

STATE MUSEUM AND ZOO

DEPARTMENT OF MUSEUMS AND ZOOS

GOVERNMENT OF KERALA



ANNUAL REPORT

2018-19

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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, Eranakulam. 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 64 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.

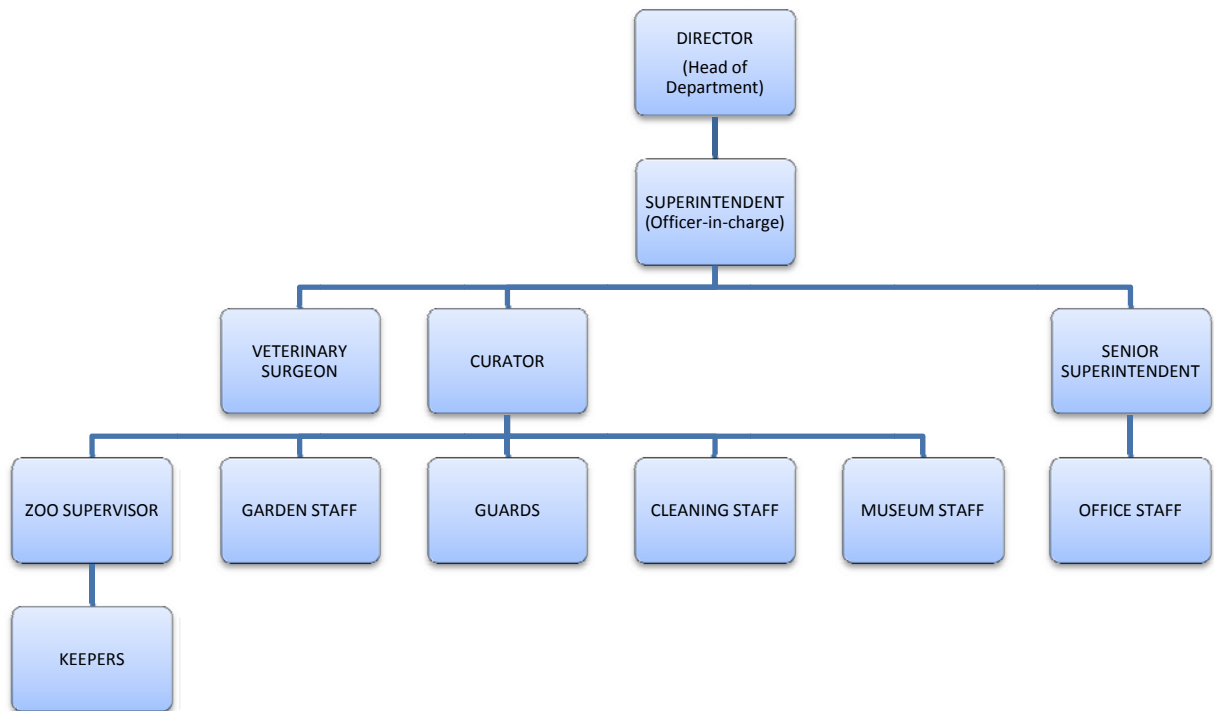
We have a well maintained auditorium which is used for education purposes and functions. Classes and audio-visual presentations on wildlife and environmental protection are arranged regularly for students.

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 hectares
13	Number of Visitors (Financial Year)	Adult :7,15,118
		Children :2,88,590
		Total Indian :
		Total Foreigners :
		Total Visitors:10,03,708
14	Visitors' Facilities Available in Zoo	Toilets, e-toilets, Canteen, ramps, drinking water points
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	Akhil V (temporary)
	Name of the Biologist	Nil
	Name of the Education Officer	Nil
	Name of the Compounder/ Lab Assistant	Nil
Owner / Operator of the Zoo		

S.No.	Particulars	Information
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	Temporary staff- 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
6	Keeper	11	Unnikrishnan T M Bijoy T N Sajan S Sivadasan V K Vipin K V Ajeesh C R Joffy Jose Sabeer A A Shaiju G Manesh K S Temporary staff- 1
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	Nandini K K Pushpa T K Thankamony Gopalakrishnan Nair V 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

Sl.No.	Designation	Number of Sanctioned Posts	Names of the incumbent
			Rahul S P
			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	Dr. Binoy C. Babu, Veterinary Surgeon	March 2019	Zoos in North-Western states
2	Sajan S, Keeper	March 2019	Zoos in North-Western states
3	Vipin K V, Keeper	March 2019	Zoos in North-Western states
4	Sivadasan V K, Keeper	March 2019	Zoos in North-Western states
5	Joffy Jose, Keeper	March 2019	Zoos in North-Western states
6	Shaiju G, Keeper	March 2019	Zoos in North-Western states
7	Sumam A R, Senior Superintendent	May 2018	IMG, Thiruvananthapuram
8	Sumam A R, Senior Superintendent	June 2018	IMG, Thiruvananthapuram
9	Sabu K C, Head Clerk	June 2018	IMG, Thiruvananthapuram
10	Krishnadas T, Clerk	June 2018	IMG, Thiruvananthapuram
11	Madhu M K, Gardener	June 2018	IMG, Thiruvananthapuram
12	Mohanan K, Gardener	June 2018	IMG, Thiruvananthapuram
13	Nasar K K, Gallery Attendant	August 2018	IMG, Thiruvananthapuram
14	Ajith P B, Guard	August 2018	IMG, Thiruvananthapuram
15	Nikhil Rajagopalan, Guard	August 2018	IMG, Thiruvananthapuram
16	Bijoy T.N, Keeper	August 2018	IMG, Thiruvananthapuram
17	Subhash K, Keeper	August 2018	IMG, Thiruvananthapuram
18	Gopalakrishnan Nair, Sweeper	August 2018	IMG, Thiruvananthapuram
19	Rema K, Sweeper-Scavenger	August 2018	IMG, Thiruvananthapuram
20	Sabu K C, Head Clerk	September 2018	IMG, Thiruvananthapuram
21	Binukuttan P V, Draughtsman	September 2018	IMG, Thiruvananthapuram
22	Sathyan A K, Gardener	October 2018	IMG, Thiruvananthapuram
23	Kochumon C K, Gardener	October 2018	IMG, Thiruvananthapuram
24	Dibin D S, Guard	November 2018	IMG, Thiruvananthapuram
25	Sajan S, Keeper	November 2018	IMG, Thiruvananthapuram

10) Zoo Advisory Committee: Nil

11) Health Advisory Committee: Yes

12) Statement of income and expenditure of the Zoo

The total revenue through the ticket collection in the year 2018-2019 was ₹1,73,61,818. 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 ₹3,63,28,767.

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	Panthera tigris	Concrete pen	10 % Diluted chlorhexidine	Daily
2	Panthera leo	Concrete pen	10 % Diluted chlorhexidine	Daily
3	Panthera pardus	Concrete pen	10 % Diluted chlorhexidine	Daily
4	Felis chaus	Concrete pen	10 % Diluted chlorhexidine	Daily
5	Canis aureus	Concrete pen	10 % Diluted	Daily

Sl.no	Species	Type of enclosure	Disinfectants used and methods	Frequency of disinfection
			chlorhexidine	
6	Macaca mullata	Concrete pen	Bleaching powder	Weekly once
7	Macaca radiata	Concrete pen	Bleaching powder	Weekly once
8	Macaca silenus	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	Struthio camellus	Concrete pen Open paddock	Bleaching powder Lime	Weekly once
16	Dromaius navaehollandiae	Concrete pen Open paddock	Bleaching powder Lime	Weekly once
17	Water birds aviary	Concrete ponds	Bleaching powder	Weekly once
18	Gavialis gangeticus	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 ramp, railings, has been done during the year. Maintenance work of some enclosures sanctioned and the works are going on.

19-20) Education and Awareness programmes during the year

Documentary shows and awareness classes on wildlife has arranged for students regularly. Wildlife week was not celebrated during 2018 due to the great flood affected Kerala in the year. But awareness classes were conducted during that period in cooperation

with the zoology department of Vimala College, Thrissur. That institution will contribute through presentations and classes in the educational activities in the zoo.

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

Nil

26) Annual Inventory of Animals:

Attached as Annexure- 3

27) Mortality of animals:

NO	ANIMAL NAME	SCIENTIFIC NAME	SEX	DATE OF DEATH	CAUSE OF DEATH
1	Rhesus macaque	Macaca mullata	M	01-04-2018	Senility
2	Lesser whistling teal	Dendrocygna javanica	U	22-04-2018	Enteric infections
3	Spotted deer	Axis axis	M	25-04-2018	Septicaemia due to infective wound after horn evulsion
4	Spotted deer	Axis axis	M	04-05-18	Septicaemia
5	Bonnet macaque	Macaca radiata	F	07-05-18	Senility and multi organ failure
6	Sambar deer	Rusa unicolor	M	13-05-18	Septicaemia
7	Emu	Dromaius novaehollandiae	U	11-06-2018	enteric infection
8	Brahmini kite	Haliastur indus	U	30-06-2018	inflight injury
9	Rhea bird	Rhea americana	U	05-07-2018	Acute enteric infection
10	Pea fowl	Pavo cristatus	M	09-07-2018	inflight injury
11	King cobra	Naja hannah	U	15-07-2018	rupture of s/c abscess
12	Black buck	Antelope cervicapra	M	23-07-18	Septicaemia due to foot rot
13	Black buck	Antelope cervicapra	F	24-07-18	Septicaemia due to foot rot
14	lesser whistling teal	Dendrocygna javanica	U	27-07-18	Septicaemia
15	black buck	Antelope cervicapra	F	10-08-18	Foot rot
16	Peafowl	Pavo cristatus	M	10-08-18	Senility
17	Peafowl	Pavo cristatus	F	12-08-18	Septicaemia
18	Peafowl	Pavo cristatus	M	19-08-18	inflight injury
19	Calotes	Calotes calotes	F	23-08-18	Catarrhal enteritis
20	Bonnet macaque	Macaca radiata	M	31-08-18	Senility with multi organ failure
21	Spotted deer	Axis axis	M	14-09-18	Generalized Septicaemia

22	toddy cat	Paradoxurus hermaphroditus	M	15-09-18	multi organ failure
23	russels viper	Vipera russelli	U	15-09-18	Senility
24	Spotted deer	Axis axis	F	16-09-18	chronic cardio myopathy
25	Hog deer	Axis porcinus	F	22-09-18	Generalized Septicaemia
26	jackal	Canis aureus	U	24-09-18	Unknown cause
27	Spotted deer	Axis axis	M	24-09-18	myocardial infarction
28	Star tortoise	Geochelon elegans	U	04-10-18	Enteric infection and gout
29	Spotted deer	Axis axis	M	05-10-18	cardiomyopathy and foot rot
30	Spotted deer	Axis axis	F	06-10-18	Septicaemia due to foot rot
31	Spotted deer	Axis axis	F	08-10-18	cardiomyopathy and foot rot
32	Jackal	Canis aureus	U	09-10-18	Septicaemia
33	Bonnet macaque	Macaca radiata	M	10-10-18	Senility
34	Black buck	Antelope cervicapra	F	11-10-18	Septicaemia due to foot rot
35	Sambar deer	Rusa unicolor	M	12-10-18	pulmonary hyperventilation
36	Spotted deer	Rusa unicolor	M	15-10-18	foot rot and chronic cardio myopathy
37	Black buck	Antelope cervicapra	M	20-10-18	foot rot and chronic cardio myopathy
38	Sambar deer	Rusa unicolor	M	22-10-18	contusion of chest due to internal injury
39	Spotted deer	Axis axis	F	24-10-18	Generalised septicaemia
40	Spotted deer	Axis axis	M	24-10-18	foot rot and chronic cardio myopathy
41	Sambar deer	Rusa unicolor	M	29-10-18	inflight injury
42	spotted deer	Axis axis	F	09-11-18	acute cardio myopathy and foot rot
43	Rose ringed parakeet	Psittacula krameri	U	14-11-18	Attacked by cobra-predator attack
44	bonnet macaque	Macaca radiata	M	28-11-18	Senility and multi organ failure
45	Spotted deer	Axis axis	M	04-12-18	septicaemia due to foot rot
46	sambar deer	Rusa unicolor	F	05-12-18	multi organ failure due to senility
47	sambar deer	Rusa unicolor	M	15-12-18	acute Enteric infection
48	Bonnet macaque	Macaca radiata	M	15-12-18	multi organ failure due to senility
49	Bonnet macaque	Macaca radiata	M	16-12-18	multi organ failure due to senility
50	Bonnet macaque	Macaca radiata	M	28-12-18	cerebral haemorrhage
51	Sambar deer	Rusa unicolor	F	12-01-19	Traumatic injury
52	Giant squirrel	Ratufa indica	F	21-01-19	Senility
53	Bonnet macaque	Macaca radiata	M	30-01-19	Senility
54	little cormorant	Micrcarbo niger	U	02-02-2019	Egg bound
55	Bonnet macaque	Macaca radiata	F	02-02-19	Multiorgan failure
56	Bonnet macaque	Macaca radiata	F	03-02-19	Multiorgan failure
57	Tiger	Panthera tigris	M	13-02-18	Multiorgan failure
58	Sambar deer	Rusa unicolor	F	17-02-19	Septicaemia
59	Chukar Partridge	Alectoris chukar	U	18-02-19	Inflight injury

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 Nigiri Langur, 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.

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	<i>Canis aureus</i>	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	<i>Panther tigris</i>	Rabies, feline pan leukopaenia, herpes, calci virus infections	Biofel PCHR	Cell culture	Bioveta.a.s Chech Republic	Inactivated viral cellculture	Once in life time	4 doses
3	<i>Panther leo persica</i>							
4	<i>Panther pardus</i>							
5	<i>Felis chaus</i>							

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

ANNEXURE- 1

**STATE MUSEUM AND ZOO, THRISSUR
ANNUAL INVENTORY REPORT - 2018-19**

MAMMALS

Si.No	Name of the Animal	Stock as on 01.04.2018			Births			Acquisitions			Disposal			Deaths			Stock as on 31.03.2019			Total
		M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	
1	Bengal Tiger	3												1			2			2
2	Bonnet Macaque	55	24	7										7	3		48	21	7	76
3	Deer Hog	5	11	9			4								1		5	10	13	28
4	Deer Sambar	34	42	2			13							5	3		29	39	15	83
5	Deer Spotted	7	92		2		12							7	6		2	86	12	100
6	Giant Squirrel		1												1					
7	Hippopotamus	1	1	1													1	1	1	3
8	Jackal	3	1	6			1									2	3	1	5	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		1
13	Mithun	2	1														2	1		3
14	Porcupine Indian	2	1	6													2	1	6	9
15	Rhesus Macaque	2												1			1			1
16	Toddy Cat /Civet Common Palm	2	2											1			1	2		3
17	Black buck	3	3	5			1							2	3		1		6	7
18																				
19																				
20																				
21																				
22																				
23																				
24																				
TOTAL		124	181	36	2		31							24	17	2	102	164	65	331

STATE MUSEUM AND ZOO, THRISSUR
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BIRDS

Si.No	Name of the Animal	Stock as on 01.04.2018			Births			Acquisitions			Disposal			Deaths			Stock as on 31.03.2019			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			8										1					7	7
4	Emu	1		1										1	1					1
5	Night Heron	2															2			2
6	Brahminy Kite			5										1					4	4
7	Pariah Kite /Black Kite			2															2	2
8	Barn Owl			6			2												8	8
9	Brown Fish Owl			9			2												11	11
10	Mottled Wood Owl																			
11	Rose Ringed Parakeet			15			4							1					18	18
12	Peafowl	6	3										2	2			4	1		5
13	Pelican Rosy / White			3															3	3
14	Purple Heron			1															1	1
15	Silver pheasant	3	3														3	3		6
16	Lady Amherst Pheasant	1	1														1	1		2
17	White Stork			1															1	1
18	White Necked Stork	1	1														1	1		2
19	Lesser Whistling Teal			14										2					12	12
20	Median Egret			2															2	2
21	Golden pheasant	1	1														1	1		2
22	Purple swamp hen			1															1	1
23	Ostrich		2															2		2
24	Rhea			4			1							1					4	4
25	Chukar Partridge			11			9							1					19	19
26																				
27																				
TOTAL		17	12	83			22							2	2	8	15	10	97	122

STATE MUSEUM AND ZOO, THRISSUR
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REPTILES

Si.No	Name of the Animal	Stock as on 01.04.2018			Births			Acquisitions			Disposal			Deaths			Stock as on 31.03.2019			Total
		M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	
1	Malabar Pit Viper																			
2	Bronze back tree snake																			
3	Calotes (Green)			1												1				
4	Checkered keel back			2															2	2
5	Cobra Indian			11															11	11
6	Common Krait snake			1															1	1
7	Crocodile Long Snouted (Gharial)	2															2			2
8	Crocodile Marsh (Mugger)																			
9	Green whip snake			2			3												5	5
10	Indian pond terrapin			10															10	10
11	King cobra			2												1			1	1
12	Monitor Lizard / Common Indian			1															1	1
13	Indian cat snake			1															1	1
14	Python Indian - Rock		1	2														1	2	3
15	Rat snake/ Dhaman			2															2	2
16	Red eared slider	1	3	1													1	3	1	5
17	Russells Viper			3												1			2	2
18	Sand Boa			5															5	5
19	Soft shelled turtle			4															4	4
20	Trinket Snake			2															2	2
21	Red sand boa			1															1	1
22	Star tortoise			3												1			2	2
23																				
24																				
TOTAL		3	4	54			3									4	3	4	53	60

STATE MUSEUM AND ZOO, THRISSUR
ANNUAL INVENTORY REPORT - 2018-19

DISTRIBUTION OF ANIMALS ACCORDING TO CLASS

NO	CLASS	NO OF SPECIES	TOTAL NUMBER
1	MAMMALS	17	331
2	BIRDS	25	122
3	REPTILES	22	60
TOTAL		64	513