

STATE MUSEUM AND ZOO

DEPARTMENT OF MUSEUMS AND ZOOS

GOVERNMENT OF KERALA



ANNUAL REPORT

2017-18

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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.

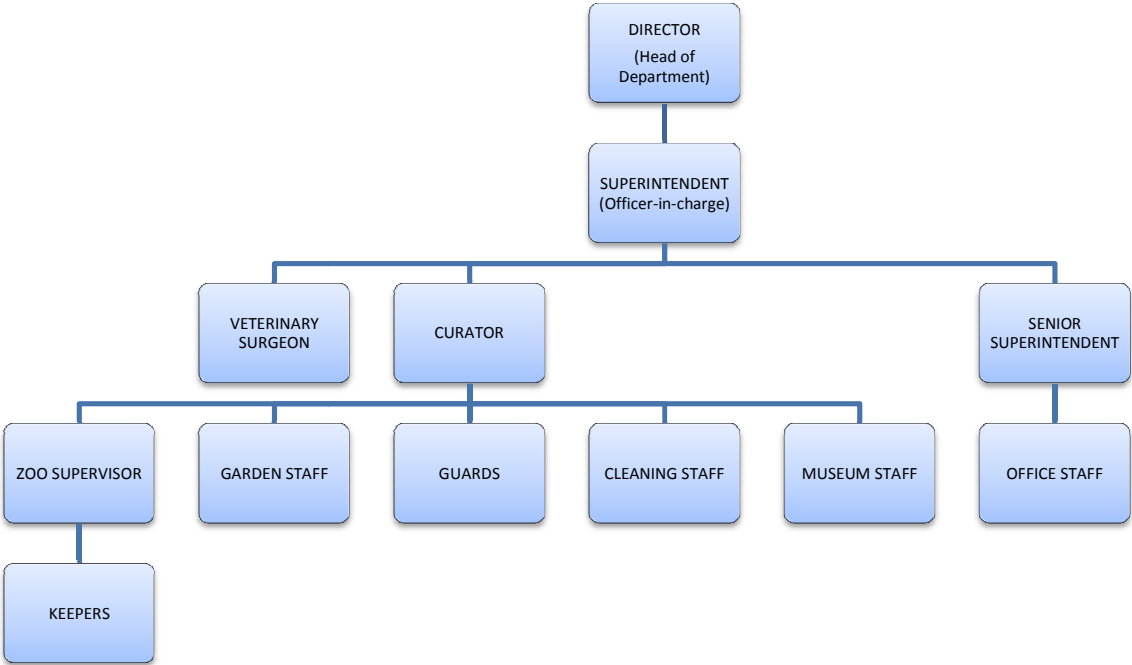
In the zoo premises, a certificate course on "Animal handling in zoo and forest" was initiated by the Veterinary University, Kerala in co-operation with the Department of Museums and Zoos last year (2016 Nov to 2017 May).

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 :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

S.No.	Particulars	Information
	Name of the Education Officer	Nil
	Name of the Compounder/ Lab Assistant	Nil
Owner / Operator of the Zoo		
17	Name of the Operator	Director
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
3	Veterinary Surgeon	1	Dr. Binoy C. Babu
4	Attender	2	Aboobaker A K
			Jayakumar I S
5	Zoo Supervisor	1	Vincent A
6	Keeper	11	Vijayan P
			Unnikrishnan T M
			Bijoy T N
			Subhash K
			Temporary staff- 7
7	Part Time Keeper	1	Vacant
8	Part Time Watcher	1	Unnikrishnan A K
9	Gardeners	9	Murukesan V P
			Sathyan A K
			Kochumon C K
			Madhu M K
			Mohanan K
			Leena C
			KochuThresiaJessy A J
			Temporary staff- 2
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
			Ratheesh M C
			Nikhil Rajagopalan
			Dibin D S
			AkhilVisob I V
			Rahul S P
		44	

Sl.No.	Designation	Number of Sanctioned Posts	Names of the incumbent
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
			Bijukumar G
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	Vincent A, Zoo Supervisor	November 2017	Zoos in North-Eastern states
2	Unnikrishnan T M, Keeper	November 2017	Zoos in North-Eastern states
3	Dr. Binoy C. Babu, Veterinary Surgeon	February 2018	Zoos in North-Eastern states
4	Bijoy T N, Keeper	February 2018	Zoos in North-Eastern states
5	Prasobh K V, Office Attendant	Janurary 2018	IMG, Thiruvananthapuram
6	Sunilkumar T P, Guard	Janurary 2018	IMG, Thiruvananthapuram
7	Unnikrishnan T M, Keeper	Janurary 2018	IMG, Thiruvananthapuram
8	Unnikrishnan A K, Part Time Watcher	Janurary 2018	IMG, Thiruvananthapuram
9	Nandini K K, Sweeper	Janurary 2018	IMG, Thiruvananthapuram

10) Zoo Advisory Committee: Nil

11) Health Advisory Committee: Nil

12) Statement of income and expenditure of the Zoo

The total revenue through the ticket collection in the year 2017-2018 was ₹1,80,35,107. 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 ₹3,61,48,789.

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	afrrican 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 radiate	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:

No medical camps conducted during the reporting year. We are planning to conduct regular medical camps in coordination with District Medical Office, Thrissur from the year 2018 onwards.

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, e-toilets, drinking water points has been done during the year. Proposals submitted for the maintenance of the different enclosures.

19-20) Education and Awareness programmes during the year

Documentary shows and awareness classes on wildlife has arranged for students regularly. Awareness programme "Wildlife Mela" conducted at zoo premises in co-operation with WWF-India and SSA. Different competitions for students from KG to College level has conducted during Wildlife week 2017. A butterfly garden is maintained with the

co-operation (MoU) of the Zoology department of St.Mary's College, Thrissur. Another MoU is signed 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

A.	Animals arriving in the Zoo				
	H.No.	Species	Number (M:F)	From which Zoo	Date of arrival in the zoo
	Birds	Alectoris chukar	0:0:13	Wildlife rescue centre, Kodanad (by the order of Chief Wildlife Warden (WL-3/43663/2017 dated 02/09/2017)	23/09/2017
B.	Animals going from the zoo				
	H.No.	Species	Number (M:F)	Going to which Zoo	Date of deposition from the zoo
	Nil	Nil	Nil	Nil	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	Mottled wood owl	Strix ocellata	U	19-04-2017	Pneumonia
2	Bronze back tree snake	Dendrilaphis tristis	U	21-04-2017	enteritis

NO	ANIMAL NAME	SCIENTIFIC NAME	SEX	DATE OF DEATH	CAUSE OF DEATH
3	Sambar deer	Rusa unicolor	F	05-05-17	Infighting
4	Lion tailed macaque	Macaca silenus	M	06-05-17	Congestive heart failure
5	Sambar deer	Rusa unicolor	F	06-06-2017	traumatic shock
6	Hog deer	Axis porcinus	M	20-06-2017	Scrotal hernia
7	Sambar deer	Rusa unicolor	F	26-06-2017	Pneumonia
8	Sambar deer	Rusa unicolor	M	26-06-2017	Respiratory tract infection
9	Sambar deer	Rusa unicolor	F	03-07-2017	infighting
10	Bonnet macaque	Macaca radiata	M	10-07-2017	senility
11	Sambar deer	Rusa unicolor	M	11-07-2017	infighting
12	Spotted deer	Axis axis	F	11-07-17	Metritis
13	Sambar deer	Rusa unicolor	F	11-07-17	Septicemia
14	Spotted deer	Axis axis	M	12-07-17	infighting
15	Sambar deer	Rusa unicolor	F	13-07-17	Broncho pneumonia
16	Spotted deer	Axis axis	F	21-07-17	liver cirrhosis
17	Spotted deer	Axis axis	F	23-07-17	tape worm infestation
18	Spotted deer	Axis axis	F	27-07-17	Septicemia
19	Spotted deer	Axis axis	F	28-07-17	Septicemia
20	Hog deer	Axis porcinus	F	04-08-17	Suppurative broncho pneumonia
21	Sambar deer	Rusa unicolor	F	06-08-17	infectious Gastro enteritis
22	Spotted deer	Axis axis	M	13-08-17	foot rot
23	Spotted deer	Axis axis	M	21-08-17	Septicemia
24	Spotted deer	Axis axis	F	21-08-17	Foot infection
25	Hog deer	Axis porcinus	M	28-08-17	Horn cancer
26	Spotted deer	Axis axis	F	01-09-17	foot infection
27	Hog deer	Axis porcinus	M	07-09-17	foot infection
28	Star tortoise	Geochelone elegans	U	02-10-17	Enteritis
29	Rose ringed Parakeet	Psittacula krameri	U	14-10-17	Congestive heart failure
30	Lesser Whistling Teal	Dendrocygna javanica	U	15-10-17	Infight injury
31	Bonnet macaque	Macaca radiata	F	18-10-17	Senility
32	Hog deer	Axis porcinus	M	26-10-17	Senility
33	Brahmini Kite	Haliastur indus	U	27-10-17	Enteritis
34	Monitor lizard	Varanus bengalensis	U	02-11-17	enteritis
35	Rhesus macaque	Macaca mulatta	M	08-11-17	Congestive heart failure
36	Emu	Dromaius noveihollandiae	M	09-11-17	traumatic peritonitis
37	Sambar deer	Rusa unicolor	F	20-11-17	Multi organ failure
38	Bonnet macaque	Macaca radiata	M	24-11-17	Multi organ failure
39	Hog deer	Axis porcinus	F	15-12-17	Septic shock
40	sambar deer	Rusa unicolor	F	21-12-17	traumatic shock
41	Jackal	Canis aureus	F	24-12-17	Multi organ failure
42	sambar deer	Rusa unicolor	F	28-12-17	chronic wasting
43	Jackal	Canis aureus	M	04-01-18	infight injury
44	Brahmini kite	Haliastur indus	U	08-01-18	cerebral congestion

NO	ANIMAL NAME	SCIENTIFIC NAME	SEX	DATE OF DEATH	CAUSE OF DEATH
45	sambar deer	Rusa unicolor	M	17-01-18	Septiceamia
46	Bonnet macaque	Macaca radiata	F	19-01-18	Multi organ failure
47	sambar deer	Rusa unicolor	M	23-01-18	inflight injury
48	Sambar deer	Rusa unicolor	F	05-02-2018	Pneumonia
49	Mithun	Bos frontalis	M	08-02-18	Squamus cell carcinoma
50	Chukar Partridge	Alectoris chukar	U	09-02-18	septic pasteurellosis
51	Peafowl	Pavo cristatus	F	11-02-18	Enteric infection
52	Spotted deer	Axis axis	F	26-02-18	peritonitis
53	Chukar partridge	Alectoris chukar	U	10-03-2018	peck injury
54	Sambar deer	Rusa unicolor	M	20-03-18	inflight injury
55	Sambar deer	Rusa unicolor	M	22-03-18	inflight injury

28) Compliance with conditions stipulated by the Central Zoo Authority (up to May 2018:

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

Sl.No	Norm No. Under RZR 2009	Notes from CZA	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.	Partially done
2	10.1(9)	Not removed domestic animals from the zoo	Action taken to shift the "Mithun" to the Veterinary University, Mannuthy, Thrissur.
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.	Superintendent is the officer-in-charge of the institution. The officer is a full-time residential officer inside the zoo. He is assisted by Veterinary Surgeon, Curator and other supporting staff.

Sl.No	Norm No. Under RZR 2009	Notes from CZA	Remarks
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.	Will be complied in future. The tiger was taken to Thrissur zoo as per the direction of the Chief Wildlife Warden, Kerala. The tiger will be shifted to Thiruvananthapuram zoo.
5	10.4(2)	The animal enclosures are not as per prescribed design and dimension	The present zoo is to be shifted to a new well designed zoo at Puthur.
6	10.4(2)	Rain water is accumulated in the moat of enclosure for Jackal due to lack of drainage.	The State PWD has been requested to provide adequate drainage facilities to the moat. Till then water in the moat will be drained with the help of a motor pump.
7	10.4(2)	No provision of paddock for Bonnet macaques, two Tigers and one Lion.	Tigers will be shifted to Thiruvananthapuram zoo shortly.
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.	Work sanctioned to the maintenance and construction on squeeze cage.
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. Separating visitors path and service path is not possible for all cages, due to lack of space.

Sl.No	Norm No. Under RZR 2009	Notes from CZA	Remarks
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 barrier will be erected and hedges will be 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 the Veterinary Surgeon and Curator daily. Samples will be tested regularly.
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.
16	10.5(9)	The staff involved in the healthcare of animals is not screened against zoonotic diseases annually.	Screening of zoo related staff against zoonotic diseases will be done through Government District Hospital
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 being maintained. Animal History Card for other endangered species will be maintained as well.

Sl.No	Norm No. Under RZR 2009	Notes from CZA	Remarks
18	10.6(1)(b)	The zoo operator has not acquired adequate basic infrastructure for sample testing and health care of animals in the Veterinary Hospital of the zoo.	Since college of Veterinary Science and District Veterinary Centre are very close to the zoo, they are outsourced for sample testing and other health care of animals.
19	10.6(3)	Failed to ensure adequate animal restraint equipment to meet emergency.	Adequate animal restraint equipments to meet emergency are readily available in the zoo hospital.
20	10.6(5)	The zoo operator has not posted Veterinary Support Staff as mandatory for a medium category zoo.	The State Government has been requested to create adequate veterinary support staff as mandatory for a medium category zoo.
21	10.9(9)	Number of animals namely Sambar and Jackal is beyond carrying capacity.	Jackals will be transferred to Zoological Garden, Thiruvananthapuram. Sterilization will be initiated in the case of Sambar Deers.
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	10.12(2)	There is no First aid kit and snake anti-venom serum and life saving drugs on the zoo campus.	First-aid kit is available in the zoo. Steps have been taken to procure and store anti-venom.
24	10.12(3)	The physically disabled visitors are not provided ramps and access to visit animal enclosures.	Ramps are provided at some points. More ramps will be made in future.

Sl.No	Norm No. Under RZR 2009	Notes from CZA	Remarks
25	11(1)	The zoo operator has not submitted Quarterly Inventory to the Central Zoo Authority.	Quarterly reports were submitted online regularly. It will be submitted through email, in future.
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 acquired. The Partridges were shifted from Kodanad zoo as per the request of the Chief Wildlife Warden, Kerala.
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.	N.A
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.	N.A

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

Not assessed.

**ANNUAL ADMINISTRATION REPORT ON VETERINARY HOSPITAL
ACTIVITIES, STATE MUSEUM AND ZOO, THRISSUR FROM APRIL 2017
TO MARCH 2018**

Veterinary Surgeon : Dr Binoy C Babu

The Veterinary Hospital of State Museum and Zoo, Thrissur is very small with limited facilities but we are providing maximum service and treatments for animals within this limitation as far as animals within the Zoo, wild caught and locally acquired are concerned.

The following table depicts activities carried out in Zoo Veterinary Hospital for a period from April 2017 – March 2018

Sl.no	Particulars	Total
1	Cases treated	242
2	Darting/ tranquilization	12
3	Micro chipping	5
4	Deworming	252
5	Vaccinations	2
6	Samples examined	
	(I) Fecal sample	2
	(II) Blood	1
	(III) Skin scrapings	
	(IV) Any other	2
7	Post mortems	55
8	Eggs set for incubation	53
9	Surgical procedures	
	(I) Major	1
	(II) minor	5
11	Meetings/ Conferences attended	3
12	Trainings attended	0
13	Practical/ Internship sessions handled	16
14	Any other activities : conducted quiz program for children visiting the zoo during wild life week	

The following are some of the major activities carried out in the Zoo Hospital

1. Case no : 2/42 to 5/42 dated 04/05/2017 - four bonnet macaque males tranquilized for vasectomy and microchipped.
2. Case no: 6/46 dated 05/05/2017 – Male Lion tailed Macaque ‘ RAMAN’ tranquilized and treated for inguinal hernia.
3. Case no: 7/47 and 8/48 dated 05/05/2017 - two female Bonnet macaque juveniles tranquilized and microchipped.
4. Case no : 1/40 dated 01/03/2018 – Male Tiger ‘ KIREN’ tranquilized and treated for a wound caused by an over grown nail in both front paws.
5. Case no : 9/32 dated 08/02/2018 – death of large male Mithun ‘GOPU’ conducted post mortem and cause identified as Squamous Cell Carcinoma.

The main limitations of our Veterinary Hospital are

- Lack of Para Veterinary staffs
- Lack of lab facility and laboratory technicians
- Lack of quarantine and isolation facilities for newly introduced and sick animals
- Lack of operation theatre, stretchers, and observation rooms for tranquilized sick animals and their transportation
- Lack of uninterrupted power supply
- Lack of ideal squeeze cages for different type of animals
- Lack of tele-pathology facility
- Lack of ideal tranquilizing agents for certain species of animals

Proposals for financial year 2018 - 2019

- ❖ Construction of an operation theatre with modern equipments, laboratory and observation facilities
- ❖ Purchase of equipments like stretchers, squeeze cages for different animals
- ❖ Provision for isolation and quarantine of sick and newly introduced animals
- ❖ Provision for providing uninterrupted power supply for hospital since it is needed for proper functioning of incubator, refrigerator and deep freezer
- ❖ Posting of Para Veterinary staffs and Laboratory technician
- ❖ Purchase of ideal tranquilizing agents for safe handling of certain species of animals
- ❖ Setting up of tele-pathology facilities

ANNEXURE- 2

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, calici 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>							

ANNEXURE- 2

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- 3

STATE MUSEUM AND ZOO, THRISSUR
ANNUAL INVENTORY REPORT - 2017-18

MAMMALS

Si.No	Name of the Animal	Stock as on 01.04.2017			Births			Acquisitions			Disposal			Deaths			Stock as on 31.03.2018			Total
		M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	
1	Bengal Tiger	3															3			3
2	Bonnet Macaque	55	26	7	2									2	2		55	24	7	86
3	Deer Hog	6	12	6	3		4							4	2		5	10	10	25
4	Deer Sambar	16	40	16	10	13								6	11		20	42	16	78
5	Deer Spotted	7	73	25			5							3	8		4	65	30	99
6	Giant Squirrel		1															1		1
7	Hippopotamus	1	1	1													1	1	1	3
8	Jackal	4	2	6										1	1		3	1	6	10
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				1		1
13	Mithun	3	1											1			2	1		3
14	Porcupine Indian	2	1	3			3										2	1	6	9
15	Rhesus Macaque	3												1			2			2
16	Toddy Cat /Civet Common Palm	2	2														2	2		4
17	Black buck	3	3	3			2										3	3	5	11
18																				
19																				
20																				
21																				
22																				
23																				
24																				
TOTAL		111	164	67	15	13	14							19	24		107	153	81	341

ANNEXURE- 3

STATE MUSEUM AND ZOO, THRISSUR
ANNUAL INVENTORY REPORT - 2017-18

BIRDS

Si.No	Name of the Animal	Stock as on 01.04.2017			Births			Acquisitions			Disposal			Deaths			Stock as on 31.03.2018			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	2															2			2
3	Little Cormorant			8															8	8
4	Emu	1	1	1									1					1	1	2
5	Night Heron	2															2			2
6	Brahminy Kite			7											2				5	5
7	Pariah Kite /Black Kite			2															2	2
8	Barn Owl			5					1										6	6
9	Brown Fish Owl			9															9	9
10	Mottled Wood Owl			1											1					
11	Rose Ringed Parakeet			16											1				15	15
12	Peafowl	6	4											1			6	3		9
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			10					5						1				14	14
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															4	4
25	Chukar Partridge								13						2				11	11
26																				
27																				
TOTAL		18	13	71					19				1	1	7	17	12	83	112	

ANNEXURE- 3

STATE MUSEUM AND ZOO, THRISSUR
ANNUAL INVENTORY REPORT - 2017-18

REPTILES

Si.No	Name of the Animal	Stock as on 01.04.2017			Births			Acquisitions			Disposal			Deaths			Stock as on 31.03.2018			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			1												1				
3	Calotes (Green)			1															1	1
4	Checkered keel back			1															1	1
5	Cobra Indian			11															11	11
6	Common Krait snake			1															1	1
7	Crocodile Long Snouted (Gharial)	2															2			2
8	Crocodile Marsh (Muggger)																			
9	Green whip snake			1															1	1
10	Indian pond terrapin			10															10	10
11	King cobra			2															2	2
12	Monitor Lizard / Common Indian			1											1					
13	Indian cat snake			1															1	1
14	Python Indian - Rock		1	2														1	2	3
15	Rat snake/ Dhaman			3								1							2	2
16	Red eared slider	1	3	1													1	3	1	5
17	Russells Viper			2					1										3	3
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			4											1				3	3
23																				
24																				
TOTAL		3	4	54						1			1			3	3	4	51	58

ANNEXURE- 3

**STATE MUSEUM AND ZOO, THRISSUR
ANNUAL INVENTORY REPORT - 2017-18**

DISTRIBUTION OF ANIMALS ACCORDING TO CLASS

NO	CLASS	NO OF SPECIES	TOTAL NUMBER
1	MAMMALS	17	341
2	BIRDS	25	112
3	REPTILES	22	58
TOTAL		64	511