

KAKATIYA ZOOLOGICAL PARK,  
HANUMAKONDA

**ANNUAL REPORT**  
**FOR THE YEAR 2020-21**



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

- Lockdown has been implemented from 15.03.2020 onwards. No visitor is allowed into the Zoo Park. Precautionary measures adapted from time to time in the Zoo Park to prevent Sars-Cov-2 (COVID-19). No animal is affected with COVID-19. All the animal keepers are survived from the pandemic situation. During this year, we rescued more no. of wild animals, which were entered into the human habitations.
- The Zoo park is facing financial trouble in the pandemic.
- The Zoo reopens to the visitors on 2.11.2020 with the precautionary measures i.e. the staff and the visitors should maintain the distance and should wear the protective gears like covering mouth & nose with the masks, applying the sanitizers to the hands.
- Surplus Spotted deers and Sambar deers were translocated from the Zoo park to the forest area with the permission of Chief wildlife Warden, Telangana.
- There is a need for a Reptile house, if permitted and financed the work can be taken up.
- Online Refresher Course on Wildlife Health Management for Veterinary Health Professionals hosted by Central Zoo Authority, New Delhi from 23.2.201 to 24.2.2021 has changed our Veterinarian to think in a scientific manner.
- Strengthening the enclosures was started in a better way to its natural habitat. 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.
- 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.

## 6. About us

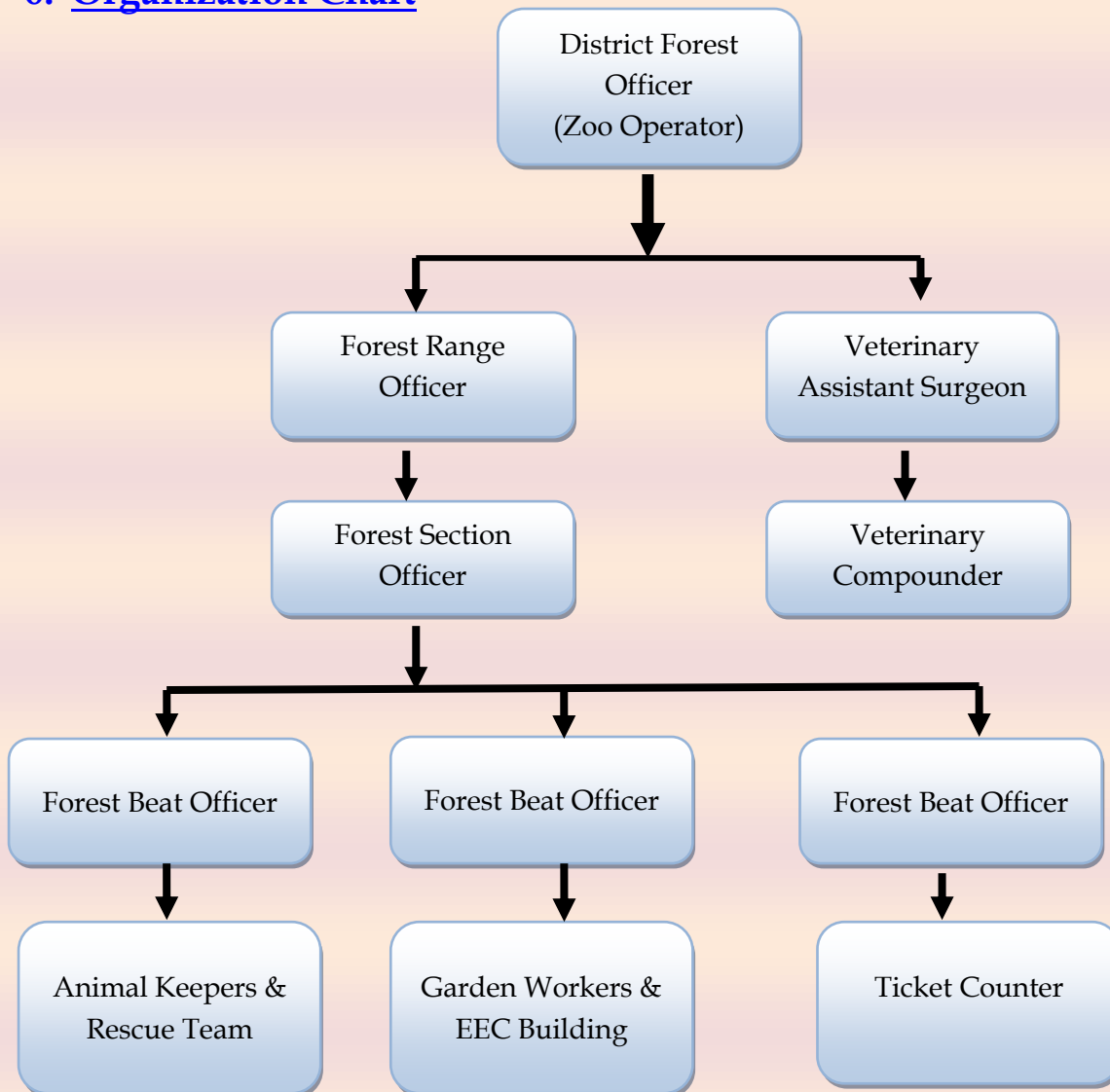
S.No.	Particulars	Information
1.	Name of the Zoo	Kakatiya Zoological Park, Hanumakonda
2.	Year of Establishment	1985
3.	Address of the Zoo	Hunter Road, Hanamkonda
4.	State	Telangana
5.	Telephone Number	0870-2431546
6.	Fax Number	--
7.	E-mail address	<a href="mailto:dfowglurban@gmail.com">dfowglurban@gmail.com</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)	18.08.2021.
11.	Category of Zoo	Small Zoo
12.	Area (in Hectares)	19.22
13.	Number of Visitors (Financial Year)	Adult : 102721 Nos
		Children : 23984 Nos
		Total Indian : 126705 No.s
		Total Foreigners : ---
		Total Visitors : 126705 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
	Name of the Operator	Dr.G.Ramalingam, IFS.,
	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. Bikshapathi
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.	Refresher Course on Wildlife Health Management for Veterinary Health Professionals hosted by Central Zoo Authority, New Delhi.	23.02.2021 & 24.02.2021	Virtual (Online) training through webex meet.

## 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 (Nos.)	Childrens (Nos.)	Camera (Nos.)	Total Visitors (Nos)	Entry Fee (Rs.)	Battery Vehicle (Rs.)	Canteen Rent (Rs.)	Vehicle Parking (Rs.)	Total Revenue Amount (Rs.)
1	2	3	4	5	6	7	8	9	10	11
1	Apr-20	Zoo Closed Due to Covid-19								
2	May-20									
3	Jun-20									
4	Jul-20									
5	Aug-20									
6	Sep-20									
7	Oct-20	8330	1458	67	9788	289270	0	0	0	289270
8	Nov-20	12973	2898	83	15871	498460	960	0	0	499420
9	Dec-20	18407	4398	159	22805	707580	2350	0	0	709930
10	Jan-20	26671	7170	107	33841	977427	7210	0	0	984637
11	Feb-20	19766	4839	119	24605	903724	840	0	34000	938564
12	Mar-21 (upt to 29.03.21)	16574	3221	71	19795	781230	500		34000	815730
<b>TOTAL :</b>		<b>102721</b>	<b>23984</b>	<b>606</b>	<b>126705</b>	<b>4157691</b>	<b>11860</b>	<b>0</b>	<b>68000</b>	<b>4237551</b>

### Expenditure :

Sl. No.	Name of the Component	APO 2020-21		Expenditure	
		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	0.750	10	0.15500
b	Cost and supply of feed to the animals and birds	A/a	20.000	A/a	0.77500
c	Cost of Plants (Ornamental & Shade, Fruit bearing)	200	0.200	200	0.04500
	<b>Sub Total:</b>		<b>20.950</b>		<b>0.97500</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	0.49173
b	Cost of Tranquilizing Drugs	A/a	0.500	A/a	0.59456
c	Cost of Disinfectants and Hygiene items for wild animals	A/a	0.500	A/a	0.48776
d	Cost of feed supplements	A/a	0.500	A/a	0.49898
	<b>Sub Total:</b>		<b>2.000</b>		<b>2.07303</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	12	13.400	12	13.33500
	<b>Sub Total:</b>		<b>13.400</b>		<b>13.33500</b>
<b>IV</b>	<b>Visitors Amenities</b>				
a	Maintenance of R.O Plant	1	0.500	1	0.33140
b	Maintenance of Existing pagodas	5	0.500	5	0.00000
c	Maintenance of existing toilets including hygiene maintenance.	3	1.000	1	0.83820
d	Maintenance of Children play area and Play equipment	1	1.500	1	1.12680
e	Purchase of Wheel chairs for disabled persons	2	0.150	2	0.04800
	<b>Sub Total:</b>		<b>3.650</b>		<b>2.34440</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	2.533	1	2.21013
b	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)	17	35.082	17	29.70095
c	Wages to the Scavenger (Rs. 9000/- per month)	1	1.080	1	1.08000
d	Wages to the Electrician cum Plumber (Skilled wages Rs.15000/- per month)	2	1.800	1	1.80000
e	Repairs and maintenance of existing bore well Motors and Solar motor etc.,	A/a	2.000	A/a	1.13678
f	POL Charges & Maintenance of Feed Transportation Vehicle and other vehicles	2	1.500	2	1.50000
g	Translocation of Deer's & Fabrication of Transportation cages	A/a	3.000	A/a	0.89850
h	Cost and Supply of Earthen pots, Bamboo Tatties, Feed Basins & Bowls	A/a	0.300	A/a	0.27500
i	Summer arrangements to the zoo animals and birds (Cost of Khus-Khus grass thatties)	A/a	1.500	A/a	1.37012
j	Maintenance of Ticket winding machine and paper rolls etc.,	A/a	0.500	A/a	0.15600

k	Providing gas cylinder for feed Cooking	12	0.200	12	0.16200
l	Maintenance of Battery Vehicle	1	0.300	1	0.30000
m	Maintenance of CC Cameras	10	0.500	10	0.49000
n	Arrangements for Covid-19 (Sanitization spraying, thermal screening device etc.,	A/a	1.000	A/a	0.63000
	<b>Sub Total:</b>		<b>51.295</b>		<b>41.70948</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	4.60502
b	Maintenance of Animal enclosures including Revetment & Strengthening of Herbivore enclosures - Moat Walls	A/a	10.000	A/a	0.31700
c	Construction of Tiger Moat, Barricades, Night shelter, Day Kraal, Squeeze cage etc.,	A/a	25.000	A/a	0.00000
d	Rat proofing to the Birds Aviaries	A/a	5.000	A/a	0.00000
e	Beautification of Main entrance and other civil works	A/a	0.500	A/a	0.00000
f	Drilling of Bore well and cost of submersible motor and its accessories.	A/a	2.000	A/a	1.93390
g	Erection of hoardings and display boards	A/a	0.500	A/a	0.00000
h	Purchase of Lawn equipment.	A/a	0.300	A/a	0.00000
j	Providing Insurance facility to the Animal Keepers, Rescue Team & Workers	26	0.500	26	0.29736
k	Spillover work of Renovation of Boundary wall	Ls	13.000	Ls	11.45144
l	Development of Bund area (including sitting arrangements and greenery)	A/a	2.000	A/a	0.00000
m	Miscellaneous unforeseen expenditure	Ls	6.905	Ls	6.68684
	<b>Sub Total :</b>		<b>73.705</b>		<b>25.29156</b>
	<b>Grand Total :</b>		<b>165.00</b>		<b>85.72847</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.	11.06.2020	NIL
2	All Animal Keepers and Rescue Team of the Kakatiya Zoological Park, Hanumakonda.	Animal Keepers and Rescue Team Members.	21.01.2021	NIL





## **17. PRECAUTIONARY MEASURES ADOPTED IN KAKATIYA ZOOLOGICAL PARK, WARANGAL TO PREVENT SARS-COV-2 (COVID-19).**

### **MEASURES TAKEN IN AND AROUND THE ZOO PREMISES:**

1. Lockdown has been implemented from 15.03.2020 onwards. No visitor was allowed into the Zoo Park.
2. Restricted the people movement, other than the Zoo staff like meat contractors, Vegetable suppliers, Media personnel into the Zoo Park. They have to hand over the items to the staff at the main gate only.
3. 1 % Viracid-S powder (Potassium Monopersulphate compound and Sodium Chloride disinfectant) has been sprayed in and around the Zoo premises from 23.03.2020.
4. 2 % Sodium hypochlorite has been sprayed in and around the Zoo premises from 07.04.2020.
5. Proper patrolling and monitoring was done by the Zoo staff periodically.

### **CHECKING AT THE ENTRANCE POINT:**

1. All the staff was examined for any ailment (Temperature, cough symptoms, any other Respiratory illness) then only they were allowed into the Zoo Park.
2. The staff was allowed to wash their hands with soap and running water for 30 seconds.
3. All the staff has been provided necessary protective gears like head covers, masks, Gloves, Shoes, Protective clothes, foot baths (2% Sodium hypochlorite).
4. Isopropyl alcohol was provided to the Zoo staff as a sanitizer.
5. All the Vehicles were being sanitized and passed through tyre bath (0.5 % Sodium hypochlorite) or 2 meter wide strip of dry slaked lime in front of the entrance gate.

### **MEASURES TAKEN FOR ZOO STAFF:**

1. Homeopathy medicine (Arsenicum album 30C) has been administered to all the staff for 3 days as a preventive drug for Covid-19. It has repeated after 1 month.
2. All the staff must be checked and recorded their body temperature on every day.
3. No sick animal keeper was allowed into the Zoo premises.
4. All the staff must leave their clothes, shoes at the dressing room and used separate clothes, boots, head cover, gloves, mask before entering into the animal enclosures. They were not allowed to work with own clothing's.
5. They were instructed to wash their items on every day in hot water.
6. Tap water, soap and sanitizers were provided to the Animal keepers at their respective enclosures to wash for 20 seconds for every 30 minutes of intervals or before attending any duty.

### **MEASURES TAKEN AT THE ENCLOSURES:**

1. All the enclosures were sanitized with 2 % Sodium hypochlorite solution.
2. Spitting, sneezing, urinating and cleaning nostrils in the enclosures were strictly avoided.
3. Avoided unnecessary stress to the animals.
4. All the left over feed, fodder and fecal material have been removed every day to avoid contamination.
5. Bio waste and other waste materials were disposed regularly by the Animal Keepers.
6. All the feeding troughs / water troughs have been cleaned & disinfected with the Kohrsolin-Th 2% solution.
7. Avoid hand feeding to the Zoo animals.
8. Nobody was allowed to go into the Enclosure area except the respective Animal keeper.
9. Sprinkling of Lime & Bleaching (3:1) for every week at the herbivore enclosures, canals and Kraals.
10. The sand have been removed in all the Bird enclosures and laid new sand in the enclosures.
11. Cages and large metal structures have to be treated by flame gun for disinfection.
12. Observe for any coughing, nasal discharge or respiratory illness, diarrhea, anorexia and report immediately in case of any abnormal behavior is noticed.

### **MEASURES TAKEN AT KITCHEN AREA:**

1. Beef or Chicken was dipped in the hot water for 5 min immediate after receiving the items.
2. Food was not allowed without being disinfected with 1% potassium permanganate solution.
3. All grains were being soaked in boiled water.
4. All the fruits & Vegetables were being washed thoroughly with running water and dipped in hot water.
5. All the packed items were washed thoroughly & dipped in hot water.
6. All the milk was boiled and used to the animals.
7. Outside green fodder was not taken inside to feed the zoo animals. Edible trees inside the zoo premises must be lopped and used to the animals.

### **MEASURES TAKEN AT VETERINARY SECTION:**

1. The big cats were monitored regularly by the Zoo Veterinary team for any abnormal signs i.e. coughing, nasal discharge, respiratory distress, diarrhea, anorexia, nervous symptoms and fever.
2. The Big cats were provided with multivitamins, especially Vit C, taurine and herbal immune modulators like Restobal.
3. Each and every animal especially Carnivores were monitored by the Zoo Veterinary team.

4. Ivermectin was administered to all the Carnivores in the Zoo Park.
5. All the animals were provided with multivitamin and Protein supplements regularly.
6. So far there was no abnormal behavior / symptoms shown by the Big Cats.
7. Health condition was monitored by the Zoo Veterinarian regularly.



## 18. Developmental works carried out during the year

### Butterfly Park



### Construction of Pagodas and Rachabandas



## Construction of Boundary Wall



Revetment to the Sambar Deer enclosure Moat

## Visitors' amenities

### Drinking Water facility



### Canteen



### Sitting Benches



19. Education and Awareness programmes during the year  
World Wildlife Day Celebrations



World Forestry Day Celebrations



# Conducting various completions among school children







## **AWARENESS TO THE VETERINARY STUDENTS BY ZOO VETERINARIAN**

### **20. 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.

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

Only Broachers and Zoo Calendar were published.

## **22. 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.

**SURPLUS SPOTTED DEERS (12 : 24) CAPTURED BY USING BOMA METHOD ON 9.7.2020 AT  
KAKATIYA ZOOLOGICAL PARK, WARANGAL AND TRANSLOCATED THEM AT  
ETURUNAGARAM FOREST ON 9.7.2020.**



**23. 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	-	-	-

**24. Surplus animal translocation from Zoo during the year**

Animals trans located into the forest from the Zoo :					
S. No.	Species	Number (M:F)	From which Zoo	Place of rehabilitation into the wild	Date of translocation
1	Spotted Deer	12 : 24	Kakatiya Zoological Park, Warangal.	Gurrevula south beat, Mulugu district.	09.07.2020
2	Sambar Deer	3 : 4	Kakatiya Zoological Park, Warangal.	Sarvai section, Chityal beat, Eturunagaram, Mulugu district.	14.12.2020

**25. 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	21.4.2020	Jackal Male	Mallikudurla, Dharmasagar, Warangal Urban dist.	21.4.20	Same place 21.4.2020	

2	8.4.2020	Langur Male	Dammannapeta , Wardhannapet, Warangal Rural dist.	8.4.20	Pakhal, Narsampet. 8.4.2020	
3	8.5.2020	Sloth Bear Male	Nanchari madur, Thorrur, Mahabubabad dist.	8.5.20	Gudur, Karlai section 8.5.2020	
4	23.7.2020	Palm Civet Female	Rangashaipet, Fortwarangal, Khila Warangal dist.	23.7.20	Same place 23.7.2020	
5	1.8.2020	Sloth Bear Male	Samudrala, Hunabad, Siddipet dist.	1.8.20	Husnabad, Siddipet 1.8.2020	
6	21.12.2020	Sloth Bear Male	Bommanapally, Chigurumamidi, Karimnagar dist.	21.12.20	Nehru Zoological Park, Hyderabad2 1.12.2020	
7	21.12.2020	Sloth Bear Female	Bommanapally, Chigurumamidi, Karimnagar dist.	21.12.20 20	Nehru Zoological Park, Hyderabad2 1.12.2020	
8	11.1.2021	Sloth Bear Male	Sirsapally, Huzurabad, Karimnagar dist.	11.1.2021	Pankenana section, Panmella range, Karimnagar 11.1.2021	





**DRIVED INTO THE RESERVE FOREST ON 3.4.2020**









## 26. Annual Inventory of animals

Form - II

[See Rule 11(1)]

Part - A

Inventory Report for the Year:

### Endangered Species\*

Sl. No	Species	Scientific Name	Stock as on 01-04-2020				During the year												Stock as on 31-03-2021				
			M	F	U	T	Births			Acquisition			Disposals			Deaths			M	F	U	T	
	<b>Birds</b>																						
1	Peafowl Common	<i>Pavo cristatus</i>	5	9	0	14														5	9	0	14
2	Peafowl White	<i>Pavo cristatus</i>	1	1	1	3														1	1	1	3
3	Grey Jungle Fowl	<i>Gallus sonneratii</i>	2	2	0	4														2	2	0	4
	<b>Total Birds :</b>		8	12	1	21	0	0	0	0	0	0	0	0	0	0	0	0	8	12	0	21	
	<b>Mammals</b>																						
1	Antelope Four Horned (Chowsingha)	<i>Tetracerus quadricornis</i>	4	9		13			4										4	9	4	17	
2	Black Buck	<i>Antelope cervicapra</i>	7	16		23													7	16	0	23	
3	Sloth Bear	<i>Ursus ursinus</i>	1	1	0	2													1	1	0	2	
4	Jackal	<i>Canis aureus</i>	2	7		9			3										2	7	3	12	
5	Jungle Cat	<i>Felis chaus</i>	1	1	1	3													1	1	1	3	
6	Mouse Deer	<i>Moschiola indica</i>	1	1	3	5													1	1	3	5	
7	Leopard	<i>Panthera pardus</i>	1	1	0	2										1			1	0	0	1	
	<b>Total Mammals :</b>		17	36	4	57	0	0	7	0	0	0	0	0	0	1	0	17	35	11	63		
	<b>Reptiles</b>																						
1	Crocodiles (Mugger)	<i>Crocodylus palustris</i>	1	2	3	6													1	2	3	6	
2	Turtle Fresh Water / Indian Soft - shelled	<i>Lissemys punctata punctata</i>	5	8	2	15			4										5	8	6	19	
3	Tortoise Indian Star	<i>Geochelone elegans</i>	6	9	4	19			3										6	9	7	22	
	<b>Total Reptiles :</b>		12	19	9	40	0	0	7	0	0	0	0	0	0	0	0	12	19	16	47		
	<b>Grand Total :</b>		37	67	14	118	0	0	14	0	0	0	0	0	0	1	0	37	66	27	131		

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

**Part - B**

**Other than Endangered Species**

S. No.	Species (Animal Name)	Scientific Name	Stock as on 01-04-2020				During the year												Stock as on 31-03-2021				
							Births			Acquisition			Disposals			Deaths							
			M	F	U	T	M	F	U	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			1	1	0	2
2	Rhea (White)	Rhea pennata	0	2	0	2														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	Chrysolophus pictus	1	1	0	2														1	1	0	2
6	Pheasant Silver	Lophura nycthemera	2	1	0	3														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
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	<i>Gallus gallus</i>	3	2	2	7												3	2	2	7	
21	Pigeon Blue Rock	Columbidae Colombiformes	18	20	2	40			8									18	20	10	48	
22	Myna	<i>Acridotheres tristis</i>	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	<i>Pyrrhura melanura</i>	2	2	0	4												2	2	0	4	
	<b>Total Birds:</b>		<b>73</b>	<b>79</b>	<b>12</b>	<b>164</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>73</b>	<b>78</b>	<b>20</b>	<b>171</b>
	<b>Mammals</b>																					
1	Deer Sambar	<i>Cervus unicolor</i>	7	16	3	26			2				3	4				4	12	5	21	
2	Deer Spotted (Chital)	<i>Axis axis</i>	37	51	3	91			4				12	24				25	27	7	59	
3	Nilgai (Blue Bull)	<i>Boselaphus tragocamelus</i>	1	3	2	6			2									1	3	4	8	
	<b>Total Mammals:</b>		<b>45</b>	<b>70</b>	<b>8</b>	<b>123</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>28</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>42</b>	<b>16</b>	<b>88</b>
	<b>Reptiles</b>																					
1	Iguana (Green Lizard)	<i>Iguana iguana</i>	0	0	4	4												0	0	4	4	
2	Terrapin Red Eared (Turtle)	<i>Trachemys scripta elegans</i>	6	8	16	30			3									6	8	19	33	
	<b>Total Reptiles:</b>		<b>6</b>	<b>8</b>	<b>20</b>	<b>34</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>8</b>	<b>23</b>	<b>37</b>	
	<b>Grand Total:</b>		<b>124</b>	<b>157</b>	<b>40</b>	<b>321</b>	<b>0</b>	<b>0</b>	<b>19</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>28</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>109</b>	<b>128</b>	<b>59</b>	<b>296</b>

## 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	Leopard	Panthera pardus	Female	09.01.2021	Septicemia due to multiple organ failure
2	Ostrich	Struthio camelus	Female	10.03.2021	Egg yolk peritonitis with Generalized Septicemia

### 1. 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.

## **2. 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.

## **3. 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.

#### **4. 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.

#### **28. 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**