

**Zoological Garden
Thiruvananthapuram**

Annual Report

2018 - 19



Zoological Garden, Thiruvananthapuram

Annual Report 2018 - 2019

Sl. No.	Particulars	Page No.
1	Report of the Officer-in-charge	1
2	History of the Zoo	2
3	Vision	3
4	Mission	3
5	Objective	3
6	About us	4
7	Organizational Chart	6
8	Human Resources	7
9	Capacity Building of the zoo personnel	10
10	Health Advisory Committee	15
11	Statement of income and expenditure of the Zoo	16
12	Daily feed Schedule of animals	17
13	Vaccination Schedule of animals	24
14	De-worming Schedule of animals	26
15	Disinfection Schedule	27
16	Health Check-up of employees for zoonotic diseases	28
17	Development Works carried out in the zoo during the year	28
18	Visitor amenities	29
19	Education and Awareness programmes during the year	33
20	Important Events and happenings in the zoo	34
21	Conservation Breeding Programme of the Zoo	35
22	Annual Inventory of animals	36
23	Mortality of animals.	41
24	Status of the Compliance with conditions stipulated by the Central Zoo Authority	44
25	List of free living wild animals within the zoo premises	47



S. ABU
Director



The Zoological Garden, Thiruvananthapuram has been the centre of attraction for the animal lovers who visit the temple city of Kerala. Ever since its establishment in 1859 as the second Zoo in India, the Thiruvananthapuram Zoo has seen a steady progress in the number and variety of its animal collection.

Ever since the approval of the Master Plan, the institution has taken due care to stick on to the Master Plan in execution of the development activities in the compound. The institution could also raise to the expectations of the visitors coming from various parts of the Country and abroad. Apart from Zoo the visitors also cherish the Botanical Garden, Art Museum and Art Galleries present in the compound.

During the year 2018 - 19 many developmental activities like interpretation centres, Zoo office cum store complex, construction of new enclosures, maintenance of different animal houses etc could be initiated. The Zoo could witness marked changes in respect of its infrastructure facilities. Many educational activities could be initiated which imparted knowledge to the visitors, which is a fundamental objective of establishment of Zoos. Though the State was ravaged by the flood, which led to widespread destruction of life and property; the Thiruvananthapuram Zoo was least affected as it is located relatively at a altitude. The help and co-operation received from the State Government and Central Zoo Authority played a vital role in the Development of the Zoo.

S. Abu



2. History of the Zoo

The Thiruvananthapuram Zoo is the oldest zoo in India continuing to exist in its original location in the heart of the temple city Thiruvananthapuram. Swathi Thirunal Maharaja (1816 – 1846), illustrious King and Music composer who had ruled Travancore during 1830 – 1846 is said to be the visionary behind the establishment of the Thiruvananthapuram Museum and Zoo. He had a good collection of animals including elephants in his horse breeding centre. To the Trivandrum stables he incorporated a menagerie and kept tigers, panthers, cheetahs, deer, bears and a lioness. It was however left to his brother Uthram Thirunal Marthanda Varma and the then British Resident General Cullen which consequenced the establishment of the Museum and Zoo in Thiruvananthapuram. A committee was formed in 1855 with the Maharaja of Travancore as patron, General Cullen as President the Elaya Raja as Vice President Mr. Allen Brown as Secretary of the Committee. The Museum was thrown open to the public in September 1857. But the Museum by itself could not attract the people much, and therefore a Zoo and a park were started in 1859.

This Zoological Garden is unique in India for its breathtaking landscapes and luxuriant growth of vegetation. Royal look of lofty trees, towering bamboos, lush green landscapes give it a rare distinction of being one of the most beautiful zoos in South East Asia. Spread over 36 acres of land and located in the heart of the city it provides a respite for the people of Thiruvananthapuram as much it offers tourism and recreation for visitors reaching from outside Kerala and overseas.

3. Vision

To make Thiruvananthapuram Zoo the best Zoo in the country by 2025

4. Mission

Happy animals, Pleasing staff & Satisfied visitors

5. Objective

- A. Wildlife conservation with special emphasis to the species endemic and endangered in Western Ghats.
- B. Education and Nature Awareness.
- C. Wildlife Research.
- D. Eco – tourism.

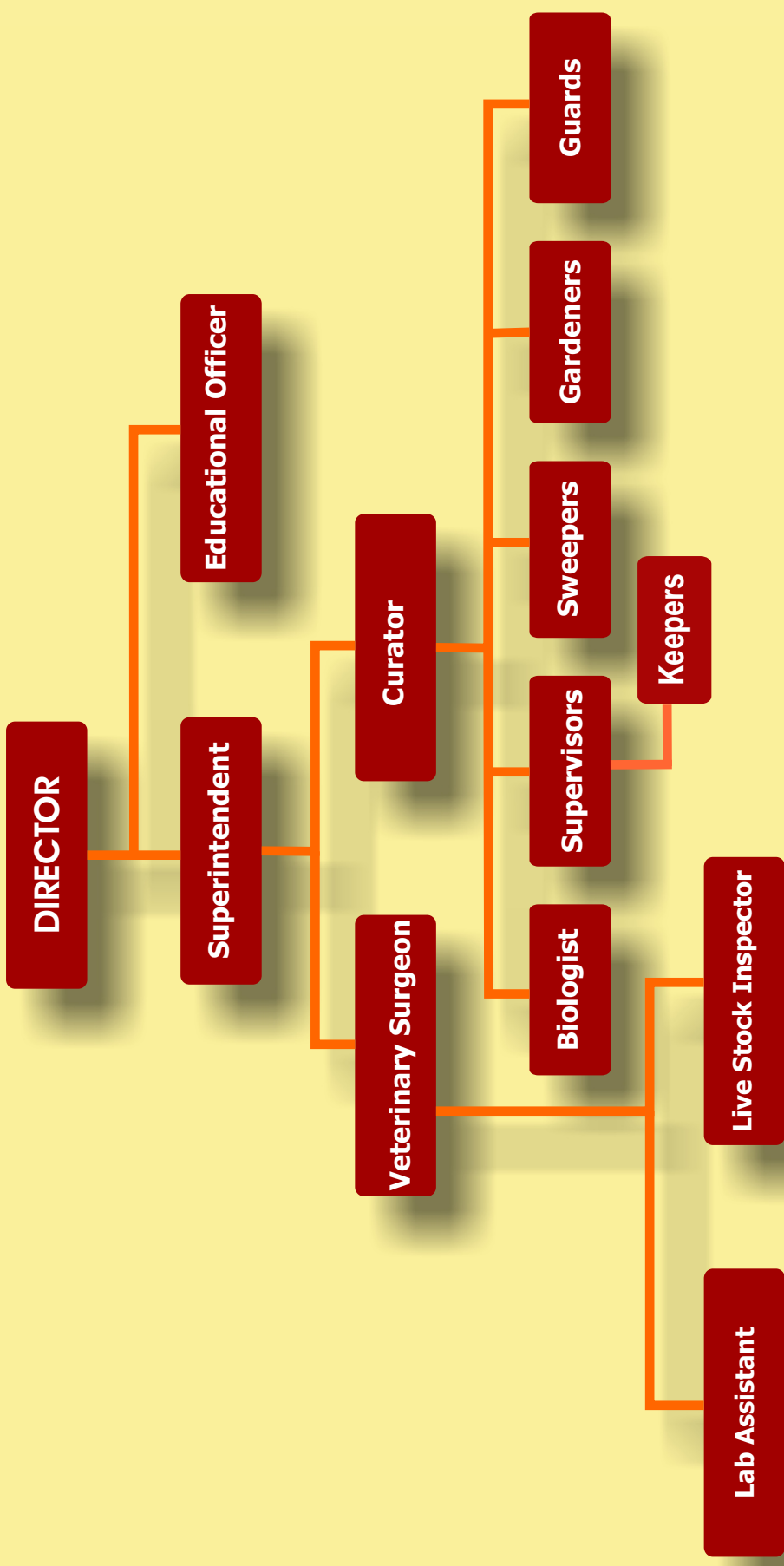


6. About Us

Sl. No.	Particulars	Information
Basic information about the Zoo		
1	Name of the Zoo	Zoological Garden, Thiruvananthapuram
2	Year of Establishment	1859
3	Address of the Zoo	Museums and Zoo Compound Vikas Bhavan (P.O.) Thiruvananthapuram - 695033 Kerala State
4	State	Kerala
5	Telephone Number	0471-2316275, 2318294
6	Fax Number	0471-2318294
7	E-mail address	museumzoo@gmail.com
8	Website	www.keralamuseumandzoo.org
9	Distance from Nearest	Airport : 9 Kms. Railway Station : 3 Kms. Central Bus Stand : 3 Kms
10	Recognition valid upto (Date)	23rd January 2020
11	Category of Zoo	Large
12	Area (in Hectares)	14.58 Hectares
13	Number of Visitors (2018 - 19)	Adult : 20,49,507 Children : 5,21,351 Total Indian : 25,70,858 Total Foreigners : 6,431 Total Visitors : 25,77,289

14	Visitors' facility available in Zoo	Battery Operated Vehicles, E - Toilets, She Toilets, Morning Walks, Children's Park, 3-D Theatre, Art Museum, Aquarium, Art Gallery, Natural History Museum, Rain Shelters, Purified Drinking Water Points, Food Court, Restaurant, Cafeteria, Wheel Chairs, Parking Facility etc.
15	Weekly Closure Day of the Zoo	Monday
Management Personnel of the zoo		
16	Name with Designation of the Officer in-charge	T.V.Anilkumar, Superintendent, Zoological Garden
	Name of the Veterinary Officer	Dr. Jacob Alexander
	Name of the Curator	Mrs. Sangeetha Mohan
	Name of the Biologist	Preethi N
	Name of the Education Officer	P.V. Vijayalekshmi
	Name of the Compounder/ Lab Assistant	S.M. Ragi
Owner / Operator of the Zoo		
17	Name of the Operator	R.K. Singh IAS
18	Address of the Operator	Secretary, Cultural Affairs Department
19	Contact details/Phone number of Operator	0471-2322903
20	E-mail address of Operator	secy.ahd@kerala.gov.in

7. Organisation Chart



8. Human Resources

Man power of the Zoo

Sl. No.	Designation	Number of Sanctioned posts	Names of the incumbent
1	Director	1	S. Abu
2	Superintendent	1	T.V. Anilkumar
3	Curator	1	Sangeetha Mohan
4	Veterinary Surgeon	1	Dr. Jacob Alexander
5	Education Officer	1	P. Vijayalekshmi
6	Livestock Inspector	1	Renjith Kumar T
7	Lab Assistant	1	S.M. Ragi
8	Supervisor	2	C. Radhakrishnan Nair
9			A. Vincent
10	Keeper	29	B. Saji
11			M. Vimalan
12			C. Thankappan
13			A. Radhakrishnan Nair
14			T. Chandran
15			R. Sudheesan
16			K. Babu
17			S. Jayan
18			S. Vasudevan Nair
19			B. Rajesh
20			M. Ramachandran
21			D. Manoharan
22			V.A. Sreekumar
23			R. Deepu
24			R. Ratheesh
25			N. Raveendran Nair
26			T.R. Radhakrishnan
27			N. Muraleedharan Nair
28			V.S, Manu
29			S.S. Rajesh Kumar
30			V. Anilkumar
31			S.L. Sreejith
32			A. Harshad
33			AS. Saji
34			K. Subhash
35			Midhun KS
36			Kiran Babu B
37			Biju R
38			S.N. Rajesh
39			Shaji R
40			Biju VR

41	P.T . Keeper	4	D. Muraleedharan Nair
42			K.S. Sunil
43			N. Gopakumar
44			Bhaskaran C
45	Scavengers	3	T .Sajikumar
46			B. Leela
47	Blacksmith	1	A.K. Rajan
48	Carpenter	1	Vacant
49	Mason	1	V.Sreekumar
50	Pump Operator	1	Harish Madhavan
51	Driver	1	B. Shameer
52	Van Cleaner	1	T.R. Arun
53	Senior Civil Police Officer	1	Vacant
54	Civil Police Officer	10	B.T . Prajeesh
55			B. Shibu
56			S. Sunilkumar
57			M.S. Mahesh Raj
58			K. Jayakumar
59			V.S. Ajidas
60			S. Gireesh Kumar
61			P. Pradeep
62	Sergeant	1	Abdul Kalam
63	Guards	14	Rahul V R Chandran
64			M Arun
65			V Suresh Roy
66			V M Sudheesan
67			K. Suresh
68			V.P. Prasobhan
69			K. Ranjith Kumar
70			O.M. Gireesh Kumar
71			C.S. Ajikumar
72			Unnikrishnan
73			B.Babu
74			Ragesh Cherotta
75			M.K. Vijeesh
76			Sujith Kumar

77			Sindhu VB		
78			Elcy M Mathew		
79			KP Chacko		
80	Gardeners	8	G Murali		
81			Sreedevi R		
82			M Thulasidharan Pillai		
83			Rema S		
84			Dhileep Kumar G		
85			Part Time Gardener	1	P. Vijayakumar
86			Sweepers	7	Valsala S
87					Ann Mary Elizebeth
88	Sreekala G				
89	Saleeja CK				
90	Sheeba J				
91	Sunil Kumar KR				
92	Manju B				
93	Part Time Sweeper	1	K. Vijayan		



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	T.V. Anilkumar, Superintendent	Capacity Building Programme on Skill and Attitude.	09.06.2018 to 10.06.2018	Conducted by Institute of Management at Museum Auditorium.
		Annual Conference of Indian Zoos	12.11.2018 to 15.11.2018	Nawab Wajid Ali Shah Zoological Garden, Lucknow
		Capacity Building Programme for Museum Staffs in Kerala State	16.01.2019 to 31.01.2019	National Museum Institute, New Delhi
2	Dr. Jacob Alexander, Veterinary Surgeon	Training on "Pet Birds - Care and Management"	06.04.2018 to 08.04.2018	Kerala State Veterinary Council at Emakulam
		Training on "Oral Fluid Therapy in Large Animals"	21.04.2018	Kerala State Veterinary Council
		Training on "Antiparasitic Chemotherapy for Large Animals"	18.05.2018 to 19.05.2018	Kerala State Veterinary Council
		Workshop on "Nipah Virus Threat "of Indian Zoo Veterinarians on the theme " Recent Trends in Captive Wild Animals Management"	23.05.2018	Indian Veterinary Association, Thiruvananthapuram Unit
		Workshop of Indian Zoo Veterinarians on the theme " Recent Trends in Captive Wild Animals Management"	07.01.2019 to 09.01.2019	Sri. Chamarajendra Zoological Gardens, Mysuru.
		Training on soft skills & Disaster Management for Category IV Employees of Museums and Zoos Directorate	18.06.2018 to 22.06.2018	Institute of Management in Government, Thiruvananthapuram

Sl.No.	Name and Designation of the Zoo Personnel	Subject Matter of Training	Period of Training	Name of the Institution where the Training attended
3	Sangeetha Mohan, Curator	Capacity Building Programme for Ministerial Staff on MOP, Disciplinary Procedures and RTI for Museums and Zoos Department	08.09.2018 to 09.09.2018	Institute of Management in Government, Thiruvananthapuram
		Capacity Building Programme on Skill and Attitude development	08.10.2018 to 12.10.2018	Institute of Management in Government, Thiruvananthapuram
		Training on Official Language MS Office, MS Excel	16.01.2019,19.01.2019,23.01.2019,30.01.2019	Institute of Management in Government, Thiruvananthapuram
4	Shinesha S, Store Clerk	Capacity Building Programme on Skill and Attitude.	09.06.2018 to 10.06.2018	Conducted by Institute of Management at Museum Auditorium.
		Capacity Building Programme for Ministerial Staff on MOP, Disciplinary Procedures and RTI for Museums and Zoos Department	08.09.2018 to 09.09.2018	Institute of Management in Government, Thiruvananthapuram
5	S. Bijukumar, Office Attendant	Training on soft skills & Disaster Management for Category IV Employees of Museums and Zoos Directorate	12.11.2018 to 16.11.2018	Institute of Management in Government, Thiruvananthapuram
6	A Vincent	Familiarisation of the Zoos in India	04.03.2019 to 14.03.2019	Chhatbir Zoo (Punjab), Nahargarh Zoo (Jaipur) and Rohtak Zoo (Haryana)
7	R. Sudheesan	Familiarisation of the Zoos in India	04.03.2019 to 14.03.2019	Chhatbir Zoo (Punjab), Nahargarh Zoo (Jaipur) and Rohtak Zoo (Haryana)
8	K. Babu	Familiarisation of the Zoos in India	04.03.2019 to 14.03.2019	Chhatbir Zoo (Punjab), Nahargarh Zoo (Jaipur) and Rohtak Zoo (Haryana)
9	V.S, Manu	Training Programme for Zoo Keepers	18.03.2019 to 22.03.2019	Nehru Zoological Park, Hyderabad

Sl.No.	Name and Designation of the Zoo Personnel	Subject Matter of Training	Period of Training	Name of the Institution where the Training attended
10	S.S. Rajesh Kumar	Training on soft skills & Disaster Management for Category IV Employees of Museums and Zoos Directorate	18.06.2018 to 22.06.2018	Institute of Management in Government, Thiruvananthapuram
11	V. Anilkumar	Familiarisation of the Zoos in India	04.03.2019 to 14.03.2019	Chhatbir Zoo (Punjab), Nahargarh Zoo (Jaipur) and Rohtak Zoo (Haryana)
		Training on soft skills & Disaster Management for Category IV Employees of Museums and Zoos Directorate	18.06.2018 to 22.06.2018	Institute of Management in Government, Thiruvananthapuram
12	S.L. Sreejith	Familiarisation of the Zoos in India	04.03.2019 to 14.03.2019	Chhatbir Zoo (Punjab), Nahargarh Zoo (Jaipur) and Rohtak Zoo (Haryana)
		Training on soft skills & Disaster Management for Category IV Employees of Museums and Zoos Directorate	18.06.2018 to 22.06.2018	Institute of Management in Government, Thiruvananthapuram
13	A. Harshad	Training on soft skills & Disaster Management for Category IV Employees of Museums and Zoos Directorate	18.06.2018 to 22.06.2018	Institute of Management in Government, Thiruvananthapuram
14	Biju R	Familiarisation of the Zoos in India	04.03.2019 to 14.03.2019	Chhatbir Zoo (Punjab), Nahargarh Zoo (Jaipur) and Rohtak Zoo (Haryana)
15	Shaji R	Familiarisation of the Zoos in India	04.03.2019 to 14.03.2019	Chhatbir Zoo (Punjab), Nahargarh Zoo (Jaipur) and Rohtak Zoo (Haryana)
16	Biju V.R.	Familiarisation of the Zoos in India	04.03.2019 to 14.03.2019	Chhatbir Zoo (Punjab), Nahargarh Zoo (Jaipur) and Rohtak Zoo (Haryana)
17	K. Subhash, Keeper	Training on soft skills & Disaster Management for Category IV Employees of Museums and Zoos Directorate	12.11.2018 to 16.11.2018	Institute of Management in Government, Thiruvananthapuram

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
18	A.S. Saji, Keeper	Training on soft skills & Disaster Management for Category IV Employees of Museums and Zoos Directorate	12.11.2018 to 16.11.2018	Institute of Management in Government, Thiruvananthapuram
19	K.S. Midhun	Training on soft skills & Disaster Management for Category IV Employees of Museums and Zoos Directorate	12.11.2018 to 16.11.2018	Institute of Management in Government, Thiruvananthapuram
20	Kiran Babu B	Familiarisation of the Zoos in India	04.03.2019 to 14.03.2019	Chhatbir Zoo (Punjab), Nahargarh Zoo (Jaipur) and Rohtak Zoo (Haryana)
		Training on Official Language MS Office, MS Excel	16.01.2019,19.01.2019,23.01.2019,30.01.2019	Institute of Management in Government, Thiruvananthapuram
21	R Biju	Training on soft skills & Disaster Management for Category IV Employees of Museums and Zoos Directorate	12.11.2018 to 16.11.2018	Institute of Management in Government, Thiruvananthapuram
22	SN Rajesh	Capacity Building Programme on Skill and Attitude development	10.10.2018 to 12.10.2018	Institute of Management in Government, Thiruvananthapuram
23	R Shaji	Familiarisation of the Zoos in India	04.03.2019 to 14.03.2019	Chhatbir Zoo (Punjab), Nahargarh Zoo (Jaipur) and Rohtak Zoo (Haryana)
		Capacity Building Programme on Skill and Attitude development	10.10.2018 to 12.10.2018	Institute of Management in Government, Thiruvananthapuram
24	VR Biju	Capacity Building Programme on Skill and Attitude development	10.10.2018 to 12.10.2018	Institute of Management in Government, Thiruvananthapuram
25	KS Sunil, PT Keeper	Training on soft skills & Disaster Management for Category IV Employees of Museums and Zoos Directorate	18.06.2018 to 22.06.2018	Institute of Management in Government, Thiruvananthapuram
26	T Sajikumar, Scavenger	Capacity Building Programme on Skill and Attitude development	10.10.2018 to 12.10.2018	Institute of Management in Government, Thiruvananthapuram

Sl.No.	Name and Designation of the Zoo Personnel	Subject Matter of Training	Period of Training	Name of the Institution where the Training attended
27	B Leela, Scavenger	Training on soft skills & Disaster Management for Category IV Employees of Museums and Zoos Directorate	12.11.2018 to 16.11.2018	Institute of Management in Government, Thiruvananthapuram
28	AK Rajan. Blacksmith	Training on soft skills & Disaster Management for Category IV Employees of Museums and Zoos Directorate	18.06.2018 to 22.06.2018	Institute of Management in Government, Thiruvananthapuram
29	V Sreekumar, Mason	Capacity Building Programme on Skill and Attitude development	10.10.2018 to 12.10.2018	Institute of Management in Government, Thiruvananthapuram
30	M. Arun, Guard	Training on soft skills & Disaster Management for Category IV Employees of Museums and Zoos Directorate	12.11.2018 to 16.11.2018	Institute of Management in Government, Thiruvananthapuram
31	Sindhu V B	Training on soft skills & Disaster Management for Category IV Employees of Museums and Zoos Directorate	18.06.2018 to 22.06.2018	Institute of Management in Government, Thiruvananthapuram
32	Elyc M Mathew	Training on soft skills & Disaster Management for Category IV Employees of Museums and Zoos Directorate	18.06.2018 to 22.06.2018	Institute of Management in Government, Thiruvananthapuram
33	KP Chacko	Training on soft skills & Disaster Management for Category IV Employees of Museums and Zoos Directorate	18.06.2018 to 22.06.2018	Institute of Management in Government, Thiruvananthapuram
34	G Murali	Training on soft skills & Disaster Management for Category IV Employees of Museums and Zoos Directorate	18.06.2018 to 22.06.2018	Institute of Management in Government, Thiruvananthapuram
35	Sreedevi R	Training on soft skills & Disaster Management for Category IV Employees of Museums and Zoos Directorate	18.06.2018 to 22.06.2018	Institute of Management in Government, Thiruvananthapuram
36	M Thulaseedharan Pillai	Training on soft skills & Disaster Management for Category IV Employees of Museums and Zoos Directorate	18.06.2018 to 22.06.2018	Institute of Management in Government, Thiruvananthapuram

10. Health Advisory Committee

a.	Date of constitution	:	28.2.2018
b.	Chaiman	:	Principal Chief Conservator of Forests (WL) and Chief Wildlife Warden, Kerala
c.	Members	:	i. Chief Forest Veterinary Officer ii. Forest Veterinary Officer iii. Veterinary Officer of the concerned Zoo
d.	Dates on which meeting held during the year	:	25.9.2018



11. Statement of income and expenditure of the Zoo

Sl. No.	Particulars	Income
1	Zoo Entry Ticket	4,01,23,240
2	Aquarium Entry Ticket	30,74,460
3	Battery operated vehicle	33,49,145
4	Vehicle parking	62,71,800
5	Selling of manures	99,402
6	Miscellaneous	10,628
	Total	5,29,28,675

Sl. No.	Particulars	Expenditure
1	Dietary articles for Zoo inmates	2,49,64,476
2	Developmental works inside the Zoo	4,60,48,493



12. Daily feed schedule of animals

CARNIVORES

Sl. No.	Name of Livestock	Beef (Kg.)	Liver (Kg)	Milk	Carnivore Mineral Mixture (g)
1	Tiger	7	0.25		25g/Kg of feed
2	White Tiger	10	0.25		
3	Lion	7	0.25	500 ml	
4	Leopard	3	0.25		
5	Jaguar	3	0.25		
6	Jackal	0.7			
7	Jungle Cat	0.2			
8	Cinerous Vulture	0.75			
9	Himalayan Vulture	0.75			
10	Bengal Vulture	0.25			
11	Hyaena	3			

BIRDS

Sl. No.	Name of Livestock	Fish (Kg)	Meat (g)
1	White Necked Stork	0.2	
2	Adjutant Stork	0.5	
3	Painted Stork	0.2	
4	Pelican - Rosy	0.5	
5	Pelican - Grey	0.5	
6	Spoonbill	0.15	
7	White Ibis	0.15	
8	Grey Heron	0.2	
9	Night Heron	0.15	
10	Pond Heron	0.15	
11	Purple Heron	0.15	
12	Darter	0.15	
13	Pariah Kite	0.04	50
14	Brahminy Kite	0.1	50
15	White bellied sea eagle	0.3	100
16	Barn Owl	0.25	50
17	Brown fish owl	0.1	250
18	Spot bellied eagle owl	0.13	250

Sl. No	Name of Livestock	Greens/ Coriander leaves (g)	Green chilly (g)	Green gram (g)	Poultry Feed (g)	Rice (cooked) (g)	Garlic (g)	Wheat (g)	Caged birds Mineral Mixture (g)
1	Pea fowl	30	20	20	30	100		30	55g/Kg of feed
2	Guinea fowl	30	20	20	30	100		30	
3	Ring Necked Pheasant	20	10	10	25	10	5	20	
4	Silver Pheasant	20	10	10	25	10	5	20	
5	Silver Golden Pheasant	20	10	10	25	10	5	20	
6	Golden Pheasant	20	10	10	25	10	5	20	
7	Khalij Pheasant	20	10	10	25	10	5	20	
8	Lady Amherst Pheasant	20	10	10	25	10	5	20	

EXOTIC BIRDS

Sl No	Name of Livestock	Sugarcane (g)	Sunflower/maize/jowar/Groundnut (WH) and WOH/badam (mix) (g)	Banana (g)	Apple (g)	Guava (g)
1	Green winged macaw	55	80	55	35	35
2	Blue gold macaw	55	80	55	35	35
3	Scarlet macaw	55	80	55	35	35
4	Sulphur Cockatoo	55	80	55	35	35
5	Palm Cockatoo	55	80	55	35	35
6	Yellow Collared Macaw	55	80	55	35	35

SI No	Name of Livestock	Sugarcane (g)	Sunflower/maize/jowar/ Groundnut (WH) and WOH/badam (mix) (g)	Banana (g)	Apple (g)	Guava (g)	Papaya (g)
1	Eclectus parrot	50	20	40	15	15	65
2	Orange winged amazon	50	20	40	15	15	65
3	African grey Parrot	50	20	40	15	15	65
4	Sun Conure	50	20	40	15	15	65
5	Salmon crested cockatoo	50	20	40	15	15	65
6	Violet turaco		20		25	25	25
7	Hartlaubs Turaco		20		25	25	25
8	Blue crowned Pigeon		20		25	25	25

SI No	Name of Livestock	Banana (g)	Greens/ spinach (g)	Dog Feed (g)	Layer/ Ostrich feed (g)	Green gram (g)	Cucumber (g)	Bread (g)	Carrot (g)	Raw rice (g)	Caged birds Mineral Mixture (g)
1	Ostrich	500	15 Kg	400							55g/ Kg of feed
2	Emu	750	500		250	250	250	200		250	
3	Emu (juvenile)		500		150				400		
4	Farm Ostrich		5 Kg		250						

SI No	Name of Livestock	Greens/ Spinache (g)	Poultry Feed (g)	Boiled Eggs with shell	Heart of beef (cooked) 9G0	Cauliflower (g)	Cabbage (g)	Carrot (g)	Caged birds Mineral Mixture (g)
1	Rhea	1,000	270	1 No.	200	150	100	100	55g/ Kg of feed
2	Rhea (juvenile)	750	200	1 No.				500	

SI No.	Name of Livestock	Bengal Gram (g)	Guava (g)	Grapes (g)	Ground nut (WH) (g)	Groundnut WOH (g)	Mango/Apple (g)
1	Parakeets	25	20	30	25	20	50

SI No	Name of Livestock	Thina (g)	Rice cooked (g)	Cucumber (g)	Spinache (g)	Green gram (g)	Egg (No.)	Caged birds Mineral Mixture (g)
1	Black Swan	20	40	110	40	40	half	55 g / Kg of feed.
2	Crusted duck	20	40	110	40	40	half	
3	Lesser Whistling teal	20	40	110	40	40	half	

HERBIVORES

SI No.	Name of Livestock	Guava (g)	Grapes (g)	Coconut (g)	Mango/Apple/Pineapple (g)	Bread (g)	Orange (g)	Papaya (g)	Water Melon (g)	Cowpea (g)
1	Giant Squirrel	60	65	20	40	40	40	40	50	51

SI No.	Name of Livestock	Banana (g)	Grapes (g)
1	Toddy Cat	250	150

SI No	Name of Livestock	Jaggery (g)	Bread (g)	Grapes (g)	Honey (g)	Cucumber (g)	Milk (g)	Orange (g)	Water Melon (g)	Ground Nut WH & WOH (g)	Egg boiled (no.)
1	Sloth bear	45	300	400	100	1,000	1	200	1,250	200 WH 35 WOH	1
2	Himalayan Black Bear	45	300	400	100	1,000	1	200	1,500	200 WH 35 WOH	2

Sl No	Name of Livestock	Cattle feed (Kg)	Cucumber (Kg)	Water Melon (Kg)	Banana (Kg)	Carrot (Kg)	Ragi (g)	Wheat bran (Kg)	Rice (Kg)	Grass (Kg)	Fodder (Kg)	Guinea grass (Kg)	Onion (g)	Cowpea (Kg)	Mineral Mixture	Salt	Asafoetida
1	Rhino	4	2	3	2	5	250	4	1	20	30	15	800	4.5	2%	1%	200 gms per month
2	Hippo							2.5	1	50	2						

Sl. No.	Name of Livestock	Pineapple (g)	Tapioca (g)	Water Melon (g)	Bread (g)	Plantain (g)	Grapes (g)
1	Porcupine	80	300	500	45	600	150

Sl. No	Name of Livestock	Grass (Kg)	Fodder (Kg.)	Cattle feed (Kg)	Bengal gram (g)	Green gram (g)	Cotton seed (g)	Herbivore Mineral Mixture	Salt
1	Spotted deer	1	4	1	60	60	60	2% of concentrate	1% of concentrate
2	Hog deer	1	3	1	60	60	60		
3	Sambar deer	1.5	7	1.5	80	80	80		
4	Barking deer	1	2	0.5	40	50	40		
5	Black buck	1	2	1	50	50	50		
6	Nilgai	7	8	3	0.5	0.5	0.5		
7	Cape buffalo	10	15	4	0.5	0.5	0.5		
8	Gaur	12.5	12.5	4	0.5	0.5	0.5		

Sl. No	Name of Livestock	Guinea grass (g)	Fodder (g)	Cattle feed (g)	Wheat bran (g)	Cucumber (g)	Banana (g)
1	Barasingha	1,000	500	250	1,000	700	500

Sl. No.	Name of Livestock	Guinea grass (g)	Karuka grass (g)	Plantain (g)	Wheat bran (g)	Carrot (g)	Equimine Mineral Mixture (g)	Salt (g)
1	Zebra	5	5	500	1	1	150 g daily for each inmates	2% of concentrate

Sl. No.	Name of Livestock	Fresh fish (Kg)
1	Otter	3

PRIMATES

Sl. No	Name of Livestock	Banana / Plantain	Bread	Guava/ Tomato/ Orange	Coconut	Mango/ Apple/ Water Melon	Grapes	Groundnut WH	Pineapple /Papaya	Egg boiled
1	Lion Tailed Macaque	150 gm each	30 gm	50 gm	40 gm	120 gm	150 gm	40 gm	40 gm	1
2	Nilgiri Langur	151 gm each	30 gm	50 gm	40 gm	121 gm	151 gm	40 gm	40 gm	1
3	Common Langur	152 gm each	40 gm	50 gm	40 gm	122 gm	152 gm	40 gm	40 gm	1
4	Rhesus Macaque	153 gm each	40 gm	50 gm	40 gm	123 gm	153 gm	40 gm	40 gm	1

Sl. No.	Name of Livestock	Chicken live/Rabbit	Mice	Mice/Chicks	Egg/Mice	Mice	Rat snake	Lizard	Fish
1	Python	Weekly 1							
2	King cobra						Weekly 1		
3	Cobra			Weekly 1					
4	Anaconda	Once in 3 days							
5	Sandboa red				Weekly 1				
6	Common sandboa					Weekly 1			
7	Viper					Weekly 1			
8	Krait		Weekly 1						
9	Rat snake			Weekly 1					
10	Trinket Snake					Weekly 1			
11	Checked keelback Water Snake								Daily 20 g
12	Smooth Water Snake								
13	Ornate Flying Snake							Weekly 4	

Sl. No.	Name of Livestock	Fish	Meat
1	Gharial	1.100 Kg	
2	Spectacled Caiman	160 g	200 g weakly
3	Indian flapshell turtle	20 g	
4	Indian black turtle	20 g	
5	Red eared slider	20 g	

Sl. No.	Name of Livestock	Meat	Egg (Boiled)
1	Monitor Lizard/ Varanus	100 g	1
2	Crocodile Marsh (Mugger)	1.5 Kg weekly	200 g weakly

Sl. No.	Name of Livestock	Spinache (g)	Cabbage (g)	Banana (g)	Cactus (g)	Cucumber (g)	Carrot (g)	Vallipayar (g)	Apple (g)
1	Land Tortoise	80	80	80					
2	Star Tortoise	13	200 g weakly		13	13		26	
3	Iguana	30		30					30



13. Vaccination Schedule of animals

Sl. No.	Species	Disease vaccinated for	Name of the vaccine and dosage/quantity used	Periodicity	Remarks
1	Primates	Poliomyelitis	Modified Live Virus Vaccine	Annual	The periodicity and essentiality of vaccination of wild animals are only taken up based on epidemiological intelligence reports and prevalence of the diseases
2		Measles	Modified Live Virus Vaccine	Annual	
3		Mumps	Modified Live Virus Vaccine	Annual	
4		DPT/Tetanus	Killed/T oxoid	Annual	
5		Rabies		Annual	
6	Canidae	Canine Distemper	Modified Live Virus Vaccine	Annual	
7		Canine Adenovirus 2	Modified Live Virus Vaccine	Annual	
8		Canine Parvo virus	Killed	Annual	
9		Canine Parainfluenza	Modified Live Virus Vaccine	Annual	
10		Rabies	Killed	Annual	
11		Leptospira bacteria	Killed	Annual	
12	Felidae	Feline panleukopaenia	Killed	Annual	
13		Feline rhinotracheitis	Killed	Annual	
14		Feline Calciviruses	Killed	Annual	
15		Rabies	Killed	Annual	
16		Canine Distemper	Killed	Annual	

Sl. No.	Species	Disease vaccinated for	Name of the vaccine and dosage/quantity used	Periodicity	Remarks
17	Ursidae	Canine Adenovirus 2	Killed	Annual	Vaccination for avians especially New Castle Disease, Duck Plague Virus, Avian Influenza is taken up only after screening.
18		Leptospira bacterin	Killed	Annual	
19		Rabies	Killed	Annual	
20	Hyaenidae	Canine Distemper	Modified Live Virus Vaccine	Annual	
21		Feline panleukopaenia	Killed	Annual	
22	Artiodactyla	FMD	QAC Asia	Biannual	
23	Ruminantia	HS+BQ	Killed	Annual	
24	Equidae	Equine rhinopneumonitis	Killed	Every 4 months	
25	Perissodactyla	Leptospira bacteria	Killed	Annual	Chaemoprophylactic agents are delivered in control diseases like trypanosomiasis based on index case/lab findings.
26	Proboscidea	Tetanus	Toxoid	Biannual	
27		FMD	QAC Asia 1	Biannual	
28		Anthrax	Killed	Annual	



14. De-worming schedule of animals

Sl. No.	Species	Drug used	Month	Remarks
1	Primates	Broad spectrum anthelmintis	December	There is lot of resistance developing to anthelmintes due to regular deworming schedule. No new molecules are being discovered in this area. The present concept is to deworm only if indicated by laboratory tests.
2	Canidae		April, October	
3	Felidae		April, October	
4	Ursidae		May	
5	Artiodactyla		November, May	
6	Perissodactyla		April	
7	Proboscidea		November	
8	All Birds		September	
9	All reptiles		October	

15. Disinfection Schedule

Sl. No	Species	Type of enclosure	Disinfectant used and method	Frequency of disinfection	Remarks
1	Primates	Animal House	PP solution - Scrub	daily	PP - Potassium Permanganate QAC - Quarterly Ammonium Compounds
2		Foot bath	PP/QAC/Bleach	daily	
3	Canidae	Animal House	Bleach/QAC	Once in a week	
4		Foot bath	PP/QAC/Bleach	daily	
5	Felidae	Animal House	PP	daily	
6			Turmeric	Once in a month	
7			Bleach	Once in two months	
8		Enclosure	Fire - Diesel & Petrol	Once in five years	
9		Foot bath	PP/QAC/Bleach		
10	Ursidae	Animal House	PP	daily	
11		Foot bath	PP/QAC/Bleach	daily	
12		Enclosure	Salt/Bleach		
13	Hyaenidae	Animal House	PP	daily	
14			Bleach/QAC	Once in a month	
15		Enclosure	Salt/Bleach	Once in a month	
16	Artiodactyla	Animal House	QAC/ 3 % Sodium hypochlorate	Once in a week	
17		Foot bath	QAC/Bleach	daily	
18		Enclosure	Salt/Sodium hypochlorate	Rainy season/FMD	
19	Equidae/Perissodactyla	Animal House	QAC/Bleach	Once in a month	
20		Foot bath	Bleach/QAC	daily	
21		Enclosure	Bleach	Once in a year	
22	Proboscidea	Animal House	QAC/Bleach	Once in a month	
23		Foot bath	Bleach/QAC	daily	
24		Enclosure	Bleach	Once in a year	

16. Health Check up of employees for Zoonotic diseases

Health checkup for Zoo employees for zoonotic diseases was conducted on 28.11.2018

17. Development works carried out in the Zoo during the year



Construction of aquatic aviary



Construction of Aquarium

18. Visitor Amenities



Smart She Toilets



Toilets for differently abled visitors



Food court for visitors



Battery operated vehicle



Resting place for visitors





24 x 7 Surveillance



19. Educational and Awareness programmes during the year



World Tiger Day



20. Events and happenings



Birth of Striped Hyaena



Oriental Ibis hatchlings

22. Conservation Breeding Programme of the Zoo

Thiruvananthapuram Zoological Garden is a participant Zoo along with Arignar Anna Zoological Park, Vandallor, Chennai and Chamarajedra Zoological Garden, Mysore for the Conservation Breeding of Lion Tailed Macaques



06.04.

22. Annual Inventory of animals

Sl. No	SPECIES NAME	ANIMAL NAME	OPENING STOCK As on 01.04.2018				BIRTHS				ACQUISITIONS				DISPOSALS				DEATHS				CLOSING STOCK As on 31.03.2019			
			M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T				
Endangered Species (Schedule I and II)																										
1	Bird	Eagle White Bellied Sea	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
2	Bird	Peafowl	10	9	1	20	2	2	0	4	0	0	0	0	0	0	0	0	0	1	1	12				
3	Bird	Peafowl (White)	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0				
4	Bird	Pheasant Kalij	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1				
5	Bird	Vulture Black/Cinerosus	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1				
6	Bird	Vulture Himalayan Griffon	1	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0				
7	Bird	Vulture White Backed - Bengal	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
8	Mammal	Bear Himalayan Black	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1				
9	Mammal	Bear Sloth	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
10	Mammal	Black Buck (Krishna Mrig)	10	26	1	37	0	0	23	23	0	0	0	0	0	0	0	0	2	3	0	15				
11	Mammal	Black Buck (Albino)	1	4	0	5	2	0	0	1	0	0	0	0	0	0	0	0	0	0	1	3				
12	Mammal	Cat Jungle	3	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3				
13	Mammal	Civet Common Palm - Cat Toddy	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1				
14	Mammal	Civet - Small Indian	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1				
15	Mammal	Swamp Deer	8	12	3	23	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	9				
16	Mammal	Gaur (Indian Bison)	7	3	0	10	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	9				
17	Mammal	Hyena striped	1	1	3	5	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	1				
18	Mammal	Jackal	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1				
19	Mammal	Langur Common	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1				
20	Mammal	Langur Nilgiri	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1				

Sl.No.	SPECIES NAME	ANIMAL NAME	OPENING STOCK As on 01.04.2018							ACQUISITIONS							DISPOSALS							DEATHS							CLOSING STOCK As on 31.03.2019						
			M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T											
Endangered Species (Schedule I and II)																																					
21	Mammal	Leopard (Panther)	3	4	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	0	7							
22	Mammal	Macaque (Non-Tailed)	5	5	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	0	10							
23	Mammal	Macaque Rhesus	3	4	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	0	7								
24	Mammal	Otter Common	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3								
25	Mammal	Rhinoceros Indian One Horned	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1								
26	Mammal	Squirrel Giant Malabar / Indian	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3								
27	Mammal	Tiger Bengal	4	2	0	6	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5	2	0	7								
28	Mammal	Tiger Bengal (Albino)	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2								
29	Reptile	Cobra Indian	5	6	9	20	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	5	6	15	26								
30	Reptile	Cobra King	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1								
31	Reptile	Crocodile Long Snouted (Gharial)	2	4	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	0	6								
32	Reptile	Crocodile Marsh	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1								
33	Reptile	Monitor Lizar	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1								
34	Reptile	Python Indian - Rock	4	2	0	6	0	0	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	4	2	2	8								
35	Reptile	Python Regal/ Reticulated	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4								
36	Reptile	Snake Keelback Checked	0	1	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4							
37	Reptile	Snake Rat/ Dhaman	2	2	10	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	4	8								
38	Reptile	Tortoise (Indian Star)	0	0	28	28	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	16	16							
39	Reptile	Turtle Fresh Water/ Indian Soft Shelled	0	0	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4							
40	Reptile	Viper Russels	2	2	1	5	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	2	2	2	6								
			91	106	66	263	6	2	33	41	1	0	1	9	0	1	7	12	12	5	102	117	59	278													

Sl.No.	SPECIES NAME	ANIMAL NAME	OPENING STOCK As on 01.04.2018			BIRTHS			ACQUISITIONS			DISPOSALS			DEATHS			CLOSING STOCK As on 31.03.2019					
			M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	
SPECIES SCHEDULE III and IV)																							
41	Bird	Darter - Snake Bird	3	2	0	5	0	0	0	0	3	3	0	0	0	0	0	0	0	3	2	3	8
42	Bird	Heron Grey	2	2	0	4	0	0	2	2	0	3	0	0	0	0	0	0	0	2	2	5	9
43	Bird	Heron Night	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
44	Bird	Heron Pond	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
45	Bird	Heron Purple	1	2	1	4	0	0	0	0	0	0	0	0	1	0	0	1	0	1	1	0	2
46	Bird	Ibis White	10	8	7	25	0	0	7	7	1	0	0	0	0	0	0	0	0	10	8	15	33
47	Bird	Kite Brahminy	2	1	0	3	0	0	0	0	5	0	0	0	0	0	0	0	0	2	1	5	8
48	Bird	Kite Pariah/ Black Kite	2	3	2	7	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	2	7
49	Bird	Owl Barn	0	0	20	20	0	0	0	0	4	3	0	0	1	1	0	0	0	0	0	16	16
50	Bird	Owl Brown Fish	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
51	Bird	Owl Eagle Forest	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
52	Bird	Parakeet Alexandrine	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
53	Bird	Parakeet Rose Ring	26	20	68	114	5	4	2	11	0	0	0	0	0	0	0	0	0	31	24	70	125
54	Bird	Pelican Rosy/White	2	3	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	5
55	Bird	Pelican Spot Billed / Grey	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4
56	Bird	Purple Moorhen	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1
57	Bird	Stork Adjutant	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
58	Bird	Stork Painted	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
59	Bird	Teal Lesser Whistling	2	3	6	11	0	0	0	0	1	11	0	0	0	0	0	0	0	1	3	7	11
60	Mammal	Deer Barking (Kakar)	4	4	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	5
61	Mammal	Deer Hog	11	30	0	41	0	0	8	8	0	0	0	0	0	0	0	0	0	4	26	8	38
62	Mammal	Deer Sambar	33	104	0	137	0	0	0	0	0	0	0	0	0	0	0	0	0	29	101	0	130
63	Mammal	Deer Spotted	74	167	13	254	0	0	4	4	0	0	0	0	0	0	0	0	0	56	173	2	231

Sl.No.	SPECIES NAME	ANIMAL NAME	OPENING STOCK As on 01.04.2018				BIRTHS			ACQUISITIONS			DISPOSALS			DEATHS			CLOSING STOCK As on 31.03.2019								
			M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T					
SPECIES SCHEDULE III and IV)																											
64	Mammal	Lion Hybrid	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2				
65	Mammal	Nilgai - Blue Bull	2	8	0	10	4	0	0	4	0	0	0	0	0	0	0	0	1	0	0	5	8	13			
66	Mammal	Porcupine Indian	6	3	4	13	0	0	0	7	0	0	0	0	0	0	0	0	2	1	0	4	2	11	17		
67	Reptile	Krat Common Indian	1	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1		
68	Reptile	Sand Boa ommon	1	1	0	2	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	1	1	1	2	4	
69	Reptile	Sand Boa Red	0	0	8	8	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	7	7
70	Reptile	Snake Green Whip	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	
71	Reptile	Snake Ornate	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3	3	
72	Reptile	Snake Trinket	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1		
73	Reptile	Snake Water	1	2	0	3	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	1	2	1	4		
74	Reptile	Terrapin Red Eared	0	0	6	6	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	10	10	
75	Reptile	Tortoise	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	
76	Reptile	Turtle Pond	7	7	9	23	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	7	7	7	11	25	
			203	382	155	740	9	4	23	43	0	0	14	39	3	3	1	39	24	7	174	379	184	737			
Exotic Species																											
77	Bird	Amazon Blue Fronted	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2		
78	Bird	Cockatoo Salmon Crested	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2		
79	Bird	Cockatoo Palm	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1		
80	Bird	Cockatoo Sulphur Crested	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1		
81	Bird	Conure Sun	4	1	12	17	0	0	6	6	0	0	0	0	0	0	0	0	0	0	4	5	14	23			
82	Bird	Duck White Crested	2	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	2		
83	Bird	Emu	1	5	0	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	5	0	5		
84	Bird	Fowl Guinea Vulturine	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1		
85	Bird	Fowl Guinea	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	2		

Sl. No.	SPECIE S NAME	ANIMAL NAME	OPENING STOCK As on 01.04.2018				BIRTHS				ACQUISITIONS				DISPOSALS				DEATHS				CLOSING STOCK As on 31.03.2019					
			M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T		
SPECIES SCHEDULE III and IV)																												
86	Bird	Macaw Blue & Yellow	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
87	Bird	Macaw Green Winged	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4
88	Bird	Macaw Scarlet	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
89	Bird	Ostrich	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
90	Bird	Parakeet/Electus	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4
91	Bird	Parrots African Grey	3	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	0	5
92	Bird	Pheasant Buff Ring Necked	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
93	Bird	Pheasant Golden	3	2	0	5	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4
94	Bird	Pheasant Lady Amherst	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3
95	Bird	Pheasant Melanistic	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
96	Bird	Pheasant Ring Necked	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3
97	Bird	Pheasant Silver	3	3	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	0	5
98	Bird	Pheasant Yellow Golden	4	2	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
99	Bird	Pigeon Blue Crowned	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
100	Bird	Rhea Brown	14	10	0	24	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	11	0	24
101	Bird	Rhea White	9	8	0	17	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	7	8	1	16
102	Bird	Swan Black	2	2	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	4
103	Mammal	Buffalo Cape African	1	3	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	4
104	Mammal	Hippopotamus	2	7	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	0	9
105	Mammal	Sugar Glider	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
106	Reptile	Anaconda Green	1	6	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	0	7
107	Reptile	Carman Spectacled	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3
			70	71	14	155	0	2	7	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	70	16	148
Grand Total			374	565	236	1159	15	8	63	81	1	0	15	48	3	4	8	59	44	12	338	566	259	1163				

23. Mortality of animals

Sl. No.	Date	Name of Animal	Sex	Cause of Death
1	15.04.2018	Star Tortoise	F	Traumatic injury - infighting.
2	17.04.2018	Spotted Deer	M	Infighting - deep penetrating injury with the thorax.
3	17.04.2018	Star Tortoise	F	Urinary calculi
4	19.04.2018	Sambar Deer	M	Infighting - Traumatic injury
5	04.05.2018	Silver Pheasant	F	Peck injury to the head (Infighting)
6	08.05.2018	Black Swan (Cygnet)	M	Congenital malformation of leg.
7	11.05.2018	Golden Pheasant	F	Peck injury on the head & cerebral haemorrhage (Infighting)
8	13.05.2018	Hog Deer	M	Penetrating injury into the thorax (Infighting)
9	15.05.2018	Black buck	M	Fracture of hind limb (Infighting)
10	22.05.2018	Red Sand boa	F	Pneumonitis
11	29.05.2018	Sambar Deer	F	Old age - recumbent.
12	04.06.2018	Red Sand boa	F	Pneumonitis
13	07.06.2018	Ring Necked Pheasant	F	Traumatic shock
14	07.06.2018	Melanistic Pheasant	F	Septicaemia
15	09.06.2018	Lesser Whistling Teal	M	Infighting injuries
16	14.06.2018	Yellow Golden Pheasant	M	Multi organ failure and hypothermia (old age)
17	14.06.2018	Purple heron	F	Traumatic injury to chest
18	15.06.2018	Barking Deer	M	Abdominal displacement and shock
19	15.06.2018	Spotted Deer	F	Bronchio pneumonia
20	15.06.2018	Sambar Deer	F	Penetrating injury into the thorax (Infighting)
21	16.06.2018	Golden Pheasant	M	Head injury (Infighting)
22	16.06.2018	Yellow Golden Pheasant	M	Tumour growth
23	18.06.2018	Spotted Deer	F	Aspiration pneumonia
24	20.06.2018	Spotted Deer	M	Infighting injuries
25	22.06.2018	Spotted Deer	M	Infighting injuries
26	25.06.2018	Star Tortoise	M	Obstruction of urinary bladder with calculi
27	25.06.2018	Hog Deer	M	Infighting injuries
28	29.06.2018	Yellow Golden Pheasant	F	Traumatic injury to head (Infighting)
29	4.07.2018	Brown Rhea	M	Severe traumatic injury
30	4.07.2018	Spotted deer	F	Broncho pneumonia
31	6.07.2018	Hog Deer	F	Acute tympanitis- fallen to moat
32	6.07.2018	Hog Deer	F	Infighting
33	7.07.2018	Spotted deer	M	Suppurative pneumonia
34	7.07.2018	Spotted deer	M	Infighting -fallen to moat
35	9.07.2018	Alexandrine parakeet	M	Acute haemorrhagic enteritis
36	11.07.2018	Giant squirrel	M	Cardiac failure
37	13.07.2018	Star tortoise	M	Pneumonitis
38	14.07.2018	Spotted deer	M	Infighting, Prolapse of intestine
39	16.07.2018	Red Sand boa	F	Pneumonitis

Sl. No.	Date	Name of Animal	Sex	Cause of Death
40	17.07.2018	Peafowl white	M	Peracute bacteraemia(septicaemia)
41	19.07.2018	Barking deer	M	Large infected tumour in the head
42	23.07.2018	Porcupine	F	Infighting (eaten partly by others)
43	24.07.2018	Spotted deer	F	Peritonitis from deep crow pecked wound
44	24.07.2018	Spotted deer	M	Infighting
45	25.07.2018	Pea fowl	F	Traumatic shock
46	27.07.2018	Star tortoise	M	Urolithiasis
47	28.07.2018	Swamp Deer	F	Infighting (penetrating wound into the thorax
48	1.08.2018	Black buck	M	Infighting
49	1.08.2018	Hog deer	M	Infighting
50	1.08.2018	Star tortoise	F	Rupture of urinary bladder and intestine
51	2.08.2018	Rhea White	M	Traumatic ventriculitis
52	5.08.2018	Spotted deer	M	Infighting
53	9.08.2018	Spotted deer	M	Suppurative arthritis and pneumonia
54	10.08.2018	Porcupine	M	Infighting (Carnibalism)
55	16.08.2018	Rhea White	M	Impaction
56	19.08.2018	Spotted deer	M	Chronic rectal prolapse and toxemia
57	19.08.2018	Spotted deer	F	Deepcrow pecked wound and arthritis
58	20.08.2018	Star tortoise	F	Tortion of urinary bladder
59	23.08.2018	Peafowl White	M	Trauma to head and leg
60	24.08.2018	Hog deer	M	Trauma due to infighting
61	26.08.2018	Spotted deer	F	Volvulus and rupture of intestine
62	26.08.2018	Spotted deer	F	Post parturient prolapse of uterus & haemorrhage
63	29.08.2018	Spotted deer	M	Infighting
64	12.09.2018	Hog deer	M	Infighting
65	13.09.2018	Hog deer	M	Infighting
66	17.09.2018	Livingstone Turaco	U	Head injury
67	29.09.2018	Spotted deer	M	Infighting
68	30.09.2018	Hog deer	M	Infighting
69	03.10.2018	Star tortoise	M	Urolithiasis,
70	10.10.2018	Crested duck	F	Multi organ failure,arthritis(old age)
71	12.10.2018	Sambar deer	F	Multi organ failure,arthritis,old age ,blind
72	13.10.2018	Violet Turaco	F	Head injury, cerebrospinal haemorrhage
73	15.10.2018	Spotted deer	F	Suppurative arthritis and pneumonitis
74	20.10.2018	Emu	M	Head injury and haemorrhage in the brain & thorax
75	21.10.2018	Porcupine	M	Cannibalism
76	31.10.2018	Spotted deer	M	Infighting, Penetrating wound in thorax
77	06.11.2018	Spotted deer	M	Acute colibacillosis
78	13.11.2018	Peacock	M	Old age, Multiorgan failure
79	15.11.2018	Spotted deer	M	Crowpecking wound, infected deep sinus tract and peritonitis.
80	15.11.2018	Hog deer	F	Infighting
81	15.11.2018	Barking deer	F	Severe cerebral haemorrhage due to trauma.
82	15.11.2018	Spotted deer	M	Crowpecking wound, deep sinus tract & septicaemia.
83	06.12.2018	Barn owl	M	Infighting, head injury
84	07.12.2018	Barn owl	F	Traumatic injury and fracture.
85	19.12.2018	Star tortoise	M	Urolithiasis and Pulmonary oedema.

Sl. No.	Date	Name of Animal	Sex	Cause of Death
86	28.12.2018	Yellow Golden Pheasant	F	Infighting, haemorrhage in brain.
87	02.01.2019	Black buck	F	Congenital deformity of hoof (Recumbency and Toxaemia)
88	05.01.2019	Black buck	F	Herniation of Intsetine & shock through tear in the muscle.
89	07.01.2019	Spotted Deer	M	Infighting (Traumatic pneumonitis)
90	08.01.2019	Spotted Deer	M	Infighting
91	14.01.2019	Hog Deer	F	Extensive injury on the head
92	20.01.2019	Blue bull	M	Old Age (Multi organ failure)
93	22.01.2019	Spotted Deer	F	Cancer of liver and kidney (Old age)
94	24.01.2019	Star Tortoise	F	Calculi in urinary bladder and obstruction
95	25.01.2019	Star Tortoise	M	Calculi in urinary bladder and obstruction
96	26.01.2019	Sambar Deer	M	Infighting (Severe traumatic injuries)
97	26.01.2019	Darter	F	Strangulation (in pond Vegetation)
98	28.01.2019	Common Sand boa	F	Pneumonitis
99	05.02.2019	Black buck	F	Tortion of uterus. (Acute blood and shock)
100	05.02.2019	Star Tortoise	F	Calculi in urinary bladder and obstruction
101	11.02.2019	Star Tortoise	M	Traumatic injury (Calculi in Urinary bladder)
102	22.02.2019	Nilgai	F	Tetanus
103	06.03.2019	Sambar Deer	M	Infighting and Rupture of Intestine
104	07.03.2019	Kenya Crested Guinea Fowl	F	Infighting, Head Injury and Haemorrhage in brain.
105	15.03.2019	Sambar Deer	M	Infighting, Suppurative pneumonitis.

24. Compliance with conditions stipulated by the Central Zoo Authority

S. No	Rule 10. Norm No.	Conditions stipulated	Time period to comply	Status with regard to the conditions.
1 General Requirements				
1	1 (7)	The vermi- compost area in front of the rhino exhibit should be kept clean and hygienic	With immediate effect	Completed
2. Administrative and Staffing pattern				
2	2 (2)	At present, the zoo has one full time Veterinary Officer working on deputation from State Animal Husbandry Department. It is recommended that the zoo authorities should appoint one fulltime Veterinary Officer with the zoo.	Six months	Since it requires sanction from Government, the matter has been reported to Government.
3. Development and Planning				
3	3 (3)	The Zoo should implement the Disaster Management Plan, as approved by the Central Zoo Authority in the Master Plan of the zoo by carrying out mock drill, awareness programmes for staff.	Six months	Implemented
4. Animal housing, display of animals and animal enclosures.				
4	4 (1)	Plant tall trees along the backside of the enclosure for Sambar so as to camouflage residential houses in the backside.	With immediate effect	Planted
5	4 (1)	All metal rods provided in the aviaries should be replaced by wooden perches. The scooter tyres hang inside the aviary for Pariah kite should be removed.	With immediate effect	Work completed
6	4 (1)	The rear wall of the MGS (toiled block of Museum) visible from the visitor's pathway while viewing the Lion tailed macaque should be appropriately camouflaged.	Two months	Work completed

S. No	Rule 10. Norm No.	Conditions stipulated	Time period to comply	Status with regard to the conditions.
7	4(2), 4(3) & 4(9)	The One horned rhinoceros enclosure dominated by Oak vegetation should be replaced with tall grasses with protection, so as to provide the naturalistic look of the exhibit. The Hedge used as a barrier to be continued all around. Gate from the moat to bring back the Rhino to its houses should be repaired.	Two months	Completed
8	4(3)	The boundary wall towards Nandancod Road near aviaries should be provided with green buffer to reduce vehicular sound.	Six months	Completed
9	4(3)	Leopard and Tiger houses are accessible to the visitors. The same should be provided appropriate screening. The paddock area of the enclosure for Tiger should be increased and made as prescribed by the Central Zoo Authority.	Three months	Work completed
10	4(3), 4(4), 4(5) & 4(6)	The paddock area of the Lion Tailed Macaque (LTM) enclosure should be enlarged and same should be enriched. The night houses of enclosure for Lion Tailed mkacaque should be disinfected every every 15 days by using Dettol/ Savlon. The existing metal structures in the paddock should be replaced by wooden artefacts.	With immediate effect	Completed
11	4(5)	The enclosure for White tiger doesn't meet the standards and norms as prescribed by the CZA. The zoo should submit the design of the enclosure as per the CZA norms.	With immediate effect	Will be complied in future
12	4(6)	All the aviaries should be provided with nesting material along with enrichment.	With immediate effect	Work completed
13	4(6)	The Common Krait enclosure should be provided with wooden log.	With immediate effect	Work completed

S. No	Rule 10. Norm No.	Conditions stipulated	Time period to comply	Status with regard to the conditions.
14	4(7)	There should be screening between animal houses and paddock of the Malabar Giant Squirrel. The service gate presently located towards visitor side should be shifted to an appropriate place.	Three months	Work completed
15	4(7)	The zoo should provide adequate buffer between the isolation cum quarantine area and proposed future exhibit for Porcupine.	Three months	Completed
16	4(10)	All the signage in the zoo should be improved. Besides, size of the signage should be increased appropriately.	With immediate effect	Will be complied in future
5. Upkeep and Healthcare of animals.				
17	5(10)	Individual Animal History Card should be maintained for all the animals specified in Schedule I and II of the Wildlife (Protection) Act, 1972.	With immediate effect	Work completed
6. Veterinary and infrastructure facilities.				
18	6(5)	The zoo should appoint veterinary support staff to assist the Veterinary Officer at the zoo.	Six months	Presently Lab Assistant and Live Stock Inspector assist the Veterinary Surgeon
7. Post-mortem and disposal of carcasses of animals.				
19	7(4)	The zoo should have an incinerator of appropriate size to burn the carcass of animals specified in Schedule I and II of the Wildlife (Protection) Act, 1972, particularly large carnivores.	Three months	Will be complied in future
8. Acquisition and breeding of animals.				
20	9(9)	The zoo is housing Sambar deers beyond the carrying capacity. The zoo should control its population	Three months	Population control measures adopted
21	9(9)	The zoo has Indian black turtles beyond its carrying capacity. The excess number should be shifted to a recognized zoo.	Three months	Excess black turtles shifted to the pond in the compound

25. Free living wild animals within the Zoo premises

