



SARDAR PATEL ZOOLOGICAL PARK





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### Report of the Officer In-charge

Sardar Patel Zoological Park in Ekta Nagar is in its third year of operation. More than nine lakh visitors from all over the world have visited the zoo, which is located on the banks of the Narmada River and under the shadow of the Vindhyachal mountain range. It has been a popular destination for people to observe and learn about a variety of animal species from around the world with an emphasis on animal welfare and ethical operations. Our zoo provides space for people to experience wildlife up close and soak in knowledge on various subjects like animal welfare and conservation efforts.

Although the zoo has embarked in it's initiative stage, Sardar Patel Zoological Park has commenced various initiatives such as:- 1. Live feed culture which helps us fulfil the nutritional requirements of insectivorous animals, act as feed enrichment for positive reinforcement and aid in medication and supplementation. These include the culture of insects such as mealworms and crickets. Vertebrates such as rat and mice and plants such as azolla and water lettuce. 2. Multiple formal trainings and one-day certificate workshops are have been organized to share theoretical as well as practical skills to the participants. 3. The zoo boasts of successfully hand-raising various species of importance such as Serval, East African Oryx and Tufted capuchin monkey which marks the re-dedication of the zoo's mission to save critical species. 4. Reptiles are extremely interesting animals and an artificial scientific egg incubation system to ensure a good natality rate. 5. Environmental enrichment plays a great role in the physical as well as mental well being of the animal within the enclosure which is why the zoo has a dynamically sound and active team with daily efforts to upgrade them. 5. A Bio-waste management system has been put in place for minimizing the zoo waste, utilizing organic waste to convert it into fertilizer used for landscaping within the zoo.

New infrastructure viz. Serpentarium or Reptile House has been constructed which is dedicated to Indian and non-native species of reptiles. Visitors will be able to experience them in their natural settings from a close proximity at the same time learn about them through educational signage displays.

Sardar Patel Zoological Park has started various technical training programmes for the forest department, NGOs, rescuers, field veterinarians, etc. on ethical and safe rescue, treatment and rehabilitation of animals and birds.

As you'll read in the following pages, Zoo's cornerstone initiative in inculcating Formal veterinary internship training program for a period of 15 days per batch of students by expanding our partnership with Navsari Veterinary College and Anand Veterinary College. The final year veterinary students gain knowledge, experience as

well as attend lectures on not just management of captive wild animals but also on their nutrition, treatment, surgeries, post mortem techniques, etc. The students learn at the state-of-the-art veterinary hospital, they also get an opportunity to use advanced diagnostic equipment like DR radiography, ultrasonography and blood gas analysers, ventilators, Gas-Anaesthesia, Nebulization Techniques, automatic serum analysers. They assist surgeries on advanced gas anesthesia machine and lend a hand in routine pathological work. We are on a path to develop SPZP as a training hub for best animal management practices and a road-map has been chalked out for the same.

The local forest service has received enormous assistance from the Sardar Patel Zoological Park in the rescue and restoration of the local animals and protected species. The zoo rejoiced through the hope brought on by the births of multiple endangered native and exotic species leading to the conclusion that the animals are thriving and able to fulfil their biological needs and animal welfare is critically taken care of. This includes species specific diet formulations, environmental and feed enrichment and proper supplementation.

A note of gratitude to Chairman SoUADTGA, CEO SoUADTGA, Advisor SPZP, and PCCF WL, Gujarat state who have been an unconditional support system to the functioning of this zoo. The team of ACF, RFO, Foresters, Forest Guards, Veterinarians, Biologists, Technical staff, Zoo keepers, Drivers, Guides, Clerical staff and Security personnel are the backbone of Sardar Patel Zoological Park. The zoo has had it's share of long and challenging days but they have been overcome and inspired by the kindness and passion of our employees who have been relentlessly working for providing an exceptional visitor experience at the same time ensuring animals are well taken care of. Together we stand tall and strong and continue to work for saving animals and being a resource to the community.

"If we can take anything away from the past year, it is that sharing knowledge, expertise and collaborations go a long way in the growth of the entire organization/ institution"

-Director, Sardar Patel Zoological Patel, Ekta Nagar

#### SARDAR PATEL ZOOLOGICAL PARK

## History of the Zoo

The Statue of Unity is a landmark structure on Sadhu-bet island in the river. The world's tallest statue – 182 meter and icon in Gujarat that symbolizes India's unity and integrity. Since it is dedicated to the nation by the Hon'ble Prime Minister Shri Narendra Modi on 31st October 2018, this place has emerged as one of the most attractive tourist destinations of India with an average footfall of 15000 tourist from India and abroad. Many tourist attractions have been created close to the Statue of Unity with the aim of developing this area into a tourism hub and destination. These locations include the Sardar Patel Zoological Park, Arogya Van, Valley of Flowers, Glow Garden, Riverfront Cycling, Children Nutrition Park, River Rafting, and eco-tourism sites at Khalwani, Cactus Garden and Butterfly Garden. On the banks of the Narmada River, the Sardar Patel Zoological Park is surrounded by the picturesque Satpura and Vindhyanchal Mountain ranges. It was developed with the aim to provide quality experience of viewing different Indian and Exotic Animals and Birds to the visitors.

## SARDAR PATEL ZOOLOGICAL PARK

### **VISION**

To complement ex-situ conservation of endangered wild animals and contribute towards raising awareness in masses, to strengthen conservation of wild life, in particular, and biodiversity as well as the environment.

#### **MISSION**

To provide better up-keep and best veterinary care to the captive animals and to create a centre of excellence for the tourists by providing an opportunity for better understanding of the animal world with education and recreation.

#### **OBJECTIVE**

The National Zoo Policy States:- "The main objective of the zoo shall be to complement and strengthen the National efforts in conservation and strengthen the National efforts in conservation of the rich biodiversity of the country, particularly the fauna."

Thus, Zoo, keeping with the above goals have following objectives: -

- ➤ Conservation: To conserve and preserve wild fauna by improving and enhancing the Captive Breeding Program of selected endangered species.
- **Education**: To educate and create awareness amongst the visitors about importance of biodiversity and its conservation. It also helps us to raise awareness about protecting the environment.
- ➤ Research and Training: To facilitate research and training in the field of conservation of wildlife, its captive management and veterinary care of wild animals.
- >Recreation: To entertain the visitors with a rich collection of flora and fauna, both native and exotic species.

## About Us

#### Basic Information About The Zoo

Name of the Zoo | Sardar

Sardar Patel Zoological Park

Year of Establishment

2019

Address of the Zoo

Old JP Camp, Near Statue of Unity, Garudeshwar,

Dis.: Narmada

State

Gujarat

Telephone Number

02640232600

**Email Address** 

directorkis@gmail.com

Website

https://statueofunity.in/jungle-safari/

https://www.soutickets.in/#/services-venue-list

Distance from Nearest

Airport: 95 km (Vadodara)

Railway Station: 9km (Ekta Nagar)

Bus Station: 8 km (Ekta Nagar)

Recognition Valid up to

17/10/2022

Category of the Zoo

Medium

Area (in Hectares)

43.97

Number of Visitors

991161

Visitors Facility available in Zoo

Online Ticket Booking, Drinking Water Kiosk, Toilets, Rest Area, Sit-outs, Food Court, Canteen, Cloak Room, Perambulator for Children, First Aid, Help Booth, Battery Operated Vehicle, Zoo Maps, Publications, Souvenir Shops, Special Toilet, Ramps, and Wheel Chairs for differently abled person

Weekly Closure of the Zoo

Monday

#### Management Personal of the Zoo

Name with designation of the officer in-charge

Dr. Ram Ratan Nala

Name of the Curator

Mahesh Trivedi

Name of the Veterinary Officer

Dr. Jhanvi Chitariya

Dr. Chetan Patond

Dr. Ushma Patel

Dr. Yash Chaudhari

Name of the Biologist

Ravikumar Patel

Name of the Behaviourist

Krunal Trivedi

Name of Head Keeper

Mitesh Patel Janani Arun

Name of the Livestock Inspector

Ketan Bhil Shubham Lakhara

### Owner/Operator of the Zoo

Name of the Operator

Additional Chief Secretary, Forest & Environment

Department, Government of Gujarat

Address of the Operator

Additional Chief Secretary (Forest & Env.), Forest & Environment Department, Block 14, 8th Floor,

Gandhinagar

Contact Details/Phone Number of Operator

+91 7923251051

**Email Address of the Operator** 

Ds-f-fed@gujarat.gov.in

## Organizational Chart



## **Human Resource**

#### Officers/Officials working in Sardar Patel Zoological Park, Ekta Nagar

	Officers/C	Officials worki	ng in Sardar Patel Zoological Park, Ekta Nagar
Sr. No.	Designation Num	per of Post	Name of incumbent
1	Deputy Conservator of Forest	1	Dr. R. R. Nala (IFS)
2	Assistant Conservator of Forest	1	M. Trivedi
3	Curator	1	M. Trivedi
4	Range Forest Officer	5	U. Raulji, B. Vala, K. Chaudhari, P. Joshi, J. Sarvaiya
5	Forester	5	S. Chauhan, R. Rathva, D. Vasava, U. Rathva
6	Beat Guard	14	A. K. Tadvi, R. B. Tadvi, S. R. Tadvi, R. R. Vasava, H. G. Vasava, B. N. Machi, U. R. Rathva, K. M. Patel, K. B. Rathva, K. V. Gohel, Y. D. Vasava, K. P. Tadvi, B. S. Vasava
7	Veterinary Officer	4	J. Chitariya, C. Patond, U. Patel, Y. Chaudhari
8	Biologist	1	R. Patel
9	Animal Behaviourist	1	K. Trivedi
10	Head Keeper	2	M. Patel, J. Arun
10	Accountant	0	
11	Clerk	2	D.C. Patel, R.Makwana

## **Human Resource**

#### Employees working in Sardar Patel Zoological Park, Ekta Nagar

			Employees working in Sardar Patel Zoological Park, Ekta Nagar
Sr. No.	Designation	Number of Post	Name of incumbent
1	Animal Keeper	66	D. Tadvi, A. Tadvi, G. Tadvi, N. Tadvi, J. Tadvi, J. Tadvi, K. Tadvi, K. Tadvi, T. Tadvi, J. Tadvi, S. Tadvi, H. Tadvi, P. Tadvi, D. Tadvi, H. Tadvi, K. Tadvi, A. Tadvi, A. Tadvi, N. Tadvi, N. Tadvi, D. Tadvi, K. Tadvi, J. Tadvi, J. Tadvi, A. Tadvi, H. Tadvi, K. Tadvi, R. Tadvi, R. Tadvi, G. Tadvi, D. Tadvi, N. Tadvi, S. Tadvi, B. Tadvi, D. Bariya, A. Tadvi, H. Tadvi, N. Tadvi, A. Tadvi, D. Vasava, R. Tadvi, Y. Tadvi, P. Tadvi, C. Tadvi, M. Vasava, R. Vasava, A. Tadvi, P. Tadvi, P. Tadvi, A. Tadvi, D. Tadvi, C. Tadvi, V. Bhil, U. Tadvi, J. Tadvi, S. Tadvi, J. Tadvi, J. Tadvi, N. Tadvi, M. Tadvi, R. Tadvi, V. Tadvi, V. Tadvi, B. Tadvi, D. Tadvi
2	Computer Operator	4	D. Tadvi, N. Tadvi, Y. Pathak, V. Chauhan
3	Receptionist	1	R. Tadvi
4	Office Assistant	1	P. Suthar
5	Store Keeper	2	Y. Tadvi, Y. Vasava
6	Driver	13	C. Tadvi, D. Tadvi, K. Vasava, A. Tadvi, V. Dave, R. Tadvi, C. Tadvi, V. Tadvi, A. Tadvi, A. Tadvi, L. Tadvi, F. Malek, B. Tadvi
7	Head Gardner	4	N. Tadvi, J. Tadvi, R. Tadvi, A. Vasava
8	Gardener	12	N. Tadvi, H. Tadvi, A. Tadvi, D. Tadvi, I. Tadvi, M. Tadvi, D. Vasava, C. Tadvi, R. Tadvi, H. Tadvi, M. Tadvi, J. Tadvi
9	Cleaner	12	S. Tadvi, K. Bariya, K. Tadvi, M. Tadvi, M. Tadvi, R. Harijan, M. Harijan, S. Harijan, P. Harijan, R. Harijan, V. Solanki, P. Tadvi
10	Electrician	2	J. Tadvi, M. Tadvi
11	Pump Operator	2	S. Patel, K. Tadvi
12	Cook & Kitchen Helper	5	V. Tadvi, S. Tadvi, R. Tadvi, V. Tadvi, D. Vasava
13	Security	20	A. Tadvi, H. Tadvi, B. Tadvi, S. Tadvi, P. Tadvi, S. Tadvi, D. Tadvi, N. Tadvi, A. Tadvi, G. Bhil, M. Tadvi, S. Tadvi, R. Tadvi, A. Tadvi, D. Dungrabhil, S. Tadvi, G. Tadvi, B. Tadvi, P. Tadvi, S. Tadvi

### **Zoo Advisory Committee**

Retired IFS Shri Bharat Pathak has been appointed as Zoo Advisor for Sardar Patel Zoological Park. He was a member of Central Zoo Authority Of India, Gujarat Biodiversity Board, Govt. of Gujarat. He has about 40 years of Forest and Wildlife Ecology/ Conservation as a member of Forest Service, focused on Forest and Wildlife Conservation management with ecosystem approach.

He visits Sardar Patel Zoological Park and continuously provides valuable guidance and has steered the zoo towards accomplishing its core vision, mission and objective.



## **Health Advisory Committee**

Sr. No.	Name	Designation
1	Director, Sardar Patel Zoological Park	Chairman
2	Dy. Director, Animal Husbandry, Rajpipla	Member
3	HOD, Pathology/Parasitology/Microbiology, Navsari Agricultural University	Member
4	Veterinary Officer, Indroda Nature Park, Gandhinagar	Member
5	Veterinary Officer, Sardar Patel Zoological Park	Member
6	ADIO, Bharuch	Member
7	Curator, Sardar Patel Zoological Park	Member Secretary

Note: Two meetings of Health Advisory Committee conducted in 2022-2023







## Statement of Income & Expenditure of the Zoo



Year: 2022-23

Income from Entry Fees (Deposited in Society of Zoological Park): 17.80 Crore

**Expenditure** (Done from society accounts): 10.07 Crore

Remarks: Income from entry fees of the zoological park is deposited in the society of the Sardar Patel

Zoological Park and expenses are the incurred from society as per approved budget of the society.

## Feeding Schedule of Animals

Sr. No.	Species	Feed Item	Season	Feeding Time	Day of Fasting
1	Herbivores	Vegetables, fodder, concentrate, grains	All season	Thrice a day	-
2	Carnivores	Beef , chicken, dry dog food	All season	Once a day	Thursday
3	Omnivores	Vegetables, fruits, eggs, worms, milk, grains, bread	All season	Twice a day	-
4	Aves	Vegetables, fruits, grains, worms, fish, eggs	All season	Thrice a day	-
5	Reptiles (Crocodiles & Gharials)	Fish & beef	All season	Once every week	-
6	Reptiles (Iguana & Sulcata Tortoise)	Vegetables, fruits, flowers, leaves	All season	Twice a day	



Feed preparation at SPZP kitchen

## **Vaccination Schedule of Animals**

Sr. No.	Species	Disease vaccinated against	Name of the Vaccine and dosage/ quantity used	Periodicity
1	All Feline (Lion, Tiger, Leopard, Serval)	Feline Panleukopenia, Feline Calcivirus, Feline Rhinotracheitis Rabies	Feligen (1ml / animal SC)	Annual
2	All Canines (Dhole, Wolf, Hyena, Silver Fox)	Canine Distemper Virus, Canine Adeno Virus, Canine Parvo Virus, Parainfluenza, Leptospirosis Rabies	Nobivac Dhappi, Nobivac Lepto, Nobivac R (1 ml / animal SC)	Annual
3	Omnivores (Sloth Bear)	Leptospirosis Rabies	Nobivac Lepto, Nobivac R (1 ml / animal SC)	Annual
4	Equus hemionus and Rhinoceros unicornis	Tetanus	Tetanus Toxoid (5 ml/ animal IM)	Annual
5	All Indian Birds	Lasota	Water based	Annual

## **Deworming Schedule of Animals**

Sr. No.	Species	Drug used	Month
1	All Carnivores	Combination of	Quarterly
		<ol> <li>Praziquantel,</li> <li>Pyrantel Embonate</li> </ol>	
		3) Febantel	.1G0.
		4) Ivermectin	
2	All Herbivores	1) Albendazole	Quarterly
		2) Fenbendazole	
		3) Ivermectin	
3	All Birds	Combination of	Quarterly
		1)Praziquantel	
		2) Oxfendazole	
		3)Fenbendazole	
		4)Amprolium	
		5) Moxidectin	
		6) Ivermectin	
4	Primates	1) Albendazole	Quarterly
	531	2) Fenbendazole	
5	Reptiles	1) Fenbendazole	Annually
			Or
			In case of positive faecal sample

## **Dis-infection Schedule**

Sr. No.	Species	Type of enclosure	Disinfectant used and method	Frequency of disinfection
1	All Carnivores	<ul><li>Night Shelter</li><li>Open Enclosure</li></ul>	<ul><li>Chemical (Kohrsolin-TH)</li><li>Burning Method</li></ul>	Once in a week Once in a week
2	All Birds/ Herbivores/ Reptiles/ primates	<ul><li>Night Shelter</li><li>Open Enclosure</li></ul>	<ul><li>Chemical (Kohrsolin-TH)</li><li>Burning Method</li></ul>	Once in a week Twice in a month
3.	Zoo pathways, entry gate foot dips, goods carriage vehicles	Zoo pathways, entry gate	- Chemical (Kohrsolin-TH)	Alternate day

## **Abstract of Veterinary Activities (2022-23)**

No	Activities	Number of cases
1	Cases treated	112
2	Surgery performed	37
3	De-worming	6318 (All Animals Four times in a year except reptiles)
4	Chemical Immobilizations	34
5	Screening of Blood samples	9
6	Biochemical assay	3
7	Bacteriological examination	9
8	Faecal sample examination	119

# Health Check-up of Zoo Staff and Vaccination for Zoonotic Diseases

Sr. No.	Particular	No. of Individual
1	Staff vaccination for prevention of Rabies	126
2	Staff vaccination for prevention of Tetanus and Diphtheria	115





### New Development Carried Out in the Year (2022-23)

### **Reptile House Development**











## **Education and Awareness Programs**

Sr. No.	Event Name	Date
1	World Lion Day	10/08/2022
2	Wildlife Week	02/10/2022 - 08/10/2022
3	World Rhino Day	22/09/2022
4	World Sloth Bear Day	12/10/2022
5	World Lemur Day	29/10/2022









## Seasonal Special Arrangement for Upkeeping of Animals

Sr. No.	Season	Arrangements
	Winter	<ul> <li>Air heater are used in enclosures and night rooms.</li> <li>Dry grass provided as bedding material to give warm and comfortable resting area.</li> <li>Seasonal fruits and oily seeds provided to birds and animals.</li> <li>Rocky and sandy area created for reptiles to bask.</li> </ul>
2	Summer	<ul> <li>Air cooler/Air Conditioner are used in enclosures and night rooms.</li> <li>Water pools are provided in enclosures.</li> <li>Electrolyte powder is given in drinking water.</li> <li>Mist sprayers and sprinklers are installed in all enclosures.</li> <li>Seasonal fruits and seeds are provided to birds and animals.</li> </ul>

### Research & Publication

- Patel, R., R.R. Nala, H.J. Patel, N. Chaudhari & J. Chitariya (2022). Captive breeding of Blackcrowned Night Heron at Sardar Patel Zoological Park, India. Bird-osoar #185, In: Zoo's Print 37(11): 20–22
- Patel, R., Nala, R., Patel, H. & Chaudhary, N. (2023). Occurrence of Lesser Florican (*Sypheotides indicus*) at the Statue of Unity, Narmada District, Gujarat, India -with a note on its captive feeding habits. Species 2023; 24: e5s1005











**Figure 2** Lesser Florican feeding on (A) Locusts (B) Skink Eutropis carinata (C) Euphlyctiscya nophlyctis (D) Macrochlamys indica (E) Minervarya agricola

## Animal Acquisition / Transfer / Exchange

Sr No.	Species Name	Number (M:F:U)	Date of Arrival in the Zoo
1	Red Handed Tamarin	1:1:0	18/07/2022
2	Scarlet Macaw	0:0:2	18/07/2022
3	Blue & Gold Macaw	0:0:7	18/07/2022
4	Green Winged Macaw	1:1:2	18/07/2022
5	Rainbow Lorikeet	5:5:1	18/07/2022
6	Crowned Crane	0:0:2	03/10/2022
7	Galah Cockatoo	0:0:4	18/07/2022
8	Yellow Crown Amazon	0:0:8	18/07/2022
9	Blue Fronted Amazon	1:1:2	18/07/2022
10	Eclectus Parrot	0:0:6	18/07/2022
11	Red Billed Toucan	1:2:1	18/07/2022
12	Sun Conure	0:0:13	18/07/2022
13	Green Cheek Conure	8:8:0	18/07/2022
14	Black Swan	0:0:2	18/07/2022
15	Lady Amherst's Pheasant	1:1:0	18/07/2022

## Rescue & Rehabilitation

Sr. No.	Date	Species	Rescue Location	Name of Rescuer	Condition of Animal	Status of Animal
1	14/04/2022	Indian Peafowl (2 Individuals)	Gora Range	Sanjay Bariya	Poisoning	Died
2	21/04/2022	Indian Peafowl	Kevadia Range	Harpalsinh Gohil	Heat stroke	Released
3	02/05/2022	Grey Langur	Gora Range	V. P. Tadvi	Recumbent Position	Died
4	06/05/2022	Indian Peafowl	Gora Range	V. P. Tadvi	Critical Condition	Died
5	19/05/2022	Indian Rock Python	Sinor Range	V. R. Rabari		Released
6	16/07/2022	Bonelli's Eagle	Gora Range	V. P. Tadvi	Injured	Died
7	18/09/2022	Rose Ringed Parakeet	Baroda	Suresh Prajapati	Injured	Released in Indian Aviary
8	29/09/2022	Four-horned Antelope	Tent City 2	K. Tadvi	Injured	Died
9	17/12/2022	Indian Leopard	Bujetha Viilage	Gautam Sankhat	Fallen in well	Rescued and released
10	23/11/2022	Rhesus Macaque	Dhavariya Village	J. R. Tadvi	Injured	Kept at Hospital
11	09/01/2023	Indian Peafowl	Atoni Round	U. B. Tadvi	Injured	Released





			Stoc	k as on						Apri	il 2022 -	March 2	023						Stoc	k as on	
			01-0	04-2022			Births		А	cquisitio	าร		Disposa	als		Deaths			31-0	3-2023	
Schedule I and II		М	F	U	Т	М	F	U	М	F	U	М	F	U	M	F	U	М	F	U	T
Mammals		23	41	22	86	0	0	22	0	0	0	0	0	0	3	6	0	36	53	11	100
Birds		5	7	7	19	0	0	5	0	0	0	0	0	0	1	0	0	5	10	8	23
Reptiles		2	4	10	16	0	0	0	0	0	8	0	0	0	1	2	0	2	4	14	20
Total	30	)	52	39	121	0	0	27	0	0	8	0	0	0	5	8	0	43	67	33	143
Other Schedule Species																					
Mammals		17	25	10	52	3	0	10	0	0	0	0	0	0	3	3	0	23	32	4	59
Birds		68	52	189	309	0	0	25	0	0	0	0	0	0	7	5	0	88	71	163	322
Reptiles		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total		85	77	199	361	3	0	35	0	0	0	0	0	0	10	8	0	111	103	167	381
Exotic Species																					
Mammals		18	18	6	42	5	4	2	1	1	0	0	0	0	3	3	0	25	23	1	49
Birds		17	18	916	951	0	0	0	41	41	0	0	0	0	7	6	0	51	55	914	1020
Reptiles		3	3	0	6	0	0	0	0	0	0	0	0	0	0	0	0	3	3	0	6
Total		38	39	922	999	5	4	2	42	42	0	0	0	0	10	9	0	79	81	915	1075
Grand Total																					
Mammals		58	84	38	180	8	4	34	1	1	0	0	0	0	9	12	0	84	108	16	208
Birds		90	77	1112	1279	0	0	30	41	41	0	0	0	0	15	11	0	145	137	1083	1365
Reptiles		5	7	10	22	0	0	0	0	0	8	0	0	0	1	2	0	5	7	14	26
Total	02	153	168	1160	1481	8	4	64	42	42	8	0	0	0	25	25	0	234	252	1113	1599

Total specie	es as on 31 <sup>st</sup> M	arch 2023		
	Mammals	Birds	Reptiles	Total
Schedule I and II Species	14	2	2	18
Other Schedule Species	6	19	0	25
<b>Exotics Species</b>	17	29	3	49
Total	37	50	5	92

### Inventory of Schedule I and II Species of Mammals (Wildlife Protection Act 1972), from April 2022 - March 2023

				04 a a la							April 2	2022 - M	arch 2	0023						N1-		
Sr.		<b>6</b> 1 (10 1)		Stock				51.4									<b>5</b> 41			Stock		
No.	Common Name	Scientific Name		01-04	-2022	2		Births	•	Ac	quisitic	ns	D	isposa	IS		Deaths			31-03-	2023	
			M	F	U	Т	М	F	U	М	F	U	M	F	U	М	F	U	M	F	U	Т
1	ASIATIC LION	Panthera leo percicus	2	2	0	4	0	0	0	0	0	0	0	0	0	1	0	0	1	2	0	3
2	INDIAN LEOPARD	Panthera pardus fusca	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
3	BENGAL TIGER	Panthera tigris tigris	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
4	MANIPUR BROW-ANTLERED DEER	Rucervus eldii eldii	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	4
5	BLACKBUCK	Antilope cervicapra	5	10	5	20	0	0	9	0	0	0	0	0	0	1	0	0	11	14	3	28
6	INDIAN GAZELLE	Gazella bennettii	1	4	4	9	0	0	5	0	0	0	0	0	0	0	3	0	2	6	3	11
7	FOUR-HORNED ANTELOPE	Tetracerus quadricornis	1	3	3	7	0	0	2	0	0	0	0	0	0	0	0	0	3	4	2	9
8	GAUR	Bos gaurus	1	1	0	2	1	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3
9	INDIAN WILD ASS	Equus hemionus khur	3	0	0	3	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	2
10	ONE HORNED RHINOCEROS	Rhinoceros unicornis	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
11	INDIAN WOLF	Canis lupus pallipas	1	2	0	3	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	2
12	BEAR SLOTH	Melursus ursinus	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
13	BLACKBUCK ( WHITE )	Antilope cervicapra	5	10	10	25	0	0	6	0	0	0	0	0	0	0	2	0	10	16	3	29
14	LEOPARD (MELANISTIC)	Panthera pardus	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
	TOTAL		23	41	22	86	0	0	22	0	0	0	0	0	0	3	6	0	36	53	11	10 0

#### Inventory of Schedule I and II Species of Birds (Wildlife Protection Act 1972), from April 2022 - March 2023

				Stoc	k as on						April	2022 -	March	2023						Stock a	s on	
Sr. No.	Common Name	Scientific Name		01-0	4-2022			Births		Ac	quisitio	ons	D	isposal	s		Deaths			31-03-2	2023	
			М	F	U	Т	М	F	U	М	F	U	M	F	U	М	F	U	М	F	U	Т
1	EURASIAN SPOONBILL	Platalea leucorodia	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
2	INDIAN PEAFOWL	Pavo cristatus	4	6	7	17	0	0	5	0	0	0	0	0	0	1	0	0	4	9	8	21
	TOTAL		5	7	7	19	0	0	5	0	0	0	0	0	0	1	0	0	5	10	8	23

#### Inventory of Schedule I and II Species of Reptiles (Wildlife Protection Act 1972), from April 2022 - March 2023

				Stoc	k as on						April	l 2022 -	March	2023						Stock	as on	
Sr. No.	Common Name	Scientific Name		01-0	4-2022			Births		Ac	quisitio	ons	D	isposa	ls		Deaths			31-03-	2023	
			М	F	U	T	М	F	U	М	F	U	М	F	U	М	F	U	М	F	U	Т
1	MARSH CROCODILE	Crocodylus palustris	0	0	10	10	0	0	0	0	0	8	0	0	0	1	2	0	0	1	14	15
2	GHARIAL	Gavialis gangeticus	2	4	0	6	0	0	0	0	0	0	0	0	0	0	1	0	2	3	0	5
	EXOTIC TOTAL		2	4	10	16	0	0	0	0	0	8	0	0	0	1	2	0	2	4	14	20

#### Inventory of Other Schedule Species of Mammals (Wildlife Protection Act 1972), from April 2022 - March 2023

				Stoc	k as on	1					April	2022 -	March	2023						Stock a	as on	
Sr. No.	Common Name	Scientific Name		01-0	4-2021			Births		Ac	quisitio	ons		isposa	ls		Deaths			31-03-	2023	
			M	F	U	Т	М	F	U	М	F	U	М	F	U	М	F	U	М	F	U	Т
1	SPOTTED DEER	Axis axis	6	7	3	16	0	0	3	0	0	0	0	0	0	0	2	0	7	9	1	17
2	INDIAN MUNTJAC	Muntiacus muntjak	1	3	1	5	0	0	3	0	0	0	0	0	0	1	1	0	2	3	1	6
3	SAMBAR	Rusa unicolor	8	11	4	23	0	0	3	0	0	0	0	0	0	2	0	0	8	15	1	24
4	HIMALAYAN GORAL	Naemorhedus goral	1	2	2	5	0	0	1	0	0	0	0	0	0	0	0	0	2	3	1	6
5	INDIAN WILD DOG	Cuon alpinus	1	1	0	2	3	0	0	0	0	0	0	0	0	0	0	0	4	1	0	5
6	HYENA STRIPED	Hyaena hyaena	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
	TOTAL		17	25	10	52	3	0	10	0	0	0	0	0	0	3	3	0	23	32	4	59

#### **Inventory of Other Schedule Species of Birds (Wildlife Protection Act 1972), from April 2022 - March 2023**

				Stoc	k as on						April	2022 -	March	2023						Stock	as on	
Sr.	Common Name	Scientific Name						Births		Ac	quisitio			isposa	ls		Deaths					
No.			М	01-0 F	4-2022 U	т	M	F	U		F	U	M	F	IJ	M	F	U	M	31-03 F	3-2023 U	Т
1	PAINTED STORK	Mycteria leucocephala	0	0	40	40	0	0	25	0	0	0	0	0	0	0	0	0	10	10	45	65
2	GREAT WHITE PELICAN	Pelecanus onocrotalus	2	2	3	7	0	0	0	0	0	0	0	0	0	0	0	0	2	2	3	7
3	RED JUNGLEFOWL	Gallus gallus	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
4	ALEXANDRINE PARAKEET	Psittacula eupatria	9	10	6	25	0	0	0	0	0	0	0	0	0	0	2	0	12	11	0	23
5	PLUM-HEADED PARAKEET	Psittacula cyanocephala	0	0	22	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22
6	ROSE RINGED PARAKEET	Psittacula krameri	55	40	7	102	0	0	0	0	0	0	0	0	0	1	0	0	54	40	7	101
7	WHITE IBIS	Threskiornis melanocephalus	0	0	8	8	0	0	0	0	0	0	0	0	0	3	0	0	0	0	5	5
8	RED NAPED IBIS	Pseudibis papillosa	0	0	18	18	0	0	0	0	0	0	0	0	0	1	0	0	0	0	17	17
9	LESSER FLAMINGO	Phoeniconaias minor	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
10	COMMON CRANE	Grus grus	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
11	DEMOISELLE CRANE	Grus virgo	0	0	4	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3	3
12	SARUS CRANE	Antigone antigone	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
13	EGRET	Bubulcus ibis	0	0	28	28	0	0	0	0	0	0	0	0	0	1	1	0	8	8	10	26
14	POND HERON	Ardeola grayii	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
15	NIGHT HERON	Nycticorax nycticorax	0	0	13	13	0	0	0	0	0	0	0	0	0	0	1	0	0	0	12	12
16	LESSER EHISTLING TEAL	Dendrocygna javanica	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
17	COMB DUCK	Sarkidiornis sylvicola	0	0	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20
18	BAR HEADED GOOSE	Anser indicus	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
19	GREYLAG GOOSE	Anser anser	0	0	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9
	TOTAL		68	52	189	309	0	0	25	0	0	0	0	0	0	7	5	0	88	71	163	322

#### Inventory of Exotic Species of Mammals (Wildlife Protection Act 1972), from April 2022 - March 2023

				Stock	as or	า					April	2022 -	Marc	h 2023	3					Stock	as on	
Sr. No.	Common Name	Scientific Name		01-04	-2022	:		Births		Ac	quisiti	ons	D	isposa	ls	[	Deaths			31-03	3-2023	
			М	F	U	Т	М	F	U	М	F	U	М	F	U	М	F	U	М	F	U	Т
1	SQUIRREL MONKEY	Saimiri sciureus	1	1	2	4	2	0	0	0	0	0	0	0	0	1	1	0	3	1	0	4
2	COTTON-TOP TAMARIN	Saguinus Oedipus	1	1	2	4	0	0	1	0	0	0	0	0	0	0	1	0	3	1	0	4
3	COATIMUNDI	Nasua nasua	2	3	0	5	0	0	1	0	0	0	0	0	0	0	0	0	2	3	1	6
4	TUFTED CAPUCHIN	Cebus paella	1	1	2	4	1	0	0	0	0	0	0	0	0	0	0	0	3	2	0	5
5	LLAMA	Lama glama	2	1	0	3	0	1	0	0	0	0	0	0	0	0	0	0	2	2	0	4
6	ALPACA	Vicugna pacos	1	3	0	4	0	1	0	0	0	0	0	0	0	1	1	0	0	3	0	3
7	RED NECKED WALLABY	Macropus rufogriseus	1	1	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1
8	BAT EARED FOX	Otocyon megalotis	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
9	SERVAL CAT	Leptailurus serval	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3
10	GIRAFFE	Giraffa camelopardalis	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
11	GEMSBOK / ORYX	Oryx gazelle	1	1	0	2	1	1	0	0	0	0	0	0	0	0	0	0	2	2	0	4
12	ZEBRA	Equus quagga	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
13	WILDBEEST	Connochaetes taurinus	1	2	0	3	1	1	0	0	0	0	0	0	0	0	0	0	2	3	0	5
14	COMMON MARMOSET	Callithrix jacchus	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
15	RED HANDED TAMARIN	Saguinus midas	1	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	2	1	0	3
16	RING TAIL LEMUR	Lemur catta	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
17	HIPPOPOTAMUS	Hippopotamus amphibius	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
	EXOTIC TOTAL		18	18	6	42	5	4	2	1	1	0	0	0	0	3	3	0	25	23	1	49

### Inventory of Exotic Species of Birds (Wildlife Protection Act 1972), from April 2022 - March 2023

				Stock	25 On						April	2022 - 1	March 1	2023				4		Stoc	k as on	
Sr.				Slock	as UII						•						2 4.			3100	k as Uli	
No.	Common Name	Scientific Name		01-04	-2022			Births		A	cquisitic	ns	D	isposa	ls		Deaths			31-0	3-2023	
			M	F	U	Т	М	F	U	М	F	U	М	F	U	M	F	U	М	F	U	Т
1	GOLDEN PHEASANT	Chrysolophus pictus	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
2	BUDGERIGAR	Melopsittacus undulates	0	0	330	330	0	0	0	0	0	0	0	0	0	1	0	0	0	0	329	329
3	PEACH-FACED LOVEBIRD	Agapornis roseicollis	0	0	215	215	0	0	0	0	0	0	0	0	0	0	1	0	0	0	214	214
4	GREEN CHEEKED CONURE	Pyrrhura molinae	0	0	49	49	0	0	0	8	8	0	0	0	0	0	0	0	8	8	49	65
5	SUN CONURE	Aratinga solstitialis	0	0	0	0	0	0	0	6	6	0	0	0	0	0	1	0	6	5	0	11
6	RAINBOW LORIKEET	Trichoglossus moluccanus	0	0	0	0	0	0	0	5	5	0	0	0	0	0	0	0	5	5	0	10
7	GALAH COCKATOO	Eolophus roseicapilla	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	2	2	0	4
8	COCKATIEL	Nymphicus hollandicus	0	0	68	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68	68
9	BLUE GOLD MACAW	Ara ara rauna	1	1	0	2	0	0	0	4	4	0	0	0	0	0	0	0	5	5	0	10
10	RED AND GREEN MACAW	Ara chloropterus	1	1	0	2	0	0	0	2	2	0	0	0	0	0	0	0	3	3	0	6
11	SCARLET MACAW	Ara macao	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
12	ORANGE WINGED AMAZON	Amazona amazonica	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
13	YELLOW-CROWNED AMAZON	Amazona ochrocephala	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	4	4	0	8
14	BLUE-FRONTED AMAZON	Amazona aestiva	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	2	2	0	4
15	ECLECTUS PARROT	Eclectus roratus	0	0	0	0	0	0	0	3	3	0	0	0	0	1	0	0	2	3	0	5
16	OSTRICH	Struthio molybdophanes	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3
17	EMU	Dromaius novaehollandiae	0	0	11	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11
18	CROWNED CRANE	Balearica regulorum	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	2
19	VIOLET TURACO	Tauraco violaceus	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
20	CHENNAL BILLED TOUCAN	Ramphastos vitellinus	1	1	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1
21	RED-BILLED TOUCAN	Ramphastos tucanus	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	2	2	0	4
22	LADY AMHERST PHEASANT	Chrysolophus amherstiae	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3
23	SIVER PHEASANT	Lophura nycthemera	2	3	0	5	0	0	0	0	0	0	0	0	0	1	0	0	1	3	0	4
24	BLUE MELANISTIC PHEASANT	Lophura swinhoii	3	2	0	5	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0
25	REEVES'S PHEASANT	Syrmaticus reevesii	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	2
26	BLACK SWAN	Cygnus atratus	1	1	10	12	0	0	0	1	1	0	0	0	0	0	1	0	1	2	10	13
27	CAROLINA DUCK	Aix sponsa	3	3	0	6	0	0	0	0	0	0	0	0	0	0	1	0	3	2	0	5
28	FINCHES	Fringillidae sp.	0	0	200	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200	200
29	DIMOND DOVE	Geopelia cuneata	0	0	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30
	EXOTIC TOTAL		17	18	916	951	0	0	0	41	41	0	0	0	0	7	6	0	51	55	914	1020

### Inventory of Exotic Species of Reptiles (Wildlife Protection Act 1972), from April 2022 - March 2023

				Stock	as on						April	2022 -	- Marc	h 2023	3					Stock	as on	
Sr. No.	Common Name	Scientific Name		01-04	-2022			Births		Ac	quisitio	ons	D	isposa	ıls		Death	S		31-03-	2023	
			М	F	U	Т	М	F	U	M	F	U	М	F	U	М	F	U	М	F	U	Т
1	GREEN IGUANA	Iguana iguana	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
2	RED IGUANA	Iguana iguana	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
3	SULCATA TORTOISE	Centrochelys sulcata	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
	EXOTIC TOTAL		3	3	0	6	0	0	0	0	0	0	0	0	0	0	0	0	3	3	0	6
	5	ardar P	0.																			

## Mortality Report (April 2022 - March 2023)

Sr. No.	Date	Species	М	F	U	Т	Cause of Death
1	01/04/2022	GHARIAL	0	1	0	1	Heat Stroke
2	12/05/2022	INDIAN WOLF	0	1	0	1	Cardiac Arrest
3	14/05/2022	ALPACA	1	0	0	1	Heat Stroke
4	24/05/2022	NIGHT HERON	0	1	0	1	Respiratory Failure
5	28/05/2022	INDIAN GAZELLE	0	1	0	1	Respiratory Failure
6	29/05/2022	INDIAN MUNTJAC	0	1	0	1	Respiratory Failure
7	09/04/2022	MARSH CROCODILE	0	1	0	1	Accidental Shock
8	12/05/2022	BLUE MELANISTIC PHEASANT	0	1	0	1	Septicemic Shock
9	01/04/2022	BLUE MELANISTIC PHEASANT	0	1	0	1	Cardio Pulmonary Arrest Due to Enteritis
10	31/05/2022	INDIAN GAZELLE	0	1	0	1	Respiratory and Cardiac Failure
11	16/06/2022	BLACKBUCK	1	0	0	1	Respiratory Failure
12	22/06/2022	EGRET	0	1	0	1	Accidental Shock
13	19/07/2022	LESSER FLAMINGO	0	1	0	1	Cardio-Pulmonary Arrest
14	20/09/2022	COTTON-TOP TAMARIN	0	1	0	1	Cardiac Arrest
15	28/08/2022	CHANNEL BILLED TOUCAN	1	0	0	1	Cardio-Pulmonary Arrest
16	12/09/2022	BLACK SWAN	0	1	0	1	Snake bite
17	17/09/2022	INDIAN PEAFOWL	1	0	0	1	Cardio-Pulmonary Arrest
18	01/10/2022	SAMBAR	1	0	0	1	Cardio-Pulmonary Arrest
19	02/10/2022	MARSH CROCODILE	0	1	0	1	Cardio-Pulmonary Arrest with empyema
20	03/10/2022	BLUE MELANISTIC PHEASANT	1	0	0	1	Traumatic shock
21	19/10/2022	WHITE BLACK BUCK	0	1	0	1	Respiratory arrest
22	23/10/2022	ROSY FACED LOVEBIRD	0	1	0	1	Cardio-Pulmonary Arrest
23	24/10/2022	ROSE RINGED PARAKEET	1	0	0	1	Cardio-Pulmonary Arrest
24	03/11/2022	SPOTTED DEER	0	1	0	1	Cardio-respiratory failure
25	06/11/2022	DEMOISELLE CRANE	1	0	0	1	Cardio-Pulmonary Arrest due to trauma

## Mortality Report (April 2022 - March 2023)

Sr. No.	Date	Species	M	F	U	Т	Cause of Death
26	07/11/2022	INDIAN GAZELLE	0	1	0	1	Cardio-respiratory failure
27	20/11/2022	CAROLINA DUCK	0	1	0	1	Cardio-respiratory failure
28	21/11/2022	WHITE IBIS	1	0	0	1	Hypovolemia and cardiac shock
29	23/11/2022	MARSH CROCODILE	1	0	0	1	Respiratory Arrest with empyema
30	28/11/2022	INDIAN WILD ASS	1	0	0	1	Cardio-respiratory failure
31	30/11/2022	BUDGRIGER	1	0	0	1	Hypovolemic shock
32	30/11/2022	SILVER PHEASENT	1	0	0	1	Undetermined
33	24/12/2022	WHITE BLACK BUCK	0	1	0	1	Respiratory arrest
34	26/12/2022	BLUE MELANISTIC PHEASANT	1	0	0	0	Hypovolemic shock
35	29/12/2022	SUN CONURE	0	1	0	1	Chronic obstruction of Gizzard
36	05/01/2023	SAMBAR	1	0	0	1	Cardio-Pulmonary Arrest
37	08/01/2023	ASIATIC LION	1	0	0	1	Cardio-Respiratory Failure
38	29/01/2023	SPOTTED DEER	0	1	0	1	Cardio-pumonary arrest
39	29/01/2023	SQUIRREL MONKEY	1	0	0	1	Traumatic Shock
40	29/01/2023	ALPACA	0	1	0	1	Septic Shock and Toxemia
41	31/01/2023	BLUE MELANISTIC PHEASANT	1	0	0	1	Hypovolemic Shock
42	01/02/2023	EGRET	1	0	0	1	Hypovolemic Shock and Traumatic Injury
43	02/02/2023	WHITE IBIS	1	0	0	1	Respiratory Failure
44	02/02/2023	ALEXANDRINE PARAKEET	0	1	0	1	Respiratory failure
45	06/02/2023	RED NAPED IBIS	1	0	0	1	Cardio-Respiratory Failure
46	17/02/2023	WHITE IBIS	1	0	0	1	cardio vascular failure
47	23/02/2023	SQUIRREL MONKEY	0	1	0	1	Respiratory failure
48	14/02/2023	INDIAN MUNTJAC	1	0	0	1	Cardio-Respiratory Failure
49	18/03/2023	ALEXANDRINE PARAKEET	0	1	0	1	Traumatic Shock
50	26/03/2023	ECLECTUS PARROT	1	0	0	1	Hepatitis
51	28/03/2023	RED NECKED WALLABY	1	0	0	1	Septicemia
			25	25	0	50	

## Avian emergency workshop with special reference to Makarsankranti festival

Makar Sankranti is yearly celebrated with great passion throughout India. One of the deadliest man-made catastrophes in Indian history, hundreds of birds, perish each year during the Gujarat state kite-flying season.

SPZP organized a workshop this year on how to handle avian emergencies for the rescuers, veterinarians, participate in bird rescue camps every Makar Sankranti.

No. of workshop conducted: 6

Total no. of participants attended: 117







## **Veterinary Internship Program**

#### Vanbandhu College of Veterinary Science & Animal Husbandry

Batch 1: 16 interns

Batch 2: 16 interns

Batch 3: 15 interns

Batch 4: 14 interns

Batch 5: 11 interns

Batch 6: 14 interns

**Total Interns: 86** 













### **Training on Aviary Management**

This year, Sardar Patel Zoological Park provided training to Daman forest department on Exotic Aviary Management. Fourteen forest officials from Daman forest department visited SPZP in three batches and took 7 days training on various topics of aviary management such as feed preparations, cleaning and hygiene, birds handling, nutritional requirements, quarantine protocols, and standard operating protocol for aviary management.

**Batch 1:** 05

**Batch 2:** 05

**Batch 3**: 04

Total staff: 14





## **Fire Safety Training**

Fire safety is important concern for Zoo as the animals are confined within their space and may not be able to escape from exposure to smoke or fire. Similarly, tourist footfall at SPZP is very high and hence fire safety measures are equally important for visitors. Fire safety and electric short circuit management training was organised at Sardar Patel Zoological Park, Ekta Nagar, on 26.12.2022 for animal keepers, security guards, forest guards, foresters, Para veterinarians and veterinarians.





### Other Zoo Visit at SPZP

- 1. Tirupati Zoo
- 2. Assam Zoo
- 3. Vizag Zoo
- 4. Raipur Zoo

- 5. Baroda Zoo
- 6. Gorewada Zoo, Nagpur
- 7. Daman Zoo









### **Environmental Enrichment**

Enrichment plays a very important role in the mental, social, and physiological well-being of animals, birds, and reptiles. The zoo team plays key roles in decoding the food and enclosure enrichment practices and their implementation. Wild animals and birds have access to a variety of food options in nature and spend a lot of time in food search, capture, consumption, etc. Similar concepts are implemented in routine practices for enrichment purposes.

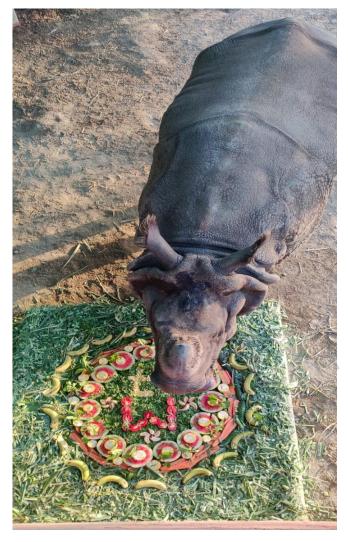








## **Enrichment Activities for Animals at SPZP**





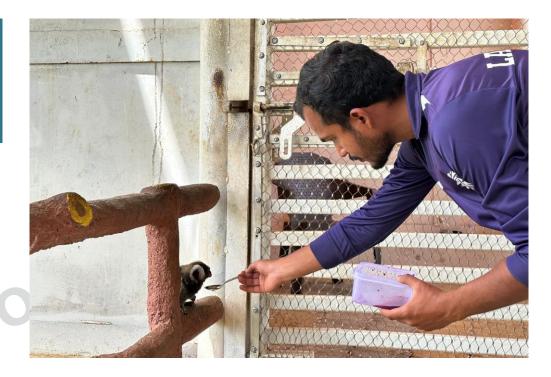


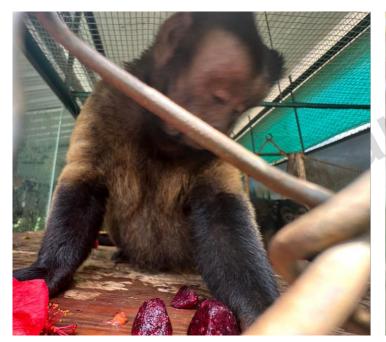




### **Feed Enrichment**

SPZP has planted mulberry trees in their fodder farm. This year we used over organic mulberries in the feed enrichment of animals and birds in summer season where we provided mulberries to them in various forms such as raw mulberries, mulberry juice, mulberry ice cubes, etc.











#### Iris Evisceration in a Ring Tailed Lemur (Lemur catta)

#### Anamnesis

An adult female ring tailed lemur was injured in the right eyeball within the mixed small primate enclosure. The injury resulted in an Iris evisceration.

#### CLINICAL SIGNS/ SYMPTOMS

Right eye lacrimation and was closed. Reluctance in opening the eyelids

### CONSERVATIVE RX DIAGNOSTICS

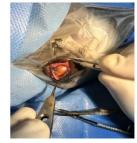
The animal was restrained physically and iris evisceration was diagnosed. Topical moxiflox + keterolac eyedrops and inj. Melon IM

#### SURGICAL RX

As the animal had eaten a full meal, membranoplasty and tarrsoraphy was done immediately.







Iris evisceration through cornea towards the medial cants Routine blood work of CBC, LFT and KFT were carried out to understand the functioning of the vital organs. Haemoglobin and platelets were was slightly low. Following a 6 hour fasting period, the lemur was operated for corneal suturing using PGA 8-0 under balanced anesthesia of Ketamine, tiletamine and isoflurane.

The animal was administered with atropine and meloxicam followed by a cocktail of Zoletil @ 3.6mg/kg b.wt. intramuscularly. Intravenous fluid RL was given @ 20ml/kg b.wt and Ceftrixone and tazobactum @ 20mg/kg b.wt. Surgical site was prepared aseptically by trimming, shaving and cleaning with povidone iodine eye drops. Under the surgical plane of

Weight



~ 2.5 kgs

Vital Parameter



Temp: 100 F HR & RR : Normal

Pre medication and Anaesthesia



Atropine Zoletil Isoflurane

Isoflurane

Surgery performed



Corneal suturing of the evisceration under general anaesthesia

anesthesia, the cornea was sutured using a PGA 8-0 suture by simple interrupted pattern. The cornea was examined for any and all ulcerative lesions and a partial membranoraphy and tarrsoraphy was performed to aid the instillation of eyedrops post operatively. PGA 3-0 sutures on eyelids were placed within small pieces of scalp vein tube so they are not deeply embedded in the eyelid and can be removed easily post operatively.





#### Post operative care

Doxycyclin PO for 10 days Syp. Melo PO for 3 days ED Moxifloxacin QID for 7 days ED Atropine BID for 5 days ED FLUR QID for for 7 days

Sutures over eyelids were removed 10 days post operatively. The animal retained it's vision and recovered uneventfully.





Injuries within primate species is common but wounds on sensitive organs such as the eyeball are to be addressed urgently for proper recovery and to avoid loss or compromise in't function. This case was managed timely with proper care and correct plan of action and thereby it resulted in saving the lemur's vision.

#### SARDAR PATEL ZOOLOGICAL PARK, EKTA NAGAR

### Foreign body in an One Horned Rhinoceros foot (Rhinocerous unicornis)

#### Anamnesis

Male Indian one Horned Rhinoceros was found with severe limping and incomplete weight bearing on the left front leg.

#### CLINICAL SIGNS/ SYMPTOMS

Right foreleg incomplete weight bearing. Limping while walking.

#### **CONSERVATIVE RX**

The animal was given
NSAID along with food
for relief for pain
alleviation and
reduction of
inflammatory response.

#### DIAGNOSTICS

Physical examination.
Radiographic
examination for
presence of any radioopaque foreign body.













The animal was provided with immediate pain relief by administering Meloxicam bolus PO for 3 days. After reduction in pain, the animal was comfortable and co-operated in manual examination and removal of the foreign body from the footpad in a large travis like

Weight



2000 kgs

Vital Parameter



Vital parameter were normal

Pre medication and Anaesthesia



Not required

Surgery performed



The foreign body was removed by physical manipulation area within it's enclosure. The enclosure was additional checked with a metal detector for any stray metal elements and were removed. Post removal of the foreign material, an additional radiograph was taken.



Post operative care

Tab. Tissue Aid x 6 tablets was fed orally daily for five days. Dressing of the footpad with powder Neosporin and aluspray was carried out. A foot bath in the night shelter with KMNo4 solution was additionally provided. The animal showed signs of gradual recovery and was back to normal activity within seven days.



#### DISCUSSION DISCUSSION

Rhinoceros footpads are considered extremely sensitive and it is common finding to have a foreign body embedded in it. This is due to the massive weight of the animal exerted on the ground with each step leading to penetration of any sharp objects into the relatively soft pad. These are extremely dangerous animals to work with from a close proximity, hence chemical restraint should always be considered for any invasive procedures.



#### Laceration in a Barking deer (Muntiacus)

#### Anamnesis

An adult male barking deer was injured by a dominant adult male barking deer due to in-fight within the enclosure as it is a natural behaviour during the breeding period.

#### CLINICAL SIGNS/ **SYMPTOMS**

Deep lacerated wound on the right abdomen, flank and few wounds on the cervical region.

#### **CONSERVATIVE RX**

The animal was in state of shock thereby NSAID was given and the animal was left undisturbed to settle down

#### DIAGNOSTICS

Physical examination and gait observation











The animal was administered with atropine and meloxicam followed by a cocktail of xylazine @ 1mg/kg and Ketamine @ 2mg/kg b.wt. intramuscularly. Intravenous fluid RL was given @

#### Weight



~ 15 kgs

#### Vital Parameter



Temp: 102.4 F HR: tachycardia

Pre medication and Anaesthesia



Atropine **Xylazine** 

Ketamine

#### Surgery performed



Suturing of laceration under balanced anaesthesia

20ml/kg b.wt and Ceftrixone and tazobactum @ 20mg/kg b.wt. Surgical site was prepared aseptically by trimming, shaving, cleaning, flushing and surgical scrubbing using chlorhexidine gluconate and povidone iodine 5% solution. The muscles were sutured using PGA- 2 in simple interrupted pattern. The subcutaneous layer and skin were sutured using PGA-1 in simple interrupted pattern. The surgical site was sealed and dressed aseptically.



#### Post operative care

SARDAR PATEL ZOOLOGICAL PARK, EKTA NAGAR

A course of anti-biotic and analgesic was given for 5 days and 10 days respectively. Liver supplement and multivitamin & multi-mineral supplements were given for 15 days. Regular anti-septic dressing was carried out for 15



#### DISCUSSION ?

days.

Laceration injuries due to in-fight amongst males is a common occurrence in the captive as well as wild herbivores. Such extensive injuries without surgical interventions prove to be fatal. A fine balance in between invasive procedure and ensuring minimum handling at the same is very challenging.



45



#### Herniorraphy in a Female Blue Wildebeest (Connochaetes taurinus)

#### Anamnesis

A blue wildebeest female was showing signs of oestrus but had a history of delivering a healthy male calf 2 months ago. It was in active lactation. The male wildebeest tried to copulate but was unable to do so as the female did not reciprocate. Out of aggression the male injured the female leading to a left abdominal hernia.

#### CLINICAL SIGNS/ SYMPTOMS

Injury on abdomen, neck and back. Bulging swelling on left lateral abdomen

#### DIAGNOSTICS

Reducible nature of the swelling by physical examination confirmed the presence of hernial ring

#### **CONSERVATIVE RX**

NSAID meloxicam

Cleaning and dressing of wound

Preparation for surgical repair









The wildebeest was tranquillised using a combination of Xylazine and Zoletil using a tele inject dart gun. The animal showed progressive signs of imbalance, drowsiness, sternal followed by lateral recumbency in a span of 18mins with

incomplete loss of consciousness. Eye blinds and physical restraints were applied to lift the animal on a stretcher and shift to a clean night shelter of the enclosure. The surgical site was shaved, cleaned and disinfected using chlorhexidine 2%, povidone iodine 7.5% and surgical spirit. The incision line was infiltrated with lignocaine HCl subcutaneously and in the muscle layer below. Incision was taken on the skin over the herniated mass. The hernial ring was identified and secured with stay sutures. All the mesentery and part of intestine in the herniated mass was repositioned in the abdominal cavity. The muscle was sutured using vicryl no. 2 followed by subcutaneous tissue and skin using vicryl no.1. Aseptic dressing was used to cover the wound.

~190 kgs



Vital Parameter Temp: NAD HR & RR:



Increased

Pre medication and Anaesthesia



Xylazine + Zoletil + Lignocaine Hcl

Surgery

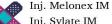


Herrniorraphy using PGA -2 and PGA-1



Inj. Ceftiofur Na s/c

Inj. Amoxicillin forte IM



Inj. Sylate IM

Inj. RL 1.5 lit. IV

Inj. Tribivet IM

Inj. Zoletil

Inj. Xylazine

Inj. Yohimbin Hcl as reversal.

With daily follow up and dressing of the surgical site using aluspray from a distance, the animal recovered uneventfully in 15 days.





Wildebeest are herd animals and the protective instinct of a broody female will let her engage in such in-fights for the safety of her progeny. Thereby it is a practice henceforth to keep the male separate from the female for as long as she is lactating to avoid such conflicts in the future.



#### Rx of Indian Rock Python with bilateral mandibular fracture

(Python molurus)

#### Anamnesis

An Indian Rock Python of about 8 feet was presented at the Veterinary Hospital, SPZP by forest department of a nearby division for treatment and further care.

#### CLINICAL SIGNS/ SYMPTOMS

Multiple fracture of mandible bilaterally, njuries on head and body

#### DIAGNOSTICS

Radiography helped to determine the extent of damage to the facial bones

#### **CONSERVATIVE RX**

The animal was treated with subcutaneous fluids, NSAID and antibiotics







The Indian rock python was unable to feed thereby oesophageal

tube feeding was used to provide enteral nutrition. The animal was

given soaking in KMNO4 bath for disinfection of wounds regularly.

providing a naturalistic environment and additional supplementation.

It's basic needs of sunlight and multi minerals were taken care by







wounds were sutured using PGA no. 1.

#### weight



12 kgs

Vital Parameter



Temp: NAD HR & RR: Normal

Pre medication and Anaesthesia



dil. Lignocaine HCl 2% for topical infilteration on skin



The lacerated

#### The animal had round worm infestation and was treated with fenbendazole. Environmental thermoregulation was an essential aspect that was critically monitored during the initial critical days of recovery as it is a cold blooded animal. This was achieved by using humidifier along with a room heater during the cooler days.





Inj. Enrofloxacin x 7 days

Inj. Melonex x 3 days

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 $Inj. RL + DNS \times 3 days$ 

Inj. Tribivet x 5 days

KMNO4 soaking + Antiseptic dressing of wounds

Oesophageal tube feeding using AI sheath

Multimineral and multivitamin supplement



### DISCUSSION

Crush injuries are commonly seen in road side accidents involving snakes in both rural and urban areas. The key to their recovery is balance between invasive procedures, providing a species specific environment and judicious use of diagnostic facilities such as radiography.





Rx of constipation in an Asiatic Lion (Panthera leo Persica)

#### Anamnesis

An Asiatic Lion was found to be lethargic, inappetent and in discomfort in the zoo enclosure without any un-outward history of irregularities in it's regular schedule.

#### **CLINICAL SIGNS/ SYMPTOMS**

Inappetence, kyphosis, straining to pass faeces but unable to defecate

#### DIAGNOSTICS

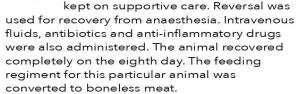
Regular diet consisted of bones with meat which was suspected to be a cause of constipation

#### **CONSERVATIVE RX**

Oral laxative using a syringe were administered



The Asiatic lion was sedated using a combination of xylazine and ketamine in it's enclosure. Enema and paraffin were used to minimise any physical damage while manual traction to remove the lodged bones. Oral laxatives helped in evacuating the bowels swiftly. The animal was









#### Weight

21 APRIL 2022



150 kgs

Vital Parameter



Temp: NAD HR & RR: Normal

Pre medication and Anaesthesia



Xylazine + Ketamine



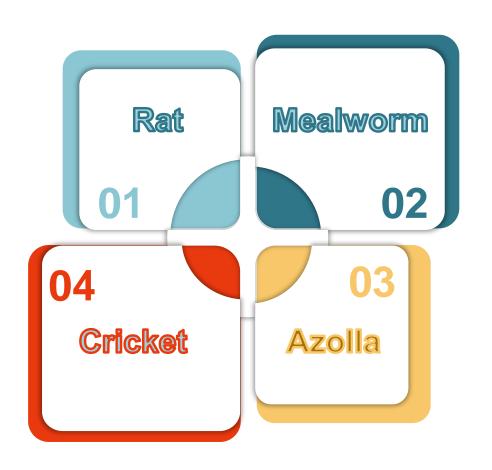
The sharp bones were removed by using enema, paraffin and manual manipulation and traction







## **Live Feed Culture at SPZP**



### **Special Feed Culture at SPZP**

Different animals and birds present different challenges. There are more than 85 different animal, bird, and reptile species at SPZP. Each of these creatures has certain dietary needs that must be met. The SPZP has its own unique system for feed culture, including rat, mealworm, cricket, and azolla cultures. These cultures are quite useful for feeding monkeys, birds, and snakes.

## Rat/Mice Culture

SPZP has made a special facility for breeding rats and mice. The facility is isolated from zoo animals and birds. These mice and rats are bred for the upcoming reptile house at Sardar Patel Zoological Park where they will be used to feed snakes and lizards.





## **Mealworm Culture**





Mealworms are a good source of protein, with 100 grams of dried mealworms providing approximately 51 grams of protein. They also contain small amounts of fat and fiber. Hence, SPZP has developed its own culture for cultivating healthy mealworm economically.





## **Cricket Culture**

SPZP has made a special facility for breeding insects. One the of setup in the facility is of Cricket Culture. Crickets are a good source of protein and fat, with 100 grams of dried crickets providing approximately 65 grams of protein and 5 grams of fat. They are also a good source of vitamins and minerals.





# **Azolla Culture**

Azolla is nutritious feed for livestock, particularly for birds and ruminant species and with excellent source for protein content up to 40%. As an excellent source of protein for herbivores, Azolla presents a sustainable and eco-friendly solution for addressing food scarcity in a rapidly-changing environment.





	Mammals	
1	Five-striped palm squirrel (Funambulus pennant)	
2	Indian grey mongoose (Herpestes edwardsii)	
3	Indian flying fox (Pteropus giganteus)	
4	Indian porcupine (Hystrix indica)	
	Birds	
5	Indian grey hornbill (Ocyceros birostris)	
6	White-browned fantail (Rhipidyra eureola)	
7	Indian peafowl (Pavo cristus)	
8	Red-wattle lapwing (Vanellus indicus)	
9	Gray francolin (Francolinus pondicerianus)	
10	Shikra (Accipiter badius)	
11	Mottled wood owl (Strix ocellata)	
12	Spotted owlet (Athene brama)	Park
13	Jungle-babbler (Turdoides striata)	
14	Baya weaver (Ploceus philippinus)	
15	Crested bunting (Melophus lathami)	
16	Indian grey hornbill (Ocyceros birostris)	
17	White-browned fantail (Rhipidyra eureola)	
18	Indian peafowl (Pavo cristus)	
	Reptiles	
19	Fan-throated lizard (Sitana ponticeriana)	
20	Monitor lizard (Varanus bengalensis)	
21	Oriental garden lizard (Calotes versicolor)	
22	Bronzeback tree snake (Dendrelaphis tristis)	
23	Checkered keelback (Xenochrophils piscator)	
24	Common krait (Bungarus caeruleus)	
25	Common sand boa (Eryx conicus)	
26	Indian cobra (Naja naja)	List of tree living wild animals within
27	Indian rock python (Python molurus)	THE RESERVE OF THE PROPERTY OF
28	Indian wolf snake (Lycodon aulicus)	the zoo premises
29	Rat snake (Ptyas mucosa)	
30	Red sand boa (Eryx johnii)	
31	Trinket snake (Coelognathus Helena)	54

