1. Report of the 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.

Shivamogga Zoo, an emerging prominent zoo in India, proudly announces its transformation into a medium-sized zoo with state-of-the-art modern glass enclosures. With immense dedication and innovation, we have successfully introduced 29 new animal enclosures, catering to a diverse array of species.

Further enhancing our offerings, Shivamogga Zoo is delighted to introduce India's first Gaur Safari, offering visitors a unique and immersive experience. Our animal collection has bloomed to include an impressive variety of 40 species, with over 350 individuals under our care.

We are immensely proud to declare that our efforts have yielded not only a remarkable environment for our animals but also a prosperous business model. The revenue generated by Shivamogga Zoo has exhibited exceptional growth, facilitating a sustainable future for our facility.

At Shivamogga Zoo, we remain committed to providing our visitors with a captivating and educational experience. Our team continually strives towards the betterment of the zoo, promoting conservation, and fostering a deep appreciation for wildlife.

2. About Shivamogga

Shivamogga, situated in the central region of Karnataka, India, is a prominent city straddling the banks of the Tunga River. Revered as the "Gateway of Malnad," it serves as the entry point to the hilly expanse of the Western Ghats.

3. History of the Zoo

The foundation stone for Tiger & Lion Safari was laid on 1984 and was established in the year 1988, at Thyavarekoppa village situated 10 Km away from Shimoga city in the Shimoga District of Karnataka State. The total extent of the TLST is 250.00 hectares. It was developed with the financial assistance mainly from ZillaPanchayat, Shimoga and supported by Malnad Area Development Board (MADB), Mysore Paper Mill (MPM) Ltd. Bhadravathi, few voluntary organisations and Karnataka Forest Department (Karnataka forest department), Zoo Authority of Karnataka and Central Zoo Authority.

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 the year 1996-97. Different varieties of birds and few other small Mammals were also housed in the Zoo.

Zoo displays native and Non native animal species in its natural habitat providing conservation education and experience based tourism activities. At present there are 400 animals of 39 species. Some of the exotic animals are displayed such as Ostrich, Emu and different Pheasants of the world. Even among the native fauna there is a great diversity comprising of felids, canidae, deer (cervids), reptiles, birds and other beautiful and majestic animals that can be seen in open natural enclosure. Hence, a visit to the Tiger & Lion Safari is quite rejuvenating and rewarding.

Safari

The Tiger & Lion Safari, Tyavarekoppa (TLST) is the second safari established in Karnataka after Bannerghatta Biological Park, Bangalore. 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 6 tigers with male female ratio of (1:5) 5 lions with (3:2) ratio and herbivores of about 145 numbers of different species. 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.

Tiger & Lion Safari has 8 (eight) buses of 25-30 seats to take the visitors around the safari, safari experiences a large group of people and to allow uninterrupted service, there are 8 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.

4. Vision:

To inspire the public to value the presence of wildlife in their lives. Through an enjoyable and educational experience, visitors are encouraged to develop a deeper appreciation for wildlife and its conservation.

5. Mission:

The Tiger & Lion Safari aims to become a dynamic center for animal breeding and exhibition. By showcasing these magnificent creatures up close, the Safari endeavors to inspire people to develop a deep love for wildlife, encouraging them to actively care for and protect natural habitats.

6. Objectives

- Provides the best possible care for our animals
- Display of wild animals in natural habitat 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 zoo visitors and tourist

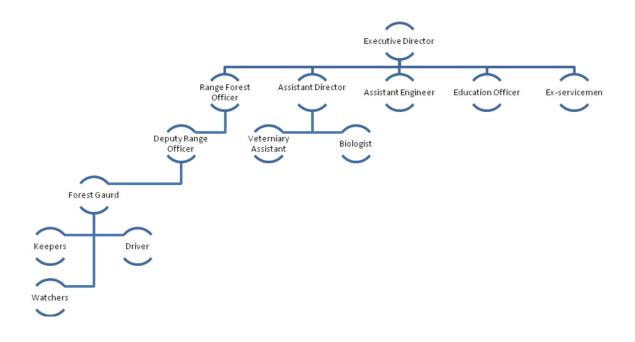
7. About Us:

Sl.No.	Particulars	Information
Basic In	formation about the Zoo	
1	Name of the Zoo	Tiger & Lion Safari, Tyavarekoppa
2	Year of Establishment	1988
3	Address of the Zoo	Tyavarekoppa, Shivamogga
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: 30 km
		Shimoga 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)	September
11	Category of zoo	Medium Zoo
12	Area (in Hectares)	250.00 Ha
13	Number of Visitors (Financial	Adult : 249599
	Year)	Children : 50467
		Total Visitors: 300066
14	Visitors' Facilities Available in	1. Parking Space
	Zoo	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 center
		12. Baby care room
15	Weekly Closure Day of the Zoo	Tuesday
Mana	gement Personnel of the zoo	
16	Name with designation of the	Sri. B.Mukunda Chandra
	Officer in-charge	Executive Director & Deputy Conservator of Forests, Tiger and Lion Safari, Thyavarekoppa, Shimoga.
	Name of the Veterinary Officer	Sri. Dr.Murulimanohara
	Name of the Curator	Sri.NageshBalegar
	Name of the Biologist	Sri.Abhilash
	Name of the Education Officer	Ms. Sameena Iza
	Name of the Compounder/ Lab Assistant	Sri. Ranganath. B
Owne	r / Operator of the Zoo	
17	*Name of the Operator	ShriJaveedAkhtar

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



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

Manpower of the Zoo

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
1	B.Mukunda Chandra Executive director	Zoo directors conference	January -18- 19 2023	Greens Zoo Jamnagar, Gujrath
2	Sameena Iza Shaik	Nation Biologist Conference	January -18- 19 2023	Sanjay Gandhi Biological Park .Patna,Bihar
3	Sameena Iza Shaik	National Education Officers Conference		Nawab Wajid Ali Shah Zoological Garden, Lucknow, Uttar pradesh

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, Bannerghatta Biological Park, Bangalore

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

12. Health Advisory Committee-

Health committee members

Meeting held on 09.03.23

Sl	Name	Designation
no		
1.	Sri Mukund Chandra .B	Executive Director
		Tiger & Lion Safari
		Tyavarekoppa
		Shivamogga
2.	DrShivayogiYali	Deputy Director
		Dept of AHVS
		Shivamogga
3.	Dr Madhav Prasad	Professor and Head
		Dept of Veterinary epidiemiology
		Veterinary College, Shivamogga
4.	Dr Nagabhushan	Professor and Head
		Department of Nutrition
		Veterinary College, Shivamogga
5.	DrRavindra B G	Associate Professor
		Dept of medicine
		Veterinary College, Shivamogga

6.	Dr Ravi Raidurg	Associate Professor and Head	
		Dept of veterinary surgery and radiology	
		Veterinary College, Shivamogga	
7.	Dr Rajesh S BS	Regional Research Officer	
		IAH & VB,	
		Shivamogga	
8.	Dr Vinay S	Chief Veterinary Officer, Shivamogga wildlife	
		Division,	
		Shivamogga	
9.	Dr Murulimanohar	Veterinary officer,	
		Tiger & Lion Safari,	
		Tyavarekoppa,Shimoga.	

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
7	2022-2023	42431089.00	87736600.00
8	2023-2024	50603632.00	108595742.00

14. Daily feeding Schedule of animals

Sl	Name of	Feed item	Quantity		Day of
n	the animal				fasting
0					
	Carnivores	Carabeef	-	Evenin	Tuesday

0		Chicken,Liver		g	
1					
0	Herbivores	Concentrates, Wheatbran, Vege	Morning	Green	-
2		tables ,Green leaves,Fruits	Vegetables,concentrat	grass	
		,Green grasses ,Grains	es	fodder	
		,Grasses ,Lucerne			
0	Birds	Grains, greenleaves, fruits	Morning	-	-
3		,vegetables			
	Birds of	Chicken ,fish	-	Evenin	Tuesday
	prey			g	
0	Reptiles	Chicken ,rabbit,egg ,Carabeef			
4					
	Python		Once in a week		
	Crocodile		Once in a week		
	Monitor		Daily		Tuesday
	lizard				

15. Deworming, Vaccination and health SupplementsSchedule(Zoo/RC/Safari)

Month	De-wormer	Prophylax is	Vaccine	Health Supplements
January	Pyrental Palmate/Closantel/Pl ozin (3 in 1)	-	-	calcium Supplements
February	-	-	Cats CRP +ARV (felines)	-
March	-	Surral/ Triquin		Iron Supplements
April	Oxyclosanide,Levam izole/ Plozin/Closental	-	FMD,HS,BQ (Gaurs & DEERS)	Septillin
May	-	-	-	Nutricoat advance + Calcium Supplement

June	-	-	DHPPi+L +ARV	-
			(Canines)	
July	Albendazole	Surral/		Verol Syrup/
	/Fenbendazole	Triquin		Drops/ Mineral
				Mixture
August	-	-	-	-
September	-	-	FMD,HS,BQ	Liv
-			(Gaurs, deers)	52/Livotas+
				calcium
				Supplement
October	Ivermectin/	-	-	-
	Fenbendazole			
November	-	Surral/	-	Proviboost
		Triquin		syrup/ Drops/
		_		Mineral
				Mixture
December	-	-	HS	Immunol

16. Disinfection Protocol Format

Sl no	Animal	Daily Holding house and	Weekly water tank/trough/	Monthly Anit viral spray	Quarterly Gas burning	Annuall y Pesticide sprays
		periphery	pond cleaning			
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

4	Leopards	Daily	III week,	IV week,	
			Mon	Mon	
5	Sloth Bear	Daily	III week,	IV week,	
			Wed	wed	
6	Hyena/ Jackal	Daily	III week, Thu	IV week,	
				Thu	
7	Crocodile	Daily		IV week, Fri	
				Pond	
				cleaning and	
				spray	
8	Python	Daily	III week,	IV week,	
			Wed	Wed	
9	Ostrich, emu	Daily	III week, Fri	IV week, Fri	
10	Other	Daily	III week, Sat	IV week, sat	
	mammals and		and Sun	and Sun	
	birds				
11	Duck pond				Mar / July/
	area				Nov
					Pond
					cleaning,
					anti viral
					spray and
					gas burning
12	Herbivore	Daily	IV week	III week	Apr/ Aug/
	safari				Dec

17. De-worming Schedule of animals

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

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 2022-23





Construction of Blackbuck enclosure



Construction of Sloth Bear enclosure and holding house



Construction of Common Langur enclosure and holding house





Construction of Lion tail macaque enclosure and holding house



Construction of Toilet Block near Museum



Construction of Road in Zoo path (Chainage 0.0.00 to 807.00= 807.00m)



Construction of Road in Zoo path (Chainage 808.00 to 1400.00= 593.00m)



Construction of Toilet Block near Hyena enclosure



Construction of Zebra enclosure and holding house



Providing Chainlink Mesh along the outer boundary (Block IV : 1330.00 to 2920.00m)



Construction of jackal enclosure and holding house

21. Education and Awareness Program during the year 2023-24 Special Events



To celebrate World Bear Day, the shivamogga zoo organized a special event for ATNCC college shivamogga. The aim of the event was to raise awareness about bear conservation and to highlight the value of these beautiful creatures. The zoo invited a special resource person named ShravanSutthar, who is a senior research assistant with the Holemathi Nature Conservation Foundation. Shravan began his session by discussing the different types of bears, including the Asiatic black bear, the sun bear, and the sloth bear, and how their habitats are threatened by human intervention. Shravan then led the students on a tour of the zoo's bear enclosure, explaining the different behaviors of the bears and how they interact with each other. He pointed out the different features of the bear's habitat and how it is designed to mimic their natural environment.



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To celebrate Environment Day, the shivamogga zoo organized a special program for National public school students to raise awareness about the importance of reducing waste and composting. The program included several activities focused on the 3Rs - reuse, reduce, and recycle - and composting.

In the reuse activity, students were given various items that can be reused, such as plastic bottles, tin cans, and newspapers. They were encouraged to come up with creative ideas on how to reuse these items instead of throwing them away. Finally, in the composting activity, the students were taught how to turn organic waste into compost. They were shown a demonstration of how to make a compost bin and were encouraged to bring organic waste from home or school to add to the compost bin.



World honey bee day celebration: Shivamogga zoo invited government school to take part in the world honey bee day celebration.

Wildlife week celebration (2 October -8 October)

Wildlife week is a highly anticipated event in most zoos all over the world. During this week, zoos try to raise awareness about preserving endangered species and their natural habitats, educate visitors on different animal species, and foster appreciation for the biodiversity of the planet.



Wildlife awareness program

Keeper talk



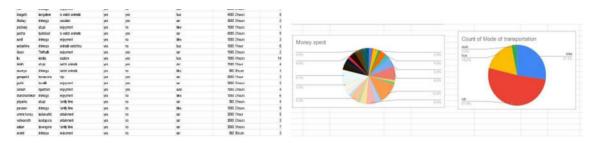
Snake awareness Program

Creature – Feature activity

Visitors Interaction



Identifying the" animal pugmark" activity conducted for the visitors



Demography survey of visitors



Awareness program on Cheetha reintroduction(India) for visitors

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Awareness program on endangered animals for the organized school groups



Snake awareness program for visitors



Animal Quiz activity for visitors

OUTREACH PROGRAMS

A zoo outreach programme is a way for a zoo to extend its educational outreach beyond the walls of the zoo itself. These programs can take many forms and may include school visits, community presentations, mobile exhibits, and even virtual events. The goal of a zoo outreach program is to engage people of all ages in learning more about the animals housed at the zoo, as well as to promote conservation efforts and raise awareness about environmental issues.



An outreach program conducted for blind students through a touch and feel program is a great way to introduce them to the world of animals and natural objects. Different birds Eggs, feathers and deer antlers are all excellent examples of objects that can be included in such a program.

The program started with a brief introduction to the sense of touch and its importance for blind people. Next, participants could be introduced to different types of eggs, feathers and antlers allowing them to touch and feel the texture and shape of each wildlife trophys.



The Snake awareness program was conducted for the students of Gadikoppa Higher primary school, Shivamogga

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Bird Watching and nature walk program was conducted for the abandoned senior citizens from JeevanaSanjeRudrashrama, Shimoga



Snake awareness program was conducted for the orphan students at MadavaNele, Shimoga



Snake awareness program for orphan students of Taye mane orphan home



Anti rabbies awreness program was conducted for girideepam schoolstudents

ZOO CAMP

Winter zoo camps: Camps are outdoor educational programs designed for children during winter. These camps offer a unique opportunity to learn about wildlife, conservation, and animal care in a fun and interactive setting. Children typically spend their time participating in various activities such as animal encounters, zoo tours, craft making, games, and more. They provide an exciting way for children to spend their winter break while learning about the importance of wildlife conservation and appreciation for nature.



Bird watching

Face Painting



Introduction to veterinary equipments

Be a researcher activity



Education program for visitors by students

Visit to Hippo enclosure

Summer Camp: Zoo summer camp is an educational program designed for children during summer break. These camps provide a unique and exciting opportunity for children to learn and experience different aspects of zoo life. Children typically spend their time participating in various activities such as animal encounters, zoo tours, hands-on activities, games, and more. Along with fun activities, the camps also aim to educate children about animal welfare, conservation, and ecology. These camps allow children to develop an appreciation of wildlife and learn how to be good stewards of the environment.



Presentation on reptiles

zoo design activity

Be a zoo keeper camp: Be a zoo keeper camp is a program that offers an immersive experience for children or teenagers who are interested in learning about the responsibilities and daily activities of a zoo keeper.

During the camp, participants work alongside trained zookeepers, learning how to feed animals, clean enclosures, and provide enrichment activities for animals under the zoo's care. They may also receive hands-on training in animal handling, such as learning how to handle small mammals or reptiles

Be a zoo keeper camps aim to inspire a love and appreciation for animals, while also educating and empowering young people to become advocates for animal welfare and conservation.



Visit to hippo enclosure

Visit to herbivore safari



Education program for zoo visitor



Collecting pellets of herbivores

Staff Training programs

A zoo staff training program is comprehensive training offered by zoos for their staff members. The program is designed to equip zoo employees with the knowledge and skills needed to carry out their roles effectively. The training typically covers a variety of topics including animal care, exhibit design, visitor experience, safety and emergency procedures, conservation practices, and more.



Capacity building program for drivers



Workshop on world zoonosis day for zoo staff

ENRICHMENT ACTIVITIES

<u>1. LANGUR PHYSICAL/STRUCTURAL ENRICHMENT</u>



Physical and structural enrichment for langurs enhancing their environment to stimulate natural behaviours, encourage physical activity, and improve their overall well-being. Enrichment activities help the animal by many ways like. Encouraging Natural Behaviors, Physical Health, Social Interaction, Stress Reduction.

2. SLOTH BEAR ENRICHMENT



Sloth bear feeding and olfactory enrichment conducted to increase the activity and enhance the olfactory organs of the animals, Honey smeared on a tree trunk and logos at various heights, this enrichment increased the animal's overall activity was observed.

<u>3. HYENA ENRICHMENT</u>



Hyena and Jackal feeding enrichment had conducted where pedigree (dog food) is filled inside the dry coconut shell and tied then given to the animal this enrichment increased their activity time and also enhanced the olfactory organs of the animals was observed.

4. FOWLS AND PHEASANT ENRICHMENT



The natural environment had created in the Fowls and Pheasant enclosures by planting different plants, providing logs, perching sites, and also leaf litters, presence of leaf litter is very important for Fowls and Pheasants because these birds are ground feeders so the presence of leaf litter increased their feeding behaviors and scratching ground for insects which are naturally develop in leaf litter. And this also provides natural nutrition for birds.

5. PALM CIVET ENRICHMENT



enrichment for palm civets in zoos serves several purposes, enhancing their physical and mental wellbeing. Here are the key benefits and uses of rope enrichment for palm civets Physical Exercise:•Climbing: The Ropes provide opportunities for palm civets to climb, mimicking their natural arboreal behavior and Natural Behaviors Mimicking Wild Habitat and also help them to Hiding and Resting, Active engagement with the environment lowers stress levels.

6. DEER'S ENRICHMENT



Hanging fodder in the deer's enclosure had carried out to enhance the natural behavior of the deer species

7.LEOPARD ENRICHMENT



Scattered fooding placing food in various location within the enclosure to promote natural foraging behavior, Enrichment helps the animal to engage their physical and mental faculties.

8. LION ENRICHMENT



Lions live in dry and semi-arid regions with scrub and deciduous forests with undulation and rocky hills of the world, so in the new lion enclosure we have constructed natural habitat-like habitat using locally available rocks and different grass species, these enrichment animals are utilizing very much and expressing their natural behaviors in the captive condition.

9. TIGER ENRICHMENT



Tiger is one of the big cats found in India and it is a habitat generalist species it enjoys the wetlands in the wild. So because of that, we have constructed a waster cascade in the new tiger enclosure at the viewing area for the tiger to enjoy and express natural behaviors, and also visitors enjoy the tiger behaviors in the pond.

10. VERMICOMPOSTING



vermicomposting using worms to decompose organic waste, such as animal manure, food scraps ,and plant material in to the compost.

REPTILES MANAGEMENT DURING MONSOON SEASON





Monsoon is the toughest season for reptile management in captive because during monsoon in Tiger and Lion Safari, we receive heavy rainfall and sometimes we didn't receive a good amount of sunlight for up to 2-3 days, so during these days, reptiles especially Snakes, Turtles and Tortoise need attention and care because retails are cold-blooded animals they need sunlight (UV-A and UV-B) for their vitamin synthesis and as well as for their metabolism activity so during monsoon season and also in cold days of winter season we provide artificial light which emit UV-A and UV-B rays based on the species and body size we give artificial light with time intervals in a day and we maintain all the parameters and also record the data for better management.

LIVE FEED UNIT

In March we started planning of setting up of live feed unit of worms for Fowls, Pheasants, and Sloth bears. In the initial stage, we brought some of the mealworms from Mysore Zoo to set up the founder population of worms we successfully bred the worm within the month and we started breeding more to get a good amount of worms, occasionally or twice in a month we provide mealworm for birds and to the Sloth bear as enrichment.



In May we started Mice live feed unit for our baby pythons we had successfully bred the mice at present more than 30 mice we are housing and for our baby pythons we feed one mice per week and based on requirements we breed mice and breeding and stock record are maintained in the live feed unit, in future we have plan for setting up of Rat and Hamster breeding unit for our future serpentarium.

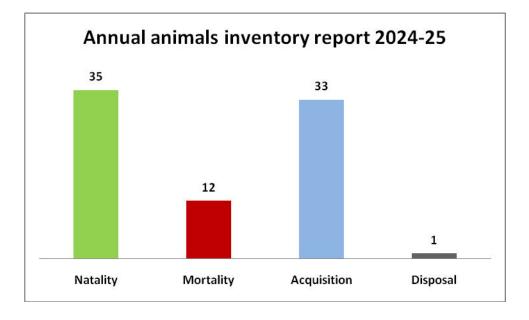




Striped Hyena Translocation from mysure Zoo to Tiger and Lion Safari.

ANNUAL ANIMAL INVENTORY

SI.	No.	Natality	Mortality	Acquisition	Disposal
	1.	35	12	33	1



Sl. No.	Natality	Mortality	Acquisition	Disposal	Total individuals
1.	8.92%	3.06%	8.41%	0.25%	392

TRAINING PROGRAMS





Education and Training programs have been carried out to various school and college students, Forest Guards, RFO trainees, we explain Zoo management, Enrichment, Animal Nutrition, Health management, and safe rescue technique methods, and the importance of zoos in the conservation of Wildlife like that various aspects are discussed and explained during the training program.

Keeper Training

 Mr. Girish Kumar N. Bird's keeper participated in the <u>"Regional Capacity</u> <u>Enhancement Workshop for Zookeepers"</u> a three-day program, held at Bannerghatta Biological Park, Bengaluru from February 27th to March 1st, 2023 in collaboration with Central Zoo Authority.

A. Animal welfare activity –Important treatment

B. Animal welfare activity –Important treatment

ENUCLEATION IN HOG DEER

Female hog deer had severe injury in its left eye due to infighting ,eye ball was found to be nectrotised ,enucleation was the best option.

PRE-OPERATIVE PREPARATIONS :-

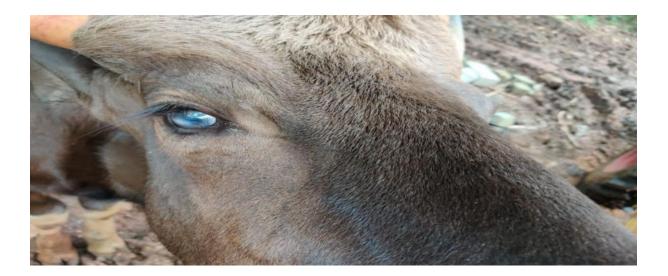
The deer was sedated with xylazine (1.5mg/kg) and ketamine (2.75mg). deer was positioned on its right side with the affected eyes facing up a periorbital incision was made around the eye to access the ocular muscles and optic nerve. The conjunctiva and extraocular muscles were dissected to free the eye. The optic nerve was severed to remove then eye, bleeding was controlled using cautery of blood vessels.

POST-Post-Operative Care

The deer was monitored for signs of infection, bleeding, or other complications. administered nsaids to ensure the animal's comfort. Antibiotics were given to the deer to prevent infection. The deer was kept in a controlled environment until it has recovered sufficiently to return to its natural habitat .



b. Indian gaurs in captivity were under great deal of stress due to fly menace, 22 Indian gaurs of all age groups were suffering and showing clinical signs such as swollen eyelids, oedema, eye irritation, blepharospasm excessive tearing, corneal opacity, conjunctivitis and in few gaur's cloudiness of eye/s with corneal ulcers and impaired vision were evident. From few animal's blood and eye swabs were collected and submitted to the laboratory. The peripheral blood smear examination ruled out Trypanosomiosis in herd, further an attempt was made to isolate and identify the organism from the eye lesions. The laboratory findings revealed that, the presence of Serratia plymuthica as an underlying cause and flies might have played important role in the transmission of infection from one animal to other resulted into outbreak of keratoconjuntivitis in Indian gaurs. Affected gaurs were symptomatically treated using Oxytetracycline (10mg/kg P/O), Eyewash with diluted Boric acid powder, Chloramphenicol eye ointment (topically), Vit-A liquid (P/O) and to control vectors Neem oil sprayed (both On and Off) to reduce further spread of infection to other captive wild animals. After 28 days of treatment all the animals recovered completely without any untoward all the gaurs in zoo are recovered.





C. Successfully breeding of ostriches : shivamogga zoo has one male and one female ostriches.

This season female ostrich had bred successfully giving birth to five chicks all the chicks are healthy and growth rate is satisfactory



D. Internship programs for veterinary internship students from veterinary college bidar, Bangalore, hassan, shivamogga and gadag were on 7 days rotational internship program at shivamogga zoo during this period students were intensively trained on wild animal identification, taxonomic grouping, restraining, handling, shifting prophylactic measures and treatment aspects.



E.Treatment of head injury in golden pheasant :Female golden pheasant was unconscious with severe twisting of the head was noticed. It was observed that bird had mild head injury during mating .fluids were administered through ulnar vein.DNS and RL was infused through ulnar vein.mannitol was infused through intravenous route.injection levofloxacin and dexamethasone was given and kept in a cage where adequate warm temperature was maintained.bird started recovering and it regained consciousness and completely recovered after two days.levofloxacin was given for 3 days.



Birds	Mammals	Reptiles	Insects	Amphibians
Red whiskered	Sloth bear	Spectacled	Daddy long leg	Detenharmusmelenetistus
bulbul		cobra	spider	Dataphrynusmelanotictus
Red wented bulbul	Palm squirrel	Wolf snake	Marbled moth	Minervarya species
Orange minivet	Toddy cat	Green wine snake	Owlet moth	Common tree frog
Scarlet minivet	Small Indian civet	Common krait	Danid egg fly	Bicolored 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	Wynad bush frog

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

Birds	Mammals	Reptiles	Insects	Amphibians	
Jungle	Sambar deer	Bengal	Southern bird wing	Nobe handed bush	
Babblers	Sambar deer	monitor lizard	Southern ond wing	frog	
Leaf bird	Bonnet macaque	King cobra	Jeepsy moth	-	
White cheeked	Wild bore	Russell's viper	Common emigrant	_	
barbet		Russen s viper	Common emigrant		
Copper smith	Common languor	Garden lizard	Chocolate phansy	_	
barbet	Common languor	Surden nzurd	encecture phansy	-	
Brown headed	Royal Bengal	Wolf snake	Tawny costar	_	
barbet	tiger	W OIT SHOKE			
Black drongo	Elephant	-	Blue leopard	-	
Rocket tail	Spotted deer-	_	Common tiger	-	
drongo	Spotted deer				
Ashy drongo	Rusty spotted	-	_	_	
	cat-				
Fire brested	Indian golden	_	_	_	
fly cather	jackal-				
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				
Rufoustreepie	-	-	-	-
Blue monarch	-	-	-	-
Tailor bird	-	-	-	-
Sun bird	-	-	-	-

28. Animal Adoption Scheme

Adoption details

1	2022-23	128011.00
2	2023-24	359300.00

29. 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