



# TAMILNADU FOREST DEPARTMENT

## AMIRTHI ZOO

### AMIRTHI, VELLORE DIVISION

# Annual Report for the year 2018-19



**2018-2019**

**ANNUAL REPORT THE YEAR**



**AMIRTHI ZOO**

**AMIRTHI, VELLORE DIVISION**

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## 1. Report of the Officer-in-charge

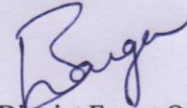
The Zoo at Amirthi was established in the year 1967 as 'Childrens Corner' by Thiru. Raja Singh, District Forest Officer and later renovated in the year 1979-1980 with a total area of 10 ha. It is located about 25km from Vellore City, inside the Thellai Reserve Forest of Amirthi range with a semi-perennial falls nearby is the only Eco-tourism place present in Vellore Forest Division.

Amirthi Zoological Park, is one of the small category zoos in Tamil Nadu recognized by Central Zoo Authority. The Zoo is situated on the outskirts of the Vellore, the sixth largest city in Tamil Nadu and it is one of the major tourist attractions in Vellore district. The Park is located at the foothills of Shevaroy's offering green panoramic view of western slopes of hills which houses a variety of Mammals, Reptiles, Birds and lower fauna. It is spread over an area of 31.73 ha with vivid landforms and vegetation.

The zoo was started with a handful collection of some local wild animals and birds. In decades past, the Park primarily served as a recreation center for people through display of popular and charismatic animals and provided educational value. The zoo needs up gradation to achieve its optimal utility.

The visitors of the zoo about 1.5 lakh annually and more than 200 schools visit the zoo annually which shows the importance of this zoo for nature education.

The zoo staff work with sincerity and devotion to their job in order to ensure healthy environment for animals. I appreciate everyone in the zoo for having made it a successful year in the maintenance of the zoo.



District Forest Officer,

Vellore Forest Division, Vellore - 9.

## 1. History of the Zoo

The Amirthi Zoo is situated in Amirthi Forest Range of Vellore Forest division, Vellore District, Tamil Nadu. It is situated inside foot hills of hills in Thellai Reserve Forest (RF) area with an intention to provide recreation and create awareness among the people regarding the importance of wildlife. The zoo was established initially as a Children's corner during the year 1967 by Thiru. G.J. Raja Singh I.F.S., then District Forest Officer, Vellore Forest Division in the Naganadhi and Goddar. With the available old buildings, the Zoo was started with small animals and birds and was kept in transportable cages. Later, spotted deer, Black Buck, Sambar was brought from Guindy Park. Later, year by year with available funds drinking water facilities, dormitory, meditation centre were constructed. In the year 1987, the system of ticket collection to visitors was introduced. The whole area measuring 10 ha, was fenced with barbed wire fencing using concrete pillars. One can travel and reach two destinations namely Jamunamarathur and Kavalur Observatory (one of the largest Observatory in Asia) via Amirthi with shortest distance through Forest and Tribal Areas. The Zoo is located about 25 km from the Vellore city and is about 150 km from Chennai. It is well connected by road and railway. This is the only Zoo present in the Vellore district and the adjoining districts of river banks of Tiruvannamalai, Dharmapuri, Krishnagiri and Tiruvallur.



## **2. Vision**

*To develop a centre for wildlife conservation, research, education for fauna and flora and a referral centre for data on wildlife of Eastern Ghats.*

## **3. Mission**

The mission statements of Amirthi Zoo carries global concern for the survival of local species and natural systems and a desire to educate the visitors, but actually to modify human behavior. Considering these, the following is the mission statement of Amirthi Zoo.

*To inspire the zoo visitors' empathy for wild animals and make them understand the need for conservation of nature and natural resources by way of practicing animal welfare, pursue research, conservation, and education".*

## **4. Objective**

The objectives of Amirthi Zoological Park are as follows:

1. To develop the zoo as an excellent exhibition and conservation centre for fauna of Eastern Ghats and to develop it as a study centre
2. To promote zoo as centre for biodiversity conservation by organizing wildlife education camps and interpretation programmes to sensitize different sections of society and enhance public awareness on wildlife
3. To inspire the zoo visitors empathy for wild animals and make them understand the need for conservation of natural resources and for maintaining the ecological balance
4. To provide research opportunity for conducting scientific studies on the fauna to enhance our knowledge on animal behavior, its biology, ecology so as to aid in scientific management of the zoo and conservation of wildlife
5. To develop eco-tourism, through trekking along the nature trails and wildlife habitats in areas surrounding the zoo
6. To provide facility for wild animals health care and develop a temporary rehabilitation centre for rescued animals
7. To create recreation facilities like boating, children's playground, develop skills for sighting animals in wild.

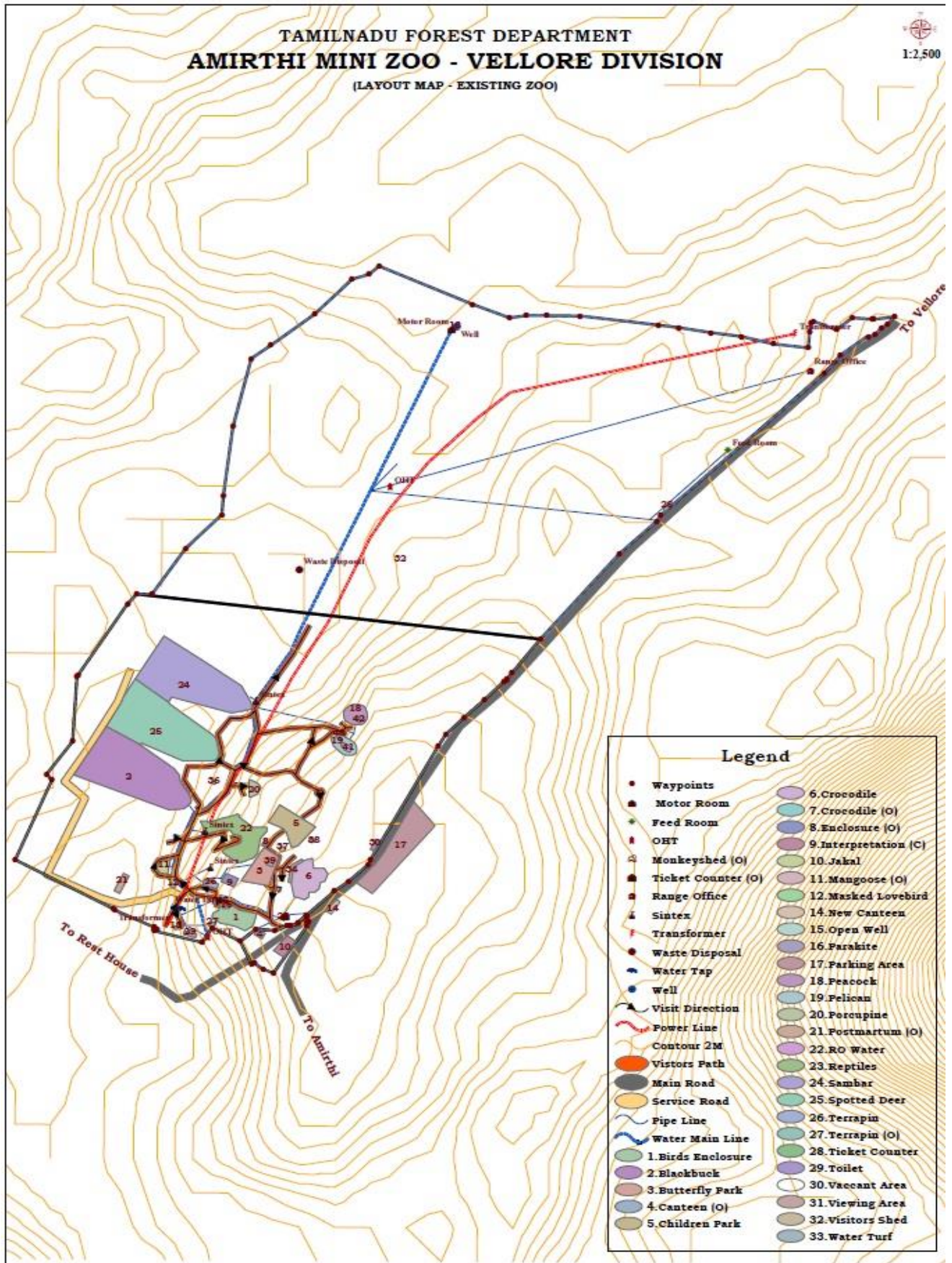






TAMILNADU FOREST DEPARTMENT  
**AMIRTHI MINI ZOO - VELLORE DIVISION**  
 (LAYOUT MAP - EXISTING ZOO)

1:2,500



Legend	
•	Waypoints
●	Motor Room
★	Feed Room
+	OHT
⌘	Monkeyshed (O)
⊙	Ticket Counter (O)
⊙	Range Office
⌘	Sintex
⌘	Transformer
●	Waste Disposal
⌘	Water Tap
⌘	Well
→	Visit Direction
—	Power Line
—	Contour 2M
—	Visitors Path
—	Main Road
—	Service Road
—	Pipe Line
—	Water Main Line
1	1. Birds Enclosure
2	2. Blackbuck
3	3. Butterfly Park
4	4. Canteen (O)
5	5. Children Park
6	6. Crocodile
7	7. Crocodile (O)
8	8. Enclosure (O)
9	9. Interpretation (C)
10	10. Jakal
11	11. Mongoose (O)
12	12. Masked Lovebird
14	14. New Canteen
15	15. Open Well
16	16. Parakite
17	17. Parking Area
18	18. Peacock
19	19. Pelican
20	20. Porcupine
21	21. Postmartum (O)
22	22. RO Water
23	23. Reptiles
24	24. Sambar
25	25. Spotted Deer
26	26. Terrapin
27	27. Terrapin (O)
28	28. Ticket Counter
29	29. Toilet
30	30. Vacant Area
31	31. Viewing Area
32	32. Visitors Shed
33	33. Water Turf

5. **Aboutus:**

S.No.	Particulars	Information
<b>Basic Information about the Zoo</b>		
1	Name of the Zoo	Amirthi Mini Zoo
2	Year of Establishment	1967
3	Address of the Zoo	Amithi
4	State	Tamil nadu
5	Telephone Number	0416-2253329
6	Fax Number	
7	E-mail address	1) dfovellore@gmail.com 2) amirdhifro@gmail.com
8	Website	
9	Distance from nearest	Airport:Chennai-100km
		Railway Station:Katbadi-30km
		Bus Stand:Vellore-30km
10	Recognition Valid upto (Date)	



<b>Sl. No.</b>	<b>Particulars</b>	<b>Information</b>
11	Category of zoo	Small Zoo
12	Area (in Hectares)	20 acre
13	Number of Visitors (Financial Year) (2018-2019)	Adult :111110
		Children (5-12Yrs):20509
		Total Visitors:131619
14	Visitors' Facilities Available in Zoo	Parking Area,Benches,R.O Water,Rest Room,Rest Shed,Signage'sZoo Map,Interpretation Centre,Direction Board,Canteen.
15	Weekly Closure Day of the Zoo	Tuesday
<b>Management Personnel of the zoo</b>		
Nil	Name with designation of the Officer in-charge	Thiru K.Bhargava Teja, IFS.,
	Name of the Veterinary Officer	Nil
	Name of the Curator	Nil
	Name of the Biologist	Nil
	Name of the Education Officer	Nil
	Name of the Compounder/ Lab Assistant	Nil
<b>Owner / Operator of the Zoo</b>		
17	*Name of the Operator	District Forest Officer, Vellore Division, Vellore.

Sl. No.	Particulars	Information
18	Address of the Operator	District Forest Officer, Vellore Forest Division, Forest Campus, Pillaiyar Koil Street, Rangapuram, Phase – IV, Vellore – 632 009.
19	Contact details/Phone number of Operator	0416-2253329
20	E-mail address of Operator	dfovellore@gmail.com

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

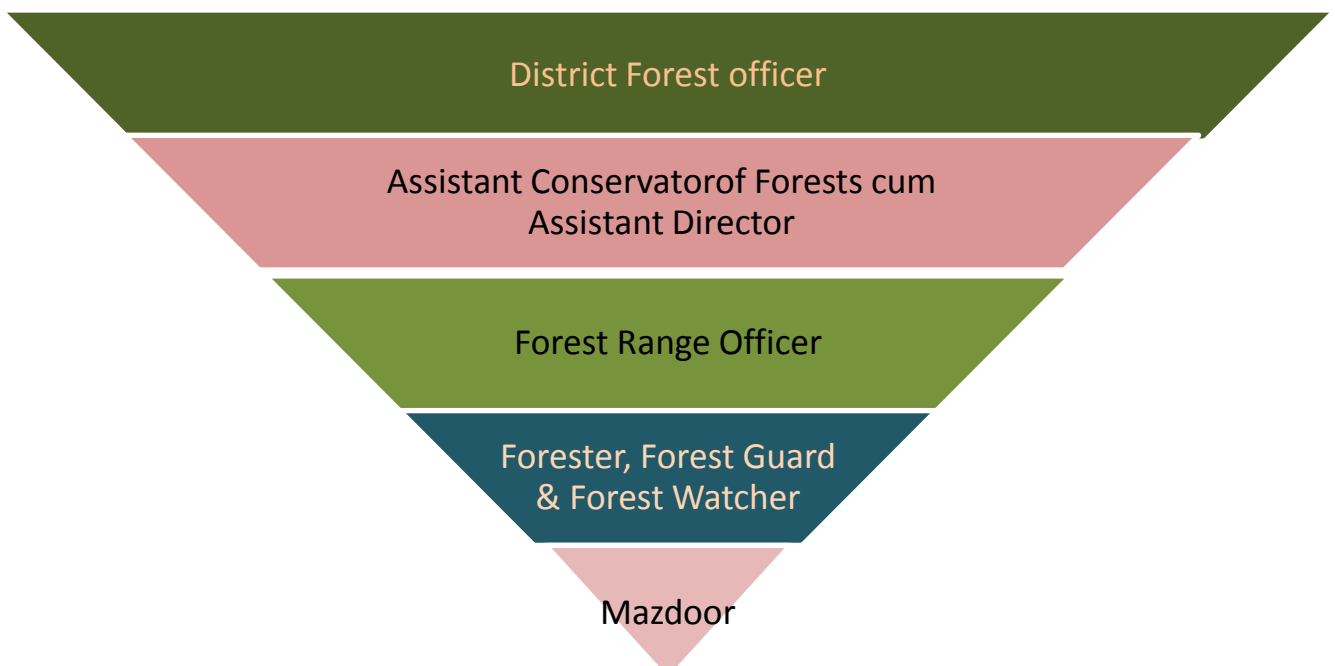
*“Zoo Operator” means the person who has ultimate control over the affairs of the zoos.*

*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.*

## 6. Organizational Chart





## 7. Human Resources

The Amirthi zoo has the following Human resources for the management of the zoo. The District Forest Officer is the overall operator and controller of the zoo. The Assistant Conservator of Forests cum Assistant Director is solely assisting the District Forest Officer in the maintenance of Amirthi zoo. The Forest Range Officer Amirthi is the stationed officer in the Amirthi zoo and managing the premises. One Forester, one Forest Guard, one Forest Watcher assisting the Forest Range Officer in the management of zoo. There are seventeen men are contracted through Forest Contracted for the daily routine work like animal feeding, garbage collection and other security purposes on daily wage basis. The Amirthi zoo is in need of following human resources.

- 1) One Veterinary Assistant.
- 2) One Biologist.
- 3) One Computer Operator.
- 4) One Ticket collector.
- 5) One security Guard.
- 6) One Junior Research Fellow.
- 7) 20 Nos. of zoo watchers.

## 8. Capacity Building of zoo personnel

At present, only twelve animal keepers (male) and five sweepers (female) are working in the zoo on daily wage basis. The animal keepers and sanitation workers will have to be engaged as per the norms fixed by the CZA in accordance with the number of animals available in the zoo. Suitable infrastructure will have to be created for the zoo staff also.

## 9. Zoo Advisory Committee –

Date of constitution	:	03.12.2014
Chairman	:	The Honorable Chief Minister of Tamil Nadu
Vice Chairman	:	The Honorable Minister of Forests-Tamil Nadu
Members	:	Chief Secretary, Government of Tamil Nadu
	:	Additional Chief Secretary-Finance Department
	:	Additional Chief Secretary-Animal Husbandry Department
	:	Principal Secretary, Environment & Forest Department
	:	Principal Chief Conservator of forests(Head of the Department)
	:	Principal chief Conservator of Forests and Chief Wildlife Warden-Tamil Nadu
	:	ZAT-Director-Arignar Anna Zoological Park, Vandalur, Chennai-48
	:	Vice-Chancellor, Tamil Nadu Veterinary College, Chennai.
	:	Director of Environment, Govt of Tamil Nadu
	:	Commissioner, Department of Tourism, Tamil Nadu
Member Secretary	:	Additional Principal Chief Conservator of Forests and Director, Arignar Anna Zoological Park, Vandalur, Chennai-48.
<b>Dates on which General Body Meeting held during the year-12.10.2017</b>		

## 10. Health Advisory Committee–

As such Health Advisory Committee is Yet to be constituted for Amir Mini zoo. However, Wildlife warden, Wildlife Biologist and wildlife Veterinary officers keep meeting frequently and measures for up keep of enclosure animals are in place time to time.

## 11. Statement of income and expenditure of the Zoo

### Income

Revenue Collection Details of Amirthi Zoo from 2018 to 2029						
Sl. No	Year	No. of Visitors	Ticket collection	Camera Collection	Vehicle Collection	Total
1	2018-2019	131619	1210945	4425	1081480	2296850 (22.9 lakhs)

### Expenditure

Sl.No	Head of Account	Alloted	Expenditure
1	Maintenance of animal house and visitor amenities	31.61Lakhs	28.23Lakhs

## 12. Daily feed Schedule of animals

The diet for all the animals in the zoo will be provided as per the diet prescriptions of the expert veterinarians. The same will be revised from time to time for each of the animals depending on its age, health status, season, etc., Each animal will have a separate diet chart which will be maintained by the veterinarians in the zoo. The proposals have been made to develop a rat breeding centre or frog breeding centre near the zoo to meet the diet requirements of some of the zoo animals.

Daily feed Schedule of animals					
Sl. No.	Species	Feed item	Quantity in grams		Day of Fasting
			Winter	Summer	
1	Spotted Deer	Bengal gram	500	500	
		Groundnut oil ake	50	50	
		Carrot	100	100	
		Green leaves	3000	3000	
		Wheat bran	500	500	



2	Sambar Deer	Bengal gram	1000	1000	
		Groundnut oil ake	100	100	
		Carrot	200	200	
		Green leaves	6000	6000	
		Wheat bran	1000	1000	
3	Mangoose	Liver	500	500	Tuesday
		Chicken	50	50	Tuesday
4	Porcupine	Bengal gram	100	100	
		Carrot	100	100	
		Tapioca/Potato	100	100	
		Bannana	25	25	
		Grasses	150	150	
		Groundnut oil ake	1No/45gm	1No/45gm	
		Spinach	150	150	
5	Jackal	Beef with bone	1000	1000	Tuesday
		Liver	100	100	Tuesday
		Chicken with bone	150	150	Tuesday
		Pedigree	50	50	Tuesday
6	Peacock	Amaranthus/Spinach	100	100	
		Carrot/Tomato	50	50	
		Mixed grains	25	25	
		Boiled egg	2Nos	2Nos	
		Skim Milk Powder	20	20	
		Garlic	5	5	
		Poultry Mash	100	100	
		Onion	50	50	
		Shell grit	10	10	
		Bengalgram	50	50	
7	Pelican	Fish	750	750	
8	Night Heron	Fish	200	200	
9	Black Indian Kite	Beef with bone	100	100	Tuesday
		Chicks	2 Nos	2 Nos	Tuesday
		Chicken	100	100	Tuesday
10	Parakeets	Mixed grains	15	15	
		Greengram	5	5	
		Mango	30	30	
		Garlic	5	5	
		Chilly fruit	5	5	
		Greens	10	10	
		Banana	1No/30gm	1No/30gm	
		Guva	30	30	
Apple	25	25			

11	Budgerigars	Mixed grains	10	10	
		Greens	10	10	
		Banana	45g	45g	
		Shell grit	2	2	
		Apple	30	30	
		Onion	10	10	
		Bengal gram	5	5	
		Thinai	10	10	
12	Partridges	Bengal gram	15	15	
		Mixed grains	25	25	
		Greens	50	50	
		Wheat bran	100	100	
13	Marsh Crocodile	Fish (weekly once)	500	500	
		Beef with bone (weekly twice)	50	50	
14	Indian Rock Python	Live chicken (Monthly twice)	1000	1000	
15	Pond Terrapin	Beefminced	500	500	Tuesday
16	Viper	Chicks (Weekly once)	500	500	
		Rats (Weekly once)	50	50	
17	Indian cobra	Chicks (Weekly once)	500	500	
		Rats (Weekly once)	50	50	
18	Star tortoise	Amaranthus/Spinach	100	100	
		Beans	75	75	
		Cucumber	75	75	
		Carrot	30	30	
		Tomato	30	30	
		Greens	50	50	
		Ladys finger	50	50	
		Shell grit	2	2	

### Feed check by APCCF and Vandalure Veterinarian



#### 14.Vaccination Schedule of animals

Sl.No.	Species	Name of the Vaccine and dosage/ quantity used	Periodicity	Remarks
1	Jackal	DHPPI	June	-

#### 15.De-worming Schedule of animals

Sl. No.	Species	Drug used	Month
1	Spotted deer	Fenbendazole	February
2	Jackal	Fenbendazole	February

#### 16.Disinfection Schedule

Periodically disinfection schedule is followed in the zoo as preventive care protocol.Cleaning of feed,water troughs,application of turmeric powder inside and around enclosures,provide adequate with 1% potassium permanganate as dips and rinses,removal of left over feed in the enclosure,cleaning of equipments usage of kohrsolien for disinfection are regular schedule and routine activity.

Applying of calcium carbonate/lime during onset of monsoon is a disinfection routine. Clearing of weeds,scrapping of topsoil around enclosures,change of sand substratum in the animal enclosure,painting,white washing is all followed as annual schedule of disinfection.





### 17. Health Check-up of employees for zoonotic diseases

Sl.No.	Name	Designation	Date of Health Check up	Findings of Health Check up
1	Forest Range Officer and other field staff in Zoo	Forester, Forest Guard and Forest Watcher	13.02.2019	Zoonotic diseases is normal
2	Mazdoors	Mazdoors/Animal Keepers		

### Zoonotic Diseases Screening Test by Doctors:



### 18. Development Works carried out in the zoo during theyear

Sl.no	Name of The Development Work
1	New name board and repairing old name board
2	Improve work for water bird enclosure
3	Providing oval shape earthen shallow water body
4	Removing cement concrete floor and providing earthen floor in jackal cage
5	Providing ramp portion on the path way for disabled person
6	Closing the gate portion from rest house
7	Drainage system
8	New name board
9	New gate
10	Septic tank cleaning
11	Replacement of damage water pipes
12	Maintainance work
13	Electrical Work
14	New crocodile enclosure
15	New exit gate
16	Canteen

## 19. Education and Awareness programmes during theyear

Zoo is visited by student communities from in and around the city. In an average about 5000 students visit the zoo. In addition to the regular interpretation given by the zoo personal, the students are given special attention on special occasions such as Widllife Week, World Environment day, Van mahotsava, World Forest Day, etc and they are briefed about the importance of the occasion and motivated to help survival of flora and fauna. An education officer and interpreter is needed to give a guided tour for visitors who come in groups.



## 20. Important Events and happenings

### 1.world Forest day Celebrations

World Forest day celebrations at Zoo interpretation centre on 21.03.2018.

### 2.World wildlife day Celebrations

Series of events marked the wildlife week celebration in the zoo.

## **21. Seasonal special arrangements for upkeep of animals**

1. Sprinkling of water in all enclosures during peak summer days.
2. Seasonal fruits supply for the zoo inmates
3. Prophylactic disinfection schedule for monsoon management of captive population.
4. Additional thatched sheds & shade nets to enclosures as summer management practice to provide relief from heat.

## **22. Research Work carried out and publications**

The comprising of wildlife biologists, veterinary experts, field assistants, animal keepers, managers, etc., will contribute to collection of data on animal behavior, health, breeding, feeding, release and rehabilitation, population control, rogue animals, etc., will be decided by regular meetings. The data collection, record keeping and reporting will be done systematically and published in suitable journal.





### 23. Conservation Breeding Programme of the Zoo

The zoo is coming under the mini zoo category, acting mainly as wildlife education and awareness centre for the visiting public about fauna of eastern & western ghats. Moreover, the zoo has exhibited the common and smaller animals in its collection in which normal breeding is noted. Hence, the major breeding programme activities have not been formulated. Following species are showing breeding behavior in the zoo.

SI.No	Name of the species
1.	Spotted deer
2.	Parakeet
3.	Love Birds
4.	Kite
5.	Night Heron

### 24. Animal acquisition / transfer / exchange during theyear

A.	Animals arriving in the Zoo				
	H.NO.	Species	Number (M:F)	From which Zoo	Date of arrival in the zoo
	NIL	NIL	NIL	NIL	NIL
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

SI. No.	Date of Rescue	Species with number of animals rescued with their sex (M : F : U : T)	Received from	Date of submission of Report to the CWLW / CZA	Action taken	
					Date and place of rehabilitation in their habitat	Reasons for housing in the zoo, if not released in their habitat
1	NIL	NIL	NIL	NIL	NIL	NIL

## 26. Annual Inventory of animals

Form – II

[See Rule 11(1)]

Part – A

Inventory Report for the Year :

### Endangered Species\*

S.no	Animal Name	Scientific Name	Opening Stock				Births				Acquisition				Disposal				Closing stock as on					
			M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T		
1	Crocodile	Crocodylus niloticus		2		2															2			2

\*Animals under Schedule I and Schedule II of the Wild Life (Protection) Act, 1972

Part – B

### Other than Endangered Specie

S.no	Animal Name	Scientific Name	Opening Stock				Births				Acquisition				Disposal				Closing stock as on					
			M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T	M	F	U	T		
1	Spotted Deer	Axix axis	45	31		76															45	31		76
2	Jackal	Canis aureus	2	1		3															2	1		3
3	Porcupine	Hystrix indica	2	3		5															2	3		5
4	Mongoose	Herpestes edwardsii	2			2															2			2
5	Tortoise indian star	Geochelone elegans	9	5		14															9	5		14
6	star tortoise	Geochelone	10	6		16															10	6		16
7	Python Indian Rock	python molurus	2			2															2			2
8	Viper Russel	Daboia russelii	2			2															2			2
9	Peafowl	Pavo cristatus	8	9		17															8	9		17
10	Pelican	Pelecanus	1			1															1			1
11	Parakeet Rose ring	Psittacula krameri			9	9																	9	9
12	Love birds	Agapornis	1	1		2															1	1		2
13	Crane	Crane	1			1															1			1
14	kite	Haliastur indus	5	2		7															5	2		7
15	partridge	Francolinus pondicerianus	1			1															1			1
16	Cobra	naja naja	2			2															2			2
			93	58		162															93	58		162

## 27. Mortality of animals

Sl. No.	Animal Name (with individual identification mark, if any)	Scientific Name	Sex	Date of	Reason of death as per the post-mortem report
1	Spotted deer	Axis axis	male	10.8.2018	Fight
2	Spotted deer	Axis axis	male	27.10.2018	Fight
3	Spotted deer	Axis axis	male	01.01.2019	Age

## 28. Compliance with conditions stipulated by the Central Zoo Authority

Sl. No	Norm No.	Condition Stipulated	Time Period to Comply	Since when pending	Status with regard to compliance of the conditions
1	10.1(3)	Visitors movement at the zoo should be 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	Immediately	March 2016	The Visitors movements in the zoo has been regulated temporarily by using bamboo barricades wherever possible as a temporary measure. However, as suggested by the CZA for reducing visitors path to 25% of the periphery of the enclosure, we require an amount of Rs. 13.10 lakhs to carry out this work. For which, necessary estimate has been prepared and submitted herewith in the enclosure.
2	10.1(5)	The boundary wall of zoo is only 60% has been completed. The remaining portion is covered by the barbed wire fence should be completed.	Six months	March 2016	An amount of Rs. 1.43 crores is required to construct the entire remaining boundary of the compound wall, for which necessary estimate has been prepared and submitted herewith in the enclosure.
3	10.1(6)	The zoo has entry to the guest house and tourism huts (residential area) The same should be separated by boundary wall with independent entry and exit.	Immediately	March 2016	This work will be completed within 3 months with the available funds under Non-Plan.
4	10.1(9)	The domestic ducks, blue rock pigeon and rabbits housed at the zoo should be removed immediately.	Immediately	March 2016	The domestic ducks, blue rock pigeon and rabbits were removed already as per CZA evolution team's instructions.

4 Animal housing display of animals and animal enclosures					
10.4(2)	I The aviaries (Pariah kite. Rose ringed parakeet) have been provided with metal wire and pipes as perch. The same should be replaced with bamboo or wooden sticks of appropriate size.	Immediately	March 2016	This work was completed as per CZA evolution team's instructions.	
	II The pariah kite enclosure has service entry to the enclosure from the visitor viewing area. It should be located in the back.	Immediately		This work will be completed within 3 months with the available funds under Non-Plan.	
	III The area of the pea fowl aviary is mere 15 sq mt does not meet the standards and norms as prescribed by the CZA. It should be of the size as prescribed by the CZA.	Immediately		This work will be completed within 3 months with the available funds under Non-Plan.	
	IV The Rose ringed parakeet has been provided with service gate in the front. It should be located in the back side.	Immediately		This work will be completed within 3 months with the available funds under Non-Plan.	
5	10.4(3)	I The empty leopard cage used for display of jackal provided with pucca floor. The floor of paddock should be made kuccha.	Immediately	March 2016	This work was completed as per CZA evolution team's instructions.
	II The water body provided in most animal enclosure does not have any outlet to drain the water. It should have proper outlet and inlet for water.	Immediately			This work will be completed within 3 months with the available funds under Non-Plan.
	III The peafowl aviary has been provided bucket for drinking of water to the animals. The aviaries should be provided with earthen shallow water body.	Immediately			This work will be completed within 3 months with the available funds under Non-Plan.
	IV The Rose ringed parakeet aviary has pucca floor and no enrichment. The aviary should be enriched and should be provided with kuccha floor.	Immediately			This work was completed as per CZA evolution team's instructions.
	V The glass used has barrier at new enclosure of mangoose, star tortoise and python have reflection. It should be placed in a manner or such angle that there is no reflection is seen.	Immediately			This work will be completed within 3 months with the available funds under Non-Plan.



7	10.4(5)	Most animal enclosure at the zoo have been provided with more than 70% area of total area of enclosure for visitors viewing. It should be restricted to 25% of the perimeter of enclosure.	Immediately	March 2016	The Visitors movement in the zoo has been regulated temporarily by using bamboo barricades wherever possible as a temporary measure. However, as suggested by the CZA for reducing visitors path to 25% of the periphery of the enclosure, we require an amount of Rs. 3.10 lakhs to carry out this work for which necessary estimate has been prepared and submitted herewith in the enclosure.
8	10.4(6)	I The zoo has been housing cobra in small enclosure without any enrichment. The enclosure area should be of 40sqmts in size.  II The Python housed is new enclosure have not been provided with enough horizontal and vertical perched. The enclosure should be enriched as per the species requirement.	Immediately  Immediately	March 2016	This work will be completed within 3 months with the available funds under Non-Plan.  This work will be completed within 3 months with the available funds under Non-Plan.
9	10.4(8)	The zoo has constructed new enclosure to house mangoose, star tortoise and python without obtaining the prior approval of the design from CZA.	Immediately	March 2016	Necessary proposals will be submitted to the CZA for approval of the construction of new enclosure.
10	10.4(9)	Between the stand off and parapet wall of most animal enclosures (pariah kite) the green hedge should be planted.	Immediately	March 2016	This work has been completed as per CZA evolution team's instructions.
11	10.1(10)	The appropriate signage's should be provided at all animal exhibits containing the biological information about the species.		March 2016	This work will be completed within 3 months with the available funds under Non-Plan.

<b>5.Up keep and health care of animals</b>					
12	10.5(2)	<p>I The food provided to the animals should be checked by the Veterinary Officer of the Zoo.</p> <p>II The zoo should prepared diet schedule for the animals of the Zoo.</p> <p>III The vegetable and fruits provided to the animals should be washed. As the fruits are ripened using various chemical the same should be washed before giving to the animals.</p> <p>IV The zoo should test the food and water provided to the Zoo animals.</p>	<p>Immediately</p> <p>Immediately</p> <p>Immediately</p> <p>Immediately</p>	March 2016	<p>The Zoo has no Veterinarian post. The food provided to the animals is checked by the Forester and Forest Range Officer of the Zoo. The diet schedule for the animals of the Zoo was prepared and it is followed. The vegetable and fruits provided to the animals are being washed regularly as per CZA evolution team's instructions.</p> <p>The food provided to the Zoo animals is tested by the nearest Veterinary Officer, whenever visits the zoo.</p>
13	10.5(5)	<p>I The Zoo should provided drain for disposal of sewage water.</p> <p>II The Zoo has been throwing the waste in the back side of Rose ringed Parakeet aviary. The same should be stopped.</p> <p>III For cleaning the animal enclosures, no disinfectant are being used. The zoo should use as the disinfectant as of prescribed by the veterinary Officer of the Zoo.</p>	<p>Immediately</p> <p>Immediately</p> <p>Immediately</p>	March 2016	<p>This work will be completed within 3 months with the available funds under Non-Plan.</p> <p>This work has been completed as per CZA evolution team's instructions.</p> <p>This work is being regularly carried out as per the CZA evolution team's instructions.</p>
14	10.5(9)	The Zoo should carry out screening of Zoo staff for Zoonotic disease every year.	Immediately	March 2016	This work is being carried out regularly as per the CZA evolution team's instructions.
15	10.5(10)	The Zoo should maintain the keepers diary, Daily Report, Animal history card, Post mortem Reports, De-worming Schedule, Vaccination Schedule, Animal Diet Register.	With immediate effects	March 2016	This work is being regularly carried out as per the CZA evolution team's instructions.

<b>6. Veterinary and infrastructure facilities</b>					
16	10.6(1 c)	The Zoo should have treatment room post mortem room and no quarantine and isolation area	With immediate effects	March 2016	As per the Zoo Rules 2009 with (Amendment) Rules 2013, the mini zoo was exempted from having a separate postmortem room, isolation ward, quarantine ward, animal restraining and tranquilizing equipments and a veterinary care reference library.
<b>12. Visitors facilities</b>					
17	10.12(2)	The Zoo should have First aid kit and snake anti venom serum and life saving drugs on the zoo campus.	With immediate effects	March 2016	The First-Aid kit is now made available in the zoo and snake anti venom serum will not be provided by the Govt. Hospitals concerned.
18	10.12(3)	The visitors path at the zoo should be modified to facilitate wheel chair bound visitors to visit the animal enclosures.	Immediately	March 2016	This work will be completed within 3 months with the available funds under Non-Plan.
<b>Rule 11. Maintenance of Records and submission of Inventory</b>					
19	11.1	The Zoo operator should submit Quarterly inventory to the CZA. It should be submitted promptly within 15 days from end of the each quarter.	Immediately	March 2016	The CZA evolution team's instructions are noted and will be strictly adhered.
<b>Others</b>					
20		There has been electric line passes through the zoo as part of hill tribal helmet. It needs to be laid properly looking in to the safety of animals and visitors of the Zoo.		March 2016	The CZA evolution team's instructions will be strictly adhered.
21		The Zoo has been burning the leaf litter inside the animal enclosure. It should be stopped immediately.		March 2016	The CZA evolution team's instructions will be strictly adhered.
22		The Zoo is located in Thelai RF may seek prior approval from F.C.Division of MoEF&cc under Forest (Conservation) Act,1980		March 2016	The CZA evolution team instruction will be strictly adhered.



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

### a. Mammals :

1. Indian gaur
2. Spotted Deer
3. Wild boar
4. Bonnet Macaque
5. Bats (Fruit eating)
6. Small Rodents

### b. Birds

White throated kingfisher, Indian paradise flycatcher, Black drongo, Spotted owlet, Jungle owlet, White rumped shama, Indian scops, owl, Shikra, Crested serpent eagle, Asian Palm swift, Indian peafowl, Rock pigeon, Common hawk, cuckoo

### c. Reptiles:

1. Indian Python,
2. Cobra
3. Russel Viper
4. Monitor Lizard,
5. Star tortoise



