Maintenance		Ms J. Parimala
41	Driver		Mr M. Ramu
42	Animal Keeper		Mr S. Janakiraman
43	Croc Shop Operator		Ms N. Pushparani
44	Chief Cook		Mr G. Ashok Somai Magar
45	Cleaning and Maintenance Asst		Mr S. Mohan
46	Animal Keeper		Mr G. Gowri Shankar
47	Security Guard		Mr Tek Bahadur Somai Magar
48	Security Guard		Mr Budibal Somai Magar
49	Security Guard		Mr Krishna Bahadur Somai Magar
50	Maintenance and Cook		Ms V. Yuvarani
51	Maintenance and Cook		Ms A. Kumari

52	Maintenance Assistant		Mr K Elumalai
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*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
1	Arul CV, Zoo Educator	Herpetology	Jun-Dec 2017	BNHS
2.	Allwin Jesudasan, Assistant Director	Getting to Know – Fundraising	July 2017	Oracle
3.	Allwin Jesudasan, Assistant Director	Technology	February 2018	Google
4.	Nikhil Whitaker, Curator	Wildlife Forensics		CCMB
5.	Anjana Srimathi, Education Officer	Wildlife Conservation	Feb-Apr 2018	DICE, UK
6.	Ajay Kartik, Assistant Curator	ZIMS	March 2018	Through CZA at AAZP

10. Zoo Advisory Committee –

a. Date of constitution -

b. Members

c. Dates on which Meetings held during the year

8 April 2017

27 May 2017

14 October 2017

30 December 2017

11. Statement of income and expenditure of the Zoo

Income

Sl.no	Particulars	INR
1	Ticket Sales	1,95,82,820.00
2	Research Grants	1,23,34,896.64
3	Donations & Rent	8,90,883.67
4	Environment Education	11,90,109.00
5	Adopt an Animal	4,46,750.00
6	Bank Interest	3,55,203.00
7	Croc Shop sales	12,24,705.00
8	ARRS	15,21,493.59
9	ANET	20,72,331.00
	TOTAL	3,96,19,191.90

Expenditure

1	Salary and Wages	96,84,176.00
2	Reptile Feed Costs	41,80,974.00
3	Maintenance and Upkeep	32,75,040.00
4	Pen Maintenance and Upkeep	19,93,514.00
5	Research	1,87,61,256.64
6	Environmental Education	1,32,870.00

	Expenses	
7	ANET	16,35,113.55
8	ARRS	25,84,746.24
9	Croc Shop Expenses	6,31,345.00
10	Administrative Expenses	3,81,754.76
	TOTAL	4,32,60,790.19

12. Daily feed Schedule of animals

Sl.No.	Species	Feed item	Quantity		Day of fasting
			Winter	Summer	
1	Crocodiles	Fish, Chicken, Buffalo	2kg	4kg	Tuesday
2.	Snakes, Monitor Lizards	Rodents, Chicken meat	2-4 pieces	3-5 pieces	Tuesday
3.	Turtles,	Fresh	250gm	500gm	-

	Iguanas	Greens, Fruits and Vegetables			
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13. Vaccination Schedule of animals

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

14. De-worming Schedule of animals

Sl.No.	Species	Drug used	Month
1.	Snakes, Lizards	Drontal, Fenbendazole	September, March

15. Disinfection Schedule

Sl.No.	Species	Type of enclosure	Disinfectant used and method	Frequency of disinfection
1.	Crocodilians, Turtles	Pond and dry land	Direct use of dilute bleach	Monthly

			solution	
2.	Monitor Lizards, Iguanas	Pond and dry	Direct use of dilute bleach solution	Monthly
3.	Snakes	Terrarium	Savlon solution	Weekly

16. Health Check-up of employees for zoonotic diseases

Sl.No.	Name	Designation	Date of Health Check up	Findings of Health Check up

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

Several new exhibits have been added to the zoo, including a reptile-motif sculpture, depicting species that live in the Western Ghats where MCBT has one of its field stations (ARRS). Ten reptiles and amphibians are represented including of course the king cobra. Several small waterfalls run down the rock, giving it a feel of the rain forest.

The Komodo enclosure and its signage was completed, and is now inhabited by Smaug, who is enjoying his new spacious home with several different micro habitats where he can avail of sun, shade, shelter and water as and when it suits him. The Komodo selfie wall, adjoining the enclosure, is also a big hit.

A new mural on the Pen 8 wall depicts the natural history of the mugger, written and illustrated especially for children. Murals have also been completed on the water monitor enclosure wall. The entrance to the Croc Bank has been rearranged and

looks more spacious and attractive. Other additions are stone pillars with reptile motifs carved by local artisans, a new watchman's bunk and ticket booth, and a parking space for volunteers and guests.

Work has been completed on the café above "Reptales", our interpretation centre. With large windows on all sides, it has a great view of crocodiles, birds and trees. It should be open to the public in the near future, and visitors will be able to enjoy a cup of coffee while observing social interactions in Pen 10, or a monitor lizard climbing down from a branch. The interpretation centre, which was closed for several months while the café was being constructed, is now open to the public again.

Accessibility

One of the Croc Bank's information booklets, "Croc Talk", has now been produced in Braille and will be available to visually impaired visitors. The wheelchair is being further modified to improve its manoeuvrability in the sand.

Waste Management

A heap of compost, collected over many years, was finally trucked away to a neighbouring farm, and arrangements made for efficient composting and its use at the MCBT campus. Further, a new system of bio septic tanks were installed at all the toilets including the visitors' toilets, for efficient and hygienic use and maintenance. In all 17 filling and 27 non-filling tanks were installed by KG Cements, between 5th to 20th February. The recommendations made by the William J. Clinton Fellow Avan Antia last year, regarding solid and liquid waste management, are being implemented.

18. Education and Awareness programmes during the year

The Junior Herpers for a Day (half day) camp was held on June 4th, 2017, and a Junior Herpers for a Day (full day) camp on August 20th, 2017.

Programs- 2017

What's That Reptile? Series

Snakes and Lizards – May 13th and 14th

Juniors – May 23rd and 24th

Crocodiles and Chelonians – May 27th and 28th

What's that Lizard? – May 14th and 15th

What's That Reptile? Junior Series – May 11th and 12th

Junior Keeper for a Day camps – April 30th, June 4th, July 30th, August 20th,
September 10th, October 22nd, December 24th

Zoo Snooze (Adults) – June 24th and 25th

Snake Walks – September 17th, November 5th

Vruksha Montessori 2 Day camp – September 1st and 2nd

George Washington University(GWU) workshop – July 25th

PRIST University workshop – July 21st

USV Pvt. Ltd. School workshop – August 29th

Orchid School camp – April 23rd and 24th, October 20th and 21st

Birthday celebrations – July 30th, September 10th, October 7th, December 3rd,
December 27th

KFI school workshop – September 15th

Know Your Reptile sessions and Guided Tours have been conducted for interested visitors throughout the year

Programs- 2018

Junior Keeper for a Day camps – February 18th

Junior Herpers / Half-day camps – February 25th

Snake Walk – January 14th, February 11th

19. Important Events and happenings

Padma Shri award for Rom Whitaker, Founder-Trustee

Rom Whitaker was awarded the Padma Shri award in the 2018 Republic Day honours, for his “exceptional and distinguished service in the field of wildlife conservation.” The Croc Bank congratulates him and is delighted to be working with him on several projects. There was a function on May 21st 2018 at the Croc Bank to honour him.

20. Seasonal special arrangements for upkeep of animals

- Provision of sprinklers, shade cloth and cool retreats for all reptile enclosures where necessary.
- All large lizards provided with a water bath daily
- Provision of water rich foods like leafy greens, musk melons and watermelons for herbivorous reptiles like chelonians and Iguanas

21. Research Work carried out and publications

Whitaker, N – Note on the reproduction of the Northern River Terrapin (*Batagur baska*), Turtle Survival Alliance Newsletter, 2017

Kartik, A – Note on reproduction and hatchling size of *Dryocalamus nympha*, Herpetological Review (48 (4)), 2018

Kartik, A – Note on feeding behaviour of *Ahaetulla nasuta*, Herpetological Review (49 (2)), 2018

Mohan, A. V. and Shanker, K, Conservation biogeography of the Andaman keelback (*Xenochrophis tyleri*) in the Andaman Islands, 2017 – Report for ANET

22. Conservation Breeding Programme of the Zoo

In 2017-18, Two critically endangered species of turtles, Red crowned roof turtle (*Batagur kachuga*) and Northern river terrapin (*Batagur baska*) were bred at MCBT

23. Animal acquisition / transfer / exchange during the year

A.	Animals arriving in the Zoo				
	H.NO.	Species	Number (M:F)	From which Zoo	Date of arrival in the zoo
B.	Animals going from the zoo				
	H.NO.	Species	Number (M:F)	Going to which Zoo	Date of deposition from the zoo
	1.	Gharial	2.3	Mysore Zoo	5 September 2017

	2.	Python	2.2	Mysore Zoo	5 September 2017
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24. Rescue and Rehabilitation of wild animals carried out by the Zoo

Sl.No.	Date of Rescue	Species with number of animals rescued with their sex (M: F:U:T)	Received from	Date of Submission of Report to the CWLW / CZA	Action taken	
					Date and Place of rehabilitation in their habitat	Reasons for housing in the zoo, if not released in their habitat

25. Annual Inventory of animals

Form – II

[See Rule 11(1)]

Part – A

Inventory Report for the Year :

Endangered Species*

S. No.	Animal Name	Scientific name	Opening Stock as on				Births			Acquisition			Disposal			Death			Closing Stock as on			
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
1.	Mugger	<i>Crocodylus palustris</i>	0	0	18												15	0	0	18		
2.	Gharial	<i>Gavialis gangeticus</i>	3	5	41								5			6	3	5	30			
3.	Saltwater	<i>Crocodylus</i>	6	5	31												6	5	31			

	ater croco dile	<i>dylus poros us</i>																	
4.	Indian pytho n	<i>Pytho n molur us</i>	1	1	22								4		1	1	1	17	
5.	Reticu lated pytho n	<i>Pytho n reticul atus</i>	0	1	0											0	1	0	
6.	Indian Cobra	<i>Naja naja</i>	1	0	2											1	0	2	
7.	River terrapi n	<i>Batag ur baska</i>	1	2	6			1 2							4	1	2	14	
8.	Crown ed river turtle	<i>Hardell a thurjii</i>	0	1	0											0	1	0	
9.	Turtle Crown ed River/R oof	<i>Batagu r dhongo ka</i>	1	4	4										4	1	4	0	
10	Turtle Fresh Water / Indian Soft- shelled	<i>Lissem ys punctat a</i>	0	0	45											0		0	45

19.	Common krait	<i>Bungarus caeruleus</i>	0	0	2													0	0	2	
20.	Sawscaled viper	<i>Echis carinatus</i>	0	0	3													0	0	3	
21.	Russells Viper	<i>Daboia russelii</i>	1	0	0													1	0	0	
22/	Star tortoise	<i>Geochelone elegans</i>	2	4	10									1	1			2	3	9	
23.	Rat snake	<i>Ptyas mucosa</i>	1	1	0													1	1	0	

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

Other than Endangered Species

S.No.	Animal Name	Scientific name	Opening Stock as on				Births			Acquisition			Disposal			Death			Closing Stock as on			
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
1.	Caiman Dwarf	<i>Paleosuchus palpebrosus</i>	1	1	1													1	1	1		9
2.	Trinket snake	<i>Coeleognathus helena</i>	1	2	1													1	2	1		
3.	Termit hill gecko	<i>Hemidactylus triedurus</i>																1	2	1		

	n Slender																			
12.	Crocodile West African Dwarf	<i>Osteolemus tetraspis</i>	1	0	0													1	0	0
13.	Tortoise Aldabra/Giant	<i>Dipsosaurus gigantea</i>	0	0	4													0	0	4
14.	Cuban crocodile	<i>Crocodylus rhombifer</i>	1	4	0													1	4	0
15.	Black caiman	<i>Melanosuchus niger</i>	0	1	0													0	1	0
16.	Cuvier's dwarf caiman	<i>Paleosuchus trigonaus</i>	1	1	0								1					0	1	0
17.	Green anconda	<i>Eunectes murinus</i>	1	1	0													1	1	0
18.	Yellow anaco	<i>Eunectes notaeus</i>	0	2	2 6													1	0	2 5

	nda																						
19.	Blue Tongue Skink	<i>Tiliqua scincoides</i>	1	0	0													1			0	0	0
20.	Komodo Dragon	<i>Varanus komodoensis</i>	2	1	0																2	1	0
21.	Green Iguana	<i>Iguana iguana</i>	1	1	0																1	1	0
22.	Wolf snake	<i>Lycodon aulicus</i>	1	1	0																1	1	0

26. Mortality of animals

Sl.No.	Animal Name (with individual identification mark, if any)	Scientific Name	Sex	Date of Death	Reason of Death as per the Post-mortem report
1.	Mugger Crocodile -15 nos	<i>Crocodylus palustris</i>			Infighting
2.	Gharial – 6 nos	<i>Gavialis gangeticus</i>			Neonatal deaths
3.	Three striped	<i>Batagur dhongoka</i>			Neonatal

	roof turtle – 4nos				deaths
4.	Northern river terrapin – 4nos	<i>Batagur baska</i>			Neonatal deaths
5.	Whitakers boa – 2 nos	<i>Eryx whitakeri</i>			One neonatal death, one unknown causes
6.	Travancore tortoise – 10 nos	<i>Indotestudo travancorica</i>			Neonatal deaths
7.	Red crowned roof turtle – 12 nos	<i>Batagur kachuga</i>			Neonatal deaths
8.	Tent turtle – 2 nos	<i>Pangshura tentoria</i>			Unknown causes
9.	Indian star tortoise -2 nos	<i>Geochelone elegans</i>			Unknown causes
10.	Dwarf caiman – 1 no	<i>Paleosuchus trigonatus</i>			Long term sickness and emaciation

27. Compliance with conditions stipulated by the Central Zoo Authority

Sr.	Norm	Condition	Time	Since	Status with regard to
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No	No. under RZR, 2009	Stipulated	Period to Comply	when pending	compliance of the conditions
1.	1.6	Residence of Zoo Director to be separated from zoo by 2m high boundary wall with entry/exit separate from the zoo premises.	With immediate effect	15-6-2016	As communicated to the evaluation officer, building a wall between the residence and enclosure created a flooding point during the monsoon and will be carried out along with the zoo masterplan work.
2.	1.9	Dogs kept within the zoo premises	With immediate effect	15-6-2016	Currently only dog is kept for security purposes and is confined outside of the zoo area.
3.	3.8	Zoo should not accept any rescued animals without verifying details and bringing the matter forth to Chief Wildlife	With Immediate effect	15-6-2016	We have complied with this regulation

		Warden			
4.	4.9	Appropriate stand-off barrier and hedge rows to be provided for enclosures	6 months	15-6-2016	We have complied with this regulation
5.	5.2	Water recycling plant for individual crocodile enclosures	Two years	15-6-2016	This is being addressed with the revision of our masterplan.
6.	5.4	Footbaths at the entry and exit points of the enclosures	With immediate effect	15-6-2016	We have complied with this regulation
7.	9.7	Excess population of marsh crocodiles to be shifted to off exhibit facility as approved by CZA	One year	15-6-2016	This is being addressed with the revision of our masterplan.
8.	9.11	Single river turtle to be released in the	With immediate effect	15-6-2016	The animal passed away due to old age

		wild after due health screening			
9.	12.3	Provision of wheelchair for the use of physically disadvantaged visitors. Arrangement of accesspoints at various enclosures for the same.	With immediate effects		Wheelchairs have been provided and used regularly by physically disadvantaged visitors.

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

a. Mammals

nil

b. Birds

1. White headed babbler
2. Coppersmith
3. Blue tailed bee-eater
4. Small green bee-eater
5. Red vented bulbul
6. White browed bulbul
7. House crow
8. Jungle crow
9. Common hawk cuckoo
10. Indian plaintive cuckoo
11. Spotted dove
12. Drongo
13. Night Heron
14. Pond Heron
15. Common iora
16. Pied Kingfisher
17. Small blue kingfisher
18. White breasted kingfisher
19. Brahminy kite
20. Koel
21. Redwattled lapwing
22. Common myna
23. Golden Oriole
24. Collared scops owl
25. Spotted Owllet
26. Blossom headed parakeet
27. Rose ringed parakeet
28. Magpie robin
29. Shikra
30. Loten's sunbird
31. Purple rumped sunbird
32. Ashy swallow shrike
33. House swift
34. Palm swift
35. Indian treepie
36. Ashy wren warbler
37. Indian wren warbler
38. White breasted waterhen
39. Flamebacked woodpecker
40. Chestnut Winged Cuckoo
41. Orange Headed Thrush
42. Large Egret
43. Cattle Egret
44. Intermediate Egret
45. Little Coromorant

46. Asian paradise flycatcher
47. Forest Wagtail
48. Small minivet

Reptiles

Lizards

1. *Calotes versicolor*
2. *Mabuya carinata*
3. *Sitana ponticeriana*
4. *Chamaeleo zeylanicus*
5. *Hemidactylus frenatus*
6. *Hemidactylus leshenaultii*
7. *Hemidactylus flaviviridis*
8. *Varanus bengalensis*
9. *Lygosoma punctata*

Snakes

10. *Ptyas mucosa*
11. *Amphiesma stolatum*
12. *Macrophistodon plumbicolor*
13. *Ahaetulla nasuta*
14. *Dendrelaphis tristis*
15. *Lycodon aulicus*
16. *Lycodon striatus*
17. *Eryx johnii*
18. *Bungarus caeruleus*
19. *Naja naja*