

STATE MUSEUM AND ZOO

DEPARTMENT OF MUSEUMS AND ZOOS

GOVERNMENT OF KERALA



ANNUAL REPORT

2019-2020

CONTENTS

S.No	Section	Page Number
1.	Report of the Officer-in-charge	3
2.	History of the Zoo	3
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	9
10.	Zoo Advisory Committee	9
11.	Health Advisory Committee	9
12.	Statement of income and expenditure of the Zoo	9
13.	Daily feed Schedule of animals	10
14.	Vaccination Schedule of animals	13
15.	De-worming Schedule of animals	13

S.No	Section	Page Number
16.	Disinfection Schedule	13
17.	Health Check-up of employees for zoonotic diseases	14
18.	Development Works carried out in the zoo during the year	14
19.	Education and Awareness programmes during the year	14
20.	Important Events and happenings in the zoo	14
21.	Seasonal special arrangements for upkeep of animals	17
22.	Research Work carried out and publications	17
23.	Conservation Breeding Programme of the Zoo	17
24.	Animal acquisition / transfer / exchange during the year	17
25.	Rescue and Rehabilitation of the wild animals carried out by the zoo	18
26.	Annual Inventory of animals	18
27.	Mortality of animals.	18
28.	Status of the Compliance with conditions stipulated by the Central Zoo Authority	20
29.	List of free living wild animals within the zoo premises	23

1-5) HISTORY, VISION, MISSION& OBJECTIVE

The State Museum and Zoo in Thrissur is coming under the Department of Museums and Zoos, Government of Kerala. The zoo is situated in the heart of Thrissur city, which is known as the cultural capital of Kerala. The compound extends in 5.6 hectares which includes Zoological and Botanical gardens, Art Museum, Multi-purpose Museum and 3D Theatre. It is a major attraction for the visitors from different parts of the country.

The Diwan Peshkar of Cochin Province Mr. Sankarayya was the master brain behind establishing a park in 1885 called Viyyoor Park at Viyyoor, where the Central Prison is presently located. The park was closed in 1898 due to scarcity of visitors. The park was shifted and renamed as "Cochin State Museum" in 1912 by the acting Diwan K. Narayana Marar to an Annex of Krishna Vilasam Palace, Ernakulam. The museum was shifted in the same year to Chembukkavu where it still exists. A full time archaeologist, L. K. Anantha Krishna Ayyar, was appointed to look after the Museum, in the year 1913. The Zoo was also established in the year 1913 by the King of Cochin and he donated different types of animals from Thrippunithura Palace.

The Officer-in-charge of the State Museum and Zoo, Thrissur is the Superintendent, who is working under the directions of the Head of the Department (Director). All days except Mondays and "Thiruvonam" day are working days for the zoo. The administrative office is situated near the Multi-purpose Museum building. The office is open from Monday to Saturday (closed on Sundays and Public holidays), but one or two of the office staff will be present in holidays too. The Senior Superintendent, who works under the Superintendent of State Museum and Zoo, manages the office.

Major portion of the campus is occupied by the zoo. Day to day affairs of the zoo is handled by the Curator, who works under the Superintendent of State Museum and Zoo. Extending over an area of 13.5 acres, the Zoological Garden is home to 59 species of Mammals, Reptiles and Birds. Tiger, Leopard, Lion, King cobra, spotted deer, Hippopotamus and Pelican are some of our main attractions. All the animals are kept healthy and attractive.

There is a Veterinary Hospital inside the zoo campus. The service of a full time Veterinary Surgeon is available here. Dr. Binoy C. Babu is working in that post during the year. Facilities in zoo hospital include incubator, tranquilizer, microscope, microchip, etc.

A botanical garden is maintained inside the zoo campus. It includes many medicinal plants and a butterfly garden. The Botanical garden has a very rich collection of rare and old trees more than 140 in number. It is proved to be helpful for research scholars and they make use of the garden for specimen collection as well.

Wildlife conservation with special emphasis on endemic and endangered species in the Western Ghats, education, nature awareness and wildlife research, creating awareness on our cultural heritage are the main objectives.

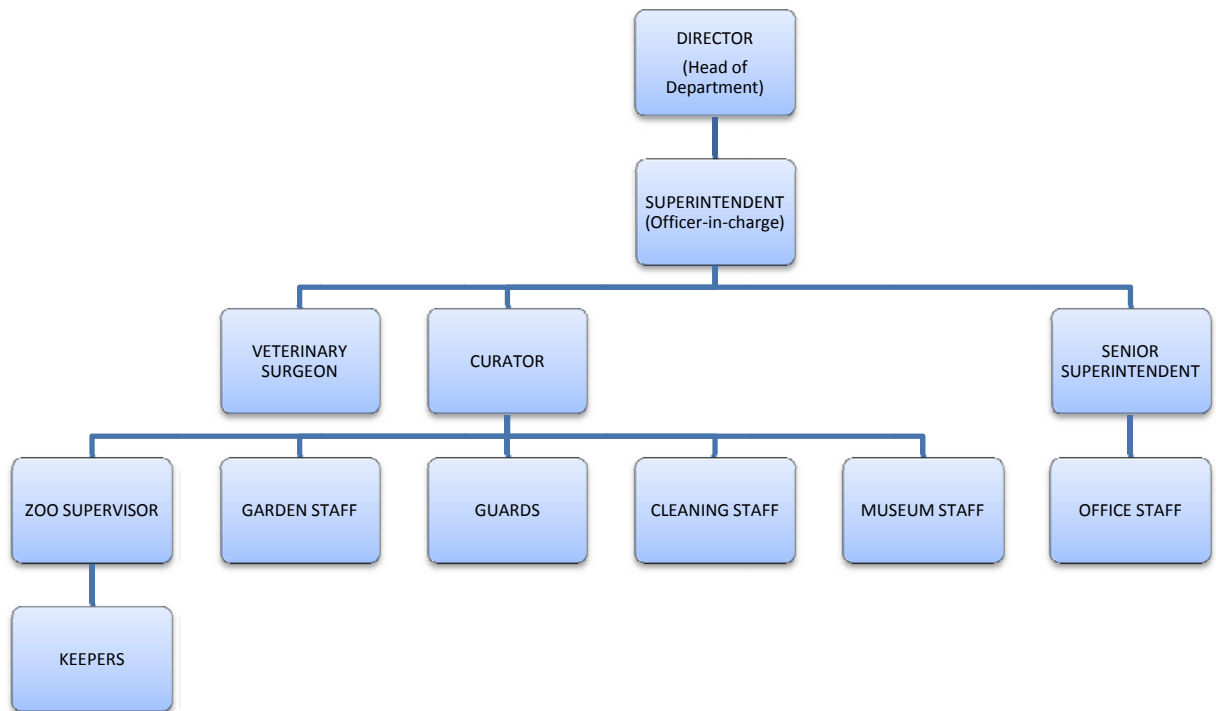
We have a well maintained auditorium which is used for education purposes and functions. Classes and audio-visual presentations on wildlife and environmental protection are arranged regularly for students.

6) About us

S.No.	Particulars	Information
Basic Information about the Zoo		
1	Name of the Zoo	State Museum and Zoo
2	Year of Establishment	1885
3	Address of the Zoo	State Museum and Zoo, Chembukavu, Thrissur, Kerala- 680020.
4	State	Kerala
5	Telephone Number	0487-2333056
6	Fax Number	-
7	E-mail address	statemuseumandzoo@gmail.com
8	Website	www.museumandzoo.kerala.gov.in
9	Distance from nearest	Airport: 52 kms from Cochin International Airport
		Railway Station: 2.5 kms from railway station
		Bus Stand: 2.5 kms from Sakthan / KSRTC Bus stand
10	Recognition Valid up to (Date)	23-01-2018
11	Category of zoo	Medium
12	Area (in Hectares)	5.6 hectres
13	Number of Visitors (Financial Year)	Adult : 5,89,433
		Children : 2,28,417
		Total Indian : 8,17,850
		Total Foreigners :
		Total Visitors: 8,17,850
14	Visitors' Facilities Available in Zoo	Ticket counter, Information counter/ Publication sales counter, Cloak room, Drinking water points, Rain shelters/ resting place, First-aid box, Benches, Canteen, Food shelter, Toilets, e-toilets, Wheelchairs, Ramps
15	Weekly Closure Day of the Zoo	Monday
Management Personnel of the zoo		
16	Name with designation of the Officer in-charge	Rajesh V, Superintendent
	Name of the Veterinary Officer	Dr. Binoy C. Babu
	Name of the Curator	Manjusha S
	Name of the Biologist	Nil
	Name of the Education Officer	Nil

S.No.	Particulars	Information
	Name of the Compounder/ Lab Assistant	Temporary staff
Owner / Operator of the Zoo		
17	Name of the Operator	Director of Museums and Zoos
18	Address of the Operator	Department of Museums and Zoos, Thiruvananthapuram, Kerala- 695033.
19	Contact details/Phone number of Operator	0471-2316275
20	E-mail address of Operator	museumzoo@gmail.com

7) Organizational Chart



8) Human Resources

Sl.No.	Designation	Number of Sanctioned Posts	Names of the incumbent
1	Superintendent	1	Rajesh V
2	Curator	1	Manjusha S
3	Veterinary Surgeon	1	Dr. Binoy C. Babu
4	Attender	2	Aboobaker A K Jayakumar I S
5	Zoo Supervisor	1	Thulaseedharan C (Apr-Aug) Saji B (Sep-Dec) Vincent A (from Jan 2020)
6	Keeper	11	Unnikrishnan T M Deepu R Bijoy T N Sivadasan V K Vipin K V Ajeesh C R Joffy Jose Riju S Temporary staff- 3
7	Part Time Keeper	1	Limson M V
8	Part Time Watcher	1	Unnikrishnan A K
9	Gardeners	9	Murukesan V P Sathyan A K Kochumon C K Madhu M K Mohan K Leena C KochuThresiaJessy A J Anitha V R Temporary staff- 1
10	Sweepers	6	Pushpa T K Thankamony K A Gopalakrishnan Nair V Padmini P Temporary staff- 2
11	Sweeper/Scavenger	1	Rema K
12	Guards	9	Sunilkumar T P Ajith P B Karthikeyan T V Shaji P K Nikhil Rajagopalan Dibin D S Rahul S P

Sl.No.	Designation	Number of Sanctioned Posts	Names of the incumbent
			Bineeshkumar M B
			Abhilash S
		44	
OFFICE			
1	Senior Superintendent	1	Sumam A R
2	Head Clerk	1	Sabu K C
3	Senior Clerk	1	Vacant
4	Clerk	2	Krishnadas T
			Shinu S D
5	Typist	1	Lalitha N S
6	Office Attendant	2	Prasobh K V
			Balan E M
		8	

9) Capacity Building of zoo personnel

Sl.No.	Name and designation of the zoo personnel	Period of Training	Name of the Institution where the Training attended
1	Manjusha S, Curator	May 2019	IMG, Thiruvananthapuram
2	Prasobh K V, Office Attendant	May 2019	IMG, Thiruvananthapuram
3	Thulaseedharan C, Zoo Supervisor	June-July 2019	Zoos in Northern states
4	Unnikrishnan T M, Keeper	June-July 2019	Zoos in Northern states
5	Bijoy T N, Keeper	June-July 2019	Zoos in Northern states
6	Ajeesh C R, Keeper	June-July 2019	Zoos in Northern states
7	Sabeer A A, Keeper	June-July 2019	Zoos in Northern states
8	Sumam A R, Senior Superintendent	July 2019	IMG, Thiruvananthapuram
9	Manjusha S, Curator	July 2019	IMG, Thiruvananthapuram
10	Ajith P B, Guard	July 2019	IMG, Thiruvananthapuram
11	Nazer K K, Gallery Attendant	July 2019	IMG, Thiruvananthapuram
12	Kochumon C K, Gardener	July 2019	IMG, Thiruvananthapuram
13	Madhu M K, Gardener	July 2019	IMG, Thiruvananthapuram
14	Mohanan K, Gardener	July 2019	IMG, Thiruvananthapuram
15	Sabu K C, Head Clerk	October 2019	IMG, Ernakulam
16	Krishnadas T, Clerk	December 2019	District Collectorate, Thrissur
17	Lalitha N S, Upper Division Typist	December 2019	District Collectorate, Thrissur

10) Zoo Advisory Committee: Nil

11) Health Advisory Committee:

A health advisory committee was constituted with Chief Wildlife Warden, Zoo Veterinary Surgeons, Forest Veterinary officers as members.

12) Statement of income and expenditure of the Zoo

The total revenue through the ticket collection in the year 2019-2020 was ₹1,49,68,269. The revenue is used to remit to the Government account the very next day of the collection. Funds will be allotted to the institution from the Directorate of Museums and Zoos for meeting the expenditure. Total expenditure in the last year was ₹4,02,15,598.

13) Daily Feed Schedule of Animals:

	item	ration in kg
1	Lion	
	meat (beef/chicken)	7
2	Tiger	
	meat (beef/chicken)	7
3	leopard	
	meat (beef/chicken)	3
4	jackal	
	meat (beef/chicken)	0.5
5	jungle cat	
	meat (beef/chicken)	0.3
6	toddy cat	
	meat (beef/chicken)	0.3
7	barn owl	
	meat (beef/chicken)	0.1
8	mottled wood owl	
	meat (beef/chicken)	0.2
9	crocodile	
	meat (beef/chicken)	0.5
10	gharial	
	fish	0.9
11	white stork	
	fish	0.2
12	painted stork	
	fish	0.2
13	white necked stork	
	fish	0.15
14	brown fish owl	
	fish	0.1
15	kites	
	fish	0.2
16	rosy pelican	
	fish	0.2
17	tortoises	
	fish	0.02
18	cattle egret	
	fish	0.05
19	little cormorant	
	fish	0.05
20	night heron	
	fish	0.05
21	purple heron	

	item	ration in kg
	fish	0.1
22	lesser whistling teal	
	fish	0.01
	poultry feed	0.1
23	hippopotamus	
	wheat bran	4
	bread & rice	2
	plantain & banana	2
	cheera& cabbage	0.5
	green grass	20
24	bonnet macaques	
	bread & rice	0.1
	plantain & banana	0.2
	cheera& cabbage	0.07
	tap,mel,cuc,car	0.07
	milk	0.06
25	rhesus macaque	
	bread & rice	0.1
	plantain & banana	0.2
	cheera& cabbage	0.07
	tap,mel,cuc,car	0.07
	milk	0.06
26	lion tailed macaque	
	plantain & banana	0.2
	cheera& cabbage	0.07
	tap,mel,cuc,car	0.07
	peanut	0.02
	ground nut	0.02
	badam	0.02
	cashew nut	0.02
	grapes	0.05
27	giant squirrel	
	plantain & banana	0.01
	cheera& cabbage	0.01
	tap,mel,cuc,car	0.01
	peanut	0.01
	ground nut	0.01
	badam	0.02
	cashew nut	0.02
	grapes	0.03
28	midhun	

	item	ration in kg
	cattle feed	5
	cotton seed	0.5
	gr.gm,bl.gm,bg.gm,hr.gm	1.5
	green grass	20
	green leaves	20
29	sambar deer	
	cattle feed	0.5
	cotton seed	0.08
	gr.gm,bl.gm,bg.gm,hr.gm	0.03
	green grass	1.4
	green leaves	2.5
30	spotted deer	
	cattle feed	0.5
	cotton seed	0.06
	gr.gm,bl.gm,bg.gm,hr.gm	0.03
	green grass	1.2
	green leaves	1.6
31	hog deer	
	cotton seed	0.5
	gr.gm,bl.gm,bg.gm,hr.gm	0.03
	green grass	1
	green leaves	1.4
32	porcupine	
	tap,mel,cuc,car	0.5
	plantain & banana	0.1
	cheera& cabbage	0.02
	gr.gm,bl.gm,bg.gm,hr.gm	0.01
	green grass	0.04
33	emu	2
	poultry feed	1
	cheera& cabbage	0.3
34	peafowl	
	poultry feed	0.2
	cheera& cabbage	0.01
	gr.gm,bl.gm,bg.gm,hr.gm	0.01
	coconut	0.01
	rice with husk	0.01
	wheat	0.01
	spring onion	0.01
	green grass	0.02
35	silver pheasant	
	poultry feed	0.05
	cheera& cabbage	0.01

	item	ration in kg
	gr.gm,bl.gm,bg.gm,hr.gm	0.01
	coconut	0.01
	rice with husk	0.01
	wheat	0.01
	spring onion	0.01
	maize	0.01
	grapes	0.02
	green grass	0.02
36	rose ringed parakeet	
	gr.gm,bl.gr	0.02
	plantain & banana	0.02
	bread & rice	0.02
	grapes	0.01
	ragi	0.01
	badam	0.01
	cashew nut	0.01
37	alexandrine parakeet	
	gr.gm,bl.gr	0.02
	plantain & banana	0.02
	bread & rice	0.02
	grapes	0.01
	ragi	0.01
	badam	0.01
	cashew nut	0.01
38	african grey parrot	
	gr.gm,bl.gr	0.02
	plantain & banana	0.02
	bread & rice	0.02
	grapes	0.01
	ragi	0.01
	badam	0.01
	cashew nut	0.01
39	monitor lizard	
	fish/meat	0.1
40	southern green calotes	
	grass hopper	15 /day
41	king cobra	
	rat snake	1 in 2 week
42	python	
	broiler chicken	1 in 2 week
43	cobra	
	chicks	3/week
44	rat snake	

	item	ration in kg
	chicks	3/week
45	russels viper	
	albino rat	2/week
46	common sand boa	
	albino rat	2/week
47	trinket snake	
	albino rat	2/week
46	green pit viper	
	albino rat	2/week

	item	ration in kg
47	green whip snake	
	grass hopper	10 in alt days
	lizard	2/week
48	common krait	
	lizard	1/day
49	bronze back tree snake	
	lizard	2/day
50	chekered keel back	
	small fish	6/week

gr.gm = green gram

bl.gm = black gram

bg.gm = bengal gram

hr.gm = horse gram

tap = tapioca

mel = melon

cuc = cucumber

car = carrot

Monday fasting for carnivorous animals

14) Vaccination Schedule of Animals:

Attached as Annexure- 2

15) De-worming Schedule of Animals:

DEWORMING SCHEDULE			
Si.no	Animal group	Frequency	Month
1	Primates	Every 6 months	January, July
2	Canines	Every 3 months	March, June, September, December
3	Felines	Every 6 months	March, September
4	Deer & Antelopes	Every 6 months	February, August
5	Reptiles	Every 6 months	February, August
6	Birds	Every 6 months	May, November

NB :- Apart from above schedule faecal sample is checked routinely and deworming is done if proved positive for any parasitic ova

16) Disinfection Schedule:

DISINFECTION SCHEDULE

Sl.no	Species	Type of enclosure	Disinfectants used and methods	Frequency of disinfection
1	Pantheratigris	Concrete pen	10 % Diluted chlorhexidine	Daily
2	Pantheraleo	Concrete pen	10 % Diluted chlorhexidine	Daily
3	Pantherapardus	Concrete pen	10 % Diluted chlorhexidine	Daily
4	Felischas	Concrete pen	10 % Diluted chlorhexidine	Daily
5	Canisaureus	Concrete pen	10 % Diluted	Daily

Sl.no	Species	Type of enclosure	Disinfectants used and methods	Frequency of disinfection
			chlorhexidine	
6	Macacamullata	Concrete pen	Bleaching powder	Weekly once
7	Macaca radiate	Concrete pen	Bleaching powder	Weekly once
8	Macacasilenus	Concrete pen	Bleaching powder	Weekly once
9	Rusa unicolor	Concrete pen Open paddock	Bleaching powder Lime	Weekly once
10	Axis axis	Concrete pen Open paddock	Bleaching powder Lime	Weekly once
11	Axis porcinus	Concrete pen Open paddock	Bleaching powder Lime	Weekly once
12	Hippopotamus amphibious	Concrete pen Open paddock	Bleaching powder Lime	Weekly once
13	Mithun	Concrete pen Open paddock	Bleaching powder Lime	Weekly once
14	Rhea Americana	Concrete pen Open paddock	Bleaching powder Lime	Weekly once
15	Struthiocamellus	Concrete pen Open paddock	Bleaching powder Lime	Weekly once
16	Dromaiusnavaehollandiae	Concrete pen Open paddock	Bleaching powder Lime	Weekly once
17	Water birds aviary	Concrete ponds	Bleaching powder	Weekly once
18	Gavialisgangeticus	Concrete ponds	Bleaching powder	Weekly once

17) Health Check-up of employees for zoonotic diseases:

Medical camp conducted in co-ordination with the District Government Hospital, Thrissur. In continuation to the camp, the hospital will arrange routine checkups in the hospital. Also planning to arrange more camps in future.

18) Development Works carried out in the zoo during the year

No major works sanctioned as zoo is to be relocated to Puthur. Construction of more ramps and railings has been done during the year. Maintenance work of some enclosures sanctioned and the works are going on. Enrichment works are being done on regular basis.

19-20) Education and Awareness programmes during the year

Documentary shows and awareness classes on wildlife has arranged for students regularly. Major activities in the year is as follows:

- Plants were planted at different parts of the compound during World Environment Day 2019. Banners were displayed and printed cards carrying the theme message were distributed among visitors.



- “Causes of Air Pollution”, “Effects of Air Pollution” were the subject of the awareness classes conducted for school students on 2019 June 27th. Presentations were done by Ms. Ramyakrishna K.K and Justi P.P respectively.



- Dr. Binoy C.Babu has done a awareness class on 30th June 2019 for school students. He explained the activities in a zoo, and the behaviour of animals to the students.



- An open quiz conducted on 13th July 2019 for the visitors in co-operation with the Zoology Department of Vimala College, Thrissur.



- In the awareness classes conducted on 16th July 2019 Ms.Jamsheela V and Ms.Mariya Joby presented the subjects “Importance of snakes” and “Identification of snakes” to the students.
- Wildlife Week celebrated from 2019 October 2nd to 8th. Different competitions, documentaries, classes, exhibition were conducted during the week. Celebrations started with the flashmob of students from Vimala College, Thrissur on October 2nd. After that there was an awareness class conducted at the auditorium. Dr Binoy C.Babu explained behaviour of animals in zoos to the students. A painting competition conducted after the class in which 90 students were participated in different categories. Essay writing competition conducted on 3rd October for school/college students. Quiz competition conducted in the afternoon session, for the zoo staff. Many students participated in the wildlife quiz competition conducted on 4th October. The quiz master was

Shri.M.I.Varghese, DFO(Rtd). An awareness class on Biodiversity was conducted on 5th October in which Shri Sandeep Das from KFRI done the presentation. Another class conducted on 6th October. Shri Ramdas Choondal explained the audience about the climatic changes and the need of environmental protection. An open quiz with air magic conducted on 8th October for the visitors. Quiz Master was Dr.Binoy C.Babu and the Majician was Shri. Sreekumar Kalathil.

- A study class arranged for the students from St.Thomas College, Thrissur on 14th December 2019. Dr Binoy C.Babu presented the class on animals in wild and zoos.



21) Seasonal special arrangements for upkeep of animals

Not Applicable as there are no variations in climatic conditions. Special arrangements will be done when animals shows symptoms of distress.

22) Research Work carried out and publications

Nil

23) Conservation Breeding Programme of the Zoo

Nil

24) Animal acquisition / transfer / exchange during the year

Nil

25) Rescue and Rehabilitation of wild animals carried out by the Zoo

A rescued tiger brought to the zoo on 24-04-2019 from Wayanad, Kerala and the details were informed in time.

26) Annual Inventory of Animals:

Attached as Annexure- 1

27) Mortality of animals:

NO	ANIMAL NAME	SCIENTIFIC NAME	SEX	DATE OF DEATH	CAUSE OF DEATH
1	Sambar deer	Rusa unicolor	M	13-04-2019	traumatic injury
2	Black buck	Antelope cervicapra	F	29-04-2019	Septicaemia
3	Spotted deer	Axis axis	F	01-05-19	Septicaemia
4	Bonnet macaque	Macaca radiata	F	18-05-19	Multi organ failure
5	Bonnet macaque	Macaca radiata	F	29-05-19	Senility
6	Bonnet macaque	Macaca radiata	F	20-06-2019	Multi organ failure
7	Cat snake	Boiga trigonata	U	20-06-2019	Hepatomegali
8	Russells viper	Vipera russelli	U	21-06-2019	Multi organ failure
9	Median egret	Andrea intermedia	U	28-06-2019	Catrrhal enteritis
10	Bonnet Macacque	Macaca radiata	M	01-07-2019	Multi organ failure
11	Bonnet Macacque	Macaca radiata	M	17-07-2019	Enteric infection
12	Hog deer	Axis porcinus	M	22-07-2019	Generalised septicaemia
13	Chukar partridge	Alectoris chukar	U	22-07-19	Egg bound
14	Lesser Whistling Teal	Dendrocygna javanica	U	25-07-19	Predatory attack
15	Bonnet Macacque	Macaca radiata	M	26-07-19	Chronic enteric infection
16	Bonnet Macacque	Macaca radiata	M	27-07-19	traumatic shock
17	Peacock	Pavo cristatus	M	30-07-19	traumatic shock
18	Lesser Whistling Teal	Dendrocygna javanica	U	31-07-19	Predatory attack
19	Hog deer	Axis porcinus	F	09-08-19	Senility
20	Spotted deer	Axis axis	M	12-08-19	Septicaemia
21	Bonnet macaque	Macaca radiata	M	17-08-19	Multi organ failure

22	Lesser Whistling Teal	<i>Dendrocygna javanica</i>	U	29-09-19	Traumatic Shock
23	Bonnet macaque	<i>Macaca radiata</i>	M	22-10-19	Senility
24	Bonnet macaque	<i>Macaca radiata</i>	M	28-10-19	Senility
25	Barn owl	<i>Tyto alba</i>	U	28-10-19	Accute enteric infection
26	Spotted deer	<i>Axis axis</i>	M	03-11-19	Sub acute cardiomyopathy
27	Bonnet macaque	<i>Macaca radiata</i>	M	07-11-19	Multi organ failure
28	Rhea (white)	<i>Rhea americana</i>	U	08-12-19	Cervical vertebral fracture
29	Bonnet macaque	<i>Macaca radiata</i>	U	13-12-19	Chronic enteritis
30	Brahmini kite	<i>Haliaster indus</i>	U	18-12-19	traumatic shock
31	Bonnet macaque	<i>Macaca radiata</i>	M	23-12-19	traumatic shock
32	Hog Deer	<i>Axis porcinus</i>	M	28-12-19	septicaemia
33	Bonnet macaque	<i>Macaca radiata</i>	M	31-12-19	Senility
34	Sambar deer	<i>Rusa unicolor</i>	M	03-01-20	Infight injury
35	Spotted deer	<i>Axis axis</i>	F	07-01-20	Chronic Septicaemic Shock
36	Hog deer	<i>Axis porcinus</i>	F	15-01-20	Systemic septicaemia
37	Bonnet macaque	<i>Macaca radiata</i>	F	18-01-20	Multi organ failure
38	Bonnet macaque	<i>Macac radiata</i>	F	14-02-20	Multi organ failure
39	Bonnet macaque	<i>Macac radiata</i>	F	15-02-20	Multi organ failure
40	Sambar deer	<i>Rusa unicolor</i>	F	26-02-20	Postpartum uterine prolapse
41	Bonnet Macaque	<i>Macaca radiata</i>	F	02-03-20	Multi organ failure
42	Star Tortoise	<i>Geochelone elegans</i>	U	06-03-20	carcass was putrefied
43	Bonnet Macaque	<i>Macaca radiata</i>	M	06-03-20	Multi organ failure
44	Peafowl	<i>Pavo cristatus</i>	M	13-03-20	Traumatic injury
45	Green Whip Snake	<i>Ahaetulla nasuta</i>	U	16-03-20	Enteritis
46	Trinket Snake	<i>Coelognathus helenus</i>	U	23-03-20	Enteritis
47	Bonnet Macaque	<i>Macaca radiata</i>	F	27-03-20	Senility

28) Compliance with conditions stipulated by the Central Zoo Authority

Remarks of Notice No.19-113/92-CZA (140)(Vol.I)(AK)/2981/2018 dated 25-04-2018

Sr. No	Norm No. under RZR, 2009	Condition Stipulated	Remarks
1	10.1(3)	Visitors' movement is not regulated. It should be ensured that visitors' path should not exceed 25% of the periphery of the enclosure. This is to ensure adequate withdrawal area to the animal.	Visitor's movement is regulated near carnivore, water bird, porcupine, jackal and spotted deer enclosures upto 75%
2	10.1(9)	Not removed domestic animals from the zoo	All other domestic birds including Muscovy ducks and geese were removed from the Zoo. Mithuns – Communicated the matter with State Government institutions like Livestock farm (College of Veterinary and Animal Sciences Mannuthy), Kerala Livestock Development Board, Guruvayoor Devaswom Board and private establishments like Chittilappilly Group but they are not willing to accommodate the animals, so we are not in a position to dispose the animals under present Government norms.
3	10.2(1)	The zoo operator has not deputed whole time in-charge for the zoo. It is informed during evaluation that the officer in-charge of the zoo visits the zoo twice in a month. Zoo with such large animal collection with minimal infrastructure demands continuous monitoring and surveillance.	The Zoo operator is the Secretary to the Government. There is a full time residing charge officer in Zoo (The Superintendent of State Museum and Zoo) who is assisted by Veterinary Surgeon, Curator (M.Sc Zoology) and other supporting staff.
4	10.3(7) & 10.3(8)	Not reported acquisition of rescued animals to the Chief Wildlife Warden of the State and the CZA. One rescued tiger is acquired from Wayanad. The zoo operator should submit a report to the Chief Wildlife Warden of the State indicating source, legality of acquisition and infrastructure available for housing, upkeep and healthcare of the animals acquired. Copy of the same should be submitted to the Central Zoo Authority in case of endangered species.	The tiger was taken to Thrissur zoo as per the direction of the Chief Wildlife Warden, Kerala which was a conflict animal and there was no other facility to house the trapped and injured animal so it was shifted to Zoo and will hand over the animal to forest department (Chief Wildlife Warden) when the animal becomes healthy. The matter was already communicated with CZA.
5	10.4(2)	The animal enclosures are not as per prescribed design and dimension.	Since it is an old Zoo and there is lot of space restriction, the enclosures are maintained in the old design. However maintenance works of carnivore, ostrich, black buck, hog deer, peacock are in progress to ensure the safety to animals and the animals will be shifted to a new well designed zoo at Puthur as and when the works are completed.
6	10.4(2)	Rain water is accumulated in the moat of enclosure for Jackal due to lack of drainage.	Water in the moat is drained with the help of a motor pump at times of need.
7	10.4(2)	No provision of paddock for Bonnet macaques, two Tigers and one Lion.	Paddock is provided for Tigers and Lion. It is not possible to construct paddock for bonnet macaques. Proposal for the maintenance of the monkey cages has been approved by the government and work will

Sr. No	Norm No. under RZR, 2009	Condition Stipulated	Remarks
			commence soon.
8	10.4(2)	Sliding doors of three retiring cells of enclosure for Tiger are being operated from visitors' path. This is in deviation from the prescribed standard. Care should be taken to avoid untoward incident and it should be rectified.	Entry of visitors restricted through service path.
9	10.4(2)	No provision of squeeze cage in the enclosure for leopards.	There is a transportation squeeze cage designed for leopard, and work sanctioned to the maintenance and construction of inbuilt squeeze cage at leopard enclosure.
10	10.4(3)	Failed to separate visitors' path and service path. Service entry in to the animal enclosure is accessible to visitors.	Rectified at all possible cages like pelican, carnivores, porcupine, ostrich, emu, hog deer, black buck etc . Separating visitors path and service path is not possible for all other cages, due to lack of space.
11	10.4(3)	Compromised with the safety and security for the animals, animal keepers and the visitors by providing Children's play area among the animal enclosures.	Children's play area is isolated by a compound wall. Two guards are posted for security measures.
12	10.4(6)	Enrichment of animal enclosures is inadequate.	Enrichment is doing on routine basis
13	10.4(9)	Stand-off barrier is absent in the enclosure for Barn owl and Porcupine. Hedge is not planted between moat wall and standoff barriers in many animal enclosures.	Stand-off barriers are erected and hedges are planted at required areas wherever possible.
14	10.5(2)	Not tested samples of feed and water provided to animals.	Most of the feeds are collected from State Government agencies and the examination is done by Veterinary Surgeon and Curator daily. Testing of samples done and will do on a routine basis.
15	10.5(2)	The Meat Processing Room in the zoo is not cleaned and disinfected appropriately. It lacks hygiene. Feed processing room, meat processing room, post-mortem room, burial ground, garbage dump yard, staff toilets, enclosure for Tiger and Mithun are all in close proximity to each other. Discharge from meat processing room is left out for natural drainage.	Store room and meat processing unit renovated and kept hygienic. However due to lack of space these units are very near. A drain leading to a soak pit was constructed to drain the washings from the slaughter house.
16	10.5(9)	The staff involved in the healthcare of animals is not screened against zoonotic diseases annually.	Medical camps conducted in the campus through Government District Hospital and will be done in routine basis.
17	10.5(10)	The Daily Report is not maintained and the Animal History Card is maintained only for carnivores.	Daily Report as prescribed by CZA is maintained. Animal History Card for carnivores and other endangered species is maintained. Herd book is maintained for other animals.
19	10.6(3)	Failed to ensure adequate animal restraint equipment to meet emergency.	Adequate animal restraint equipments like tranquilizing equipments, capture nets, squeeze cages, trolley stretchers are readily available in Zoo Veterinary Hospital to meet emergency.
20	10.6(5)	The zoo operator has not posted Veterinary Support Staff as mandatory for a medium category zoo.	Posted a veterinary compounder on daily wage basis. For other staffs, the State Government has been requested to create adequate veterinary support staff as mandatory for a medium category zoo.

Sr. No	Norm No. under RZR, 2009	Condition Stipulated	Remarks
21	10.9(9)	Number of animals namely Sambar and Jackal is beyond carrying capacity.	Sex separation of Jackals has been done already. Since sambar deer is housed in a single enclosure there is no provision for separating the animals after surgery. Estimate submitted for Government approval and sterilization will be initiated after the completion of the maintenance work of enclosure.
22	10.11(2)	Permitted performance by animals as part of Wildlife Week celebration. It is informed during evaluation that elephant was brought to the zoo during Wildlife Week 2017 for creation of awareness in public.	Elephant was brought during wildlife week 2017 to create curiosity and awareness among the public. No performance was done by the animals. Awareness classes were arranged. In future such incidents will not be repeated.
23	10.11(2)	There is no First aid kit and snake anti-venom serum and life saving drugs on the zoo campus.	First-aid kits are made available in different places. Antivenin and life saving drugs is available in the zoo Veterinary Hospital.
24	10.12(3)	The physically disabled visitors are not provided ramps and access to visit animal enclosures.	Ramps are provided at major places.
25	11(1)	The zoo operator has not submitted Quarterly Inventory to the Central Zoo Authority.	Inventory is submitted promptly through email and will do in future also.
26	11(1)	Not reported the acquisition of Travancore turtle (0:0:11). Acquired Partridges from relocated Kodanad zoo without approval of the Chief Wildlife Warden and the Central Zoo Authority.	Travancore turtle is not aquired. The Partridges were shifted from Kodanad zoo as per the direction from the Chief Wildlife Warden, Kerala as per order no WL-3/43663/2017 dated 02-09-2017 which is not reported to CZA may be pardoned.
27	10.3(3)	Not obtained prior approval of the Government under the Forest (Conservation) Act, 1980 for relocation of the State Museum and Zoo, Thrissur to the Thrissur Zoological Park, Puthur on forest land.	Not Applicable. (The Department of Forests and Wildlife is dealing the entire matter of relocation of Thrissur zoo to Puthur)
28	10.3(3)	Not relocated the State Museum and Zoo, Thrissur. Instead, taken up construction of enclosures for species not in the Animal Collection of the State Museum and Zoo, Thrissur. While previous renewal of recognition to the State Museum and Zoo, Thrissur, it was clearly specified that construction of enclosures at the site approved for its relocation to the Thrissur Zoological Park, Puthur should follow the order of priority and that the relocation of zoo from old site should be the first priority. However, construction of enclosures for four species namely NigiriLangur, Lion tailed macaque, Gaur and Great aviary is taken up by felling trees at the site identified for retiring cells. The staff quarters is also constructed.	Not Applicable. (The Department of Forests and Wildlife is dealing the entire matter of relocation of Thrissur zoo to Puthur)

29) List of free living wild animals within the zoo premises:

Not assessed.

STATE MUSEUM AND ZOO, THRISSUR
ANNUAL INVENTORY REPORT - 2019-2020

MAMMALS

Si.No	Name of the Animal	Stock as on 01.04.2019			Births			Acquisitions			Disposal			Deaths			Stock as on 31.03.2020			Total
		M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	
1	Bengal Tiger	2						1									3			3
2	Bonnet Macaque	48	21	7										11	8	1	37	13	6	56
3	Deer Hog	7	10	11			4							2	2		5	8	15	28
4	Deer Sambar	33	44	6			3							2	1		31	43	9	83
5	Deer Spotted	12	77	11										2	2		10	75	11	96
6	Black buck	2	5				1								1		2	4	1	7
7	Hippopotamus	1	1	1													1	1	1	3
8	Jackal	6	3														6	3		9
9	Jungle Cat	1															1			1
10	Leopard	3	1														3	1		4
11	Lion Hybrid	1															1			1
12	Lion-tailed Macaque		1									1								
13	Mithun	2	1														2	1		3
14	Porcupine Indian	2	1	6			6										2	1	12	15
15	Rhesus Macaque	1									1									
16	Toddy Cat /Civet Common Palm	1	2														1	2		3
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				
TOTAL		122	167	42			14	1			1	1		17	14	1	105	152	55	312

STATE MUSEUM AND ZOO, THRISSUR
ANNUAL INVENTORY REPORT - 2019-2020

BIRDS

Si.No	Name of the Animal	Stock as on 01.04.2019			Births			Acquisitions			Disposal			Deaths			Stock as on 31.03.2020			Total
		M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	
1	African grey parrot	1															1			1
2	Alexandrian parakeet	1	1	4													1	1	4	6
3	Little Cormorant			7															7	7
4	Emu	1															1			1
5	Night Heron	2															2			2
6	Brahminy Kite			4										1					3	3
7	Pariah Kite /Black Kite			2															2	2
8	Barn Owl			8										1					7	7
9	Brown Fish Owl			11															11	11
10	Chukar Partridge			19			15					6				1			27	27
11	Rose Ringed Parakeet			18			4												22	22
12	Peafowl	4	1										2				2	1		3
13	Pelican Rosy / White			3															3	3
14	Purple Heron			1															1	1
15	Silver pheasant	3	3				1										3	3	1	7
16	Lady Amherst Pheasant	1	1				1										1	1	1	3
17	White Stork			1															1	1
18	White Necked Stork	1	1														1	1		2
19	Lesser Whistling Teal			12										3					9	9
20	Median Egret			2										1					1	1
21	Golden pheasant	1	1				3										1	1	3	5
22	Purple swamp hen			1															1	1
23	Ostrich		2															2		2
24	Rhea			4			6							1					9	9
25																				
26																				
27																				
TOTAL		15	10	97			30					6	2		8	13	10	113		136

STATE MUSEUM AND ZOO, THRISSUR
ANNUAL INVENTORY REPORT - 2019-2020

REPTILES

Si.No	Name of the Animal	Stock as on 01.04.2019			Births			Acquisitions			Disposal			Deaths			Stock as on 31.03.2020			Total
		M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	
1	Black turtle/ Indian pond terrapin			10															10	10
2	Indian soft shelled turtle			4															4	4
3	Red eared slider	1	3	1													1	3	1	5
4	Star tortoise			2										1					1	1
5	Crocodile Long Snouted (Gharial)	2															2			2
6	Green calotes																			
7	Monitor Lizard / Common Indian			1															1	1
8	Common Krait snanke			1															1	1
9	Green whip snake			5										1					4	4
10	Cobra Indian			11															11	11
11	King cobra			1															1	1
12	Russells Viper			2										1					1	1
13	Indian cat snake			1										1						
14	Python Indian - Rock		1	2														1	2	3
15	Rat snake/ Dhaman			2															2	2
16	Trinket Snake			2										1					1	1
17	Red sand boa			1															1	1
18	Sand Boa			5															5	5
19	Chekered Keel back			2															2	2
20																				
21																				
22																				
23																				
24																				
TOTAL		3	4	53												5	3	4	48	55

STATE MUSEUM AND ZOO, THRISSUR
ANNUAL INVENTORY REPORT - 2019-2020

DISTRIBUTION OF ANIMALS ACCORDING TO CLASS

NO	CLASS	NO OF SPECIES	TOTAL NUMBER
1	MAMMALS	16	312
2	BIRDS	24	136
3	REPTILES	19	55
TOTAL		59	503

VACCINATION SCHEDULE

CARNIVORES

Sl.no	Species	Disease	Trade name	Contents of vaccine	manufacturers	Type of vaccine	Schedule of vaccine	Available stock
1	2	3	4	5	6	7	8	9
1	Canis aureus	rabies	Rabigen	Cell culture	Virbac	Inactivated virus	annual	nil
		CD, parvo virus, picorna, corona, adeno viruses and leptospira	Canigen DHPPi +L	Cell culture	Virbac	Inactivated antigens	Annual	nil
2	Panther tigris	Rabies, feline pan leukopaenia, herpes, calici virus infections	Biofel PCHR	Cell culture	Bioveta.a.s Czech Republic	Inactivated viral cellculture	Once in life time	4 doses
3	Panther leo persica							
4	Panther pardus							
5	Felis chaus							

VACCINATION SCHEDULE

HERBIVORES

Sl.no	Species	Disease	Trade name	Contents of vaccine	manufacturers	Type of vaccine	Schedule of vaccine	Available stock
1	2	3	4	5	6	7	8	9
1	<i>Bos frontalis</i>	FMD	Raksha-ovac	Tri valent inactivated antigen	Indian immunologicals ltd	Inactivated antigens	Every 6 months interval	nil