

PARASSINIKKADAVU SNAKE PARK & ZOO

(A unit of Pappinisseri Visha Chikilsa Society No. S. 47 / 73)

PARASSINIKKADAVU- 670 563 : KERALA

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Annual Report 2017-18



CONTENTS

S.No	Section	Page Number
1.	Report of the Officer-in-charge	4
2.	History of the Zoo	5
3.	Vision	5
4.	Mission	5
5.	Objective	6
6.	About us	6
7.	Organizational Chart	8
8.	Human Resources	9
9.	Capacity Building of the zoo personnel	9
10.	Zoo Advisory Committee	10
11.	Health Advisory Committee	10
12.	Statement of income and expenditure of the Zoo	11
13.	Daily feed Schedule of animals	11
14.	Vaccination Schedule of animals	12
15.	De-worming Schedule of animals	12

S.No	Section	Page Number
16.	Disinfection Schedule	12
17.	Health Check-up of employees for zoonotic diseases	13
18.	Development Works carried out in the zoo during the year	13
19.	Education and Awareness programmes during the year	13
20.	Important Events and happenings in the zoo	14
21.	Seasonal special arrangements for upkeep of animals	14
22.	Research Work carried out and publications	14
23.	Conservation Breeding Programme of the Zoo	15
24.	Animal acquisition / transfer / exchange during the year	15
25.	Rescue and Rehabilitation of the wild animals carried out by the zoo	15
26.	Annual Inventory of animals	15
27.	Mortality of animals.	15
28.	Status of the Compliance with conditions stipulated by the Central Zoo Authority	16
29.	List of free living wild animals within the zoo premises	16
30.	Appendix (PSP01 – PSP29)	18 - 46

1. Report of the Officer-in-charge

Parassinikkadavu Snake Park and zoo has successfully completed a year of unique developments in all sectors since its inception 1982. The administration and work of the center has been streamlined with whole hearted support of the Kerala Forest Department and Central Zoo Authority. Timely intervention and advice from the above authorities has accorded much confidence in rebuilding the entire system complying the Master plan layout approved by the Central Zoo authority.

Parassinikkadavu Snake Park and Mini Zoo is now upgraded to Small category Zoo by CZA considering the overall development, species diversity and wildlife management. Thousands of visitors are reaching over this tourist center from far and near. The Kannur International Airport which is to be opened by September 2018 and Azhikode Seaport would facilitate more acclaim and reachability.

The Master plan is under preparation and will be submitted for the scrutiny of CZA soon. The proposed Rescue Center will also be completed on time with the advice from Kerala Forest Department and Central Zoo Authority.

Considering the unique experience and expertise, that our sister concern, Pappinisseri Visha Chikilsa Kendra, Kannur acquired in Herpetology and Snake Bite Treatment, the zoo is planning to prioritize research and developments in the area of Herpetology / Toxicology.

A Scheme for Centre of Excellence is under preparation and to be submitted to Ayush Department. Several reputed institutions in RMD field, Rajeev Gandhi centre for Biotechnology, Trivandrum and Institute of Microbial Technology Chandigarh (BIRAC/ DBT funded project) have come forward to associate with us.

The Snake Park has been upholding the motto “Love Snakes, not to kill them” envisaged by the Founder of this Center, Shri. M.V. Raghavan. So we are optimistic that by 2020 we could achieve the goals. The goal of the zoo is to convert it into a renowned Reptile Park housing reptile of the region and rare exotic species.

We are sure that we could achieve the goals by the wholehearted support of dedicated employees, tourists, public and support from higher authorities like Forest department Government of Kerala and Central Zoo authority Ministry of Environment, Forest and Climate Change (Government of India)

2. History of the Zoo

The Parassinikkadavu Snake Park was established by Social activists lead by Hon. Ex-minister of state, M.V. Raghavan on January 8th, 1982 at the site purchased from Kerala Government. This snake park is an offshoot of Pappinisseri 'Visha Chikitsa Kendra' intended for Snake bite treatments.

The Pappinisseri snake bite treatment centre was established in the year 1964. This is a centre for curing patients of snake bite using the combination of Ayurvedic, Allopathic and Traditional practices. It was quite common that people bringing the victims of snake bites used to carry the snakes also, as alive, killed or hurt in many cases. Such snakes played a vital role in treatment since the treatment for snake bite differed for Vipers, Cobras, and Kraits. It was easy for the physicians to provide immediate treatment once the snake is identified and the symptoms are tallying with the particular species of snake. The abundance in number of such captive snakes was a practical problem for the founders of the snake bite treatment centre. They got inspiration from Sri. Romulus Whitaker, the famous conservationist and Herpetologist who was instrumental for the establishment of Snake Park and Crocodile Park in Chennai. Providing a practical opportunity to create awareness about the ecological significance of Snakes was the biggest motivation for Social activists of this region for establishing this Park. More than 40 lakhs people visited this Park during the last decade.

This park has turned out to be significant education centre for students and general public for last 34 years. This has found a major place in the tourist map of Kerala also. The nearest Zoos in this region are located in Mangalore and Trichur. Almost seventy lakhs people of the Malabar Region are to be satisfied with this mini zoo to see a few wild animal species directly, apart from Protected Areas.

3. Vision

- Transform the Snake Park to a comprehensive Reptile Park.
- Conservation of Snake species and developing a breeding policy for snakes in captivity.

4. Mission

- To mitigate the fear and hatred towards the snakes and other wild animals and to instigate love and compassion towards such animals.
- To provide a congenial environment for rescue and conservation of wild animals and to create a forum for holistic approach in the field of nature conservation.

- To develop Herpetology Institute and Wildlife Institute for awareness programme championing the need of wildlife protection and to create a knowledge centre for conservation efforts.

5. Objective

- Public education and creating awareness about wildlife conservation.
- Captive breeding of endangered reptiles for conservation.
- Research and Developments.

6. About us

S.No.	Particulars	Information
Basic Information about the Zoo		
1	Name of the Zoo	Parassinikkadavu Snake Park and Zoo
2	Year of Establishment	1982
3	Address of the Zoo	Parassinikkadavu Snake Park Parassinikkadavu – Mayyil road, Dharmasala, Kannur - 670563
4	State	Kerala
5	Telephone Number	Mobile: 9400399000, 9497210517 Phone: 0497-2780738
6	E-mail address	mail@thesnakepark.com
8	Website	www.thesnakepark.com
9	Distance from nearest	Airport: 31 km
		Railway Station: 16.7 km
		Bus Stand: 17.1 km
10	Recognition Valid upto (Date)	23 rd August, 2017
11	Category of zoo	Small Zoo

S.No.	Particulars	Information								
12	Area (in Hectares)	0.993698 (2.455 Acres)								
13	Number of Visitors (Financial Year)	<table border="1"> <thead> <tr> <th>Particulars</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Adult</td> <td>409228</td> </tr> <tr> <td>Children</td> <td>175649</td> </tr> <tr> <td>Total Visitors</td> <td>584877</td> </tr> </tbody> </table>	Particulars	Number	Adult	409228	Children	175649	Total Visitors	584877
Particulars	Number									
Adult	409228									
Children	175649									
Total Visitors	584877									
14	Visitors' Facilities Available in Zoo	<ol style="list-style-type: none"> 1. Wheel chair for Physically challenged 2. Children's Park 3. Lavatory Complex 4. Kiosks (3) 								
15	Weekly Closure Day of the Zoo	Tuesday								
Management Personnel of the zoo										
16	Chief Executive Officer	Mr. Avinash Girija								
	Veterinary Officer	Dr. Anju Mohan S.								
	H.R. Manager	Mrs. Bindhu M. K.								
	Curator / Biologist	Mr. L. Marinath								
	Chief Supervisor	Mr. T.V. Sudhakaran								
Owner / Operator of the Zoo										
17	*Name of the Operator	Prof. E. Kunhiraman (Director)								
18	Address of the Operator	Parassinikkadavu Snake Park Parassinikkadavu – Mayyil road, Dharmasala, Kannur – 670563								
19	Contact details/Phone number of Operator	Mob: +91 9447770098								
20	E-mail address of Operator	mail@thesnakepark.com								

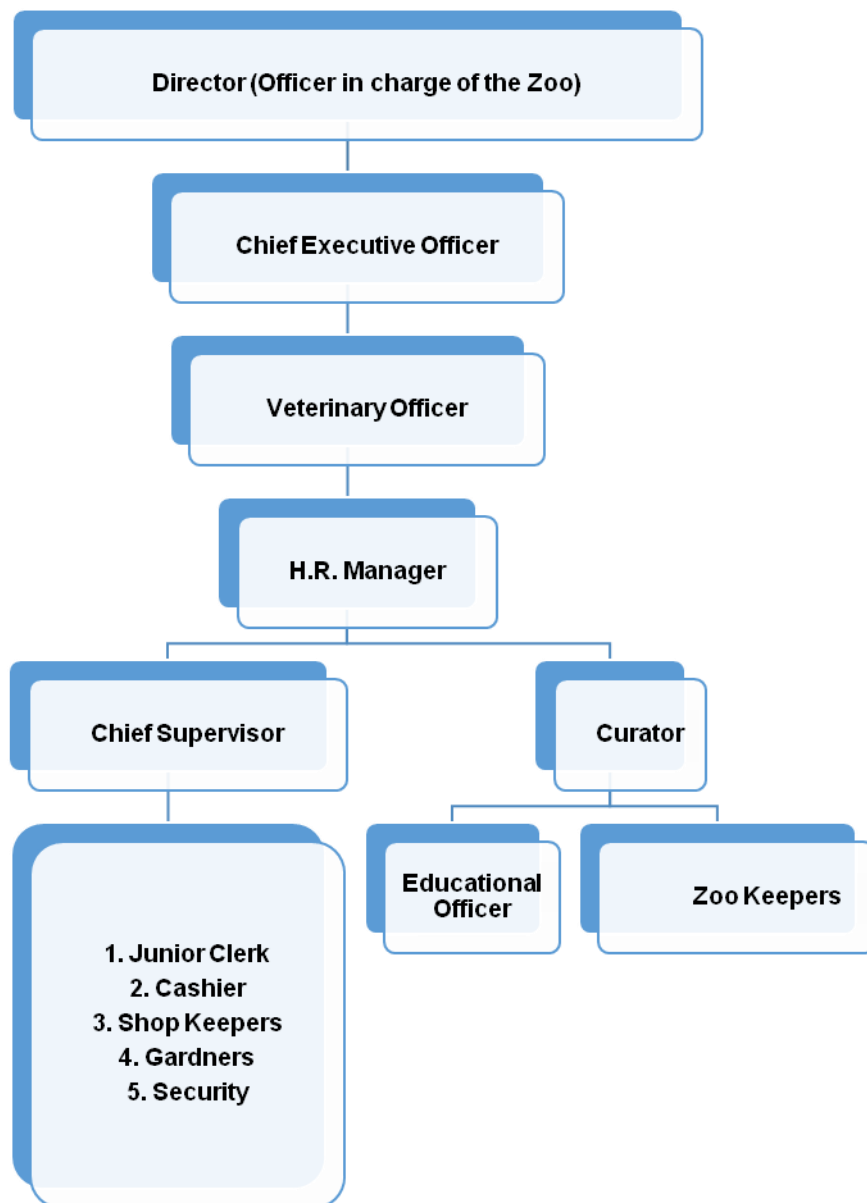
* Rule 2(m) of the Recognition of Zoo Rules, 2009.

"Zoo Operator" means the person who has ultimate control over the affairs of the zoos provided that _____

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

II. in the case of a company, any director, manager, secretary or other officer, who is in-charge of and responsible to the company for the affairs of the zoo; or
 III. In case of zoo owned or controlled by the Central Government or any State Government or Union Territory Administration or any Trust or Society funded by the Central Government or a State Government or a Union Territory Administration, the Secretary of the concerned Department of that Government, or as the case may be the Union Territory Administration, shall be deemed to be the Zoo Operator.

7. Organizational Chart



8. Human Resources

Manpower of the Zoo*

Sl.No.	Designation	Number of Sanctioned Posts	Names of the incumbent
1	Director	1	Prof. E. Kunhiraman
2	Chief Executive Officer	1	Mr. Avinash Girija
3	Veterinary Officer	1	Dr. Anju Mohan S.
4	H.R. Manager	1	Mrs. Bindu M.K.
5	Curator / Biologist	1	Mr. Marinath L.
6	Chief Supervisor	1	Mr Sudhakaran T.V.
7	Educational Officer	1	Mr. Riyaz M.
8	Senior Keeper	1	Mr. Sajeevan O.
9	Zoo Keepers	3	Mr. Augustin K.A. Mr. Prakashan P.V Mr. Santhosh P.V.
10	Shop Keepers	3	Mrs. Preetha E. Mrs. Sheeba P.V. Mrs. Preetha R
11	Junior Clerk	1	Mrs. Aswathy K.
12	Cashier	1	Mrs. Pradeepa K.V.
13	Gardners	5	Mrs. Bindhu T. Mrs. Sreeja V. Mrs. Beena M.P. Mrs. Thanka P. Mrs. Leela K.
14	Security	3	Mr. Bhavadasan Mr. Reghunathan Mr. Rajendran

9. Capacity Building of zoo personnel

Sl. No.	Name and designation of the zoo personnel	Subject matter of Training	Period of Training	Name of the Institution where the Training attended	Organisation of the programme
1	Dr. Anju Mohan S. (Veterinary Officer)	Diseases and Management of Pet Birds and Poultry	November 7, 2017	Royal Omars, Kannur	Indian Veterinary Association, Kannur
2		Hands on training in Wildlife management	December 14 to 16, 2017	Forest training institute, Arippa, Trivandrum	Kerala Forest Department and Kerala State Veterinary Council

3		Hands on training in Chemical Immobilization of Wild animals	March 5, 2018	Zoological Garden, Thiruvananthapuram	Kerala State Veterinary Council
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10. Zoo Advisory Committee

a. Date of constitution: 1st January, 2018

b. Members

1. Mr. James Mathew (MLA)
 2. Mrs. P. K. Shyamala Teacher (Municipal Chairperson)
 3. Mr. Muraleedharan A.K. (Principal, MVR Ayurveda Medical College)
 4. Dr. Ahmed Ziya Mehtah (Veterinary Surgeon)
 5. Prof. E. Kunhiraman (Director, Parassinikkadavu Snake Park and Zoo)
 6. Mr. Avinash girija (CEO, Parassinikkadavu Snake Park and Zoo)
 7. Dr. Anju Mohan S. (Veterinary Officer, Parassinikkadavu Snake Park and Zoo)
 8. Mr. Marinath L. (Curator)
- } Ex Officio

c. Dates on which Meetings held during the year:

1. 1st January, 2018
2. 19th April, 2018

11. Health Advisory Committee

a. Date of constitution: 18th June, 2018

b. Members:

1. Mrs. P. K. Shyamala Teacher (Municipal Chairperson)
 2. Dr. Mukundan K.V. (M.D, Co-operative Hospital, Taliparamba)
 3. Mr. Muraleedharan A.K. (Principal, MVR Ayurveda Medical College)
 4. Dr. Smitha (Medical Superintendent, MVR Ayurveda Medical College)
 5. Dr. Ahmed Ziya Mehtah (Veterinary Surgeon)
 6. Dr. Vineeth George (Assistant Proffessor, MVR Ayurveda College)
 7. Prof. E. Kunhiraman (Director, Parassinikkadavu Snake Park and Zoo)
 8. Mr. Avinash Girija (CEO, Parassinikkadavu Snake Park and Zoo)
 9. Dr. Anju Mohan S. (Veterinary Officer, Parassinikkadavu Snake Park and Zoo)
- } Ex Officio

c. Dates on which Meetings held during the year: 18th June, 2018

12. Statement of income and expenditure of the Zoo (2017 – 2018)

Sl.No	Category	Nos	Rate (Rs)	Amount (Rs)
1	Kids Concession	75910	15	1138650
2	Adult Concession	1617	20	32340
3	Kids	99739	20	1994780
4	Adults	407611	30	12228330
5	Camera	1698	30	50940
6	Video	20	50	1000
Total Income (Rs)				15446040
Total Expenditure (Rs)				11694000

13. Daily feed Schedule of animals*

Sl.No.	Species	Feed item
1	Jungle cat	Dressed chicken
2	Indian Crested Porcupine	Cucumber, Tomato, Carrot, Potato, Banana, Cabbage
3	Asian Palm Civet	Dressed chicken
4	Bonnet Macaque	Banana, Rice, Milk, Bread, Tomato
5	Emu	Banana, Cucumber, Cabbage, Onion, Bird feed, Rice, Poultry feed
6	Indian Peafowl	Banana, Cucumber, Cabbage, Onion
7	Barn Owl	Dressed chicken
8	Brown Fish Owl	Dressed chicken
9	Black Kite	Dressed chicken
10	White Necked Stork	Dressed chicken
12	Rose ringed Parakeets	Banana, Tomato
13	Love Birds	Millets
14	Silver Pheasant	Poultry feed
15	Monitor Lizards	Dressed chicken
16	Mugger	Dressed chicken
17	Snakes	Live chick, White Mice, Geckos, Lizards, Frogs

*Quantity: According to the requirement of Individual animal

14. Vaccination Schedule of animals

Sl.No.	Species	Disease vaccinated for	Name of the Vaccine and dosage/ quantity used	Periodicity	Remarks
1	Jungle Cat	Rabies	Raksharab	Annually	Healthy and Vaccinated
2	Silver Pheasant	New castle	New castle disease Vaccine	Annually	Healthy and Vaccinated

15. De-worming Schedule of animals

Sl.No.	Species	Drug used	Month
1	Primates	Albendazole	December
		Fenbendazole	June
2	Felidae (Jungle cats)	Albendazole	October
		Fenbendazole	April
3	All birds	Albendazole	September
		Fenbendazole	March
4	All reptiles	Albendazole	October
		Fenbendazole	April

16. Disinfection Schedule

Sl.No.	Species and Type of enclosure	Disinfectant used and method	Frequency of disinfection
1	Applicable to all enclosures	Kohrsolin According to the product information	Fortnightly
2		Potassium permanganate Foot dips are installed in some enclosures and construction work is in progress for remaining enclosures	Daily
3		Sokrena Dose @1ml / 50litre	Monthly

17. Health Check-up of employees for zoonotic diseases

Sl.No.	Name	Designation	Date of Health Check up	Findings of Health Check up
1	Recently a Health Advisory Committee for Parassinikkadavu Snake Park has been constituted and meeting was also held on 18 th June, 2018. Parassinikkadavu Snake Park made an agreement with DDRC SRL diagnostic Private limited, Kannur for the complete health checkup of employees and check up for zoonotic disease like Brucellosis and Tuberculosis.			

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

- A new lavatory complex and feeding room has been opened for the visitors
- A new exit gate has been opened for the Parassinikkadavu Snake Park & Zoo.
- Maintenance work of all cages had been finished.
- Veterinary Infrastructure and facility: A separate Post mortem and treatment room has been constructed for Parassinikkadavu Snake Park & Zoo.
- Enrichment of snake enclosures had been completed.
- New signage boards had been erected in various locations in zoo.
- The work of new perimeter wall for the Parassinikkadavu Snake Park & Zoo has been started.

Appendix attached: PSP01 to PSP04

19. Education and Awareness programmes during the year

- Parassinikkadavu Snake Park & Zoo celebrated the 'World Snake Day 2017' by conducting two day Seminar and a 'Quiz Programme' for the Upper Primary Students in which 29 students from various schools of Kannur district participated.
- The Children's day on November 14 was celebrated by inviting students of Dayanikethan Special School, Dharmasala and providing them educational class on inhabitants of the Zoo.
- Newyear Celebration was conducted by inviting students of Kanhirangad A. L. P. School and providing them an informative and interactive session at the park.
- Observed Army Day on January 15 by inviting 195 NCC Cadets and 42 staff from All India Annual Training Camp at Indian Naval Academy, Ezhimala in which various cadets from all over India participated.
- On 26th January, Republic Day, Students from Koonam A. L.P. School are invited to the Snake Park and awareness programme and cultural activities were conducted.
- Parassinikkadavu Snake Park & Zoo observed 'World Earth Day' by conducting 'Painting Competition' regarding the theme Plastic Pollution. A total of 54 students participated in various categories and prizes, certificate and mementos were given to the winners.
- World Turtle Day was observed on May 23rd by erecting posters regarding the importance of conservation of turtles.

- h) The 'World Environment Day' was celebrated at Parassinikkadavu Snake Park by planting saplings at Snake park premises. Also saplings were distributed among the visitors and a 'Selfie contest' will be conducted with the grown saplings after two months. The contest and feedback is planned to ensure that the visitors are properly caring the saplings we provided.

Appendix attached: PSP05 to PSP09

20. Important Events and happenings

- a) A painting competition was conducted by Parassinikkadavu Snake Park on April 22nd, World Earth Day for School students. A total of 54 students participated in various categories and prizes, certificate and mementos were given to the winners.
- b) Saplings were planted and distributed to the visitors on June 5th, World Environment Day by Parassinikkadavu Snake Park. A 'Selfie contest' will be conducted with the grown saplings after two months. The contest and feedback is planned to ensure that the visitors are properly caring the saplings we provided.
- c) Inaugurated new lavatory complex, a feeding room and a separate Exit gate for the public on 2nd June 2018.
- d) FIFA world cup 2018 prediction contest is launched for the visitors.

Appendix attached: PSP10

21. Seasonal special arrangements for upkeep of animals

a) Monsoon:

- (i) Additional covering is provided to prevent rainwater from entering the enclosures where ever it is necessary.
- (ii) Additional drainage is provided for proper draining of rainwater.
- (iii) Changes in diet are also made according to the monsoon season.

b) Summer:

- (i) Cooling of animals by sprinkling water at warm hours of the day
- (ii) Diet: Included fruits like Watermelon in diet of Bonnet Macaque and Birds. Reduced the amount of grains provided to the animals.
- (iii) A wall fan is provided for the species King Cobra

22. Research Work carried out and publications

Sl. No	Name of the researcher	Title of the research	Name of the Institution	Year
1	Mr. Marinath L.	Influence of environmental, biological variables and feeding enrichment on the behavioural and physiological stress of Jungle cat (<i>Felis chaus</i>) in the zoos of Kerala	A.V.C. College (Autonomous), Mannampandal, Mayiladuthurai- 609 305.	April 2017
2	Ms. Espirita Rose Francis	Development of lateral flow device for species identification and	Rajeev Gandhi Centre for Biotechnology, Trivandrum	On going

		quantification of venom by mobile phone application		
3	Ms. Megha P.	A study on checking efficiency of Thumburmoozhi model aerobic compost unit of Parassinikkadavu Snake Park.	Department of Environmental Studies, Kannur University Campus, Mangattuparamba - 670567	On going
4	Ms. Athira M.	Screening of <i>Python molurus</i> species of Parassinikkadavu Snake Park for gastrointestinal endoparasites.	Department of Environmental Studies, Kannur University Campus, Mangattuparamba - 670567	On going

Appendix attached: PSP11

23. Conservation Breeding Programme of the Zoo

Not applicable

24. Animal acquisition / transfer / exchange during the year

No transfer / Exchange happened during the year 2017 - 2018

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

Reference: F. No: PSP/ 2018/CZA/ 06- 04 dated 13. 06. 2018 (Letter to Chief Wildlife Warden, Kerala)

Appendix: PSP18

26. Annual Inventory of animals

Ref: F. No. PSP/ 02-2018 dated 22nd April 2018

F. No: PSP/ 2018/CZA/ 06- 07 dated 13th June 2018

Appendix: PSP12 to PSP20

27. Mortality of animals

Sl. No.	Animal Name (with individual identification mark, if any)	Scientific Name	Sex	Date of Death	Reason of Death as per the Post-mortem report
1	Civet Common Palm- Cat todody	<i>Paradoxurus hermaphroditus</i>	M	19.05. 2017	Shock due to bleeding
2	Krait Common Indian	<i>Bungarus caeruleus</i>	F	12.06.2017	Died soon after birth
3	Krait Common Indian	<i>Bungarus caeruleus</i>	M	12.06.2017	Died soon after birth

4	Angel Fish	<i>Pterophyllum</i>	U	03.07.2017	Anoxia (Filter problem)
5	Angel Fish	<i>Pterophyllum</i>	U	03.07.2017	Anoxia (Filter problem)
6	Indian crested Porcupine	<i>Hystrix indica</i>	M	17.08.2017	Trauma & Shock
7	Neon Tetra/Zebra	<i>Paracheirodon innesi</i>	U	20. 09.2017	Anoxia (Accidental leakage of tank)
8	Neon Tetra/Zebra	<i>Paracheirodon innesi</i>	U	20. 09. 2017	Anoxia (Accidental leakage of tank)
9	Sucker Fish	<i>Echeneis naucrates</i>	U	13.10. 2017	Shock (sudden change in temperature and pH)
10	Snake Trinket	<i>Coelognathus helena</i>	F	29. 11.2017	Trauma & Shock
11	Snake Trinket	<i>Coelognathus helena</i>	F	03.12.2017	Trauma & Shock
12	Cat jungle	<i>Felis chaus</i>	F	09. 12.2017	Toxaemia
13	Monitor lizard/ Common Indian	<i>Varanus bengalensis</i>	M	29.12.2017	Multiple injuries, Trauma & Shock
14	Monitor lizard/ Common Indian	<i>Varanus bengalensis</i>	M	31.12.2017	Multiple injuries, Trauma & Shock
15	Snake Keelback checkered	<i>Xenochrophis piscator</i>	F	07.01.2018	Anaemia (Severe worm load)
16	Python Indian- Rock	<i>Python molurus</i>	M	18. 01. 2018	Cestodiosis
17	Bonnet Macaque	<i>Macaca radiata</i>	F	05.02.2018	Pneumonia
18	Cat jungle	<i>Felis chaus</i>	M	20.02.2018	Toxaemia due to renal failure
19	Viper Russell's	<i>Daboia russellii</i>	M	25.02.2018	Anaemia, Emaciation
20	Snake Trinket	<i>Coelognathus helena</i>	F	11.03.2018	Anaemia (Severe worm load)
21	Cobra Indian	<i>Naja naja</i>	M	14.03.2018	Haemorrhagic enteritis

Appendix: PSP19

28. Compliance with conditions stipulated by the Central Zoo Authority

Appendix: PSP21 to PSP29

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

a. Mammals

Sl.No	Common Name	Scientific name
1	Indian grey mongoose	<i>Herpestes edwardsii</i>
2	Asian house shrew	<i>Suncus murinus</i>

3	Brown rat	<i>Rattus norvegicus</i>
4	Indian palm squirrel	<i>Funambulus palmarum</i>

b. Birds

SI.No	Common Name	Scientific name
1	House crow	<i>Corvus splendens</i>
2	Jungle crow	<i>Corvus macrorhynchos</i>
3	House Sparrow	<i>Passer domesticus</i>
4	Indian Robin	<i>Saxicoloides fulicatus</i>
5	White browed Wagtail	<i>Motacilla maderaspatensis</i>
6	Ashy Prinia	<i>Prinia socialis</i>
7	Cattle egret	<i>Bubulcus ibis</i>
8	Black Kite	<i>Milvus migrans</i>
9	Brahminy Kite	<i>Haliastur indus</i>
10	Barn Owl	<i>Tyto alba</i>
11	Rose ringed patakeet	<i>Psittacula krameri</i>
12	Coppersmith Barbet	<i>Psilopogon haemacephalus</i>
13	White throated kingfisher	<i>Halcyon smyrnensis</i>
14	Greater Coucal	<i>Centropus sinensis</i>
15	Spotted dove	<i>Spilopelia chinensis</i>

c. Reptiles

SI.No	Common Name	Scientific name
1	Common garden lizard	<i>Calotes versicolor</i>
2	Brahminy skink	<i>Mabuya carinata</i>
3	Bengal Monitor	<i>Varanus bengalensis</i>
4	Common vine snake	<i>Ahaetulla nasuta</i>
5	Buffstriped Keelback	<i>Amphiesma stolatum</i>
6	Common Rat Snake	<i>Ptyas mucosa</i>
7	Ornate flying snake	<i>Chrysopelea ornata</i>
8	Common Bronzeback Tree Snake	<i>Dendrelaphis tristis</i>

Appendix:PSP01

18. Developments Works carried out in the zoo during 2017 -2018

a) New Lavatory Complex and feeding room



b) New Exit gate of Parassinikkadavu Snake Park



Appendix: PSP02

d) Veterinary infrastructure:



Postmortem room



Treatment room



Appendix: PSP03

e) Enriched Snake enclosures



Appendix: PSP04

f) New signage boards erected in Parassinikkadavu Snake Park



Appendix: PSP05

19. Education and awareness program during 2017 - 2018

a) World Snake Day celebration, 2017



Appendix: PSP06

b) Children's day celebration, 2017



c) New year celebration, 2018



d) Army day observance, 2018



Appendix:PSP07

f) World Earth day Observance, 2018

Painting competition conducted on April 22nd ,2018



Appendix: PSP08

g) World Turtle day observance, 2018

WORLD TURTLE DAY, May 23

CELEBRATE FRESHWATER & MARINE TURTLES AND TORTOISES

KNOW THE DIFFERENCE BETWEEN TURTLES AND TORTOISES

SEA TURTLE	TORTOISE	TERRAPINS OR FRESHWATER TURTLES
Aquatic	Terrestrial	Semi-terrestrial
Carnivorous, omnivorous, herbivorous	Herbivorous, few omnivorous	Carnivorous, herbivorous
Webbed feet for swimming	Short sturdy feet and strong legs for digging soil	Webbed feet with strong broad claws to climb out of water
Flatter carapace reduces drag in water	Domed carapace aids defensive protection	Oblong between flat and domed



OLIVE RIDLEY



STAR TORTOISE



BLACK TURTLE

MAJOR THREATS TO TURTLES AND TORTOISES

SMUGGLING FOR MEAT, EGGS AND PET TRADE / HABITAT DESTRUCTION AND POLLUTING THE OCEANS




- Over 25,000 live turtles were confiscated from smugglers yearly. In addition to live specimens, thousands of sea turtle eggs are dug up and sold as delicacies.
- Polluting the river or ocean leads to deformed hatchlings; plastics eaten by the turtles; disappearance of main food sources.

CONSERVING TURTLES AND TORTOISES

- The "turtle walks" involve many local people who carefully dig up the nests along the beaches and take the eggs to a protected spot to make sure the eggs are not stolen or eaten and hatchlings released safely.
- Creation of protected areas where endangered river turtles are kept secluded from the greater environment in order to protect them from smugglers and monitor their breeding.




Appendix: PSP09

h) World Environment Day celebration, 2018



Appendix: PSP10

20. Important events and happenings

a) Painting competition on World Earth day



b) Saplings distribution on June 5th, 2018



d) FIFA world Cup 2018 Prediction Contest





Appendix: PSP11


Influence of environmental, and biological variables and feeding enrichment on the behaviour and physiological stress of Jungle cats (*Felis chaus*) in the zoos of Kerala

*A dissertation submitted to
A.V.C. College (Autonomous) Mannampandal,
(Affiliated to the Bharathidasan University, Tiruchirappalli) in
partial fulfillment of the requirements for the degree of*

**MASTER OF SCIENCE
IN
WILDLIFE BIOLOGY**

*Submitted by
Mr. L. Marinath
(Reg. No. P15 7703)*



Post Graduate and Research Department of Zoology and Wildlife Biology
A.V.C. COLLEGE (AUTONOMOUS),
NAAC Reaccredited "A" Grade Institution (CGPA = 3.34 / 4.00)
UGC recognized "College with Potential for Excellence"
Mannampandal, Mayiladuthurai - 609305

April 2017



PARASSINIKKADAVU SNAKE PARK & MINI ZOO
(A Unit of Pappinisseri Vishachikilsa Society No. S. 47 / 73)
PARASSINIKKADAVU - 670 563 : KERALA
Phone: 0497 2780738 Mob: +91 9400399000 Fax: 0497 2783631
Email: mail@thesnakepark.com Visit us www.thesnakepark.com

Date: 26-04-2017

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. L. Marinath, studying MSc Wildlife Biology from A.V.C. College, Mayiladuthurai, Tamilnadu has completed his dissertation work on Jungle cats titled "The effect of Feeding enrichment on Stress and Behavioural diversity on Captive Jungle Cats *Felis chaus*" in our Snake park, Parassinikkadavu during a period from 11th December, 2016 to 24th December, 2016.




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Veterinary Officer
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Appendix: PSP12

PARASSINIKADAVU SNAKE PARK – INVENTORY REPORT: 2017-2018

Endangered species		Part-1A																														
S. No	Animal name	Scientific name	Opening stock as on 01-04-2017						Acquisitions						Disposals						Death						Closing stock as on 31-03-2018					
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T				
Birds																																
1.	Peafowl	<i>Pavo cristatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2				
Total birds			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2				
Reptiles																																
1.	Cobra King	<i>Ophiophagus hannah</i>	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2					
2.	Cobra Indian	<i>Naja naja</i>	13	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17					
3.	Python Indian rock	<i>Python molurus</i>	13	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19					
4.	Viper Russell's	<i>Daboia russelii</i>	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5					
6.	Keel back Checkered	<i>Xenochrophis piscator</i>	7	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10					
7.	Crocodile Marsh (Mugger)	<i>Crocodylus palustris</i>	21	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26					
8.	Monitor Lizard/ Common Indian	<i>Varanus bengalensis</i>	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2					
Total reptiles			59	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81					

Appendix: PSP14

PARASSINIKADAVU SNAKE PARK – INVENTORY REPORT: 2017-2018

Other than endangered species		Part-1B													
S. No	Animal name	Scientific name	Opening stock as on 01-04-2017						Closing stock as on 31-03-2018						
			M	F	U	T	M	F	U	T	M	F	U	T	
Birds															
1.	Owl Barn	<i>Tyto alba</i>	1	0	0	1	0	0	0	0	0	0	0	0	1
2.	Owl Fish	<i>Kelupa zeylonensis</i>	0	1	0	1	0	0	0	0	0	0	0	0	1
3.	Kite Pariah/ Black Kite	<i>Milvus migrans govind</i>	5	2	0	7	0	0	0	0	0	0	0	2	7
4.	Stork White neck	<i>Ciconia episcopus</i>	0	1	0	1	0	0	0	0	0	0	0	1	1
5.	Parakeet Rose Ringed	<i>Psittacula krameri</i>	0	0	0	0	0	0	16	9	0	0	0	16	25
6.	Love Birds	<i>Agapornis</i>	0	0	0	0	0	0	3	5	0	0	0	3	8
7.	Pheasant Silver	<i>Lophura nycthemera</i>	0	0	0	0	0	0	1	1	0	0	0	1	2
8.	Emu	<i>Dromaius novaehollandiae</i>	0	0	0	0	0	0	2	4	0	0	0	2	6
Total birds			6	4	0	10	0	0	22	19	0	0	0	28	51
Reptiles															
1.	Snake Rat Dhaman	<i>Ptyas mucosus</i>	10	7	0	17	0	0	0	0	0	0	0	10	17
2.	Krait Common Indian	<i>Bungarus caeruleus</i>	1	1	0	2	1	2	0	0	0	1	1	2	3
3.	Sand Boa Red	<i>Eryx johnii</i>	0	1	0	1	0	0	0	0	0	0	0	1	1
4.	Sand boa Common	<i>Gongylophis conicus</i>	1	1	0	2	0	0	0	0	0	0	1	1	2

Appendix: PSP18

ACQUISITION REPORT OF THE YEAR 2017 – 2018

Animal name	Scientific name	No. of individuals				Date of acquisition	Remarks
		M	F	T	T		
Indian Peafowl	<i>Pavo cristatus</i>	0	1	1	1	20.01.2016	Shifted from Piikula Biological Park for treatment
Indian Peafowl	<i>Pavo cristatus</i>	1	0	1	1	10.05.2017	Rescued from Thaliyil in Kannur district
Silver Pheasant	<i>Lophura nychthemera</i>	1	1	2	2	13.06.2017	From Bellar road, Kannur district
Rose ringed parakeet	<i>Psittacula krameri</i>	16	9	25	25	28.12.2016	Rescued from Kambilikkadavu, a village in Kannur district
Love birds	<i>Agapornis</i>	3	5	8	8	23.05.2016	From Keecheril, Kannur
Emu	<i>Dromaius novaehollandiae</i>	2	4	6	6	07.10.2016	From Karuvanchal, Alakkode, Kannur
Snake Trinket	<i>Coelognathus helena</i>	0	2	2	2	13.08.2017	Rescued from a house at Morazha, a village in Kannur
Snake Trinket	<i>Coelognathus helena</i>	0	3	3	3	08.10.2017	Rescued from a house at Keezhara in Kannur district
Cat Jungle	<i>Felis chaus</i>	0	1	1	1	07.07.2017	Rescued from a well at Cherukunnu, a village in Kannur
Cat Jungle	<i>Felis chaus</i>	1	1	2	2	01.09.2017	Rescued from a house at Kurumatoor in Kannur district
Monitor lizard	<i>Varanus bengalensis</i>	1	0	1	1	19.09.2017	Rescued from a house at Thaluwayal, a village in Kannur
Monitor lizard	<i>Varanus bengalensis</i>	1	0	1	1	08.10.2017	Rescued from a house at Valakaj, Kannur district



 Director (Animals)



 DIRECTOR
 PARASSINIKKADAVU SNAKE PARK
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 KANNUR - 670 563

Appendix: PSP19

DEATH REPORT FOR THE YEAR 2017-2018

Sl. No	Animal name	Scientific name	Sex	Date of death	Reason of death
1	Civet Common Palm- Cat toddy	<i>Paradoxurus hermaphroditus</i>	M	19.05.2017	Shock due to bleeding
2	Krait Common Indian	<i>Bungarus caeruleus</i>	F	12.06.2017	Died soon after birth
3	Krait Common Indian	<i>Bungarus caeruleus</i>	M	12.06.2017	Died soon after birth
4	Angel Fish	<i>Pterophyllum</i>	U	03.07.2017	Anoxia (Filter problem)
5	Angel Fish	<i>Pterophyllum</i>	U	03.07.2017	Anoxia (Filter problem)
6	Indian crested Porcupine	<i>Hystrix indica</i>	M	17.08.2017	Trauma & Shock
7	Neon Tetra/Zebra	<i>Paracheirodon innesi</i>	U	20.09.2017	Anoxia (Accidental leakage of tank)
8	Neon Tetra/Zebra	<i>Paracheirodon innesi</i>	U	20.09.2017	Anoxia (Accidental leakage of tank)
9	Sucker Fish	<i>Echeneis naucrates</i>	U	13.10.2017	Shock (sudden change in temperature and pH)
10	Snake Trinket	<i>Coelognathus helena</i>	F	29. 11.2017	Trauma & Shock
11	Snake Trinket	<i>Coelognathus helena</i>	F	03.12.2017	Trauma & Shock
12	Cat jungle	<i>Felis chaus</i>	F	09. 12.2017	Toxaemia
13	Monitor lizard/ Common Indian	<i>Varanus bengalensis</i>	M	29.12.2017	Multiple injuries, Trauma & Shock
14	Monitor lizard/ Common Indian	<i>Varanus bengalensis</i>	M	31.12.2017	Multiple injuries, Trauma & Shock
15	Snake Keelback checkered	<i>Xenochrophis piscator</i>	F	07.01.2018	Anaemia (Severe worm load)
16	Python Indian- Rock	<i>Python molurus</i>	M	18. 01. 2018	Cestodiosis
17	Bonnet Macaque	<i>Macaca radiata</i>	F	05.02.2018	Pneumonia
18	Cat jungle	<i>Felis chaus</i>	M	20.02.2018	Toxaemia due to renal failure
19	Viper Russell's	<i>Daboia russelii</i>	M	25.02.2018	Anaemia, Emaciation
20	Snake Trinket	<i>Coelognathus helena</i>	F	11.03.2018	Anaemia (Severe worm load)
21	Cobra Indian	<i>Naja naja</i>	M	14.03.2018	Haemorrhagic enteritis

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Veterinary Officer


DIRECTOR
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Appendix: PSP20

BIRTH REPORT FOR THE YEAR 2017-2018

S. No	Animal Name	Scientific Name	Date of birth	Sex
1	Krait Common Indian	<i>Bungarus caeruleus</i>	12.06.2017	F
2	Krait Common Indian	<i>Bungarus caeruleus</i>	12.06.2017	F
3	Krait Common Indian	<i>Bungarus caeruleus</i>	12.06.2017	M
4	Bonnet Macaque	<i>Macaca radiata</i>	23.02.2018	M

CURRENT AREA OF THE PARASSINIKKADAVU SNAKE PARK (IN HECTARES)	0.993698
NUMBER OF VISITORS FOR THE FINANCIAL YEAR 2017- 2018:	
ADULTS	407611
CHILDREN	99739
TOTAL	507350




 Director
 PARASSINIKKADAVU SNAKE PARK
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 KANNUR - 570 563

Appendix: PSP21

Proceedings of the Hearing Representative of the Parassinikkadavu Snake Park, Andoor Village, Kannur District, Kerala, under section 38H (6) of the Wild Life (Protection) Act, 1972

Chaired by the member Secretary, Central Zoo Authority

Central Zoo Authority, Pt. Deendayal Antyodaya Bhawan, CGO Complex, Lodi Road, New Delhi-110003.

Notice No: 23-47/ 94-CZA(369) (Vol. VIII) (AK) 2952/ 2018 dated 18.04.2018.

Sl.	Norm No. Under RZR, 2009	Particulars of violation of the Recognition of Zoo Rules, 2009	Since when pending	Submission by the Zoo Operator
1. General requirements				
1	10.1(3)	Failed to regulate the visitors' circulation at few animal enclosures in the zoo with specific reference to enclosure for Bonnet macaques. 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.	06.02.2006	It has been complied. We restricted the visitor's circulation at Bonnet Macaque enclosure by using chains. Gardening is done at the chained area to reduce the Visitor's path to prescribed standard. Hedge Plantation is also done so that adequate withdrawal area is available to the animal. Photographs of the same are provided.
2	10.1(5)	Failed to ensure perimeter wall of prescribed standard. The perimeter wall is damaged and fallen at few places.	06.02.2006	The damage occurred to the perimeter wall was due to fallen down branch of a tree. The perimeter wall had been repaired immediately after inspection. Tender has been given to build new perimeter wall of required dimension for the Parassinikkadavu Snake Park. The work is in progress. The perimeter wall can be repaired part by part and it requires six months to complete the work.
3	10.1(7)	Failed in management of solid and liquid wastes generated in the zoo. It is poor. Thus affecting the general hygiene. Plastic and other wastes found strewn on the zoo campus. Compost Unit started recently is an appreciable initiative. However, it is completely disproportionate to the quantity of waste generated. Huge dump of waste in such close proximity to animal enclosures is not acceptable.	06.02.2006	Plastic waste management: Plastic wastes are collected weekly from the anthoor municipality under the scheme 'Clean Andoor Green Andoor.' Organic waste management: Thumboormuzhi model compost unit is used for the removal of organic wastes. The duration for obtaining compost is one month. Will make necessary arrangement for efficient disposal of solid and liquid waste generates in the zoo within three months.

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Appendix: PSP22

Sl.	Norm No. Under RZR, 2009	Particulars of violation of the Recognition of Zoo Rules, 2009	Since when pending	Submission by the Zoo Operator
4	10.1(9)	Housed domestic species (Turkey fowl, Geese, swan, Guinea fowl, Pigeon) in the zoo.	06.02.2006	It has been complied. Removed domestic species housed in the zoo on November 25th 2017. Landscaping and gardening work had been done at the area where domestic birds were housed and currently the area is transformed into a garden where visitors can relax. In future, the zoo would not house domestic species.
3.Development and Planning				
5	10.3(1)	Failed to submit Master Plan for approval of the CZA.	02.07.2008	Parassinikkadavu Snake park had prepared a master layout plan. The master (Layout) plan had been approved by the CZA (F. No: 23-47/94- CZA (369) (Vol. VI) (M)/ 4391 dated 21.02 .2014. The preparation of Master plan is in progress. MasterPlan had been submitted for scrutiny of CZA and returned with valid suggestions. (F. No: PSP/ M. Plan/ 11/ 2016 dated 19.08. 2016). Architect Mr. Jitendra Singh is working as the consultant for preparation of Master Plan. Will be complied within three months.
6	10.3(3)	Furnished incorrect information in the approved Master (Layout) Plan of the proposed Rescue Centre. It is observed during evaluation that the site proposed for Rescue Centre as a satellite facility of the zoo is with plantation and no construction was observed. However, the Master (Layout) Plan of the Parassinikkadavu Snake Park (Rescue Centre), Kurumattur approved by the Central Zoo Authority and signed on 28.05.2014 indicates otherwise. Index No.RQ 17 of the Layout Plan indicates presence of 'Existing Rescue Home'. The Zoo Operator should amend the Master (Layout) Plan of the proposed Rescue Centre following the Guidelines in the matter, indicating factual status. It	18.04.2018	In the Master (Layout) Plan of the Parassinikkadavu Snake Park (Rescue Centre), Kurumattur approved by Central Zoo Authority we meant 'Proposed Rescue Home' instead of 'Existing Rescue Home'. In fact, we never intended to furnish incorrect information in the Master (Layout) Plan. It was an error and we meant 'Proposed Rescue Centre' in lieu of Existing Rescue Home. We would amend the Master (Layout) Plan of the proposed Rescue Centre following the Guidelines in the matter, indicating factual status. And it would be forwarded through the Chief Wildlife Warden of the state to the Centrai Zoo Authority for approval as suggested. It will be complied within three months.

Appendix: PSP23

Sl.	Norm No. Under RZR, 2009	Particulars of violation of the Recognition of Zoo Rules, 2009	Since when pending	Submission by the Zoo Operator																																								
		should be forwarded through the Chief Wildlife Warden of the State to the Central Zoo Authority for approval.																																										
7	10.3(6)	Failed to prepare Animal Collection Plan based on the Concept Plan provided by the Central Zoo Authority in the Facilitation Workshop in year 2009 directing the zoo operator to restrict the Animal Collection to Reptiles of the region.	04.02.2009	Animal Collection Plan is already prepared keeping in mind the concept plan provided by the Central Zoo Authority. We would like to keep the species currently in the collection as such and more reptiles are included in future collection plan. It would be submitted along with the master plan for approval from CZA. It will be complied within three months. The term 'Mini' will be removed from name of the zoo to avoid ambiguity.																																								
8	10.3(7)	The zoo has rescued animals for which it does not have infrastructure facility for housing, upkeep and veterinary care.	04.02.2009	The Zoo rescued those injured animals, only because it is injustice to deny treatment. Complied immediately.																																								
9	10.3(8)	Not reported to the Chief Wildlife Warden of the State and the Central Zoo Authority regarding acquisition of animals pertaining to endangered species (Jungle cat, Monitor lizard, Trinket snake, Peafowl, Silver pheasant and Parakeets) by way of rescue.	06.02.2006	<p>The rescued animals succumbed to death due to various issues at different time period since November, 2017.</p> <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Date</th> <th>Species</th> <th>Sex</th> <th>Reason of death</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>29.11.2017</td> <td>Trinket</td> <td>F</td> <td>Trauma, Shock</td> </tr> <tr> <td>2.</td> <td>03.12.2017</td> <td>Trinket</td> <td>F</td> <td>Trauma, Shock</td> </tr> <tr> <td>3.</td> <td>09.12.2017</td> <td>Jungle Cat</td> <td>F</td> <td>Toxaemia</td> </tr> <tr> <td>4.</td> <td>29.12.2017</td> <td>Monitor Lizard</td> <td>M</td> <td>Multiple injuries, shock</td> </tr> <tr> <td>5.</td> <td>31.12.2017</td> <td>Monitor Lizard</td> <td>M</td> <td>Multiple injuries, shock</td> </tr> <tr> <td>6.</td> <td>20.02.2018</td> <td>Jungle Cat</td> <td>M</td> <td>Toxaemia (Renal failure)</td> </tr> <tr> <td>7.</td> <td>11.03.2018</td> <td>Trinket Snake</td> <td>F</td> <td>Anaemia (worm load)</td> </tr> </tbody> </table> <p>Forthwith, every acquisition by way of rescue will be informed to the Chief Wildlife Warden and the CZA. Animals found fit for release will be released in the wild in the presence of Forest Officials and records will be maintained as per legal provisions in the matter.</p>	Sl. No.	Date	Species	Sex	Reason of death	1.	29.11.2017	Trinket	F	Trauma, Shock	2.	03.12.2017	Trinket	F	Trauma, Shock	3.	09.12.2017	Jungle Cat	F	Toxaemia	4.	29.12.2017	Monitor Lizard	M	Multiple injuries, shock	5.	31.12.2017	Monitor Lizard	M	Multiple injuries, shock	6.	20.02.2018	Jungle Cat	M	Toxaemia (Renal failure)	7.	11.03.2018	Trinket Snake	F	Anaemia (worm load)
Sl. No.	Date	Species	Sex	Reason of death																																								
1.	29.11.2017	Trinket	F	Trauma, Shock																																								
2.	03.12.2017	Trinket	F	Trauma, Shock																																								
3.	09.12.2017	Jungle Cat	F	Toxaemia																																								
4.	29.12.2017	Monitor Lizard	M	Multiple injuries, shock																																								
5.	31.12.2017	Monitor Lizard	M	Multiple injuries, shock																																								
6.	20.02.2018	Jungle Cat	M	Toxaemia (Renal failure)																																								
7.	11.03.2018	Trinket Snake	F	Anaemia (worm load)																																								
4. Animal housing, display of animals and animal enclosures																																												

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4.5.18

Appendix: PSP24

Sl.	Norm No. Under RZR, 2009	Particulars of violation of the Recognition of Zoo Rules, 2009	Since when pending	Submission by the Zoo Operator
10	10.4(2)	Failed to house animals in enclosures in conformity with design and dimension as specified by the CZA.	04.02.2009	The preparation of MasterPlan of Parassinikkadavu Snake Park is in progress. Each enclosure with design and dimensions specified by CZA will be constructed once the approval of Master Plan from CZA is obtained. In the case of enclosure for Bonnet macaque, the Animal House will be provided outside the caged enclosure as per norms prescribed by the CZA and the feed will be provided to animals within the Animal House. Design of enclosures for endangered species will be submitted to the CZA for approval, as per approved Master Layout Plan. It will be complied within six months. In case of animals listed in Schedule III and IV of the Wild Life (Protection) Act, 1972, enclosures will be constructed following the Guidelines issued by the Central Zoo Authority.
11	10.4(2)	Failed to separate Visitors' path and Service path. Presently, most of the service area to animal enclosures is from visitors' path.	06.02.2006	The separate Service path will be provided within three months.
12	10.4(3)	Failed to ensure safety of animals, personnel involved in upkeep of animals and visitors. It is observed that service entry to animal enclosure is not locked in one case.	06.02.2006	It has been complied. The service entries to animal enclosure are properly locked. All the enclosures are having separate lock and keys. Enclosed photos.
13	10.4(6)	Failed to provide natural enrichment to Bonnet macaques. Tin sheets and rubber tyres provided as enrichment in the enclosure.	26.09.2016	It has been complied. Replaced the tin sheets and rubber tyres given as enrichment in the Bonnet macaque enclosure with natural materials like Bamboo, thick creepers & wooden logs. Photographs are enclosed.
14	10.4(7)	Failed to screen adjacent animal enclosures.	06.02.2006	Most of the adjacent animal enclosures are screened by natural vegetation. The rest of the enclosures will be screened by plantation. It will be complied within six months.
15	10.4(8)	Failed to obtain approval from the CZA to drawing of enclosures for endangered species and housed	23.01.2014	The suggestions already given by CZA on design of enclosures may be complied and submitted for approval

4

Appendix: PSP25

Sl.	Norm No. Under RZR, 2009	Particulars of violation of the Recognition of Zoo Rules, 2009	Since when pending	Submission by the Zoo Operator
		animals in sub-standard enclosures.		within six months.
16	10.4(9)	There is no stand-off barrier at enclosure for Python.	11.08.2015	Stand-off barrier of dimension prescribed by the CZA will be complied in six months.
17	10.4(10)	Failed to provide signage at few enclosures.	23.01.2014	It has been complied. New signage boards describing the names in different languages have been erected at the enclosures. The signage will be erected at appropriate location.
5. Upkeep and healthcare of animals				
18	10.5(2)	Failed to prepare and implement the Diet Schedule.	06.02.2006	Diet Schedule for all species will be prepared and will e-mail to the CZA. Also, the Diet Schedule will be implemented and records will be maintained.
19	10.5(5)	Failed to prepare and implement the Schedule for disinfection of enclosures.	06.02.2006	Schedule for disinfection of enclosures is prepared. The Disinfection Schedule will be implemented and records will be maintained.
20	10.5(5)	Undeclared articles derived from wild animals (snake moults) are in possession of the zoo in the Animal Supervisor's Office.	06.02.2006	Necessary permission for keeping articles derived from wild animals will be obtained from the Chief Wildlife Warden of the State under Section 12 of the Wild Life (Protection) Act, 1972, for education purpose.
21	10.5(8)	Failed to prepare and implement the Schedule for vaccination and other prophylactic measures.	06.02.2006	Deworming Schedule is prepared and enclosed. Schedule for Vaccination and other prophylactic measures will also be prepared and submitted to the CZA within three months.
22	10.5(9)	Failed to screen staff involved in upkeep of animals against zoonotic diseases.	26.09.2016	Screening of staff against Zoonotic diseases will be done in 15 days and reports will be produced to the CZA.
23	10.5(10)	Records of the animals (Animal History Card, Keeper's Diary, Daily Report and Treatment Card) are not being maintained in format prescribed by the Central Zoo Authority.	23.01.2014	It has been complied. Keeper's Diary, Daily Report and Treatment Card were maintained in the Parassinikkadavu Snake park but not in CZA format. All the records are changed to the CZA format. The copy of the Keeper's Diary & Daily Report is submitted in Appendix. Will furnish all the pages of the Animal Treatment Card. Animal History Card will also be prepared and maintained

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17.5.18

Appendix: PSP26

Sl.	Norm No. Under RZR, 2009	Particulars of violation of the Recognition of Zoo Rules, 2009	Since when pending	Submission by the Zoo Operator
				in the format prescribed by the Central Zoo Authority. Compliance will be reported to the CZA within three months.
24	10.5(10)	Not marked animals housed in the Zoo.	06.02.2006	Appropriate marking of animals will be done as per CZA norms, within one month.
6. Veterinary and infrastructure facilities				
25	10.6(1b)	Veterinary infrastructure and manpower of the zoo is not in accordance with the norms applicable for a small category zoo.	06.02.2006	<p>Parassinikkadavu Snake Park has complied the requirement in Veterinary and infrastructure facilities to function as a Small Zoo. Director: Prof. E. Kunhiraman CEO: Mr. Avinash Girija Veterinary Officer: Dr. Anju Mohan S. Curator: Mr. Marinath M. Supervisor: Mr. Sudhakaran T. V Bindu. M.K. Educational Officer: Mr. Riyaz Mangad Zoo Keepers (4): Sajeevan O., Santhosh, Prakashan & Augustine Souvenir Shop: Sheeba P. V., Preetha R., Sheeba V. Gardeners: Sreeja, Bindhu, Beena, Preetha P., Leela, Thanka</p> <p>Curator post was vacant during the evaluation time and we appointed a Curator on 02/05/2018. Appointment order attached. Services of the Biologist in the parent Institution (MVR Ayurveda Medical College) will be availed. Compounder will be appointed within three months</p>
26	10.6(3)	No Quarantine Area and Isolation Ward in the zoo.	06.02.2006	Isolation ward is given for keeping isolated animals. Necessary infrastructure will be provided within one month for Quarantine and Isolation of mammals as well.
27	10.6(3)	Post-mortem Room, Treatment Room, Animal Supervisor's Room and live animal feed are all at one place in a congested manner. Post-mortem facility does not have provision for adequate sun light.	06.02.2006	It has been complied. Separate rooms for Post mortem and Treatment purpose have been given. The provision for adequate sunlight is made available in the post mortem Room. The photographs of Treatment Room, Post-mortem

6

Appendix: PSP27

Sl.	Norm No. Under RZR, 2009	Particulars of violation of the Recognition of Zoo Rules, 2009	Since when pending	Submission by the Zoo Operator
				Room and Live animal feed storage are attached as part of reply.
7. Post-mortem and disposal of carcasses of animals				
28	10.7(2)	Post-mortem Reports are in deviation from the format prescribed by the Central Zoo Authority. It should be adopted by the Zoo.	06.02.2006	It has been complied. The format prescribed by CZA is adopted by the Zoo for post mortem reports. A sample of the Post-mortem Report is submitted. I undertake that the Report of post-mortem examination of animals will be maintained in the zoo for last six years.
29	10.7(4)	Not designated animal carcass disposal area away from animal enclosures. Presently, animal carcass disposal is being done in a pit dug between two animal enclosures towards their rear barrier. Also, the area is stinking. More efficient disposal method should be adopted without affecting cleanliness and hygiene.	06.02.2006	Appropriate carcass disposal area will be identified in zoo premises away from animal enclosures and report on compliance will be submitted to the CZA immediately.
9. Acquisition and breeding of animals				
30	10.9(1)	King cobra (1 male : 1 female) are not housed in viable group.	06.02.2006	It has been complied. Male and Female King cobra are housed in same enclosure in viable group.
31	10.9(4)	Not paired singly housed animals. It is observed that Barn owl, Fish owl, White necked stork, Red sand boa, Trinket snake, Common wolf snake and Travancore tortoise are singly housed in the zoo.	06.02.2006	Will be complied within six months. The pairing of singly housed animals are under process with Thiruvananthapuram Zoological Gardens and Piiikula Biological Park, Mangaluru or from any other zoos with prior permission of the CZA.
32	10.9(6)	Displayed factually incorrect information to visitors. A Board with logo of the CZA as well as the zoo is displayed in the Zoo indicating Captive Breeding Project of King cobra. However, the CZA has not identified the Parassinikkadavu Snake Park either as Co-ordinating or as participating zoo for the purpose. It is informed during evaluation that the breeding is being carried out for display and not for re-stocking in the wild. The Zoo Operator should ensure that factually correct information is	06.02.2006	It has been complied. The board mentioning 'Captive Breeding Project of King Cobra' has been removed.

7

12.5.18

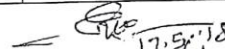
Appendix: PSP28

Sl.	Norm No. Under RZR, 2009	Particulars of violation of the Recognition of Zoo Rules, 2009	Since when pending	Submission by the Zoo Operator
		provided to visitors.		
11. Education and outreach activities				
33	10.11(2)	Physical handling of snakes is part of the educational activity undertaken by the zoo. Such sessions are being organised at regular interval in a day.	06.02.2006	It has been complied. Physical handling of snakes is omitted from the educational activity of the Zoo. The class about various types of snakes, how to identify venomous and non-venomous snakes and first aid treatment is given upon demand which does not include physical handling of snakes. I agree and undertake that no physical handling of animals for any purpose whatsoever shall be carried out except for the upkeep and healthcare of animals.
12. Visitors' facilities				
34	10.12(3)	Not provided Ramps to facilitate the physically challenged among the visitors to view animal enclosures.	06.02.2006	It has been complied. Special assistance by means of Wheel chairs is made available for the physically challenged among visitors. All the enclosures are approachable by the physically challenged people.
Rule 11. Maintenance of Records and submission of Inventory				
35	11(1)	Not reported acquisition of Jungle cat, Monitor lizard, Trinket snake, Peafowl, Silver pheasant and Parakeets in the Annual Inventory submitted to the Central Zoo Authority. Also, species housed in the Aquarium were not reported.	06.02.2006	It has been done immediately. The Zoo rescued those injured animals, only because it is not a right thing to deny treatment. Priority was given in saving those animals. The rescued animals succumbed to death due to various issues at different time period since November, 2017.
36	11(1)	Not submitted Quarterly Inventory of animals for all four quarters during year 2017-18 pertaining to endangered species, to the Central Zoo Authority.	06.02.2006	Annual Inventory for the year 2017-18 has been submitted on 30th April 2018. Annual Report and quarterly inventory Reports will be submitted from year 2018-2019 onwards without fail.
37				Future plans of the Zoo are as follows: We are consistently in surge for development and are trying to transform the snake park to a Reptile Park as per Guidelines of the CZA giving more importance to snakes. An Institute for Wildlife and

8

Appendix: PSP29

Sl.	Norm No. Under RZR, 2009	Particulars of violation of the Recognition of Zoo Rules, 2009	Since when pending	Submission by the Zoo Operator
				<p>Herpetology with UG and PG courses as well as referral services is in pipeline conceptually which would be initiated upon grant of permission from State and Central Governments. PappinisseryVishaChikitsaKendram is in pursue to establish a Centre of Excellence (CoE) in Toxicology with the support of AYUSHMinistry. Parassinikkadavu Snake Park is relentlessly trying to support Research and Development, Publications and preservation of manuscripts. Also, the Zoo is envisaging publication on the Reptiles housed in the zoo as part of awareness programme for wildlife conservation.</p>


 17.5.18
 Prof. E. Kumthiyarman