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1. Report of Officer in Charge

The Tiger and Lion safari, Thyavarekoppa, Shimoga initially it was an area of 27.50 Ha with three safari enclosures namely Lion, Tiger & Herbivorous were started and now the whole Zoo and safari area is extended to 195.00 Ha.

The animals housed in the municipal Zoo of Shimoga were also relocated to this place after Central Zoo Authority of India de recognized its existence.

This zoo has been recognized as a small Zoo with Safari by the Central Zoo Authority of India and now the steps have been taken up by the Zoo Authority of Karnataka for the improvement of this zoo permitting to carry out necessary developmental works to create good infrastructure. This zoo has all the potential to become one of the finest zoos in the country in future days.

2. About Shivamogga

Shimoga is a large city which is located in the central part of the state of Karnataka, India. The city lies on either side of the banks of the Tunga River. Being the gateway for the hilly region of the Western Ghats, the city is popularly nicknamed as "Gateway of Malnad".

3. History of the Zoo

The foundation stone for Tiger and lion safari was laid on 1984 and was established in the year 1988, at Thyavarekoppa village situated 10 Kms away from Shimoga city in the Shimoga District of Karnataka State. The total extent of the TLST is 195.00 hectares. It was developed with the financial assistance mainly from Zilla Panchayat, Shimoga and supported by Malnad Area Development Board (MADB), Mysore Paper Mill (MPM) Ltd. Bhadravathi, few voluntary organisations and Karnataka Forest Department (KFD), ZAK and CZA.

Zoo

The animals housed in the mini zoo located at Municipal Park of Shimoga city were shifted to TLST, Shimoga on December 1992 as per the government of India notification dated 04th August 1992 which derecognized the Municipal Zoo at Shimoga city.

Separate enclosures were constructed for Leopards, striped Hyenas, Sloth Bears, Jackals, Crocodiles and porcupine during 1996-97. Different varieties of birds and few other small Mammals were also housed in the Zoo.

Zoo displays native and exotic animal species in its natural habitat providing conservation education and experience based tourism activities. At present there are 295 animals of 32 species. Some of the exotic animals are displayed such as ostrich, emu and some pheasants of the world. Even among the native fauna there is a great diversity comprising of felids, canids, deer (cervids), reptiles, birds and other beautiful and majestic animals that can be seen in open natural enclosure. Hence, a visit to the Shivamogga zoo is quite rejuvenating and rewarding.

Safari

The Tiger and Lion Safari, Tyavarekoppa (TLST) is the second safari established in Karnataka after Bannerghatta Biological Park. It was started with three safari enclosures viz. Lion of 21 ha, Tiger of 20 ha and Herbivore safaris covering an extent of 30 ha.

Shivamogga zoo has 5 tigers with male female ratio of (2:3) 4 lions with (2:2) ratio and herbivores of about 145 numbers.

Tigers and lions were introduced to the safari from various zoos on their respective safari enclosures.

A diversity of herbivore species like spotted deer, sambar deer, blackbucks, hog deer and Nilgai were introduced to the herbivore safari over the period of time.

Safari vehicle:

Shivamogga zoo has 5 (five) buses of 20 (twenty) seats to take the visitors around the safari, safari experiences a large group of people and to allow uninterrupted service, there are 7 temporary drivers for the safari buses. Two safari jeeps Mahindra Bolero was also introduced to safari during 2018, for the closest view of the animals and presumes privacy for the visitors.

It has also been proposed to change the name of tiger lion safari to Shimoga zoo and safari.

4. Vision:

To inspire public for valuing the presence of living beings in their lives, intern providing an enjoyable educational experience about wildlife.

5. Mission:

Shivamogga zoo will be a dynamic center for animal breeding and exhibit which would inspire people to love care and protect wild habitat.

6. Objectives

- Provides the best possible care for our animals
- Display of wild animals in natural habitat area and enclosure to connect with the nature
- Animal welfare
- Participating in Conservation breeding programs
- Deliver best wildlife education training and research
- Rescue and rehabilitation of wild animals and birds

- Education and recreation for general visitors and tourist

7. About Us:

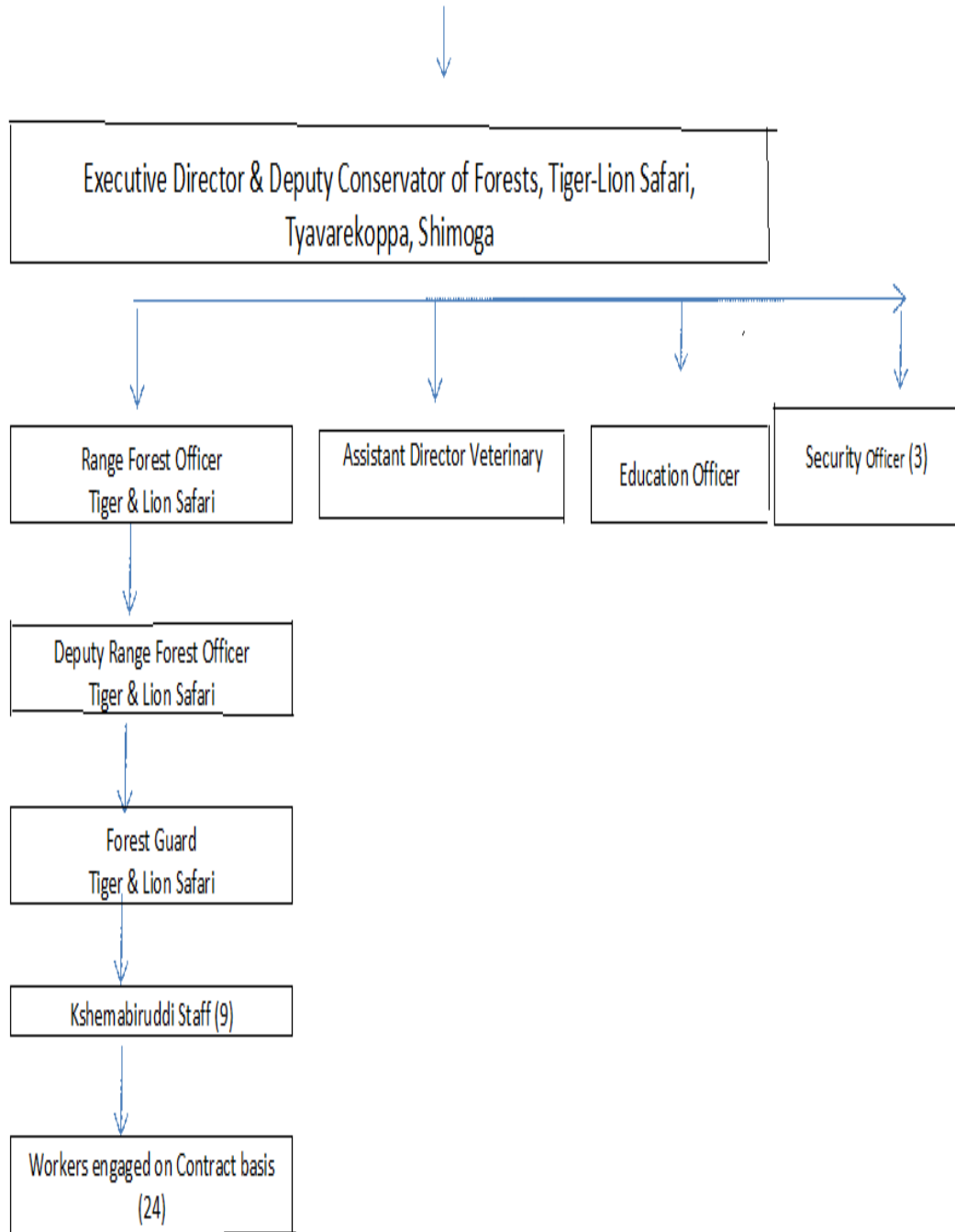
Sl.No.	Particulars	Information
Basic Information about the Zoo		
1	Name of the Zoo	Tiger & Lion Safari, Tyavarekoppa
2	Year of Establishment	1988
3	Address of the Zoo	Thyavarekoppa, Shimoga
4	State	Karnataka
5	Telephone Number	9448125892
6	Fax Number	-
7	E-mail address	tigerlionsafari@gmail.com
8	Website	www.shivamoggazoo.com
9	Distance from nearest	Airport: 184 km Mangaluru International Airport
		Railway Station: 13 km Shivamogga Town Railway Station
		Bus Stand: 10 km K.S.R.T.C Bus Stand, Shivamogga
10	Recognition Valid upto (Date)	Sep
11	Category of zoo	Small Zoo
12	Area (in Hectares)	195.00 Ha
13	Number of Visitors (Financial Year)	Adult : 168430
		Children : 18849
		Total Indian : 187279
		Total Foreigners : 18
		Total Visitors: 187297

14	Visitors' Facilities Available in Zoo	<ol style="list-style-type: none"> 1. Parking Space 2. Drinking Water (R.O.Plant Installation) 3. Reception Hall 4. Pergolas 5. Children Park 6. Watch and Ward facilities 7. Canteen 8. Rest rooms 9. Museum 10.Security 11.Interpretation centre
15	Weekly Closure Day of the Zoo	Tuesday
Management Personnel of the zoo		
16	Name with designation of the Officer in-charge	Sri. B.Mukunda Chandra Executive Director & Deputy Conservator of Forests, Tiger and Lion Safari, Thyavarekoppa, Shimoga.
	Name of the Veterinary Officer	Sri. Dr.Sujay C.S
	Name of the Curator	Sri.Nagesh Balegar
	Name of the Biologist	Sri.Chethan K.V
	Name of the Education Officer	Ms.Sameena Iza
	Name of the Compounder/ Lab Assistant	Sri.Chethan K.V

Owner / Operator of the Zoo		
17	*Name of the Operator	Sri Sandeep Dave, IAS
18	Address of the Operator	Additional Chief Secretary to Government, Forest, Environment and Ecology Department, Karnataka Government Secretariat, Room No.447, 4th Floor, Gate No.2, M.S.Building, Bangalore.
19	Contact details/Phone number of Operator	080-22256722/ 22032509
20	E-mail address of Operator	prsfee@gmail.com

8. Organizational Chart

Tiger & Lion Safari Tyavarekoppa, Shimoga



9. Human Resources
Manpower of the Zoo*

Sl. No.	Designation	Number of Sanctioned Posts	Names of the incumbent
1	Executive Director (Deputy Conservator of Forests)	1	Sri.B.Mukunda Chandra
2	Assistant Director	1	Dr.Sujay C.S
3	Range Forest Officer	1	Nagesh Balegar
4	Deputy Range Forest Officer	3	Yashodhar B.H
5	Forest Guard	1	Vacant
6	Forest Watcher	3	Vacant
7	Driver	1	Vacant
8	Attender	1	Vacant
Total		12	-

10. 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
2	Animal keepers	Keepers training program	February -24 & 27, 2020	Sri chamarajendra zoological garden

11. Zoo Advisory Committee

a. Date of constitution- Nil

b. Members proposed:

The Addl. Principal Chief Conservator of Forests and Member Secretary, Zoo Authority of Karnataka, Mysore- Chairman

Executive Director, Tiger & Lion Safari, Thyavarekoppa, Shimoga

Assistant Director(V.S), Tiger & Lion Safari, Thyavarekoppa, Shimoga

Range Forest Officer, Tiger & Lion Safari, Thyavarekoppa, Shimoga

Executive Engineer, Banneghatta Biological Park, Bangalore

c. Dates on which Meetings held during the year: Nil

12. Health Advisory Committee–

d. Date of constitution : Nil

e. Members proposed:

The Addl. Principal Chief Conservator of Forest and Member Secretary, Zoo Authority of Karnataka, Mysore – Chairman

Dean, Veterinary College, Shimoga

Executive Director, Tiger & Lion Safari, Thyavarekoppa, Shimoga

Prof and Head, Pathology, Pharmacology and surgery department

Assistant Director (V.S), TLS, Shimoga

Assistant Director (V.S), Mysore Zoo, Mysore

Regional research Officer/ scientist-1, RRL, IAH & VB, Shimoga

Veterinarian, Shimoga Division and Sakkrebyle Elephant camp, Shimoga

f. Dates on which Meetings held during the year: - 24.01.21

13. Statement of income and expenditure of the Zoo

Sl. No.	Year	Revenue Collected (Rs.)	Expenditure (Rs.)
1	2016-2017	17768875.00	24182637.00
2	2017-2018	17596145.00	33317785.00
3	2018-2019	21802750.00	51243119.00
4	2019-2020	26605615.00	76906800.00
5	2020-2021	26601521.00	89591046.00
6	2021-2022	26601521.00	89591046.00

14. Daily feed Schedule of animals

Sl.No.	Species	Feed item	Quantity		Day of fasting
1	Tiger	Beef	10 kg		1 day (Tuesday)
2	Leopard	Beef	3 kg		1 day (Tuesday)
3	Other animals	Copy attached	Copy attached		Nil
			(No significant seasonal variations noted)		

15. Vaccination Schedule of animals

Sl. No.	Species	Disease vaccinated for	Name of the Vaccine and dosage/ quantity used	Periodicity	Remarks
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1	Felids	Feline calci virus infection, infectious feline rhinotrachitis, feline pan leukopenia, rabies	Feligen 1 ml ARV	Yearly Yearly	Combine d vaccine
2	Canids	Leptospirosis, CD, CPV, Rabies	Nobivac 1 ml ARV	Yearly Yearly	Combine d vaccine

16. De-worming Schedule of animals

Sl.No.	Species	Drug used	Month
1	All animals	Closantal Oxyclosinide levamizole Fenbendazole Albendazole/ivermectin	Jan April July Oct

17. Disinfection Schedule

Sl no	Animal	Daily	Weekly	Monthly	Quarterly	Annual ly
		Holding house and periphery	water tank/trough h/ pond cleaning	Anit viral spray	Gas burning	Pesticid e sprays
1	Lion	Daily	I week	II week	Jan / May/ Sep	Mar
2	Tiger	Daily	II week	I week	Feb/ June/ Oct	Apr

3	Zoo				Mar/ July/ Nov	May
	Leopards	Daily	III week , Mon	IV week, Mon		
	Bear	Daily	III week, Wed	IV week, wed		
	Hyena/ jackel	Daily	III week, Thu	IV week, Thu		
	Crocodile	Daily		IV week, Fri Pond cleaning and spray		
	Python	Daily	III week, Wed	IV week, Wed		
	Ostrich, emu	Daily	III week, Fri	IV week, Fri		
	Other mammals and birds	Daily	III week, Sat and Sun	IV week, sat and Sun		
	Duck pond area				Mar / July/ Nov Pond cleaning, anti viral spray and gas burning	

4	Herbivore safari	Daily	IV week	III week	Apr/ Aug/ Dec	
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18. Health Check-up of employees



Dental checkup for zoo employees



KFD vaccines for zoo employees

19. Population management of captive spotted deer and Sambar deer

A translocation of spotted deer and sambar deer to shetihalli wildlife sanctuary





**20. Developmental and Maintenance work for the year 2021-
22**





Construction of Tiger enclosure and holding house work in Tiger & Lion Safari





Construction of Lion enclosure and holding house work in Tiger & Lion Safari



Construction of Leopard enclosure and holding house work in Tiger & Lion Safari



Construction of Gaur enclosure and holding house & safari work in Tiger & Lion Safari





Construction of 2.00 lakh capacity GLSR at Tiger & Lion Safari



Chainlink mesh along the outer boundary
(block-V: 5600.00 to 6110.00m= 510.0m) at Tiger & Lion Safari

21. Education and Awareness Programs



Skit on forest fire for visitors by zoo volunteers



Why seeds ? Awareness program on different types of seeds for visitors



Web Game: To know about ecosystem balance and species dependent on each other for visitors



Outreach program for Tyavarekoppa govt School students on “World Tuberculosis Day”



World Tiger Day celebration :Session on Biodiversity conservation and Cleanliness drive by Sahyadri college students Shivamogga



Wildlife Week Celebration :Wildlife Yoga (Animal pose)



Bird watching program



Winter Zoo Camp: Campers learning placing of camera traps and its uses



Summer Zoo Camp: Feeding Enrichment activities by campers



Workshop on Bat Conservation by BCIT Bangalore for Ayenur Degree college students



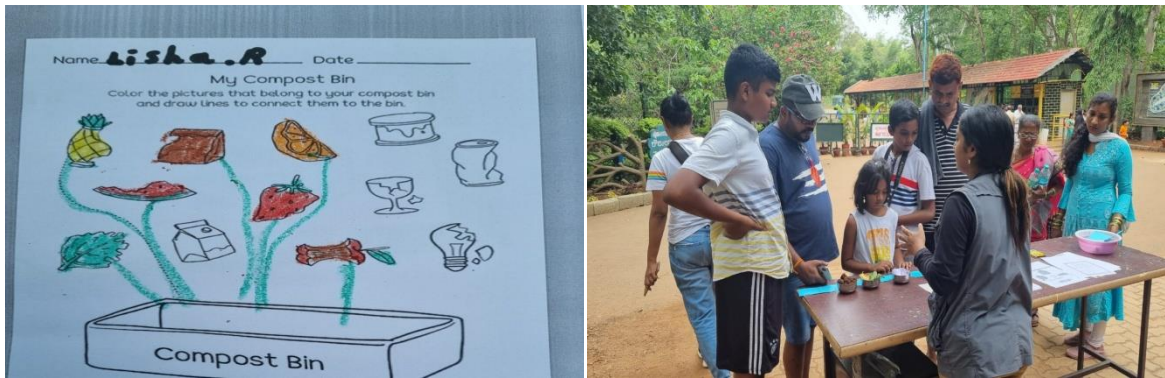
Be a zoo keeper camp: Campers learning about diet of herbivores and their foot prints



Be a zoo keeper camp: Awareness program for visitors by campers and visit to hippo enclosure to know their diet



Personality development program for zoo staff



International Compost Awareness week celebration

WILDLIFE WEEK CELEBRATION 2021

Day 1: WILDLIFE WEEK CELEBRATION

Program 1. Wildlife yoga program (Kannada yoga and research foundation)



Program 2: Cleanliness drive by students



Program 3. Web Game





Program 4. Snake Awareness program





Day 2: WILDLIFE WEEK CELEBRATION

Program 1. Bird Watching program



Program 2. Be Zoo Keeper for a day

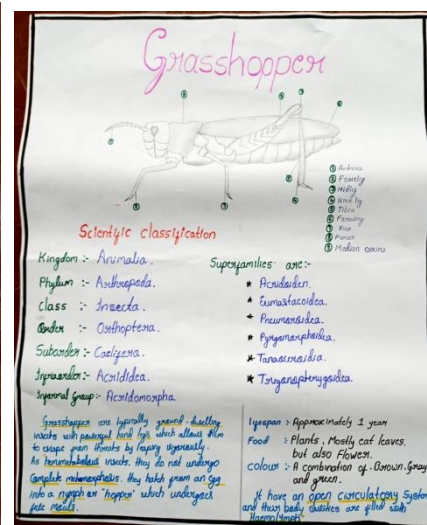
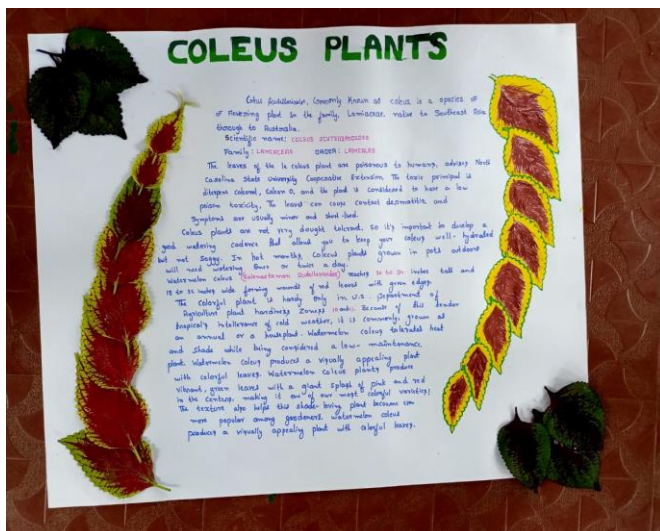


Day 3: WILDLIFE WEEK CELEBRATION

Program 1. Photography exhibition and competition



Program 2. Small Researcher (25 students)



Day 4: WILDLIFE WEEK CELEBRATION

Program 1: Outreach for GHPS, Gadikoppa



Day 5: WILDLIFE WEEK CELEBRATION

Program 1. Gardening program by students



Program 2. How to build a Viverium



Day 6: WILDLIFE WEEK CELEBRATION

Program 1. Wildlife conversation talk



Program 2. Hand Painting competition



Day 7: WILDLIFE WEEK CWLEBRATION

Program 1. Outreach (Snake Awareness Program)

(Sharavathi High School, Harige, Shivamogga)



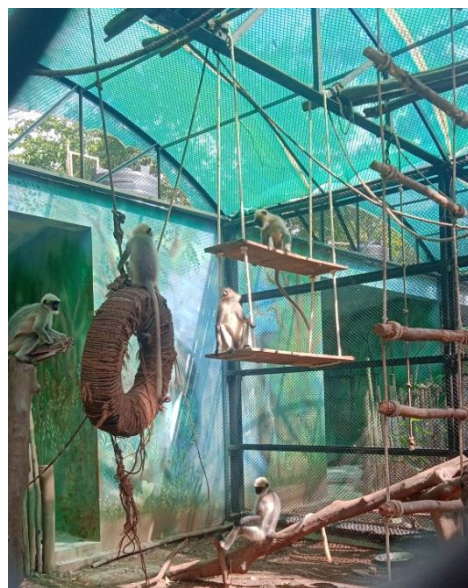
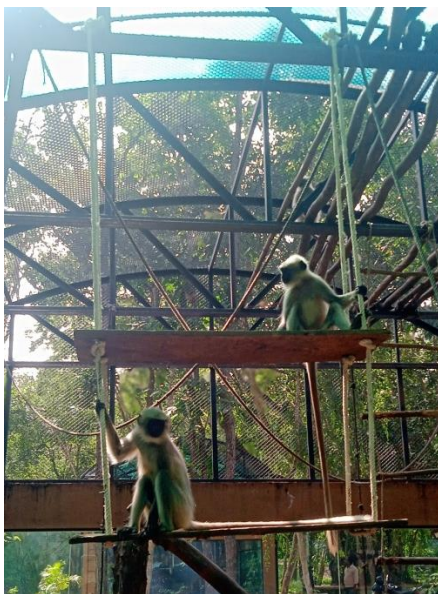
22. Enrichment work

1. Asian palm civet enclosure setup



Asian palm civets are Nocturnal and semi arboreal mammals, because of their arboreal nature inside their enclosure needs lot of tree logs, branches with connectivity for animals movements for that we have created hiding place and tree log connectivity in the enclosure.

2. Grey Langur/ Hanuman Langur enclosure Enrichment



Primates are very active animals in the animal kingdom so captive management of primate is mainly by Physical enrichment of the animal in the enclosure so that we have created different activity items like rope ways, ladder, swings, logs, tire swing etc, by these items animals spend more time in physical activity.

3. Sloth Bear Physical Enrichment





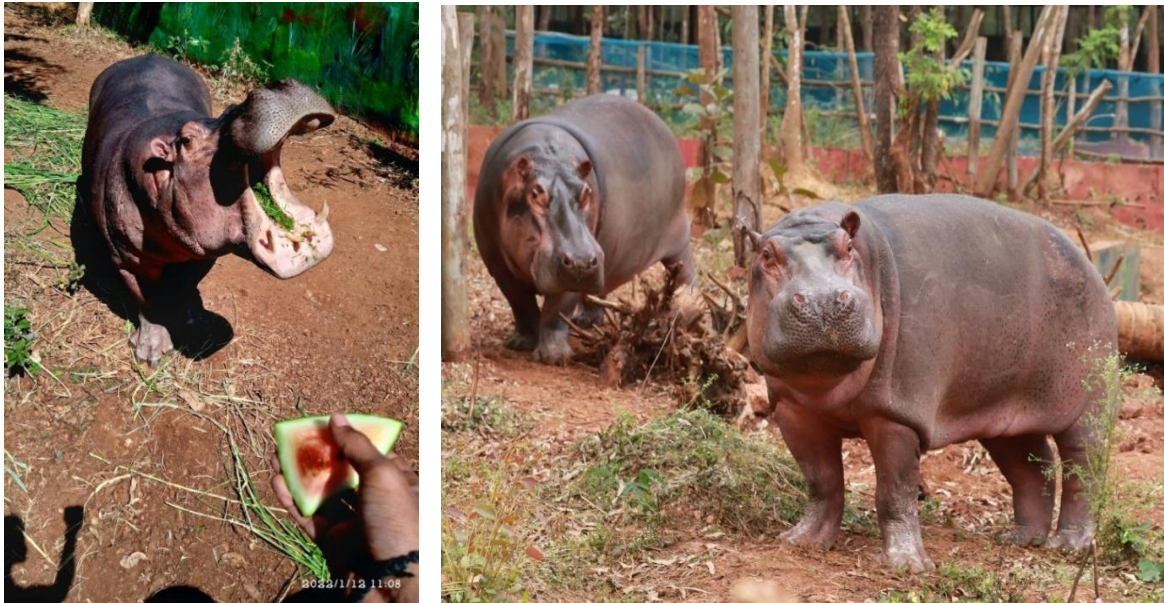
Physical enrichment of sloth bear we have prepared swing using tree branches and iron rope and also we scattered different size of tree logs in the enclosure so that these items keep animals active in enclosure and also reduce their captive stress.

4. Rusty spotted cat enclosure setup



Rusty spotted cat are nocturnal and semi arboreal feline species and this is the world smallest cat species in their enclosure we have created place for hide and rest (shelter) and for their movement on the tree we have created bridges or tree connectivity using tree logs and branches

5. Feeding enrichment and Positive reinforcement training of Hippopotamus



Hippo's are large semi aquatic mammals native to Africa, for these large herbivores animals we give watermelon and other fruits for the animals training and bond making this helps in animals close observation,

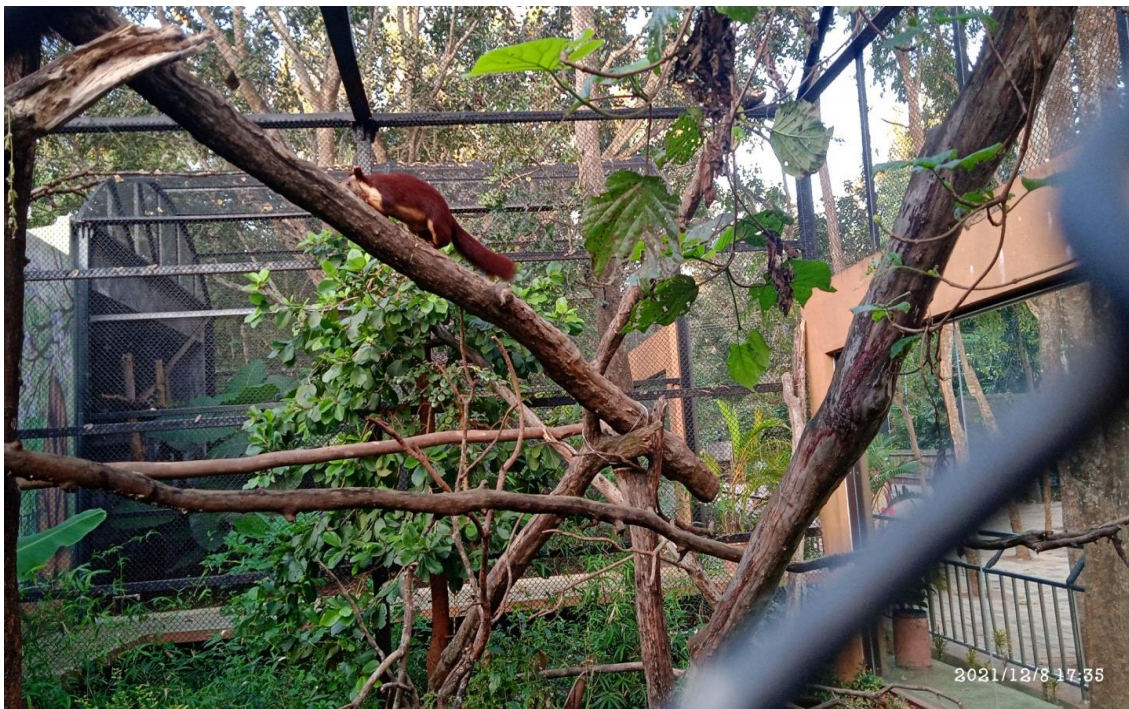
6. Feeding enrichment of Leopards

Chicken piece are filled inside the gunny bag with grass and hanged to the tree inside the leopard enclosure this makes animal physically and behavioral active through the day



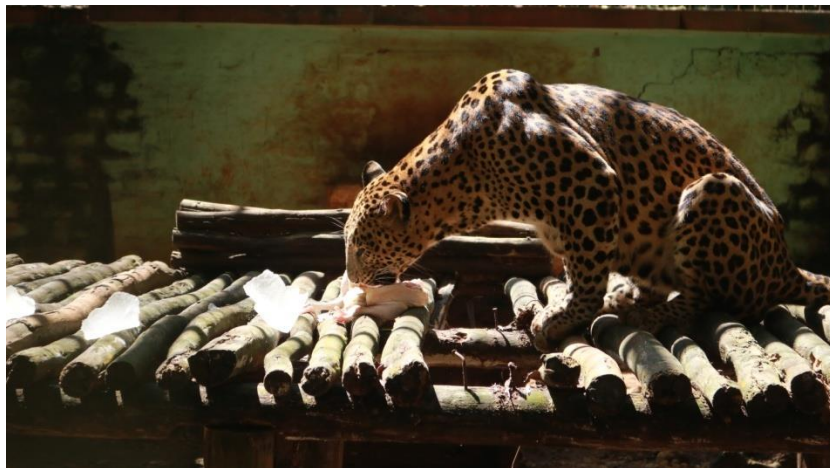


7. Enclosure setup for Malabar giant Squirrel



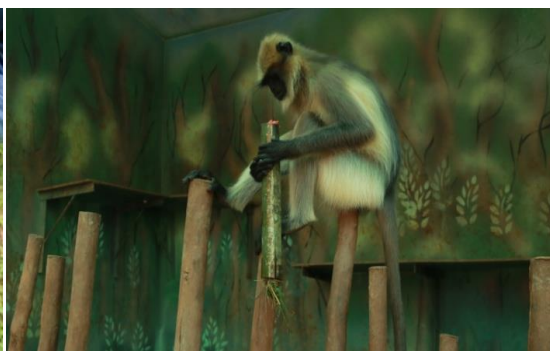
Malabar giant squirrel are the arboreal rodent species they lives most of their life time on the tree. Tree connectivity and tree holes are essential elements for squirrels in captivity so that we have created complex tree connectivity using logs and branches in the enclosure this keep animals in active entire day and perform their natural behavior

8. Feeding Enrichment of Leopards



Freeze chicken given to leopards to enhance their smelling sense and touch these enrichment enhance their behavioral activity.

9. Feeding Enrichment of Langur's



Different fruits pieces and honey filled inside the bamboo stem and given to the langur's this makes animal's think how to get the fruits from bamboo stem this increase the mental ability and activity of langur's

10. Feeding Enrichment of Sloth bears



Sloth bear likes more Insects and honey for that their jaw has modified for sucking insects, to enhance activity of the bears. Bamboo stems are filled with honey, insects and those stems given to bear this activity keep bears busy in sucking honey and insects from the bamboo stem.

11. Enrichment for Emu



Emus enjoying the water spray enrichment during summer days

12. Habitat enrichment in Birds enclosure



In new glass based enclosure are enriched with Tree logs, branches, rocks, bushes and grass which are suitable for flying and ground birds

23. Animal health care

Zoo Hospital, Tiger and Lion Safari, Shimoga

The Zoo hospital is the epicenter of treatment and care for the variety of animals housed in Tiger and Lion Safari. It is a small dispensary equipped with basic infrastructure and facilities. It has a basic diagnostic laboratory and an operation theatre set up. The hospital is attached to an in-patient/quarantine facility for large carnivores. This facility is managed by a Senior Veterinary Officer deputed from Dept of Animal Husbandry and Veterinary Services who looks after the upkeep of the animals of the zoo.

Staff:

1. Senior Veterinary Officer
2. Biologist/ Veterinary Assistant

Facilities available at zoo hospital:

- **Operation Theater** : Operation Table, Stretcher, Crash Cart, OR lamp and Other minor Emergency Rescue Equipment's
- IP Camera Solar For Observation And Recording
- Oxygen Cylinders And Masks
- Transit Cages Pet Carriers

Diagnostic Laboratory

- Blood Auto Analyzer
- Serum Semi Auto Analyzer
- Olympus Compound Light Microscope
- Kits And Equipment's For Analysis
- Centrifuge
- Autoclave
- Water Bath

- Refrigerator
- Deep Freezer
- 3.5 Kva UPS And 5 Kva Generator For Uninterrupted Electricity
- Ultra Violet Lamps
- Deep Freezer Unit

Medication purchased and stocked at zoo hospital:

The Zoo hospital has a stock room with a variety of medications for emergencies, treatment and prophylaxis.



Tranquilizing Equipments:

The Zoo Hospital is equipped with a standard set of tranquilizing equipments and drugs that are used for drug delivery and immobilization of animals under various situations.



Blow Pipe Projector and Syringes



Tranquilizing Projector and Syringes



Tele-Dart Projector with its accessories.(RD 706)



LABORATORY EQUIPMENTS FOR DISEASE DIAGNOSIS:

The Zoo hospital has a standard laboratory set up for basic hematology, serology and disease diagnosis.



Centrifuge unit



	Semi auto-analyzer for serological works
	
Auto analyzer for blood parameters	Electrical compound microscope

Equipment's proposed for operation theatre:

1	Veterinary scrub station	1	Cleaning
2	Veterinary Dental scaler and polisher	1	Teeth and oral health
3	Veterinary endoscope	1	Diagnosis
4	Veterinary ultrasonography unit	1	Diagnosis
5	X ray machine portable	1	Diagnosis
6	CR system with accessories and cassettes	1	Diagnosis
7	Laser physiotherapy unit	1	Healing
8	IR thermogram camera	1	Diagnosis
9	Complete online UPS systems with accessories 5 KvA	1	1 unit
10	20 KVA generator with wiring	1	1 unit
11	Stretcher for shifting animals with tire base, hydraulic lifting	1	To lift animals in field conditions and transport to ambulance

12	Special surgical instruments	Set	Perform surgeries
13	Instrument trolleys	4	Surgery / treatment
14	Orthopedic set		Orthopedics
15	Gas vaporizer with portable stand and delivery unit workstation	1	Anesthesia
16	Patient monitoring system	1	Monitoring
17	Thermo cautery	1	Arrest bleeding
18	SPO2 unit	1	Health monitoring
19	Otoscope	1	Examination
20	Laryngoscope fiber optic	1	Examination
21	Ophthalmoscope	1	Examination
22	Small animal restraint squeeze cages – SS 304	2	Restraint
23	ET tubes size 1 – 15	1 set each	Ventilation
24	Suction pump	1	Aspiration
25	Egg incubator	1	Incubation
26	Infant incubator	1	Neonatal care
27	Air conditioner	2	OT sterility
28	Oxygen concentrator	1	Oxygenation
29	Torch high beam	1	Emergency
30	Portable UPS half hr back up	1	Emergencies in field
31	Post mortem kit	1	PM
32	Hair blow drier	1	Instant heating of animals suffering from cold shock

33	Centrifuge	1	Lab purpose
34	Compound electric Microscope with camera	1	Lab purpose
35	Veterinary defibrillator	1	Revival of patient
36	Shelves, cupboards and furniture	All rooms as per plan	Storage
37	Washing machine	1	Cleaning clothes
38	Veterinary ambulance : Swaraj mazda mini bus, complete A/C, interiors and convertible treatment animal care unit, refrigerator mini, generator 2kv, interiors	1	Treatment and transportation

Treatment and health care management undertaken in the zoo

Feeding, care and treatment of Barking deer and 2 Jackal puppies which are rescued

These fifteen day old spotted owlets were hand raised with commercial diet (royal canine Recovery). Feeding was done initially 5 times a day mainly during the night and later on reduced to two time feeding. They were later on weaned to chicken.



Management of Severe enteritis dehydration problem in Toddy cat

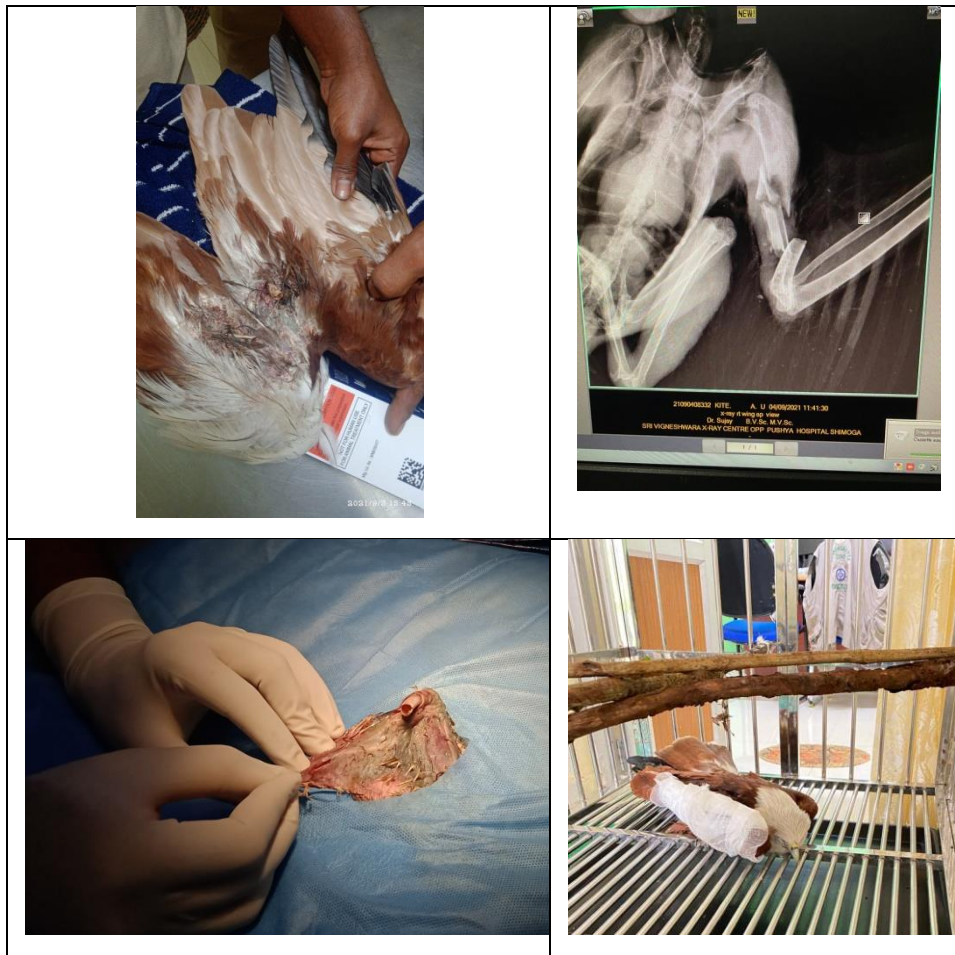
An adult female black buck was presented to the hospital with severe blunt force trauma to the hind limbs. The animal was sedated and suitable treatment along with fluid therapy was conducted. Post recovery the animal was reintroduced to the group.



Surgical management of Tibial fracture by Veterinary dynamic compression plating.

An Brahminy kite was presented with a complicated transverse fracture of the tibial midshaft from Hampi zoo. Post radiograph the fracture was confirmed and the route of treatment was decided as internal fixation by Veterinary dynamic compression plating. The animal was sedated and shifted to the veterinary college, Shimoga where the procedure was carried out by Capt.(Dr) Ravi Raidurd, HOD, Dept of Surgery and Radiology. The affected limb was also

plastered with Fibercast and animal was allowed to heal post-op in a squeeze cage. Unfortunately, the animal succumbed to secondary complications by haemoprotozoan infection.



Treatment of an injured spotted deer rescued from a Shimoga wildlife division.

An adult female spotted deer was rescued from a nearby village due to conflict, the animal was sedated and a health assessment was carried out. Upon a clean bill of health the animal was shifted to the zoo.



Treatment and wound management in Indian Golden Jackal:



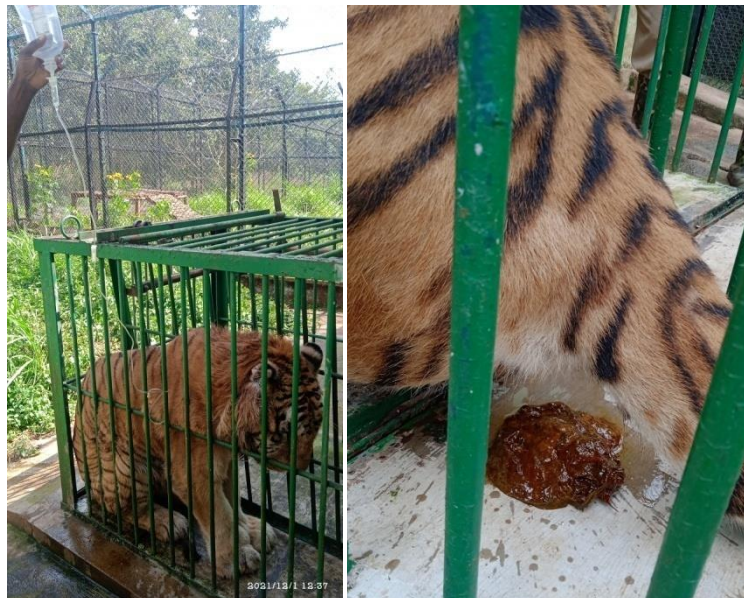
A senile jackal was presented with multiple bite wounds in the neck region. Upon close observation it was noticed the trachea was punctured. The entire area was scrubbed and opened up. A muscle graft from the neck was placed with an adhesive at the site of puncture. Site was closed and therapeutic maintenance was done using suitable drugs.

Treatment and wound management in female Lion:



Lioness Sushmtha was injured in infighting with the partner Sarvesh. There was a deep wound in the lateral aspect of the left forelimb in the humerus region. The animal was sedated and the site was scrubbed. The area was apposed with sutures and the smaller wounds were closed with surgical glue. Therapeutic antibiotics and supportive treatment were given to stabilize the animal.

Salmonellosis complicated with *Cytauxzoon felis* in tigers



There was an outbreak of salmonellosis in tigers at tiger safari. The animals exhibited severe dysentery, dehydration and general weakness. It started off from one tiger Sita and then the infection spread to other animals because of poor bioscecrity and ignorance of the keepers. Beef samples were examined for contamination and did not come positive. Further, there were few ponds in the safari where the animals drinks water but never cleaned as it is not being used. It is suspected that the animal might have got the infection from these sources. Rigorous treatment with higher antibiotis were given with suitable supportive therapy and the animals made a remarkable recovery within few days of treatment and the appetite and hydration status became normal.

About 7 to 10 days past this phase the animals exhibited signs of dullness and general weakness with anorexia and mild fever. Initial blood picture

showed decrease in the Hb, RBC's and platelet. Treatment regime for blood parasite was immediately started. The samples collected came positive for *Cytauxzoon felis* which is dangerous and life threatening parasite for the felids.

Silver Pheasant tumor surgery



An adult male silver pheasant was presented with a tumor in the keel region. The tumor was infected and maggots were present at the time of observation. The bird was sedated using ketamine and diazepam. The area was scrubbed thoroughly and the site was prepared. The tumor mass was surgically removed, unfortunately there was a lot of skin loss because of the tumor. The

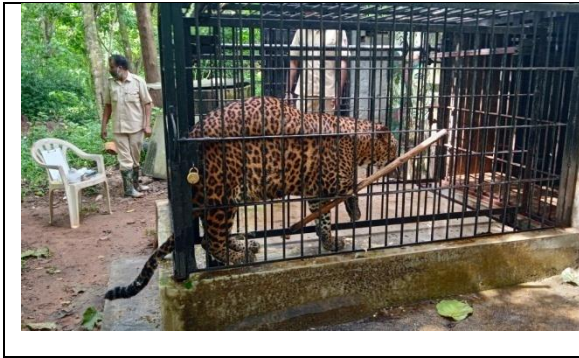
sites were apposed and sutured. Antibiotic regime and supportive therapy was given. Unfortunately the bird died about 8 days post surgery.

Restraining and Deworming in Indian Rock Python:



Leopard vasectomy programme as a part of animal birth control protocol at TLST.

Shimoga zoo and safari was housing 18 leopards (10:8) in a limited sized holding house. As a part of the animal birth control programme and as per instructions from CZA and ZAK vasectomy procedures were performed on select male individuals. Thesis project work of MVSc(Wildlife) student on “Comparitive study between Dexmedetomidine and Xylazine as preanesthetics for Ketamine anesthesia in Vasectomy of leopards.”



Annual health committee meeting 2021-22

An annual health committee was conducted on 24.01.2021 to review the health and veterinary management status of the zoo. The committee proceedings involving the recommendations have been submitted to the Director and are being implemented.



Beef checking and weighing

Meat inspection room fitted with weighting scale, UV lamp and hot water for controlling microbes. A sample study suggested microbial load reduced by 5 times post treatment with UV and hot water.



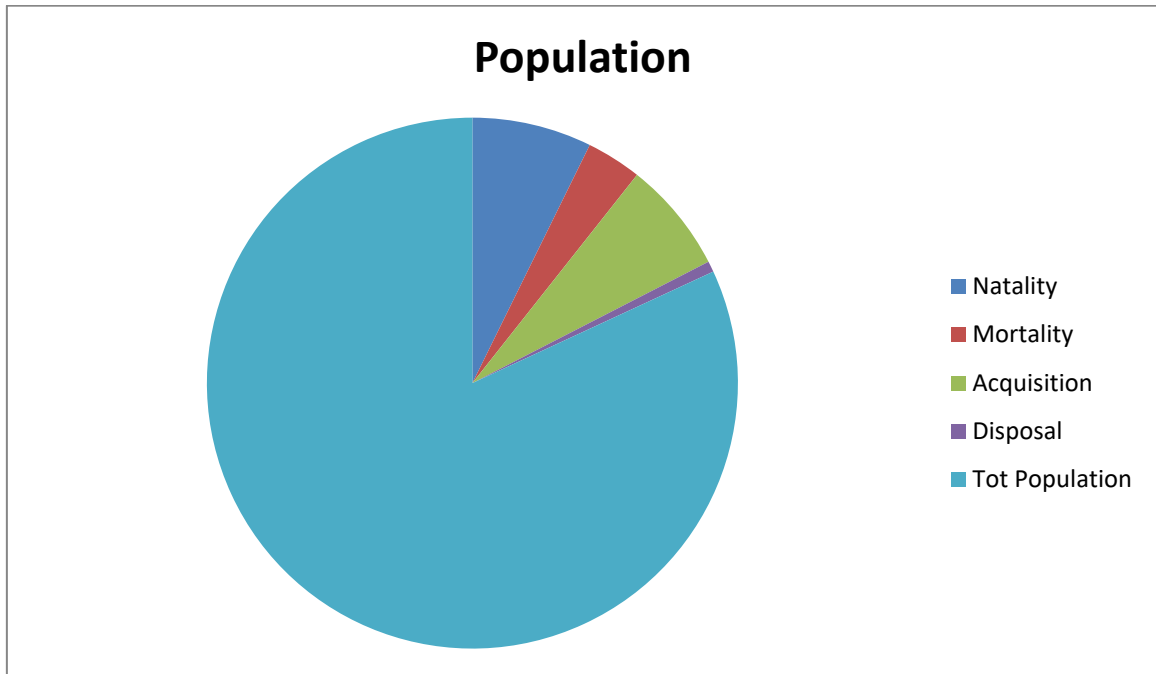
Zoo Hospital:



Renovation of Operation theatre:



Zoo hospital was awaiting major renovation equipment wise under funds from CAMPA. Unfortunately due to non participation or bidders and financial year time line the above proposed equipments count not be procured.



Particulars	Percentage if animals
Natality	8.9 %
Mortality	4.1 %
Acquisition	8.3 %
Disposal	0.8 %

Abstract:

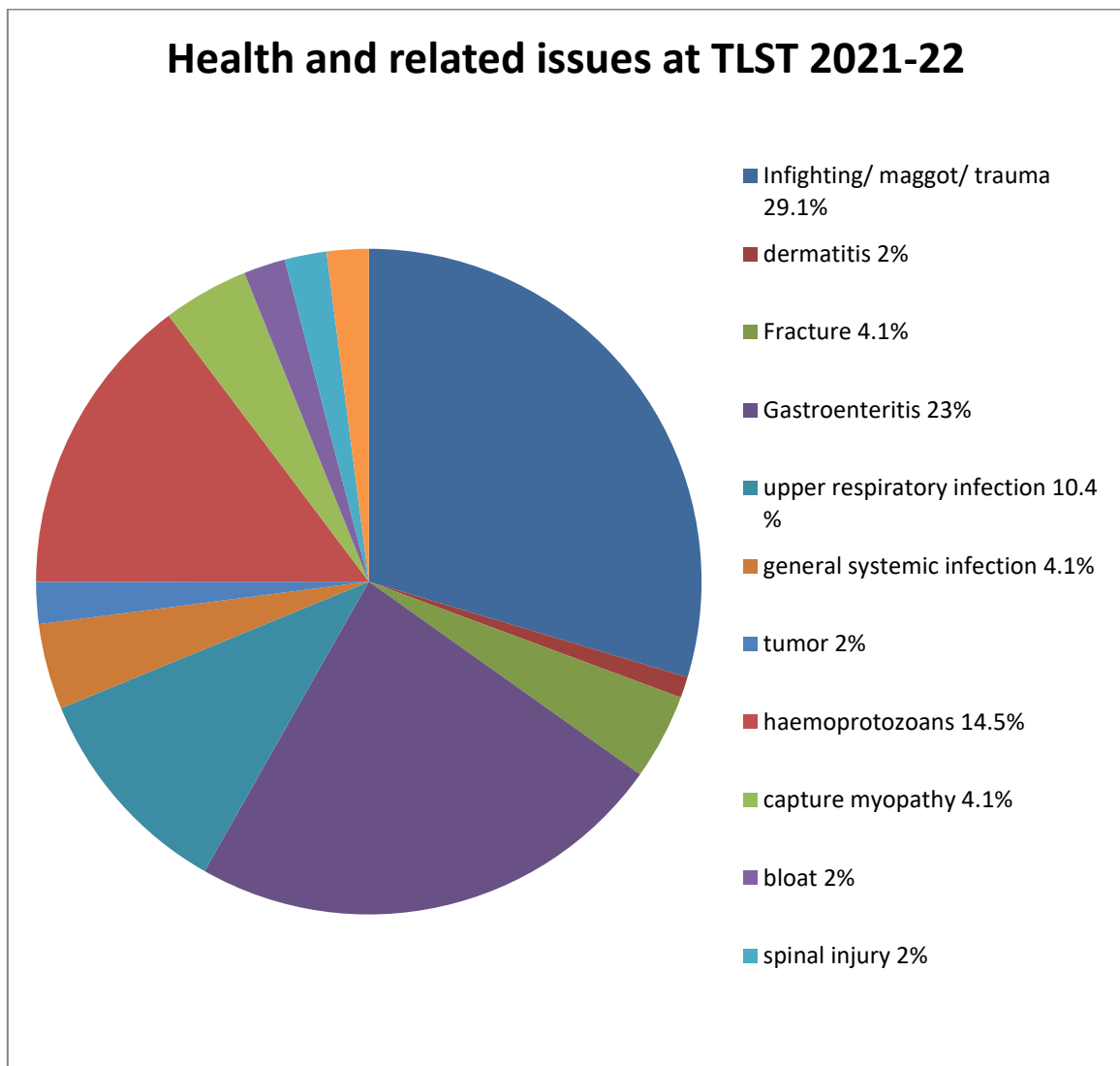
Surgeries: 17

Laboratory tests: 66

Microchip application: 20

Anesthesia and translocation: 55

Rescues: 19



Total case: 48

Repeat case: 20

Fresh case: 28

24. Animal acquisition /transfer/exchange during the year

Animal Natality 2021-2022

SL.NO	Date	Species	Sex (M:F)	Received
1.	15.05.2021	Nilgai	M	Herbivore Safari
2.	21.06.2021	Hog deer	M	Herbivore Safari
3.	07.07.2021	Spotted deer	M	Herbivore Safari
4.	20.07.2021	Sambar deer	F	Herbivore Safari
5.	4.08.2021	Hanuman langur	M	Zoo enclosure
6.	13.08.2021	Hanuman langur	F	Zoo enclosure
7.	16.08.2021	Sambar	F	Zoo enclosure
8.	22.08.2021	Spotted deer	F	Zoo enclosure
9.	08.09.2021	Black Buck	M	Herbivore safari
10.	10.09.2021	Nilgai	F	Zoo enclosure
11.	16.09.2021	Hog deer	F	Herbivore safari
12.	22.09.2021	Black buck	F	Herbivore safari
13.	08.10.2021	Nilgai	Unknown	Zoo enclosure
14.	19.10.2021	Spotted deer	M	Zoo enclosure
15.	25.10.2021	Spotted deer	F	Zoo enclosure
16.	06.11.2021	Asian palm civet	1:1	Zoo enclosure
17.	05.12.2021	Black buck	M	Herbivore safari
18.	20.12.2021	Black buck	F	Herbivore safari

19.	19.01.2022	Leopard (Melanestic)	M	Zoo enclosure
20.	06.01.2022	Spotted deer	M	Zoo enclosure
21.	11.01.2021	Barking deer	F	Zoo enclosure
22.	17.02.2022	Sambar deer	F	Herbivore safari
23.	24.01.2022	Spotted deer	M	Zoo enclosure
24.	13.02.2022	Sambar deer	F	Herbivore safari
25.	16.02.2022	Lady Amherst Pheasant	F	Zoo enclosure
26.	18.02.2022	Yellow golden Pheasant	F	Zoo enclosure
27.	27.02.2022	Indian Golden Jackal	1:1	Zoo enclosure
28.	15.03.2022	Sambar deer	F	Herbivore Safari

Animal Mortality 2021-2022

SL.NO	Date	Species	Sex (M:F)	Age	Received
1.	02.06.21	Ostrich	M	10 year	Multi-organ failure with hypovolemic shock
2.	16.06.21	Nilgai	F	Adult	Infighting and Rumen rupture

3.	23.07.21	Spotted owlet	U	Sub adult	Septicemia and toxemia leading to shock and death
4.	26.07.21	Spotted owlet	U	Sub adult	Septicemia and toxemia leading to shock and death
5.	28.07.21	Spotted owlet	U (2)	Sub adult	Septicemia and toxemia leading to shock and death
6.	10.11.21	Ostrich	F	Adult	Hypovolemia, hemothorax and Septicemia leading to death due to physical trauma
7.	13.12.21	Barking deer	M	Adult	Capture myopathy
8.	29.12.21	Spotted deer	F	Adult	Acute frothy bloat
9.	31.01.22	Lion (Manya)	F	10 Year	Esophagus and trachea severely infected leading to septicemia shock and death
10.	27.01.22	Sambar	F	5 year	Infectious pneumonitis
11.	27.01.22	Leopard (melanastic)	M	8 days	Septicemia from sever gastroenteritis and

					upper respiratory tract infection
12.	11.03.22	Silver pheasant	M	Adult	Multi-organ failure suspected malignance
13.	31.03.22	Spotted deer	M	Adult	Infighting injuries and cardiac myopathy

Animal Acquisition 2021-2022

SL.NO	Date	Species	Sex (M:F)	Received
1.	09.05.21	Spotted Owlet	Unknown (4)	Ayanuru forest section
2.	02.05.21	Rose ringed parakeet	Unknown (5)	Shimoga wildlife squad
3.	03.05.21	Rusty spotted cat	M	Shimoga wildlife division
4.	30.05.21	Indian Gaur	M	Sagar wildlife division
5.	14.07.21	Lion (Yashwanth, Suchitara)	1:1	Bannerghata zoo
6.	02.11.21	Hippopotamus	M	Mysuru zoo
7.	23.11.21	Barking deer	2:3	Mysuru zoo
8.	14.12.21	Hippopotamus	F	Mysuru zoo
9.	14.12.21	Hog deer	2:3	Mysuru zoo
10.	02.01.22	Rusty spotted cat	2 M	Zoo nearby farm land
11.	01.03.22	Tiger (Poornima)	F	Mysuru zoo

Animal Disposal 2021-2022

SL.NO	Date	Species	Sex (M:F)	Received
1.	07.04.21	Leopard (Arjuna Arpita Ananya)	1:2	Belgaum Zoo

27. Research work carried out and publications

- Thesis project work of MV.Sc. (Wildlife) student on “Comparative study between Dexmedetomidine and Xylazine as preanesthetics for Ketamine anesthesia in Vasectomy of leopards”.

26. List of free living wild animals, insects and birds within the zoo

premises.

Birds	Mammals	Reptiles	Insects	Amphibians
Red whiskered bulbul	Sloth bear	Spectacled cobra	Daddy long leg spider	Dataphrynus melanotictus
Red wented bulbul	Palm squirrel	Wolf snake	Marbled moth	Minervarya species
Orange minivet	Toddy cat	Green wine sanke	Owlet moth	Common tree frog
Scarlet minivet	Small Indian civet	Common krait	Danid egg fly	Bi colored frog
Pradise fly cathcher	Pangolin	Rat snake	Crimson rose	Srilanka painted frog
Golden oriole	Leopard	Bhramini skink	Common rose	Skittering frog

Wabblers	Spotted deer	Monitor lizard	Common crow	-
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Birds	Mammals	Reptiles	Insects	Amphibians
Jungle Babblers	Sambar deer	-	Southern bird wing	-
Leaf bird	Bonnet macaque	-	Jeepsy moth	-
White cheeked barbet	Wild bore	-	Common emigrant	-
Copper smith barbet	Common languor	-	Chocolate phansy	-
Brown headed barbet	-	-	Tawny costar	-
Black drongo	-	-	Blue leopard	-
Rocket tail drongo	-	-	Common tiger	-
Ashy drongo	-	-	-	-
Fire brested fly cather	-	-	-	-
Orange thrush	-	-	-	-

Ashy priniya	-	-	-	-
Shrike	-	-	-	-
Bushchat	-	-	-	-
Forest wagtail	-	-	-	-
White throated kingfisher	-	-	-	-
Hoopie	-	-	-	-
Greater flame back wood pecker	-	-	-	-
Lesser flame back	-	-	-	-
Pigmy hog woodpecker	-	-	-	-

Birds	Mammals	Reptiles	Insects	Amphibians
Yellow crowned woodpecker	-	-	-	-
Rufous treepie	-	-	-	-
Blue monarch	-	-	-	-
Tailor bird	-	-	-	-

Sun bird	-	-	-	-
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27. Animal Adoption Scheme

Adoption details

Sl. No	Year	No of people adopted	Adoption amount	No of people donated	Donation amount
1	2021-22	140	15,51,200	37	17,9225

28. List of Surplus Animals

Sl.No	Name of surplus animals	Sex (M:F)
1	Spotted deer	14:6
2	Sambar deer	4:5
3	Toddy cat	2:2