

KAKATIYA ZOOLOGICAL PARK,  
HANUMAKONDA

**ANNUAL REPORT**  
**FOR THE YEAR 2019-20**



# CONTENTS

S.No	Section	Page Number
1.	Report of the Officer-in-charge	3
2	History of the Zoo	4-5
3.	Vision	5
4.	Mission	5
5.	Objective	5
6.	About us	6
7.	Organizational Chart	7
8.	Human Resources	8
9.	Capacity Building of the Zoo personnel	8
10.	Zoo Advisory Committee	8
11.	Health Advisory Committee	8
12.	Statement of income and expenditure of the Zoo	9-11
13.	Daily Feed Schedule of animals	12-14
14.	Vaccination Schedule of Animals	14
15.	De-worming Schedule of animals	15
16.	Disinfection Schedule	15
17.	Health Check-up of employees for Zoonotic diseases	16
18.	Visitors Amenities	17
19	Education and Awareness programmes during the year	18
20.	Important Events and happenings in the Zoo	18
21	Seasonal special arrangements for upkeep of animals	20
22	Research Work carried out and publications	21
23	Conservation Breeding programme of the Zoo	21-22
24	Animal Acquisition/transfer/exchange during the year	22
25	Rescue and Rehabilitation of the wild animals carried out by the zoo	22-23
26	Annual inventory of Animals	24-26
27	Mortality of Animals	27-29
28	Status of the Compliance with condition stipulated by the Central Zoo Authority	30-39
29	List of free living wild animals within the zoo premises	40

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

Since the Zoo fall inside the Greater Warangal Municipal Corporation (GWMC) area, the Smart City funds are awaited to take up improvement works with reference to Sewage treatment plant for already existing sewage canals and Box type of drainage canals.

After Nehru Zoological Park, Hyderabad, this is the second biggest Zoo and patronage is very much encouraging. Permission for introducing Bison (Indian Gaur), as already Bison enclosure is ready and regarding Tiger introduction is also awaited from Central Zoo Authority.

Recently 40.00 acres hillock area is attached to Kakatiya Zoological Park, Hanumakonda, has been assigned by Revenue department. This is very ideal for Sloth Bear Safari. If financial assistance is extended by the Central Zoo Authority, this activity can be taken up by fencing and road formation and shelters etc.,

There is a need for a Reptile house, if permitted and financed the work can be taken up.

Sd/- G.Ramalingam, IFS.,  
District Forest Officer,  
Hanumakonda & Jangaon.

## 2. History of the Zoo.

Warangal is one of the most important historical places in the Telangana state. It is attracting many people by its rich heritage and historical values. It was ruled by the Kings of Kakatiya dynasty. The famous among the dynasty were Rudramadevi and Prathaparudra, they constructed Thousand Pillars Temple, BadraKali Temple, Siddeshwara Temple, Padmakshi Temple, Mettu Ramalingeshwara Temple, Ramappa Temple, Laknavaram Tank etc.,

The Forest department with the help of district administration had set up a Zoological Park called Vana Vigyan Kendra in order to enrich awareness about wildlife conservation i.e., Ex-situ conservation of Wildlife. It is a place of relief and recreation like Picnic Spot as well as Environmental Education Center. It is a right place to educate the students and citizens about nature by bringing them close to Wild Life and this place also few recreational values.

The Kakatiya Zoological Park which was earlier knows as Vana Vigyan Kendra, is a wilderness zone in the heart of the concrete jungle of tri cities of Kazipet, Hanamkonda, and Warangal where one is assured of peace and tranquility by its thick tree growth.

The then Governor of Andhra Pradesh **Dr. Sri Shankar Dayal Sharma** laid the foundation stone for this Wilderness area and named it as Vana Vigyan Kendra on 16-01-1985. Since then in phased manner this Vana Vigyan Kendra has been developed by the Forest Department. During 1987 Sri Muddu Krishnama Naidu the then Minister for Forest and Environment opened, Birds and Reptiles enclosures to the Public. In the year 1988 Children's Play area was set up and equipped. It was proposed to construct more number of enclosures to display the animals in their natural surroundings.

The Kakatiya Zoological Park, Warangal is supported by EEC where people can learn more about the Nature and its diversity especially on Wild Animals. The EEC also educating people by conducting celebration slide and Film shows about Wild Life.

This Kakatiya Zoological Park began expanding slowly with addition of new enclosures every year. Central Zoo Authority of India recognized the Vana Vigyana Kendra as a **Mini Zoo** vide Ref. No. F.No. 19-141/93-CZA (7) (M), Dt: 21-02-2006. Due to good efforts for its development made by the Forest Department, it was upgraded as **Small Zoo** by the Central Zoo Authority of India on 01.01.2014.

Proposals have been sent to the Central Zoo Authority of India, New Delhi for up gradation of this Zoo from **Small Zoo to Medium Zoo** category, it has the eligible parameters as per the Central Zoo Authority norms.

The name of Vana Vigyana Kendra (Small Zoo), Warangal has been renamed as Kakatiya Zoological Park, Warangal by State ZAPAT Committee and Inaugurated by Hon'ble Deputy Chief Minister of Telangana State on 01.03.2017.

### **3. Vision**

- a. Vision is to protect procure and conserve the diversity of wild animal species through ex-situ conservation

### **4. Mission**

- a. To Educate the children and citizens about wildlife and environment through live displays and live models, film shows, lectures, celebration of notational and international important days, organizing extracurricular activities etc.,
- b. To improve the conservation of rare and endangered species.
- c. To Rescue and rehabilitate wild animals, which accidentally stray into the human habitation and to Reduce the human animal conflict.
- d. Provide wholesome recreation for the density populated urban landscape.
- e. To exhibit the animals in a better way to its natural habitat.

### **5. Objective**

- a. To promote wildlife consciousness and its conservation and Breeding.
- b. To create awareness about nature and its diversity
- c. To make people to understand environment needs and its protection.
- d. To rehabilitate the birds and animals.
- e. To exhibit the fauna in a more naturalistic surroundings.
- f. To acquire wide spectrum of species, both indigenous & exotic and exhibit them in spacious enclosures.

## About us

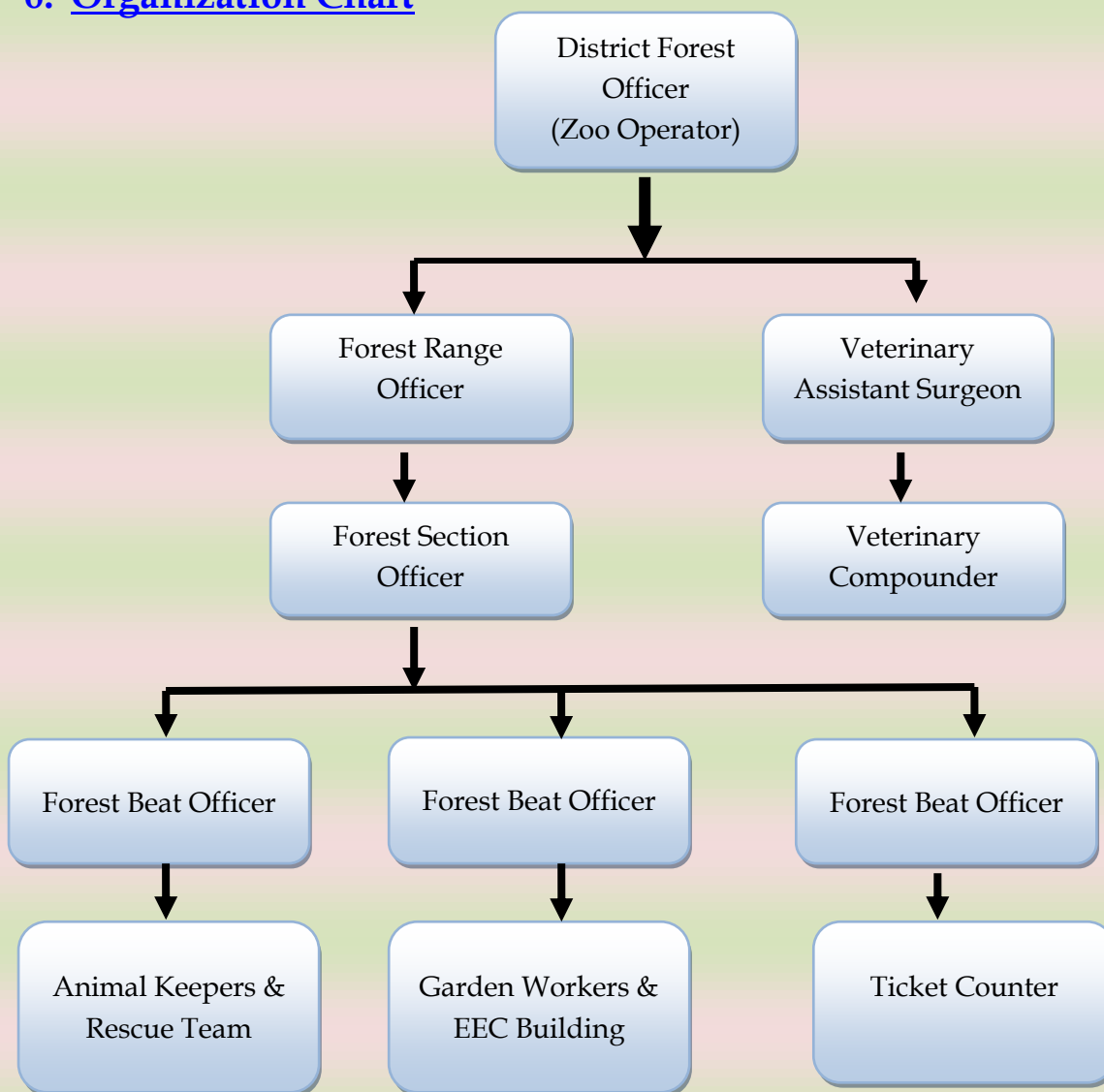
S.No.	Particulars	Information
1.	Name of the Zoo	Kakatiya Zoological Park, Hanumakonda
2.	Year of Establishment	1985
3.	Address of the Zoo	Hunter Road, Hanamkonda
4.	State	Telangana
5.	Telephone Number	0870-2431546
6.	Fax Number	--
7.	E-mail address	<a href="mailto:dfowglurban@gmail.com">dfowglurban@gmail.com</a> & <a href="mailto:frozoowgl@gmail.com">frozoowgl@gmail.com</a>
8.	Website	--
9.	Distance from nearest	Airport : Hyderabad (170 Kms)
		Railway Station : Warangal (6 Kms)
		Bus Stand : Hanamkonda (2.60 Kms)
10.	Recognition Valid up to (Date)	18.08.2020.
11.	Category of Zoo	Small Zoo
12.	Area (in Hectares)	19.22
13.	Number of Visitors (Financial Year)	Adult : 224791 Nos
		Children : 80507 Nos
		Total Indian : 305298 No.s
		Total Foreigners : ---
		Total Visitors : 305298 No.s
14.	Visitor's Facilities Available in Zoo	Toilets, Sitting arrangements, Canteen, Shelters etc.,
15.	Weekly Closure Day of the Zoo	Monday
16	Name with Designation of the Officer-in-charge	Dr.G.Ramalingam, IFS., District Forest Officer
	Name of the Veterinary Officer	Dr Ch. Praveen Kumar
	Name of the Curator	--
	Name of the Biologist	--
	Name of the Education Officer	--
	Name of the Compounder /Lab Assistant	N. Akesh
17	Name of the Operator	Dr.G.Ramalingam, IFS.,
18	Address of the Operator	O/o District Forest Officer, Hanumakonda & Jangaon
19	Contact Details/Phone number of Operator	9440810093
20	E-mail address of Operator	dfowglurban@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 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.

### 6. Organization Chart



## 7. Human Resources

### **Manpower of the Zoo\***

S.No	Designation	Number of Sanctioned Posts	Name of the incumbent
1	Forest Range Officer	1	Sri P.Punnam Chandar
2	Forest Section Officer	1	Sri D. Ramdas
3	Forest Beat Officer	3	Sri P. Ashok
			Smt K.Swapna
			Smt. MD.Jarina Begum

## 8. 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
1	Dr Ch. Praveen Kumar, Veterinary Asst. Surgeon, In-charge Veterinarian, Kakatiya Zoological Park, Warangal Urban.	Capacity Building Training on Wild life Emergencies to the Government Veterinarians	22.01.2019 to 24.01.2019	Forest Academy, Dulapally, Hyderabad, Telangana State.

## 9. Zoo Advisory Committee

- Date of Constitution
- Members
- Dates on which Meetings held during the year

## 10. Health Advisory Committee

- Date of Constitution
- Members
- Dates on which Meetings held during the year

Committee will be formed shortly



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

Sl. No	Month	Adults	Children	Camera	Total Visitors	Entry Fee	Battery Vehicle	Canteen Rent	Vehicle Parking	Total Revenue Amount
1	2	3	4	5	6	7	8	9	10	11
1	Apr-19	18580	6068	72	24648	448590	18140	41900	35000	543630
2	May-19	21529	7686	79	29215	513180	16340	41900	35000	606420
3	Jun-19	19514	5044	73	24558	444980	24350	45000	60000	574330
4	Jul-19	18086	4410	63	22496	409860	18350	45000	60000	533210
5	Aug-19	18384	4941	68	23325	629750	13680	45000	60000	748430
6	Sep-19	15871	3849	54	19720	538345	16600	45000	60000	659945
7	Oct-19	20444	4282	61	24726	689690	20840	45000	60000	815530
8	Nov-19	18757	8609	76	27366	696110	23690	45000	60000	824800
9	Dec-19	23259	16205	89	39464	946885	20420	45000	60000	1072305
10	Jan-20	25815	8889	103	34704	944885	7970	45000	60000	1057855
11	Feb-20	16678	7685	77	24363	637020	3240	45000	60000	745260
12	Mar-20 (Upto 14.03.2020)	7874	2839	32	10713	288405	2880	0	0	291285
<b>Total :</b>		<b>224791</b>	<b>80507</b>	<b>847</b>	<b>305298</b>	<b>7187700</b>	<b>186500</b>	<b>488800</b>	<b>610000</b>	<b>8473000</b>

### Expenditure :

Sl. No.	Name of the Component	APO 2019-20		Exp. 2019-20 (Upto March-2020)	
		Phy.	Fin.	Phy.	Fin.
1	2	3	4	5	6
<b>I</b>	<b>Fodder, Diet and maintenance</b>				
a	Development and maintenance of fodder plots	10	3.000	10	0.41000
b	Cost and supply of feed to the animals and birds	A/a	40.000	A/a	0.00000
c	Cost of Plants (Ornamental & Shade, Fruit bearing)	200	0.250	200	0.00000
	<b>Sub Total:</b>		<b>43.250</b>		<b>0.41000</b>
<b>II</b>	<b>Veterinary Care for Wild Animals</b>				
a	Cost of Medicines to the Wild Animals and Birds	A/a	0.500	A/a	0.49786
b	Cost of Tranquilizing Drugs	A/a	1.000	A/a	0.90370

c	Cost of Disinfectants and Hygiene items for wild animals	A/a	0.500	A/a	0.48300
d	Cost of feed supplements	A/a	0.500	A/a	0.40280
	<b>Sub Total:</b>		<b>2.500</b>		<b>2.28736</b>
<b>III</b>	<b>Maintenance of Lawns</b>				
a	Maintenance of existed Lawns at EEC building area & Karthikavanam Gardens & Jackal Moat Area and Maintenance of Butterfly park, Hedge Plants and Flower Beds and purchase of fertilizers, pesticides and other accessories <b>(Rs.1.50 Lakhs per month x 12 Months)</b>	12	18.000	12	15.17990
b	Development of New lawn in front of deer enclosure	2	2.000	2	0.00000
c	Installation of Sprinkler in lawns	A/a	3.000	A/a	0.00000
	<b>Sub Total:</b>		<b>23.000</b>		<b>15.17990</b>
<b>IV</b>	<b>Visitors Amenities</b>				
a	Maintenance of R.O Plant	1	0.500	1	0.42450
b	Maintenance of Existing pagodas	5	2.000	5	1.62750
c	Maintenance of existing toilets including hygiene maintenance.	3	1.500	3	1.07155
d	Maintenance of Children play area and Play equipment's	1	1.000	1	0.99950
e	Construction of sit-outs (Rachabandas)	10	5.000	10	0.00000
h	Maintenance of existing sit outs (Rachabandas)	6	2.000	6	1.78275
i	Maintenance of Canteen building	1	1.000	1	0.00000
j	Renovation of dining hall at Karthikavanam	1	0.600	1	0.00000
	<b>Sub Total:</b>		<b>13.600</b>		<b>5.90580</b>
<b>V</b>	<b>Maintenance of Office &amp; Zoo Park</b>				
a	Wages to the Computer Operator @ Rs. 15,000/- + (EPF 12% :1800, ESI 4.75% :713/-, EDLI 1.61% : 242/-, Agency Commission 2% : 300/- and Service tax 15% : 2250/- = Rs. 20305/- per month)	1	2.437	1	2.43660
b	Engaging Zoo Education Officer for creation of awareness among visitors and School children (Rs. 15,000/- per month)	1	1.800	1	0.00000
c	Wages to the Animal Keepers and Night watchman @ Rs.12,220/- + (EPF 12% :1466, ESI 4.75% :580/-, EDLI 1.61% : 197/-, Agency Commission 2% : 244/- and Service tax 18% : 2200/- = Rs. 16907/- per month) @ 470/ day x 26 days = 12,220/- (As per Dist. Collector, Warangal (Urban) wage rate vide Dist. Gazette No.21/WGL(U)/2018, Dt.26.09.2018)	20	40.577	20	32.46144

d	Wages to the Scavenger (Rs. 7500/- per month)	1	0.900	1	0.90000
e	Wages to the Electrician cum Plumber (Skilled wages Rs.15000/- per month)	1	1.800	1	0.90000
f	Repairs and maintenance of existing bore well Motors and Solar motor etc.,	A/a	1.000	A/a	0.68195
g	POL Charges & Maintenance of Feed and Transportation Vehicle	2	2.500	2	0.88556
h	Repairs, renovation and maintenance of (Mayuri) Interpretation Van	1	2.000	1	1.87500
i	Cost and Supply of Earthen pots, Bamboo Tatties, Feed Basins & Bowls	A/a	0.300	A/a	0.30000
j	Summer arrangements to the zoo animals and birds (Cost of Khus-Khus grass thatties)	A/a	2.000	A/a	1.24590
k	Purchase and maintenance of Ticket winding machine and paper rolls etc.,	A/a	0.500	A/a	0.45250
	<b>Sub Total:</b>		<b>55.813</b>		<b>42.13895</b>
<b>VI</b>	<b>Development works in the Zoo (Other Works)</b>				
a	Electricity charges for bore motors	A/a	8.000	A/a	4.60813
b	Erection of Transformer and distribution of power cables to various places	A/a	3.000	A/a	0.14145
c	Maintenance of Animal Enclosures	A/a	5.000	A/a	4.99400
d	Beautification of Main entrance and other civil works	A/a	2.000	A/a	0.00000
e	Drilling of Bore well and cost of submersible motor and its accessories.	A/a	2.000	A/a	0.26020
f	Erection of hoardings and display boards	A/a	1.000	A/a	0.96000
g	Purchase of Lawn mower and other equipment.	A/a	0.500	A/a	0.45200
h	Uniform cloth and Shoes to Animal Keepers & workers	A/a	1.000	A/a	0.58000
i	Providing Insurance facility to the Animal Keepers, Rescue Team & Workers	26	0.500	26	0.29736
j	Miscellaneous unforeseen expenditure	Ls	3.837	Ls	3.62389
	<b>Sub Total :</b>		<b>26.837</b>		<b>15.91703</b>
	<b>Grand Total :</b>		<b>165.00</b>		<b>81.83904</b>

## 12. Daily feed Schedule of Animals

Sl. No.	Species	Feed item	Quantity		Day of fasting
			Winter	Summer	
1	Leopard	Beef	3 Kgs	3 Kgs	Saturday
2	Sloth Bear	Milk	1 Ltr	1 Ltr	-
		White Jowar Ravva	1 Kg	1 Kg	-
		Eggs	1 No	1 No	-
		Honey	30 Grams	30 Grams	-
		Bread	1 Kg	1 Kg	-
		Banana	1 No	1 No	-
		Carrot	¼ Kg	¼ Kg	-
		Tomato	100 Grams	100 Grams	-
3	Jackal	Beef	½ Kg	½ Kg	-
4	Jungle Cat	Beef	¼ Kg	¼ Kg	-
5	Spotted Deer	Cattle Feed	1 Kg	1 Kg	-
		Hey	Adlibitum	Adlibitum	-
6	Sambar Deer	Cattle Feed	1 ½ Kg	1 ½ Kg	-
7	Chowsingha	Cattle Feed	½ Kg	½ Kg	-
8	Black Buck	Cattle Feed	1 Kg	1 Kg	-
9	Nilgai	Cattle Feed	1 ½ Kg	1 ½ Kg	-
10	Mouse Deer	Apple	50 Grams	50 Grams	-
		Banana	100 Grams	100 Grams	-
		Carrot	50 Grams	50 Grams	-
		Black Gram	50 Grams	50 Grams	-
		Horse Gram	50 Grams	50 Grams	-
11	Crocodile	Beef Boneless	600 Grams	600 Grams	-
12	Star Tortoise	Chana	10 Grams	10 Grams	-
		Cucumber	20 Grams	20 Grams	-
13	Indian Soft shell Turtle	Chana	10 Grams	10 Grams	-
		Cucumber	20 Grams	20 Grams	-
14	Red Eared Turtle	Chana	10 Grams	10 Grams	-
		Cucumber	20 Grams	20 Grams	-
15	Green Iguana	Palakura	75 Grams	75 Grams	-
		Cabbage	75 Grams	75 Grams	-
		Apples	75 Grams	75 Grams	-
		Papaya	75 Grams	75 Grams	-
16	White & Black Swans	Wheat	¼ Kg	¼ Kg	-
		Sajjalu	100 Grams	100 Grams	-
		Korralu	100 Grams	100 Grams	-
		Chana	100 Grams	100 Grams	-

Sl. No.	Species	Feed item	Quantity		Day of fasting
			Winter	Summer	
17	Ostrich Bird	Palak	1 Kg	1 Kg	-
		Eggs	4 Nos	4 Nos	-
		Keera Dosa	2 Kg	2 Kg	-
		Cabbage	½ Kg	½ Kg	-
		Pudina	¼ Kg	¼ Kg	-
		Curry leaves	¼ Kg	¼ Kg	-
		Coriander (Kothimeera)	¼ Kg	¼ Kg	-
		Layer mesh	1 Kg	1 Kg	-
18	White Rhea	Palak	1 Kg	1 Kg	-
		Keeradosa	2 Kg	2 Kg	-
		Cabbage	½ Kg	½ Kg	-
		Emu Grower mesh	2 Kgs	2 Kgs	-
		Eggs	4 Nos	4 Nos	-
		Pudina	¼ Kg	¼ Kg	-
		Curry leaves	¼ Kg	¼ Kg	-
		Coriander (Kothimeera)	¼ Kg	¼ Kg	-
19	Rose ringed parakeet	Sunflower Seed	15 Grams	15 Grams	-
20	Allexandrine Parakeet	Sunflower Seed	20 Grams	20 Grams	-
21	Blossom headed Parakeet	Sunflower Seed	15 Grams	15 Grams	-
22	Mustache parakeet	Sunflower Seed	15 Grams	15 Grams	-
23	Red collared Lory	Sunflower Seed	20 Grams	20 Grams	-
24	Sunconure	Sunflower Seed	20 Grams	20 Grams	-
25	Cockatiels	Sunflower Seed	10 Grams	10 Grams	-
		Saw flower Seeds	5 Grams	5 Grams	-
		Green leaves(Palak)	10 Grams	10 Grams	-
26	Peafowl	Green leaves(Palak)	50 Grams	50 Grams	-
		Poultry Feed	120 Grams	120 Grams	-
27	White Peafowl	Green leaves(Palak)	50 Grams	50 Grams	-
		Poultry Feed	120 Grams	120 Grams	-
28	Khalij Pheasant	Green leaves(Palak)	50 Grams	50 Grams	-
		Poultry Feed	120 Grams	120 Grams	-

Sl. No.	Species	Feed item	Quantity		Day of fasting
			Winter	Summer	
29	Yellow golden Pheasant	Green leaves(Palak)	50 Grams	50 Grams	-
		Poultry Feed	120 Grams	120 Grams	-
30	Silver Pheasant	Green leaves(Palak)	50 Grams	50 Grams	-
		Poultry Feed	120 Grams	120 Grams	-
31	Lady Amherst Pheasant	Green leaves (Palak)	50 Grams	50 Grams	-
		Poultry Feed	120 Grams	120 Grams	-
32	Love Birds	Green leaves(Palak)	10 Grams	10 Grams	-
33	Pigeons	Pigeon/poultry mixture	50 Grams	50 Grams	-
34	Fan tail pigeon	Pigeon/poultry mixture	50 Grams	50 Grams	-
35	Red Jungle fowl	Green leaves(Palak)	50 Grams	50 Grams	-
		Poultry Feed	50 Grams	50 Grams	-
36	Grey Jungle fowl	Green leaves(Palak)	50 Grams	50 Grams	-
		Poultry Feed	50 Grams	50 Grams	-
37	White Dove	Pigeon/Poultry mixture	50 Grams	50 Grams	-

### 13. Vaccination Schedule of Animals

Sl. No.	Species	Disease vaccinated for	Name of the Vaccine and dosage/ quantity used	Periodicity	Remarks
1	Jungle Cat	FCV, FVR, FPV and Rabies	Feligen, Raksharab	Annually	
2	Leopard	FCV, FVR, FPV & Rabies and Tripanosomiasis	Feligen, Raksharab Triquine	Annually 6 Months	
3	Jackal	DHPPi+ L Rabies	Megavac 7, Raksharab	Annually	
4	Chowsingha	Foot and Mouth	Rasha O vac	Annually	

#### 14. De-worming Schedule of Animals

Sl. No.	Species	Drug used	Month
1	Birds, Reptiles	Fenbendazole	July
2	Canids	Praziquantel, Pyrantel Pamoate and Febantel	July
3	Felines	Praziquantel and Pyrantel Pamoate	July
4	Herbivores	Fenbendazole + Ivermectin	July
5	Birds, Reptiles	Piperazine	January
6	Canids	Ivermectin	January
7	Felines	Dectomax	January
8	Herbivores	Oxyclosanide, Levamesole	January

#### 15. Disinfection Schedule

Sl. No.	Species	Type of enclosure	Disinfectant used and method	Frequency of disinfection
1		All Cages and Kraals	Sprinkling of Lime and Bleaching powder	Twice in a month
2		All the enclosures	Fumigation	Monthly
3		All the enclosures	Phenyl foot bath	Daily
4		All visitor areas of the enclosures	Kohrsolin-Th	Monthly
5		All the enclosures	Removal of night soil, cleaning of floor in each cell and corridors with Kohrsolin-Th	Daily
6		All the enclosures	Cleaning of Feeding and water troughs	Daily
7		All the enclosures	Removal of top soil	Annually
8		All Herbivore enclosures	Ecto-Parasitic spray	Whenever required
9		All water troughs	Slake lime pasting	Once in 3 months

**16. Health Check-up of employees for zoonotic diseases**

Sl. No.	Name	Designation	Date of Health Check up	Findings of Health Check up
1	All Animal Keepers and Rescue Team of the Kakatiya Zoological Park, Hanumakonda.	Animal Keepers and Rescue Team Members.	05.11.2019	NIL
2	All Animal Keepers and Rescue Team of the Kakatiya Zoological Park, Hanumakonda.	Animal Keepers and Rescue Team Members.	21.02.2020	NIL





## 17. Visitors' amenities

**Drinking Water facility**



**Rachabandas**



**Cloth Umbrellas**



**Grass Roofing Pagodas**

## 18. Education and Awareness programmes during the year

### Vanyaprani Saptah Celebrations



## Conducting various competitions among school children



## Awareness programme on Reptiles



## 19. Seasonal special arrangements for upkeep of Animals

### During Monsoon:

1. Lime and Bleaching powder sprinkled around all the bunds, main gate, drainage canals, boundaries, moats of Herbivores & back side of the Kraals.
2. Mixed water sanitizers in drinking water and water logging areas around the enclosures.
3. Provide Calcium, Vitamin A, C, D and E and multi vitamins supplements in the food.
4. Enclosures are protected from rainy water.
5. Constructed heap at the dry moat in all the herbivores.

### During winter:

1. Provided Calcium, Multivitamin supplements through food.
2. Provided dry grass / hay in all the night shelters.
3. Provided pots along with grass in all the bird enclosures.

### During summer:

1. Gunny bags / Jute mats have been arranged to all the bird enclosures.
2. Green nets have been covered the sides of the all the enclosures.
3. Gunny bags / Jute mats have been arranged to all the bird enclosures.
4. Green nets have been covered the sides of the all the enclosures.
5. Water sprinkled frequently to the enclosures in and around the sheds of all species.
6. Provided the coolers near the cages of the Leopard and Sloth Bear enclosures.
7. Bird enclosures are protected from sun light with overhead nets.
8. Provided dry grass on the sheds of all animals and birds.
9. Regular watering to the trees around the enclosures getting extra green cover to all the zoo animals.
10. Reduced the food that is given to them and mixing the seasonal food like fruits (Watermelon, muskmelon, beetroot, and bananas) to all animals and birds.
11. Electral powder is mixing in the water during this season.
12. The Carnivores and Omnivores are provided with Glucon-D powder mixed with water that increases their energy levels.
13. Salt bricks have been provided at all the Herbivore enclosures.
14. Provided anti stress supplements to all the Zoo animals and birds.

**20. Research Work carried out and publications**

Only Broachers and Zoo Calendar were published.

**21. Conservation Breeding Programme of the Zoo**

There is urgent need to conserve India's Forest and Wildlife. Kakatiya Zoological Park, Warangal has successfully taken up different conservation Breeding programmes. In the past, this zoo has bred Four horned antelopes and Ostrich. And these are exchanged with other zoos in Erstwhile Andhra Pradesh state. Kakatiya Zoological Park has been acquired Jackal, Red Jungle fowl, Alexandrine Parakeet, Cockatiels, Silver pheasant from Nehru Zoological Park, Hyderabad and White Peafowl, Grey Jungle fowl, Love birds from Sri Venkateshwara Zoological Park, Thirupathi on exchange programme.



Apart from these, this zoo has been successfully bred many endangered species i.e., Mouse deer, Black Buck, Jackal, Mugger Crocodile, Star Tortoise, Indian Soft shelled Turtle and Peafowl. Among the exotic species, Ostrich and Pheasants are successfully bred in the Zoo Park.

Central Zoo Authority of India was created to oversee the functioning of Zoos in the Country and to enforce the minimum standards & Norms for upkeep and health care of Animals in the Indian Zoos. And also to complement and to strengthen the National efforts in conservation of Wild fauna of the country. It is requested or proposed to take the responsibility of breeding Mouse deer (or) Four horned antelopes in Kakatiya Zoological Park, Warangal By the CZA to release them into the Forest.

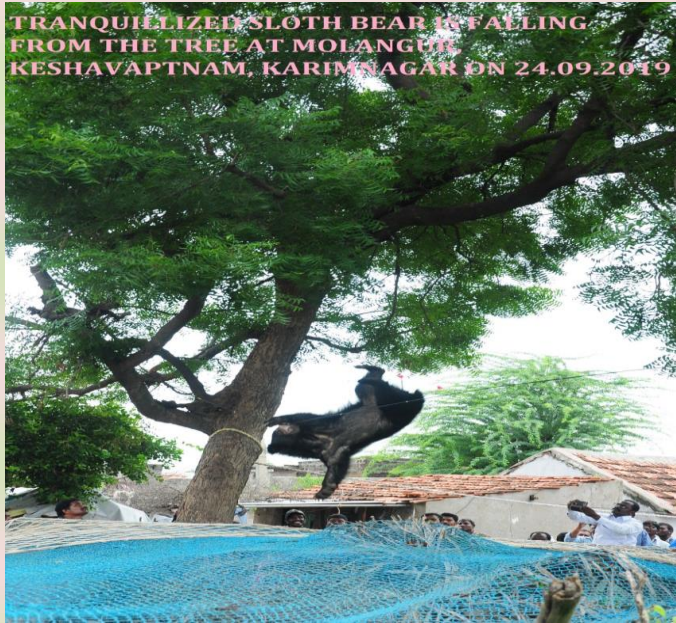
## 22. Animal acquisition / transfer / exchange during the year

A.	Animals arriving in the Zoo				
	H. NO.	Species	Number (M:F)	From which Zoo	Date of arrival in the zoo
	-	NIL	-	-	-
B.	Animals going from the zoo				
	H. NO.	Species	Number (M:F)	Going to which Zoo	Date of deposition from the zoo
	-	NIL	-	-	-

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

Sl. 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	1.4.2019	Sloth Bear Male	Jangaon bus depot, Jangaon district.	1.4.2019	1.4.2019	

2	24.9.2019	Sloth Bear Female	Molanguru, Keshavapatnam, Karimnagar district.	24.9.2019	24.9.2019
3	24.3.2020	Sloth Bear Female	Kagajnagar, Komuram Bheem Asifabad district.	24.3.2020	24.3.2020







**Part - B**

**Other than Endangered Species**

S. No.	Species (Animal Name)	Scientific Name	Stock as on 01-04-2019				During the year												Stock as on 31-03-2020			
							Births			Acquisition			Disposals			Deaths						
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	T			
	<b>Birds</b>																					
1	Ostrich	Struthio camelus	1	2	0	3													1	2	0	3
2	Rhea (White)	Rhea pennata	1	2	0	3									1				0	2	0	2
3	Swan Mute (White)	Cygnus olor	1	0	0	1													1	0	0	1
4	Swan Black	Cygnus atratus	1	1	0	2													1	1	0	2
5	Pheasant Yellow golden	Chrosolophus pictus	1	1	0	2													1	1	0	2
6	Pheasant Silver	Lophura nycthemera	1	0	0	1													2	1	0	3
7	Pheasant Lady amrhest	Chrysolophus amrhestiae	1	0	0	1													1	0	0	1
8	Cockatiel Lutino	Nymphicus hollandicus	6	8	2	16													6	8	2	16
9	Grey Cockatiel	Nymphicus hollandicus	6	6	0	12													6	6	0	12
10	Pied Cockatiel	Nymphicus hollandicus	3	3	0	6													3	3	0	6
11	Parakeet Rose ringed	Psittacula krameri	5	6	0	11													5	6	0	11
12	Parakeet Alexandrine	Psittacula eupatria	3	2	0	5													3	2	0	5
13	Parakeet Blossom headed	Psittacula cyanocephala	2	2	0	4													2	2	0	4
14	Parakeet Mustache	Psittacula alexandri	1	1	0	2													1	1	0	2
15	Red Collared Lory	Trichoglossus rubritorquis	1	0	0	1													1	0	0	1
16	Sun conure / Sun parakeet	Aratinga solstitialis	0	1	0	1													0	1	0	1

S. No.	Species (Animal Name)	Scientific Name	Stock as on 01-04-2019				During the year												Stock as on 31-03-2020			
							Births			Acquisition			Disposals			Deaths						
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	T			
17	Love Birds (Peach faced)	Agapornis sps	7	9	4	20													7	9	4	20
18	Love Birds (Lutino)	Agapornis sps	3	3	2	8													3	3	2	8
19	Love Birds (Fischers)	Agapornis sps	3	3	0	6													3	3	0	6
20	Fowl Jungle Red	Gallus gallus	3	2	2	7													3	2	2	7
21	Pigeon Blue Rock	Columbidae Colombiformes	18	20	2	40													18	20	2	40
22	Myna	Acridotheres tristis	1	1	0	2													1	1	0	2
23	Fantail pigeon		1	1	0	2													1	1	0	2
24	White Dove Australian	Columbiformes	1	2	0	3													1	2	0	3
25	Maroon tailed conure	Pyrrhura melanura			0	0				2	2								2	2	0	4
	<b>Total Birds:</b>		<b>71</b>	<b>76</b>	<b>12</b>	<b>159</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>73</b>	<b>79</b>	<b>12</b>	<b>164</b>

## 25. 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	Bear Sloth	<i>Ursus ursinus</i>	Female	17.12.2019	Shock due to Septicemia
2	Rhea (White)	<i>Rhea pennata</i>	Male	23.07.2019	Shock due to Septicemia

## 26. Veterinary Section

The present this Zoo has a small hospital with Operation theatre, a post mortem room and Inpatient room etc. Some additional amenities need be provided to make the hospital responsive to all the immediate needs of animal health care.

- **Quarantine Ward:** At present there is no separate quarantine ward to quarantine animals received from other Zoos or rescued animals. It is proposed to construct a modern quarantine ward.
- **In-patient Ward:** It is proposed to construct a modern in-patient ward near the hospital.
- **Post mortem Room:** It is provided in the hospital. The location of this soon is not proper now. Therefore, this facility would be shifted further inside, adjoining to incinerator, and built in a proper way.
- **Diagnostic Lab:** At present, all fecal samples, blood smears and urine etc., are being sent to Animal Disease Diagnostic Laboratory, Warangal. In case of public holidays and Sundays, the veterinary section of the Zoo is facing problem and the investigation and diagnosis is becoming late. Therefore, it is necessary to have a small diagnostic laboratory to take up faecal samples, blood smears, urine etc. Necessary assistance from the Central Zoo Authority shall be taken to provide these facilities.

A Wildlife Health Advisory Committee of the Zoo is to be formed with the members from Animal Disease Diagnostic Laboratory, Warangal and Veterinary college, Mamnoon, Warangal and experienced Zoo veterinarians (Retd / past experienced Vets) to oversee and advise on technical and other matters by the Chief Wildlife Warden, Telangana state. The committee meets once in (3) months in the Zoo. This need to be continued.

It is necessary to have a Veterinary Officer and Para Veterinarian as a regular post in the Zoo to treat emergency cases and to attend rescue operations in the Warangal circle. Create the posts of one Veterinary Asst. Surgeon and one Veterinary Assistant or Live stock Assistant in the Zoo as per the CZA norms.

## **27. Feed and Supply Section**

The store section has two pronged activities, namely procurement and supply of feed to the animals.

New Feed store has to be set up adjacent to Veterinary hospital. It should be quite spacious and adequate for storing non- perishable food items like grains etc. and provided with Water purifier system. There is need for a cold storage room.

New Meat room cum kitchen has to be set up near the Feed store. It has all modern kitchen facilities. LPG gas is to be used for cooking purpose. Kitchen requires proper maintenance. Two deep Freezers have to be installed in this room for stocking beef and meat. Hot water provision has been provided.

The receipts of materials are entered into Stock registers. The veterinary doctor has to check the quality of feed / beef. FRO and DFO also check them off over on.

This Section is headed by one Forest Range Officer and is assisted by one Forest Section Officer, and 3 labourers. They also, cook food for animals. It is proposed to give dietician training to some of these staff.

## **28. Security Section**

It is very important to keep the Zoo animals, Zoo property both movable and immovable, visitors safe and secure to make the Zoo a safe place and to run the establishment properly. Kakatiya Zoological Park which spreads over an area of 48 Acres with important belongings of forest department is prone to security hazards. The following items are to be attended on priority.

- 1) Removal of encroachments abutting the compound wall. Task force committee on development Kakatiya Zoological Park has to be set up and needs to be implemented.
- 2) It is advised to be provided with Concertina Razor coil all around the compound wall it has to be checked every day and maintained every day.
- 3) Extending CC Camera coverage to all-important enclosures and compound areas.
- 4) It is provided CCTV near Main Entrance. It is necessary to provide CC camera at Second Gate and service roads to avoid pilferage and to monitor the activities.
- 5) The present arrangement of Security system is ineffective because the security person is a single man without armed. Therefore, it is proposed to call for tenders from a standard security agency and to give them two shifts.

- 6) Watch towers with spot lights should be established at vulnerable points like to avoid possibility of entry through the wall.
- 7) Every year the jungle growth has to be cleared all along the compound wall for easy inspection. It is better to form a fair-weather road.

## **29. Garden Section**

At present, the natural vegetation and the planted tree species have overgrown and fully covered the canopy. From Animal management point of view and for maintenance of lawns it is not advisable to have closed canopy. Therefore, while the tree growth along roads and footpaths and visitors zones would be maintained well, in animal enclosure areas periodic canopy lifting needs to be done, to allow sunshine, and to prevent flees and lice.

- i. The Herbivores enclosure opposite place and Siddasamudram tank bund have to be developed with lawn and other garden plants, as the visitors gather here to view the animals and wild water birds. Some sitting arrangement has to be provided
- ii) The children corner, formal garden, main road and outside area, parking stand are to be developed with Lawns.
- iii) Grass pitching, rock garden has to be taken up in the zoo premises.
- iv) The area adjacent to the Canteen has to be developed with good lawn.
- v) Live hedges to most of the enclosures has been damaged or decayed. It has to be replaced and restored. For this different live hedge species can be tried for this purpose.

**30. Compliance with conditions stipulated by the Central Zoo Authority**

Sr. No	Norm No. under RZR, 2009	Condition Stipulated	Time Period to Comply	Since when pending	Status with regard to compliance of the conditions as submitted by the Officer-in-charge of the Zoo
<b>1. General requirements</b>					
1	10.1 (2)	The Zoo premises should be kept clean. The seized vehicles and other scrap kept within the Zoo premises shall be removed immediately	With immediate effect	22.9.2009	Complied with, the seized Vehicles and other scrap have removed from the zoo premises.
2	10.1 (3)	Paid Morning walk by visitors inside the Zoo premises should be stopped	Immediately	21.6.2016	Complied with.
3	10.1 (4)	Boundary wall damaged at multiple locations shall be repaired on top priority	Six Months	21.6.2016	Complied with, constructed the damaged Boundary walls.
4	10.1 (6)	During evaluation, it is observed night guard staying in the residence on the zoo campus. Besides, it is observed that zoo staff residing in one of the rooms of the Veterinary Hospital of the Zoo. Residential area of the zoo shall be separated by a boundary wall of 2 meters height from ground level with independent entry/ exit.	Three months	21.6.2016	Complied with. No Zoo staff or night guard is staying within the Zoo premises
5	10.1 (7)	Another STP is to be constructed.	One year	21.6.2016	We have sent the proposals to Greater Warangal municipal Corporation for construction of another STP. Shortly they take up the work

6	10.1 (9)	The Primary objective to operate the Zoo shall be conservation of wildlife. The domestic duck, Rabbits and Guinea pigs should be removed from the Zoo premises and may be housed away from the wild animal enclosures	With immediate effect	22.9.2009	Complied with. No domestic animal is kept in the Zoo premises
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## 2. Administrative and Staffing Pattern

7	10.2 (1)	The zoo should have a one full time officer-in-charge of the zoo, the said officer should be delegated adequate administrative and financial powers to purchase feed and medicine and carryout emergency repairs of animal enclosures, as may be necessary for proper upkeep and care of zoo animals	With immediate effect	22.9.2009	The Zoo is completely managed and monitored by the District Forest Officer, Warangal Urban & Jangoan. A full time Forest Range Officer is in-charge looking after purchase of feed medicines and carried out the emergency repairs of animal enclosures and proper upkeep and care of Zoo animals
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8	10.2 (2)	It is observed that though services of the Assistant Veterinary Surgeon of the Animal Husbandry Department are being availed, it is not daily. Being a small zoo, full time Veterinarian has not been recruited. The Zoo operator shall provide scientific and technical staff to assist the Officer-in-charge as per provisions laid down in the Recognition of Zoo Rules, 2009.	Six months		<p>Proposal has been submitted to Government to recruit a full time Veterinarian and to create the post of Veterinary Assistant Surgeon in Kakatiya Zoological Park, vide Rc.No. ZAPAT/2016/S4, dt: 10.02.2017.</p> <p>Now a Veterinary Assistant Surgeon is providing services on honorarium basis. He provides services to the Zoo with utmost care and also provide services during Rescue and rehabilitation of Wild Animals</p>
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### 3. Development and Planning

9	10.3 (1)	The Zoo should prepare a long term Master plan for its development in the format as circulated by the Central Zoo Authority. The copies of the said plan should be submitted to the Central Zoo Authority for its approval.	Three months	22.9.2009	The Zoo Master Layout Plan has already been approved by the CZA and also the Master Plan is also under Scrutiny.
10	10.3 (6)	Animal collection plan should be prepared and be included in Master plan for approval from the Central Zoo Authority.	Six Months	22.9.2009	Complied with, Animal collection plan prepared and submitted to Central Zoo Authority of India for approval.

### 4. Animal housing, display of animals and animal enclosures

11	10.4 (1)	The Zoo operator shall endeavor to simulate the conditions of the natural habitat of all the animals housed in each enclosure as closely as possible. Planting of appropriate endemic species of trees for providing shade and shelter, which merge in the overall environment of the enclosure, shall be provided.	Six Months	22.9.2009	Complied with, Provided the shades and enriched the enclosures.
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12	10.4 (2)	(i) Star tortoise should be shifted to a large enclosure. (ii) Deer enclosure should be strengthened and broken & loose chain link fence should be replaced. (iii) Pheasant enclosure requires breeding boxes and perching places. (iv) All the bird enclosure should be made rat proof as it is observed they were feeding on birds' food.	Six months	22.9.2009	Complied with, (i) Star tortoise were shifted into the open large enclosure. (ii) Deer enclosure was strengthened and separated with the chain link fence. (iii) Arranged Breeding boxes in the Pheasant enclosure. (iv) All the bird enclosures were made rat proof.
13	10.4 (3)	Foot Baths be provided at entrance of enclosure	Three months	21.6.2016	Complied with, Foot baths were provided at the entrance of enclosures.
14	10.4 (6)	Enrich the environment in enclosures especially in enclosures for Sloth Bear	Three months	21.6.2016	Complied with, Enriched all the enclosures
15	10.4 (7)	Screening shall be provided between enclosures for Nilgai, Black Buck and Four horned antelope	Six months	21.6.2016	Complied with, Screening between enclosures has been made by vegetation.
16	10.4 (10)	Signage at vacant enclosures should be masked to avoid confusion to visitors. Also, should make efforts to justifiably use the vacant enclosures in between	Three months		Complied with
<b>5. Upkeep and health care of Animals</b>					
17	10.5 (1)	Drainage system should be covered and be extended up to the exit of the Zoo.	One year	21.6.2016	Some portion of drainage system was covered and proposals submitted to Greater Warangal Municipal Corporation for construction of remaining drainage portion. It will be taken up shortly

18	10.5 (2)	Food and water samples shall be tested periodically	One month	21.6.2016	Complied with, Water samples and food samples are tested periodically.
19	10.5 (5)	The should have periodic application of disinfection in each enclosure as per the direction of the veterinary officer of the Zoo.	With immediate effect	21.9.2016	Complied with, Periodic application of disinfectants in each enclosure is carried out under the supervision of In-charge Veterinary officer of the Zoo.
20	10.5 (5)	(a) Solid waste is being removed physically; the liquid water is passing through drain. (b) Sewage treatment plant work is almost completed and treating drainage water and municipal corporation is planning to construct underground drainage. If it is late, the park can use Hume pipes through which the sewage water can runoff OR by constructing the box type drain covering with cement slabs. This should be attended immediately to avoid adverse effect on the health of the zoo animals and also zoo visitors.	With immediate effect  With immediate effect	20.1.2014	(a) Complied with, Solid waste and liquid wastes are being passed through drainage. (b) Complied with, some portion of drainage system was constructed by the Greater Warangal Municipal Corporation covered & proposals was submitted to Greater Warangal Municipal Corporation for construction of remaining drainage portion and another Sewage Treatment plant.
21	10.5 (8)	A written schedule for checking parasitic load and vaccination should be prepared and kept at each of the enclosures for animals.	One month	22.9.2009	Complied with, displayed the written schedule for checking parasitic load and vaccination schedule at each of the enclosure.

22	10.5 (9)	The staff involved in the healthcare of animals should be screened against zoonotic diseases at least once every year.	One month	22.9.2009	Complied with, We organized a health camp to the Zoo Keepers in the Zoo on 18.02.2019 & 11.11.2019
23	10.5 (10)	Operator of the Zoo should prepare and use Keeper's Dairy, Daily Report, Animal Treatment Card, Animal History, Herd Card and Stud Book.	One month	21.6.2016	Complied with, all the records are maintained in prescribed CZA formats printed by the Zoo park.

#### 6. Veterinary and infrastructure facilities

24	10.6 (1a)	The should have a treatment room in the premises of the Zoo where routine examination of animal can be undertake and immediate treatment can be provided, if required.	Six months	22.9.2009	Complied with, Zoo hospital was renovated with treatment room in the Zoo premises.
25	10.6 (3)	A quarantine and isolation ward should be constructed as proposed.	One year	21.6.2016	It will be taken up during the Next Financial year as it is proposed under ZAPAT Scheme
26	10.6 (3)	Post-mortem room be equipped with sufficient light and equipment	One year	21.6.2016	It will be taken up during the Next Financial year as it is proposed under ZAPAT Scheme

#### 7. Post-mortem and disposal of carcasses of animals

27	10.7 (1)	The Zoo operator should conduct detailed post-mortem of the animals that dies in the zoo by the veterinarian registered with State Veterinary Council or Veterinary Council of India and findings of such operation should be recorded for the period of at least six months	With immediate effect	22.9.2009	Yes, the postmortem is being done by the Veterinarian of the Zoo and detailed post mortem findings are recorded in the prescribed proforma communicated by the CZA since 2012.
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28	10.7 (2)	Post-mortem findings should be recorded in format prescribed by the CZA	Immediately	21.6.2016	Complied with
<b>9. Acquisition and Breeding of animals</b>					
29	10.9 (4)	The Zoo should acquire appropriate mate for the single Sloth Bear house at the Zoo	Six Months	22.9.2009	Complied with.
30	10.9 (7)	Spotted Deer in surplus be spared to other Zoos or released in wild, if found fit	Immediately	21.6.2016	Complied with, The Surplus stock of Spotted Deer will be released into the Wild where suitable habitat has available
31	10.9 (9)	Every Zoo shall endeavor to limit the number of animals of each species within the limit set by this animal collection plan of the zoo by implementing appropriate population control measures like segregation of sexes; vasectomy, tubectomy and implementation of pelts etc., with the consideration of the health and welfare of the animals and interest of their long term survival	With immediate effect	20.1.2014	-
		The Surplus stock of spotted deer - 32 Nos and Peafowls-21 numbers be shifted to needy zoos and balance stock of Sambar deer, Spotted Deer, Chowsingha only be maintained			-

		81 No.s of Grey pigeon limiting minimum balance can be released to the forest under authority			Complied with, 44 Grey Pigeons have been released in wild in the year 2014
		There are 26 nos. of Rose ring parakeet. This also to be limited to 2:4 = 6 nos. and rest be transferred to the needy zoos			Complied with, 17 Rose ring parakeets have been released in wild on 15.08.2016
32	10.9 (10)	A Special team should be designated to deal with animal escape from the enclosure/ zoo accidentally and immediate action should be taken	Immediately	21.6.2016	Complied with, Special team was established in the Zoo to deal with animal escape from the enclosure and to rescue the wild animals during the Man-animal conflict.
33	10.9 (11)	Rescued Pigeons and Mongoose be released in wild	Immediately	21.6.2016	Complied with, rescued pigeons and Mongoose were released into the wild.

## 12. Visitors Facilities

34	10.12 (1)	The Zoo should provide adequate civic facilities like toilets, visitor's shed and drinking water points at convenient places in the Zoo premises	Three months	22.9.2009	Complied with, Zoo premises was provided adequate civic facilities like toilets (3 Toilet Blocks), visitor's shed (5 Nos) and drinking water points at convenient places.
35	10.12 (3)	The Zoo Operator should provide access to the Zoo for disabled visitors including those in the wheel chair		22.9.2009	Complied with, Zoo premises was provided access to the disabled visitors like wheel chair and Battery operator vehicle.

### Rule 11 Maintenance of records and submission of inventory

36	11 (1)	The Zoo shall keep the record of the birth, acquisitions, sales, disposals & death of all animal. The inventory of the animals housed in the zoo as on 31st March of every year should be to the Central Zoo Authority by 30th April of the same year.	With immediate effect	22.9.2009	Complied with, Zoo kept record of the births, acquisitions, disposals & deaths of all the Zoo animals. The Annual inventory report is submitted every year before 30th April.
37	11 (1)	The Zoo should submit the summary of death of animals in the Zoo every financial year, along with reason for death identified on the basis of post-mortem reports and tests by 30th April of the following year to the Central Zoo Authority. In case of death of critically endangered species a report along with the details specified above should be submitted to the Central Zoo Authority within 24 Hours.	With immediate effect	22.9.2009	Complied with, the Stock register on Deaths, Births, acquisitions and disposals is being maintained.

**Section 381(1) of the Wildlife (Protection) Act, 1972**

34	The Kakatiya Zoological Park, Warangal has acquired one pair (1:1) of leopards from the LaCONES, CCMB, Hyderabad. However, did not produce any evidence of prior approval of the Central Zoo Authority under section 381(1) of the Wildlife (Protection) Act, 1972. In this regard, the Officer-in-charge of the Kakatiya Zoological Park, Warangal shall submit a clarification to the CZA.	With immediate effect	Complied with, a report was submitted on acquisition of Leopard (1:1) from LaCONES, Hyderabad to the CZA, New Delhi
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**31. List of free living wild animals within the zoo premises**

- a. Mammals are not living as free ranging in the zoo premises.
- b. Birds - **Only Peafowl are living in the zoo premises.**
- c. Reptiles are not living as free ranging in the zoo premises



**Thank You**