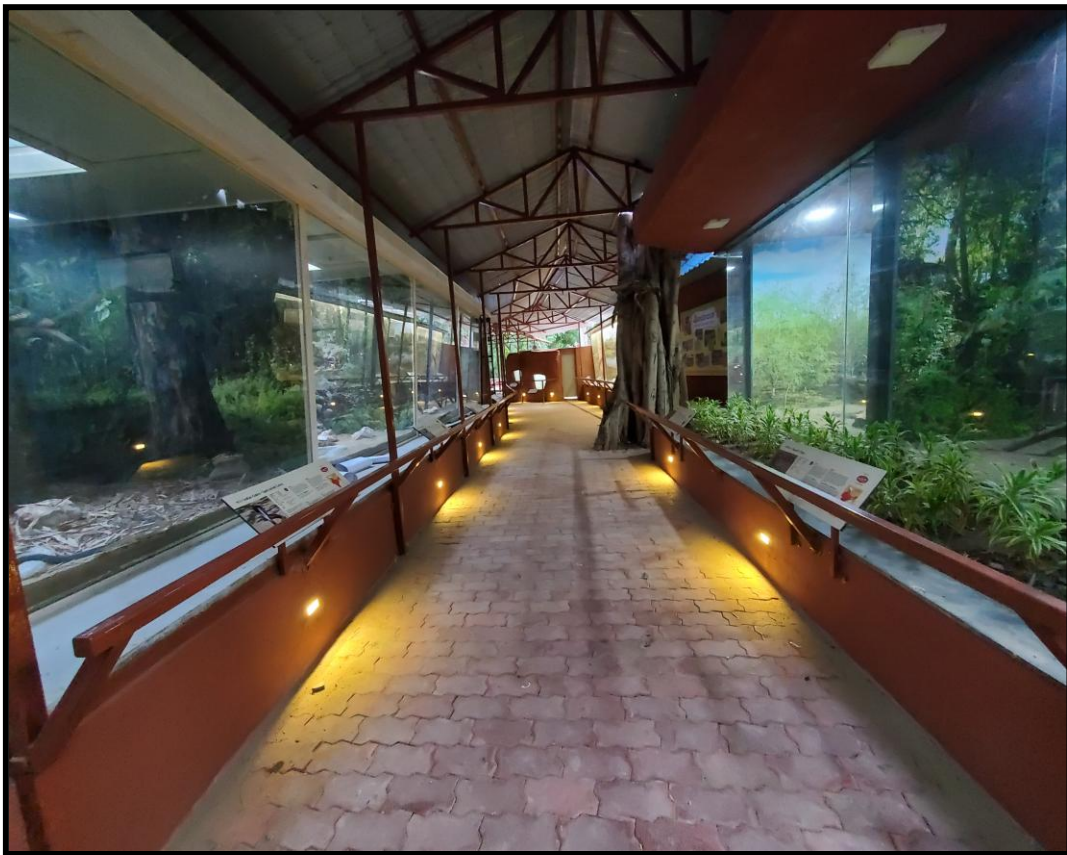


Sundarvan Nature Discovery Centre, Ahmedabad

Annual Report & Animal Inventory for the Year

2021- 22



Sundarvan

A Nature Discovery Centre

Jodhpur Tekra, S. M. Road, Ahmedabad – 380 015.
Phone: 079-26923148, +91-9408752601

Report of the Officer-in-charge

Since its inception in 1978, Sundarvan Nature Discovery Centre has been carrying out reptile awareness programmes. Regular reptile awareness and rescue programmes conducted in Sundarvan have sensitized the masses of the city on the importance of these animals and their ecological role. These awareness programmes have directly led to considerable reduction in the killing of snakes by people and vice versa, hence emphasizing the conservation and wildlife educational role of this facility. Apart from above programmes, the zoo also carries out many activities and workshops on various lesser-known species such as bats, odonates, amphibians, birds etc on regular basis. A total of 1959 students and 144 teachers from 36 schools visited Sundarvan during this year to enhance their classroom learning.

The Indian zoos are moving towards the new era to fulfil the modern needs. We at Sundarvan also try our best to create a state-of-the-art Mini Zoo. We are working on the enclosure design and making changes of the animal facilities in phases. The nature immersed, spacious crocodile enclosure was completed in the year 2016 with an external funding. Renovations of snake enclosures are being done and earlier submitted Master Plan is being reviewed.

The lush green campus acts as sanctuary for wide range of animals in this fast developing city. Apart from schools, the higher education institutions are also using this facility for their education, research and internship programmes. Sundarvan is already working with few institutions/zoos to get technical support. Further support from well-wishers, institutions, other zoos and Central Zoo Authority will help Sundarvan to reach as a modern zoo education facility for the masses and region.



(Mr. Deep Shah)
Coordinator, Education Programs

1. History of the Zoo

Prior to 1978, the area of Sundarvan was a small mango orchard. Almost half of the area was barren. Later, different tree species were raised to maintain the diversity. The place became a dense green patch with over 50 tree species now. In 1978, the Nehru Foundation for Development, Ahmedabad organised a week long snake awareness programme in Ahmedabad with the help of Madras Crocodile Bank Trust, Chennai. The success of the programme inspired the management to create permanent reptile viewing and educational facility in Sundarvan.

2. Objective

- The prime objective of Sundarvan is to impart nature education for the conservation of snakes and other reptiles to all the strata of the society.
- To conduct training workshops for teachers, researchers, naturalists, volunteers, corporate personnel based upon their needs of nature education and conservation of wildlife in general and snakes in particular.
- To develop model Zoo Education and Management Programme for Zoo Keepers and Zoo Administrators.

3. About us

Sr.No.	Particulars	Information
Basic Information about the Zoo		
1	Name of the Zoo	Sundarvan Nature Discovery Centre
2	Year of Establishment	1978
3	Address of the Zoo	Jodhpur Tekra, S. M. Road, Near ISRO, Ahmedabad, Gujarat – 380015.
4	State	Gujarat
5	Telephone Number	079-26923148
6	Fax Number	079-26858010
7	E-mail address	sundarvan@ceeindia.org
8	Website	www.sundarvan.org
9	Distance from nearest	Airport: 17 KM
		Railway Station: 10.5 KM
		Bus Stand: 2 KM
10	Recognition Valid up to (Date)	19.08.2021

Sr.No.	Particulars	Information
11	Category of zoo	Mini-zoo
12	Area (in Hectares)	1.3
13	Number of Visitors (Financial Year)	Adult : 53670
		Children : 25736
		Total Indian : NA
		Total Foreigners : NA
		Total Visitors: 79406
14	Visitors' Facilities Available in Zoo	Children Play area, Adventure park, Amphitheatre, Seating arrangements, Toilets and Drinking water.
15	Weekly Closure Day of the Zoo	Monday
Management Personnel of the zoo		
16	Name with designation of the Officer in-charge	Mr. Deep Shah, Coordinator, Education Programs
	Name of the Veterinary Officer	Dr. Kishore Transadiya (Consultant, visits on request)
	Name of the Curator	NA
	Name of the Biologist	NA
	Name of the Education Officer	Mr. Deep Shah
	Name of the Compounder/ Lab Assistant	NA
Owner / Operator of the Zoo		
17	*Name of the Operator	Centre for Environment Education
18	Address of the Operator	Thaltej Tekra, Ahmedabad, Gujarat – 380054.
19	Contact details/Phone number of Operator	079-26858002-05
20	E-mail address of Operator	ceedo@ceeindia.org

** Rule 2(m) of the Recognition of Zoo Rules, 2009.*

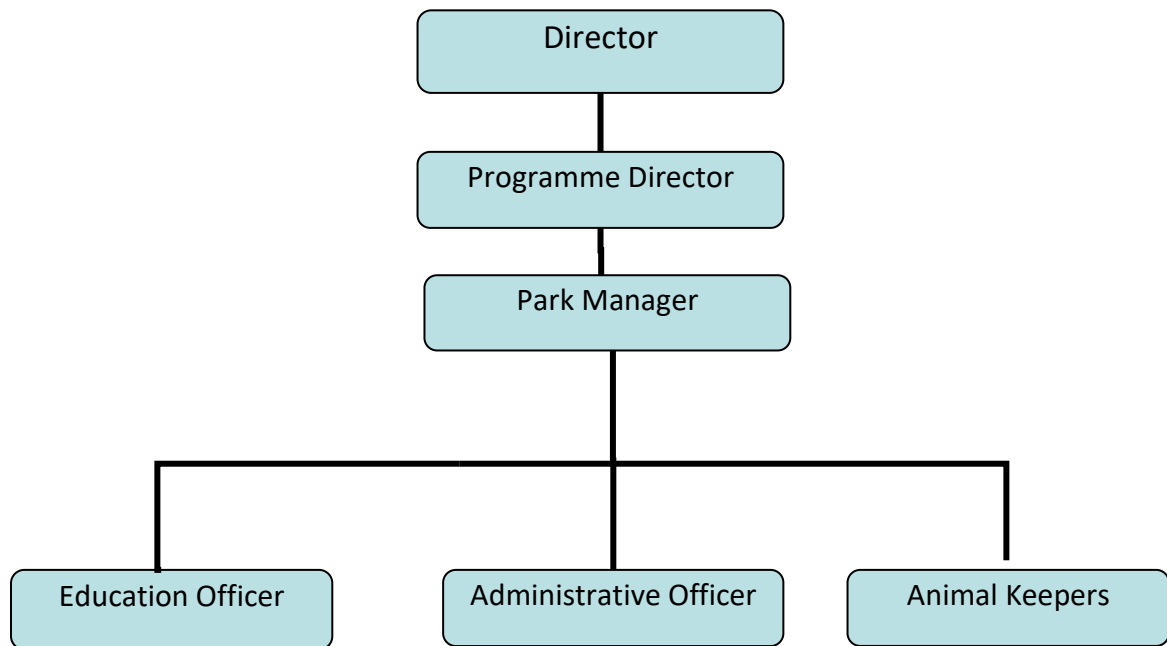
“Zoo Operator” means the person who has ultimate control over the affairs of the zoos provided that_____

I. in the case of a firm or other association of individuals, any one of the individual partners or members thereof; or

II. in the case of a company, any director, manager, secretary or other officer, who is in-charge of and responsible to the company for the affairs of the zoo; or

III. In case of zoo owned or controlled by the Central Government or any State Government or Union Territory Administration or any Trust or Society funded by the Central Government or a State Government or a Union Territory Administration, the Secretary of the concerned Department of that Government, or as the case may be the Union Territory Administration, shall be deemed to be the Zoo Operator.

4. Organizational Chart



The Veterinary Officer is on call. The security and housekeeping staff is managed by a third part agency on outsourced basis.

5. Human Resources

Manpower of the Zoo*

Sr.No.	Designation	Number of Sanctioned Posts	Names of the incumbent
1	Park Manager	1	Dr. Naim Akhtar
2	Education Officer	1	Mr. Deep Shah
3	Administrative Assistant	1	Mr. Shailesh Patel
4	Animal Keepers	3	Madan Sisodiya, Ratilal Solanki, Jagdish Purabiya

*Please give above mentioned information in respect of all zoo personnel, from the Officer in-charge up to the Animal Keeper.

Services such as Security (3 Guards) and House Keeping- cleaning (2 People) for Sundarvan have been arranged on outsourced basis.

5. Capacity Building of zoo personnel

Guidance by animal experts and veterinary doctors is given to our animal keepers regularly.

6. Zoo Advisory Committee

No existing zoo advisory committee

7. Health Advisory Committee

No health advisory committee

8. Statement of income and expenditure of the Zoo

Year	Income (Rs.)	Expenses (Rs.)
2021-22	1524720	45,00,000 Apx.

Daily Feed Schedule of animals

Sl. No.	Species	Feed item	Quantity		Day of fasting
			Winter	Summer	
1	Star Tortoise	Soaked grams, vegetables, fruits and leaves	100gm per animal.12.5%, 25%, 25% and 37.5% respectively	200gm per animal.12.5%, 25%, 25% and 37.5% respectively	Nil
2	Bengal Monitor Lizard	Mice, chicks and eggs	Two numbers per animal (any one at a time). Twice a month.	Two numbers per animal (any one at a time). Weekly once.	Weekly or fortnightly feeding, depends on the season
3	Indian Rock Python	Rabbit/chicken	One per snake (1.25 to 1.5kg)	One per snake (1.25 to 1.5kg)	Monthly once during winter and fortnightly in other seasons
4	Medium sized snakes (Indian rat snake, Cobra, Russell's viper and Red sand boa)	Rat/chicks	One per snake	Two per snake	Fortnightly during winter and weekly during other seasons
5	Smaller snakes (common sand boa, common krait)	Mice	One per snake	Two per snake	Fortnightly during winter and weekly during other

					seasons
6	saw-scaled viper	Mice/lizard	One per snake	Two per snake	Fortnightly during winter and weekly during other seasons
7	Checkered Keelback	Frog/fish/mice	Two per snake	Two per snake	Fortnightly during winter and weekly during other seasons
8	African slender-snouted crocodile	Chicken/Rabbit/fish (dead/live)	2kg per animal	2kg per animal	Fortnightly during winter and weekly during other seasons
9	Indian Porcupine	Fruit, grains, vegetables and leaves	1kg per animal. Daily. 15%, 15%, 50% & 30% respectively	1kg per animal. Daily. 15%, 15%, 50% & 30% respectively	
10	Hedgehog	Boiled egg, meat, mice and fruits	100 gm per animal. Daily	100 gm per animal. Daily	
11.	Red eared Slander Turtle	Packaged food	Daily	Daily	
12	Java Finch	Soaked mung, gram, wheat, green coriander, spinach	Daily	Daily	
13	Love Birds	Maize Corn, Soaked Wheat & Gram, Green Cucumber, Tomato, Seasonal fruits	Daily as per requirement	Daily as per requirement	
14	Budgerigar	Millet, and multi seed combination (branded Budgerigar seed food), green coriander, spinach	Daily as per requirement	Daily as per requirement	
15	Cockatiel	Maize Corn, Soaked Wheat & Gram, Green Cucumber, Tomato, Seasonal fruits	Daily as per requirement	Daily as per requirement	

9. Vaccination Schedule of animals

No vaccination schedules, as most of the animals in exhibits are reptiles.

10. De-worming Schedule of animals

The faecal analysis carried out on regular interval to find the parasite load. De-worming is carried out on the need base. No de-worming was carried out in this year and detail of the previous de-worming is as given in the table. There is no guideline on deworming of reptiles especially for snakes. However, python were dewormed once as per the details given below:

Sr.No.	Species	Drug used	Month
1	Indian Rock Python	Ivermectin	5-11-2015

11. Disinfection Schedule

Sr.No.	Species	Type of enclosure	Disinfectant used and method	Frequency of disinfection
1	Snakes	Closed, glass front	Surface change & whitewashing the water trough	Fortnightly
2	Turtle	Open air	Whitewashing the water body	Fortnightly
3	Tortoise	Open air	Whitewashing water trough	Fortnightly
4	Crocodile	Open air	Water change and whitewashing water body	Every 10 days

12. Health Check-up of employees for zoonotic diseases

Sr.No.	Name	Designation	Date of Health Check up	Findings of Health Check up
1	Mr. Madansinh Sisodia	Animal Keeper	30-03-2022	Normal
2	Mr. Ratilal Solanki	Animal Keeper	30-03-2022	Normal

13. Development Works carried out in the zoo during the year

We have renovated new snake enclosures as desired by the CZA under its recommendations.

14. Education and Awareness programmes conducted by the Sundarvan during the year

Year 2020-21 has been largely disturbed due to wider spread Covid-19 (CORONA) pandemic and zoo had to be closed for visitors for many months. Offline classes in school could not be resumed which resulted no visits of school kids to Sundarvan. However, Reptile Awareness Programmes was conducted for park visitors on every Sunday. Sundarvan plays a

very crucial role in sensitizing and creating appreciation for wildlife, specially the lesser known species like snakes and other reptiles. Regular Snake awareness and nature appreciation programmes conducted in Sundarvan have sensitized the masses of the city on the importance of these species and their ecological role. These awareness programmes have directly led to considerable reduction in the killing of snakes by people, hence emphasizing the conservation and wildlife educational role of this facility.

The details of the other education/awareness and training programs conducted during the 2021-22 are given below:

I. World Environment Day Celebration (5th June, 2021):

Three successful events were conducted at Sundarvan, Ahmedabad.

1. Sundarvan had organized cleanliness drive on the auspicious day of World Environment Day. Around 12kg of plastic and other waste has been collected from Sundarvan premises. Sundarvan team and few volunteers participated in the event maintaining all safety and hygiene.

2. For the Theme “Ecosystem Restoration” Sundarvan in collaboration with Eco-schools, India and YRE, India had organised webinar on “Ecosystem Restoration” for school kids of the age 7 to 14 years. Around 750 kids from 12 states and 35 cities did participate in the event. Basic knowledge on the Ecosystem, what is restoration and why it is important, individual contribution etc. were explained through creative activities and presentation.

3. Sundarvan had organised a cleanliness drive had organised at Bhavani beach, Mahuva in collaboration with Environment Conservation Youth Club, Mahuva. Around 32 participants from the group joined the event and collected around 200kg plastics from the beach.



II. World Zoonoses Day Celebration (6th July, 2021)

A live session about “World Zoonoses Day” was organised at Sundarvan on 6th July, 2021 by an expert, Dr. Vachini Bhatt from Parul University and Education Coordinator Mr. Deep Shah from Sundarvan. Firstly, a short introduction was given regarding Sundarvan followed by making people introduced about what Zoonotic Disease is and why Zoonoses Day is celebrated. This year theme was “Let’s Break the Chain of Zoonotic Transmission”. The session also delivered information about how the zoonotic germs are spread through different ways and what are the diseases caused to humans due to invading of germs and how one can prevent diseases by taking appropriate measurements. This talk also helped to clear a myth regarding bats to act as a carrier for spreading of corona virus.

Public Relation Department
Invites for Expert Session On

World Zoonoses Day

" Let's break the chain of Zoonotic Transmission before it becomes Pandemic "

Deep Shah
Coordinator, Education Programme
Sundarvan Nature Discovery Centre

HOST
Dr Vachini Bhatt
Head, Dept. of Public Relation

6th July
12:30 pm

Live on
Parul University Ahmedabad Campus • Ahmedabad Physiotherapy college • PIASR

Parul University Ahmedabad Campus was live.
July 6, 2021

Session at Sundarvan
On this World Zoonoses Day!
Great information by Expert and Education Coordinator Mr Deep Shah

21
36 Comments 4 Shares

III. Snake Awareness Program for Ahmedabad Homeopathic college (8th and 9th July,2021)

Around 90 students from Ahmedabad Homeopathic College visited Sundarvan in two batches to maintain the covid protocol for Snake awareness program on 8th and 9th July at Sundarvan. This visit is to mainly learn about snakes as their syllabus includes chapter on snakes.

The topics such as general information of reptiles with special reference to snakes, snake diversity, venomous and non-venomous snakes, precaution to avoid snakebite, treatment, making of anti-venom, myths and facts and conservation importance were covered during the session of snake awareness programme.



IV. Young Naturalist Programme (17th July, 2021)

The Planet Discovery Centre conducted its Young Naturalists programme here at Sundarvan on 17th July, 2021. It was a lovely monsoon morning with sighting of birds, bats and reptiles.

The participating kids got to see dancing peacocks, woodpecker, kingfisher, Bulbul and many more birds in wild.

Kids enjoyed a lot feeding ducks, geese, turkeys and rabbits with veggies and fruits. Mr. Deep Shah, Coordinator of Education Programmes at Sundarvan conducted the Bat awareness and Reptile awareness sessions for toddlers. He shared wonderful facts and demystified a few myths regarding the fruit bats and porcupines. While explaining about snakes, he explained about venomous and non venomous snakes, habitat and food of monitor lizards, basic differences between tortoise and turtles.

The Planet educators conducted the story on crocodiles, STEM and nature craft activities aligned to the theme.

Kids loved immersing in a fun filled morning in a education tour to Sundarvan- a nature discovery Centre.



V. Snake awareness program for Swaminarayan Ayurvedic college, Kalol (6th August, 2021)

Around 50 students from Shree Swaminarayan Ayurvedic college, Kalol visited Sundarvan for Snake awareness program on 6th August. This visit was mainly to learn about snakes as their syllabus includes chapter on snakes.

The topics such as general information of reptiles with special reference to snakes, snake diversity, venomous and non-venomous snakes, precaution to avoid snakebite, treatment, making of anti-venom, myths and facts and conservation importance were covered during the session of snake awareness programme.



VI. Snake awareness program for Manjushree Research Institute of Ayurvedic Science, Gandhinagar (18th August, 2021)

Around 70 students from Manjushree Research Institute of Ayurvedic Science, Gandhinagar visited Sundarvan for Snake awareness program on 18th August. This visit was mainly to learn about snakes as their syllabus includes chapter on snakes.

The topics such as general information of reptiles with special reference to snakes, snake diversity, venomous and non-venomous snakes, precaution to avoid snakebite, treatment, making of anti-venom, myths and facts and conservation importance were covered during the session of snake awareness programme.



VII. Snake awareness program for Government Akhandanand Ayurved College, Gandhinagar (8th September, 2021)

Around 45 students from Government Akhandanand Ayurved College, Gandhinagar visited Sundarvan for Snake awareness program on 8th September. This visit is to mainly learn about snakes as their syllabus includes chapter on snakes.

The topics such as general information of reptiles with special reference to snakes, snake diversity, Morphological Characteristics, venomous and non-venomous snakes, precaution to avoid snakebite, treatment, making of anti-venom, myths and facts and conservation importance were covered during the session of snake awareness programme.



VIII. Wildlife Week Celebration (2nd-8th October, 2021):

2nd October, 2021

Sundarvan organized a cleanliness drive in the premises on the occasion of "Gandhi Jayanti" and as a part of National Wildlife Week celebration. Nearly 15 volunteers collaborated with Sundarvan staff to be a part of the "Clean India Mission" and collected approximately 25 kilogram waste which mostly included plastic wrappers, plastic cups and other plastic waste. The collected waste will be handed over to a recycling firm which in return will provide some recycled products like dustbins or benches etc. to the Sundarvan.



3rd October, 2021

For National Wildlife Week celebration, Sundarvan organised a training program on Bird watching and identification in partnership with CEE academy under the title “Know Your Birds” in Sundarvan. Nearly 20 bird-watching enthusiasts of different age groups participated in the training program. The training session was initiated with a presentation of brief description on bird diversity and identification in the field, where participants were introduced with the identification traits and methodologies to help them in Birding. Different species of birds commonly found in Ahmedabad city were identified and discussed on a nature trail while informing about the methodologies simultaneously. The participants will be awarded with an E-certificate for the appreciation of their participation.



3rd October, 2021

Continuing the celebration of the National Wildlife week, Sundarvan organized a Snake Awareness Program for the visitors on 3rd October at Sundarvan.

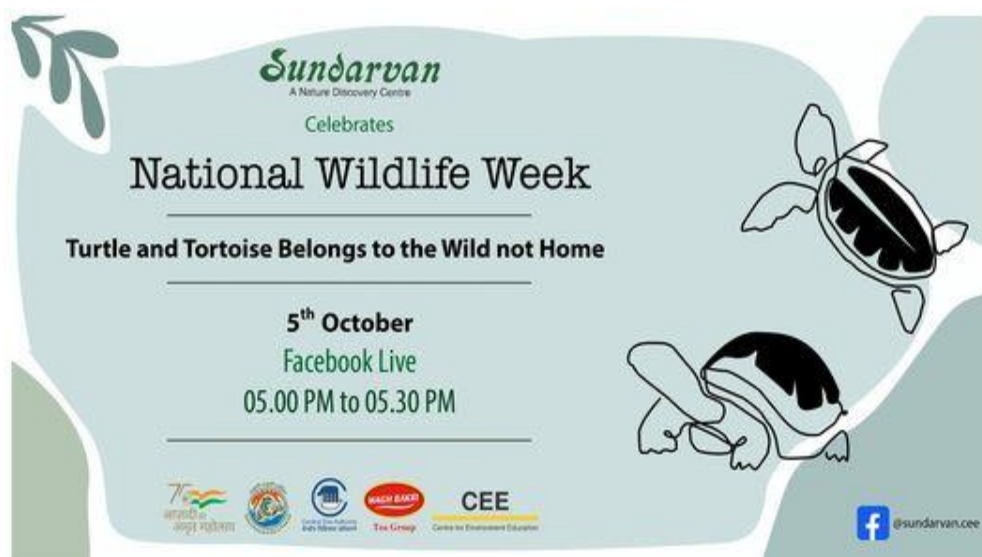
In the current developing times to bring wild and human closer to make them live in harmony and peace and hence maintaining the nature balance it is important to make people aware of the wildlife around them. Snakes are highly misunderstood creatures; this program was a step to bust the common misbeliefs about snakes. The program was open for all the age group. Around 100 people participated in the program.

Topics like Snake diversity, types of venomous and non-venomous snakes, precautions to prevent snake bite, various myths and misconception, Treatment for snake bite regarding snakes in the society were discussed.



5th October, 2021

A Facebook live session was arranged about “Turtles and Tortoises Belong to Wild and Not Home” on 5th October, 2021 as a part of Wildlife Week Celebration. Firstly, a short introduction was given regarding Sundarvan followed by spreading awareness about why turtles and tortoises should not be kept as pets. Moreover, a list of difference between turtle and tortoise were given in terms of habitat, morphology, age etc. After that some shocking facts about turtles and tortoise were delivered to audience which talks about the reasons they are being endangered and also delivers that keeping any turtle or tortoise as pet and poaching and illegal trading is a criminal offence. In India around 29 species are found out of which some species are on top list for illegal smuggling. Some myths related to turtles and tortoises were also discussed during the talk. The main reason for not keeping turtles and tortoise as pet was that they carries Salmonella bacteria , on coming direct contact with them can cause certain toxic effects to humans in terms of diseases or some infection and also harm the environment.



8th October, 2021

Sundarvan organized a “Bird Nest Making program” for the kids of 6th to 9th std. for the last day of National Wildlife week, on 8th October. Around 20 kids participated in the program. Kids were guided by the presentation and were asked to collect the natural things from the Sundarvan premises that could be used to make a nest, kids were asked to think and be creative like a bird to construct a nest which could be used for laying eggs.

Enthusiastic kids took a trail in Sundarvan and collected different materials to make the nest.

Three best nests were selected and were presented with a colourful informative poster on birds as a prize and all other participants were appreciated with a certificate.

This program was aimed to create awareness towards life of birds and their habits by informing kids about the importance of their conversation.



IX. School Educational Visit (22nd October, 2021):

Around 30 kids along with their parents from Little Millennium, Vastral visited Sundarvan, Ahmedabad on 22nd October to know and learn about Biodiversity. Kids along with their parents enjoyed the Bird feeding session. Nature Trail Walk was conducted for them to explain interesting facts and figures about the animals by visiting various animal enclosures. Kids enjoyed the feeling of touching the quills of porcupine which is used for defence mechanism; Interesting facts were explained on Bats. Kids enjoyed a lot playing in adventure park.



X. School Educational Visit (27th October, 2021):

Around 50 students from school for Blind, Ashram Road visited Sundarvan, Ahmedabad on 27th October to know and learn about Biodiversity. Students enjoyed the Bird feeding session. Nature Trail Walk was conducted for them to explain interesting facts and figures about the animals by visiting various animal enclosures.



XI. Snake awareness program for Aarihant Homoeopathic Medical College and Research Institutions, Kalol (6th December, 2021):

Around 80 students from Aarihant Homoeopathic Medical College and Research Institutions, Kalol visited Sundarvan for Snake awareness program as a part of the FMT subject on 6th December. This visit is to mainly learn about snakes as their syllabus includes chapter on snakes and Toxicity.

The topics such as general information of reptiles with special reference to snakes, snake diversity, Morphological Characteristics, venomous and non-venomous snakes, precautions to avoid snakebite, treatment, making of anti-venom, myths and facts and conservation importance were covered during the session of snake awareness programme.



XII. Snake awareness program for Department of Forensic Medicine and Toxicology Ahmedabad Campus Parul University (9th December, 2021):

Around 100 students from Department of Forensic Medicine and Toxicology, Ahmedabad Campus, Parul University visited Sundarvan for Snake awareness program as a part of the Toxicology subject on 9th December. This visit is to mainly learn about snakes as their syllabus includes chapter on snakes and Toxicity.

The topics such as general information of reptiles with special reference to snakes, snake diversity, Morphological Characteristics, venomous and non-venomous snakes, precautions to avoid snakebite, treatment, making of anti-venom, myths and facts and conservation importance were covered during the session of snake awareness programme.



XIII. Plantation Drive for the celebration of Azadi Ka Amrit Mahotsav (11th December, 2021):

A Plantation Drive was carried out on 11th December, 2021 at Sundarvan, Ahmedabad for the celebration of Azadi Ka Amrit Mahotsav by State Bank of India. Around 100 saplings of various native species of fruits and flowers were planted in Sundarvan premises. Inauguration of the ceremony was done by Padma Shri Mr. Kartikeya Sarabhai (Director, CEE) and Shri Pranay Ranjan Dwivedi, GM, SBI (NW-II). Urban green spaces like Sundarvan plays an important role in improving the environmental quality, energy efficiency and aesthetic appeal of urban landscapes apart from being important repositories of plants and animals. The guests were gifted with saplings of Tulsi as souvenirs.



XIV. School Educational Visit (12th December, 2021):

Around 40 kids from Creative Pathshala visited Sundarvan on 12th December for fun based educational activities. Activities like - Bird feeding, Echolocation game, Tree signature and Bird nest making were conducted for the kids. To build a harmony between birds and kids, they fed the birds by giving them a healthy food in bird feeding activity. They learnt about the technique which bats use i.e. ultrasonic rays to communicate and capture their prey by playing Echolocation game. They also did the tree signature activity by taking various bark patterns from Trees on paper. They learnt about various birds' nest and how they make it using various materials and they also made various Bird nests from nature exploring Sundarvan through Bird nest making activity.



XV. Session on “Communicate with wildlife” at IIT_ Gandhinagar (13th December, 2021):

Sundarvan, Ahmedabad conducted session on “Communicate with wildlife” for the Foundation Program-III at IIT_ Gandhinagar on 13th December, 2021. Around 240 students participated in the session.

The topics on various types of communication in the animals were explained with examples during the talk. Also Snake Awareness session was conducted for the students. The topics such as general information of reptiles with special reference to snakes, snake diversity, Morphological Characteristics, venomous and non-venomous snakes, precautions to avoid snakebite, treatment, making of anti-venom, myths and facts and conservation importance were covered during the session of snake awareness programme. The session was ended with the documentary screening on Big four venomous snakes.



XVI. School Educational Visit (14th December, 2021):

Around 35 kids from The Planet Discovery Centre, CEE visited Sundarvan, Ahmedabad on 14th December, 2021. The young toddlers enjoyed feeding Birds and playing with them. A Snake Awareness program was also carried out for the kids.



XVII. Training program on “Reptile Awareness” for Torrent Power Ltd.:

Training program on “Reptile Awareness” was carried out for Torrent Power Ltd. Around 150 employees participated in the training program.

The topics such as general information of reptiles with special reference to snakes, snake diversity, Morphological Characteristics, venomous and non-venomous snakes, precautions to avoid snakebite, treatment, making of anti-venom, myths and facts and conservation importance were covered during the session of reptile awareness programme. Also they were explained about various tools and techniques for the rescue in wild. The session was ended with the documentary screening on Big four venomous snakes. Total 4 trainings conducted in the month of December’21 and March’22.



XVIII. Session on “Reptile Awareness” for Aarohan Program at IIT_ Gandhinagar (31st December, 2021)

Sundarvan, Ahmedabad conducted Reptile Awareness session for the Aarohan Program at IIT_ Gandhinagar on 31st December, 2021. Around 75 students from Ph.D and M.Tech streams had participated in the session. The topics on various types of communication in the animals were explained with examples during the talk. Also Snake Awareness session was conducted for the students. The topics such as general information of reptiles with special reference to snakes, snake diversity, Morphological Characteristics, venomous and non-venomous snakes, precautions to avoid snakebite, treatment, making of anti-venom, myths and facts and conservation importance were covered during the session of snake awareness programme. The session was ended with the documentary screening on Big four venomous snakes.



XIX. School Educational Visit (11th February, 2022):

Around 40 kids along with their parents and teachers from Toddler's Den, Bodakdev visited Sundarvan, Ahmedabad on 11th February, 2022. The young toddlers enjoyed feeding Birds and playing with them. They learned and explored about various animals during a trail walk.



XX. School Educational Visit (12th March, 2022):

Around 15 kids along with their parents and teachers from Special Support Squad visited Sundarvan, Ahmedabad on 12th March, 2022. Snake Awareness Program was conducted for them. The topics such as general information of reptiles with special reference to snakes, snake diversity, Morphological Characteristics, venomous and non-venomous snakes, precautions to avoid snakebite, treatment, making of anti-venom, myths and facts and conservation importance were covered during the session. They learned and explored about various animals during a trail walk.



XXI. Wipro Earthian Teacher's Training Program:

Earthian is Wipro's Sustainability Education Program for schools and colleges. Through this program, we aim to help teachers to develop more meaningful sustainability education in their school. The objective is to provide exposure to multiple perspectives, develop an interconnected understanding of different disciplines in education and life. Total 225 Teachers from various cities like- Ahmedabad, Vadodara, Jamnagar, Chhota Udaipur, Rajkot, Dwarka, Bhavnagar, Aravalli, Banaskantha and Panchmahal have participated in the Training program on various themes i.e. Biodiversity, Waste and Water.

XXII. Winter Night Camp at Sundarvan:

Every year in the month of December – January Sundarvan organizes Winter Night Camp for the kids of 6 to 12 years. Around 163 kids had participated in 4 batches. Kids enjoyed a lot during the overnight camp. Various activities like- Bird Feeding, Bat Awareness, Documentary screening, Night Nature Trail walk, Campfire and Bird Watching were being conducted for kids taking all the necessary precautions considering COVID situation.

Kids fed captive Birds for building better harmony between them and Birds. Myths and Facts, Bat diversity of India, Characteristics of Bats were explained during Bat Awareness program. Echo-location concept was explained by playing game. Documentary on Big four snakes, single use plastic issues and Spider web were screened and explained. Nocturnal creatures and their behaviours were explained during Night Nature Trail walk. Importance of water conservation was explained in the form of game and also other games were played during Campfire. Bird Watching session was conducted in the morning. Identification of Birds by various characteristics was explained during the session.



XXIII. Green birthday Celebration:

Green Birthday Celebration is a unique activity of Sundarvan to build harmony between Nature and Kids. Kids with their family and friends celebrate their birthday in a Greener way with Sundarvan's Biodiversity. Various activities like- Making post cards of various wildlife creatures using their thumb impressions, feeding various birds, Nature trail walk, snake awareness program, Puppet Show, Green Games, Sundarvan Souvenir, and Plantation are being conducted during Birthday Celebration. Total 4 Green Birthdays were celebrated in this financial year



15. Seasonal special arrangements for upkeep of animals

Air cooler, sprinkling water in the enclosure are carried out during summer and heater is provided during winter months for the animals to beat the adverse weather conditions.

16. Research Work carried out and publications

1. Shah, D. & M. Shah (2021). Butterfly Diversity of Sundarvan, Ahmedabad, Gujarat. Bugs R All #223, In: *Zoo's Print* 36(12): 41-47.
2. Parikh, P, A. Nair, D. Shah (2022). Diversity of Spider fauna in Sundarvan, Ahmedabad, India. Bugs R All #234, In: *Zoo's Print* 37(3): 26-32.

17. Conservation Breeding Programme of the Zoo

There is no breeding programme happening at Sundarvan, as the animals we have are very common species that has wide distribution in India.

18. Animal acquisition / transfer / exchange during the year

- 1 - Russell's Viper (*Doboia russelii*) – Female
- 1 - Common Trinket Snake (*Coelognathus helena*) – Female

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

Our volunteers go frequently for rescue and release of snakes in the nearby localities frequently as per the request of residents of Ahmedabad.

20. Progress made in implementation of the conditions stipulated during the 2018 grant recognition.

Evaluation of Sundarvan Mini Zoo has recently been conducted by Shri S.P Srivastav on 30th January 2020 for the further recognition of mini zoo which had already been expired. New

recognition along with new terms & condition has been received awaited from the end of CZA. However compliance to the given terms & condition is given below:

Ref: F. No. 19-67/92-CZA(61)(Vol.I) (E), dated 12-01-2021

Sr. No	Norm No. under RZR, 2009	Condition Stipulated	Time Period to Comply	Since when pending	Status with regard to compliance of the conditions as submitted by the Officer-in-charge of the Zoo
1. General requirements:					
1.	1.6(b)	Boundary wall of residence of zoo in-charge may be camouflaged by plantation.	Six months	12.01.2021	New Snake Enclosures have been designed in such manner that residence of zoo in-charge cannot be seen.
2.	10.1(2)	Zoo should do proper efforts to make landscapes	Within six months	09.04.2013	Proper pathways, green fencing and railings have been prepared. A bridge on jungle pond with artificial water stream also has been prepared.
3.	1.2(i)	Landscaping, plantation along pathway which will attract butterfly is useful for two purposes. Food for butterfly and Beauty for area	One year	28.01.2015	Raising plants along sides of the pathway has been carried out.
4.	1.2(ii)	Trees plantation near wall with creepers help to hide wall and building	Six Months	28.01.2015	Sundarvan has got very good vegetation cover that hide the most part of the boundary walls and nearby buildings. New trees are planted in the gaps.
5.	1.2(iii)	Need tall plantation with creepers to hide wall and human habitation.	Immediately		About 4 feet height plants

					of tall growing Asopalav <i>Polyalthia longifolia</i> were planted in a row close to the boundary wall that separate the human habitation during the 2015 rainy season. Apart from this, already many other flowering tree species have also been planted in this area five years back.
6.	1.6	Zoo should increase the height of existing wall to separate residential colony from zoo.	Within six months	09.04.2013	It has been resolved by constructing new snake enclosures. Now residential area is not seen.
2. Administrative and staffing pattern					
7.	2.1	Adequate financial powers has to be delegated for effective management.	Within six months	09.04.2013	In-charge now has sufficient financial power
3. Development and Planning					
8.	3.1	Master Plan of the zoo should be submitted to the CZ A.	Immediately	28.01.2015	Layout plan has already been approved in 2009. Master plan need to be submitted afresh for approval.
9.	10.30)	Animal Collection Plan is integral part of the Master Plan should be prepared and submitted for approval of the C.Z.A.	Three months	12.01.2021	Animal collection plan under master plan is under preparation
4. Animal housing, display of animals and animal enclosures:					
10.	10.4(1)	Zoo should construct nature immersing enclosures as per approved Master Plan	Within two years	09.04.2013	Efforts are being made

					in this direction
11.	10.4(6)	Zoo should make efforts to enrich enclosure environment	Within three months	09.04.2013	Efforts are being made in this direction
12.	10.4(2)	Except that of Rat snakes & Russell's viper, enclosures of snakes should be redesigned having due regard to their behaviour.	One year	12.01.2021	New snake enclosures have been constructed as per CZA guidelines.
13.	10.4(6)	Many other enclosures like birds and snake enclosures need enrichment.	Six months	28.01.2015	It has been implemented
14.	4(5)	The zoo should provide appropriately designed and effective standoff barrier at every animal display enclosure to regulate the movement of visitors.	Six months	09.04.2013	It has been implemented
15.	4.1	All animal enclosure should be nature immersing.	One year	28.01.2015	Efforts are being made in this direction
16.	10.4(10)	Signage needs to be more informative about biology, behaviour, population status of animals and there should be uniformity in size and colour.	Six months	09.04.2013	Suitable signage's have been provided.
17.	4.2	The design and dimensions of every enclosure in the zoo should as per the prescribed standards and norms of CZA and should mee the biological behavior of the animals. Snake enclosure require to change.	One year	28.01.2015	It has been implemented
18.	10.4(10)	Interpretation facilities should be developed.	One year	12.01.2021	Efforts are being made in this direction
5. Upkeep and healthcare of animals:					
19.	5.3	Food storage room needs to be kept clean, its floor should be repaired and refrigerator should be in proper working condition.	Three months	12.01.2021	It has been implemented
20.	5.2	Frequency of testing of food and water samples be increased.	Immediately	12.01.2021	It will be implemented
21.	5.2(6)	Zoo should send random sample of food and water for microbiological and toxicological examinations to recognized laboratory.	With immediate effect	09.04.2013	The tests for food were carried out on 18 th May 2018 from Public Health Laboratory, Ahmedabad and for water, it was done on 7 th May 2018 by Central Laboratory Ahmedabad (AMC Mahanagar

					Sewa Sadan).
22.	5.10	Keeper's Diary should be maintained.	Immediately	12.01.2021	All the necessary documents are prepared as specified by the CZA
6. Veterinary and infrastructure facilities:					
23.	6.1	Treatment room should have water supply.	Three months	12.01.2021	It has been implemented
24.	6.1(c)	The zoo should provide a treatment room with basic facilities for treatment of animals.	Within six months	09.04.2013	It has been implemented
25.	6.6	Formal linkages through MoU on healthcare, preventive health management, surgical interventions, clinical tests etc. be established.	Three months	12.01.2021	We have established linkage with Disease Surveillance Department of State Animal Husbandry Department and seek their guidance time to time. We also have assistance from Kamala Nehru Zoological garden, Ahmedabad for Animal Health Management.
7. Post Mortem and disposal of carcasses of animals					
26.	7.1	The Zoo should get the post-mortem of every animals died I the zoo and record should be maintained as per CZA format and all reports should be preserved for minimum six year.	With immediate effect	09.04.2013	Implemented and this is being followed.
9. Acquisition and breeding of animals:					
27.	9.10	Disaster management plan should be prepared	Three months	12.01.2021	Our zoo is categorized as a mini-zoo and it receives very few visitors however we have a plan for Disaster Management if occurs.

21. List of free living wild animals within the zoo premises

a. Mammals

- i. Indian Flying Fox
- ii. Short-nosed Fruit Bat
- iii. Small Asian Mongoose
- iv. Northern Palm Squirrel

b. Birds

- i. House Crow
- ii. Jungle Crow
- iii. Common Myna
- iv. Ashy Drongo
- v. Black Drongo
- vi. Blue Rock Pigeon
- vii. Asian Collared Dove
- viii. Laughing Dove
- ix. Red Collared Dove
- x. Grey Francolin
- xi. Rufous Treepie
- xii. Southern Coucal
- xiii. Shikra
- xiv. Black Kite
- xv. Rose-ringed Parakeet
- xvi. Coppersmith Barbet
- xvii. Small Minivet
- xviii. Grey-headed Canary
Flycatcher
- xix. Paradise Flycatcher
- xx. Tickell's Blue Flycatcher
- xxi. Red-breasted Flycatcher
- xxii. Brown Flycatcher
- xxiii. Monarch Flycatcher
- xxiv. Common Tailorbird
- xxv. Magpie Robin
- xxvi. Indian Robin
- xxvii. Ashy Prinia
- xxviii. Red-vented Bulbul
- xxix. Lesser whistling Duck

- xxx. Red-naped Ibis
- xxxi. Pond Heron
- xxxii. White-breasted
Waterhen
- xxxiii. Yellow Wagtail
- xxxiv. White-throated
Kingfisher
- xxxv. Red-wattled Lapwing
- xxxvi. Purple Sunbird
- xxxvii. Purple-rumped Sunbird
- xxxviii. Asian Koel
- xxxix. Alexandrine Parakeet
- xl. Yellow-legged Green
Pigeon
- xli. Jungle Babbler
- xlii. Small Green Bee-eater
- xliii. Indian Peafowl
- xliv. Black-rumped Flameback
- xlv. Indian Silverbill
- xlvi. Palm Swift
- xlvii. Craig Martin
- xlviii. Golden Oriole

c. Reptiles

- i. Common Garden Lizard
- ii. Brook's Gecko
- iii. Northern House Gecko
- iv. White-spotted Skink
- v. Common Snake Skink
- vi. Common Monitor Lizard
- vii. Indian Flapshell Turtle
- viii. Indian Rat Snake
- ix. Spectacled Cobra
- x. Common Sand Boa
- xi. Common Wolf Snake
- xii. Common Krait
- xiii. Red eared slider turtle

22. Media Coverage:

મહુવાના ભવાની બીચમાંથી છાત્રોએ ૩ ટન કચરાનો નિકાલ પ્લાસ્ટિકના ફસાઈને મારી જતી માછલીઓ જોઈને આવ્યો વિચાર, ભાવનગરના દરેક બીચ ને સફાઈની જરૂર



ભાવનગર | 7 જૂન

બીચ પર અમે કચરાપેટી પણ મુકેલી છે

ભાવનગર નાં મહુવા ખાતે આવેલ ભવાની મંદિર ગુજરાતભરમાં પ્રસિદ્ધ છે. આ મંદિર નાં લીધે મહુવા બીચ એ ભવાની બીચ તરીકે પણ ઓળખાય છે. શનિ અને રવિવારે આ બીચ પર ઘણા લોકો ફરવા અને દર્શન કરવા આવે છે. એનવાયરમેન્ટ કન્ઝર્વેશન યુથ ક્લબ દ્વારા અત્યાર સુધીમાં લોકો અને ઉદ્યોગો દ્વારા નાખવામાં આવેલો ૩ ટન કચરો એકઠો કરી અને બીચ ની સફાઈ કરવામાં આવી છે.

આ યુગ માં 45 થી 50 જેટલા વિદ્યાર્થીઓ છે. અલગ અલગ સ્ટ્રીમ માં ભણતા આ વિદ્યાર્થીઓ જ્યારે બીચ પર જતા ત્યારે ખૂબ વધારે કચરો જોતા હતા. પ્લાસ્ટિક માં ગૂંગળાઈ ને કે

મહુવા ખાતે આવેલ ભવાની બીચ નો પહોળો ઉલ્કોનીદર જેટલો લાંબો છે. આ દરિયાઈ પહોળાઈ સાફ કરવા અમારા જ યુગ દ્વારા કચરો (પ્લાસ્ટિક) ભરવા બેગ, એકઠો કરવા રોડ અને સ્વચ્છ વગેરે આપવામાં આવ્યા હતા. અમે અહીં કચરાપેટી પણ મુકાવી છે જેથી લોકો કચરો તેમાં નાખે. મરીન વિભાગ દ્વારા પણ અહીં ઘોડા ઘોડા સમયે તપાસ કરીને લોકો કચરો કેળાવે છે. હોય તેમને દર ૫૫૫ કરવામાં આવે છે. ફોરેસ્ટ વિભાગ દ્વારા પણ પૂરતો સહયોગ આપવામાં આવે છે. સાપકલોન બાદ પણ અમે લોકોએ પડી ગયેલા વૃક્ષો વાવવા માટે પ્રયત્નો કર્યા છે. ૨૨ જુન પંચાયત, મેમ્બર, એનવાયરમેન્ટ કન્ઝર્વેશન યુથ ક્લબ

ફસાઈ ને મારી જતી માછલીઓ, સ્કાર ફિશ અને અન્ય સમુદ્રી જીવો મરી જતા હતા. ત્યારબાદ તેમને દર રવિવારે બીચ ની સફાઈ કરવાનું શરૂ કર્યું. સાત મહિના પહેલા શરૂ કરેલ સફાઈ અભિયાન અંતગત અત્યાર સુધીમાં તેઓએ ૩ ટન કચરો એકઠો કર્યો છે. યુગ નાં લીડર જયદીપ ભાઈ જન્નાવે છે કે આ કચરામાં મોટેભાગે પ્રવાસન સ્થળ નાં લીધે પ્લાસ્ટિક ની બોટલો, નાસ્તાના પેકેટજીઓ, ઉદ્યોગો દ્વારા ફેંકવામાં આવતા ઘોરણાઓ, માછલી પકડવાની જાળી અને અન્ય સાધનો વગેરે જોવા મળે છે. આ કચરાને ભેગો કરીને નગરપાલિકા ને સોંપી દેવામાં આવે છે.

World Environment Day (7th June, 2021)

સુંદરવનમાંથી ૧૦ કિલો પ્લાસ્ટિક-કચરો એકત્રિત કરવામાં આવ્યો



સુંદરવન દ્વારા વિન્યવ પ્લાસ્ટિક દિવસે સુંદરવન ટીમ દ્વારા સ્વચ્છતા અભિયાનનું આયોજન કરવામાં આવ્યું હતું. જેમાં સુંદરવન પરિસરમાંથી ૧૦ કિલો પ્લાસ્ટિક અને અન્ય કચરો એકત્રિત કરવામાં આવ્યો. થીમ ઇકોસિસ્ટમ ડિસ્ટોર માટે સુંદરવનને ઇકોસિસ્ટમ પ્રોગ્રામ અને એનવાયરમેન્ટના યોગ ફિયોર્ટીના સહયોગથી ૧૪ વર્ષની વયના સ્કુલના બાળકો માટે ઇકોસિસ્ટમ ડિસ્ટોરેશન પર વેબિનારનું આયોજન કરવામાં આવ્યું હતું. ૫૦ શાળાના ૨૦૦ જેટલા બાળકોએ આ કાર્યક્રમમાં ભાગ લીધો હતો.

World Environment Day Celebration (6th June, 2021)

ગાંધી જયંતી નિમિત્તે રાષ્ટ્રીય વન્યજીવન સપ્તાહની ઉજવણી



અમદાવાદ | ગાંધી જયંતી નિમિત્તે અને રાષ્ટ્રીય વન્યજીવન સપ્તાહ ઉજવણીના ભાગરૂપે સુંદરવન પરિસરમાં સ્વચ્છતા અભિયાનનું આયોજન કર્યું હતું. જેમાં લગભગ 15 સ્વયંસેવકોએ સ્વચ્છ ભારત મિશનનો ભાગ ભનવા માટે સુંદરવન સ્ટાફ સાથે સહયોગ કર્યો અને અંદાજે 25 કિલો કચરો એકત્ર કર્યો જેમાં મોટાભાગે પ્લાસ્ટિકના આવરણ, પ્લાસ્ટિકના કપ અને અન્ય પ્લાસ્ટિકનો કચરો ભેગો કરી સ્વચ્છતાની મેસેજ આપ્યો હતો. એકત્રિત કચરો એક રિસાયકલિંગ કર્મને સોંપવામાં આવશે.

Gandhi Jayanti Celebration (3rd October, 2021)

રાષ્ટ્રીય વન્યજીવ સપ્તાહની ઉજવણી નિમિત્તે 'તમારા પક્ષીઓને જાણો' કાર્યક્રમ



રાષ્ટ્રીય વન્યજીવ સપ્તાહની ઉજવણી નિમિત્તે સુંદરવન દ્વારા 'તમારા પક્ષીઓને જાણો' કાર્યક્રમનું આયોજન કરવામાં આવ્યું છે, જેમાં બાળકોને ૨૦ પક્ષીઓ વિશેની ઓળખ કરાવીને તેના વિશેની માહિતી આપવામાં આવી હતી.

Wildlife Week celebrations

Sundarvan is celebrating National Wildlife Week from October 2 to 8 under this year's theme 'Sankrakshan ka Sankalp- Ek Jan Bhagidari (A conservation collective)'. Sundarvan invites visitors to join in their celebrations. Following activities and events will take place for the entire week.

- Oct 2: 10am to 12noon: Sundarvan Cleanliness Drive
- Oct 3: 8am to 10am: 'Know Your Birds' training programme in Partnership with GEE academy.
- Oct 3: 5.30pm onwards: 'Snake Awareness' programme at Sundarvan.
- Oct 5: 5.30pm: A Facebook live session on 'Turtles and Tortoise belong to wild, not home'
- Oct 8: 5 to 6.30pm: 'Bird Nest making' programme for Class 6 to 9 students.

WHEN: October 2 to 8 WHERE: Sundarvan ENTRY: Free CALL: 9429774947 / 079 28923148



સુંદરવનમાં બર્ડ વોચિંગ વર્કશોપ યોજાયો

સિટી લાઈફ >> રાષ્ટ્રીય વન્યજીવ સપ્તાહની ઉજવણી માટે સુંદરવન સુંદરવનમાં 'તમારા પક્ષીઓને જાણો' શીર્ષક હેઠળ સીઈઈ એકેડમીના સંયુક્ત ઉપક્રમે પક્ષી નિરીક્ષણ અને ઓળખ પર વર્કશોપ યોજાયો હતો. વર્કશોપમાં વિવિધ વય જૂથોના ૨૦ જેટલા પક્ષી નિરીક્ષણ ઉત્સાહીઓએ ભાગ લીધો હતો. સેશનની શરૂઆત પક્ષીઓની વિવિધતા અને ભેત્રમાં ઓળખ પર સંક્ષિપ્ત વર્ણન રજૂઆત સાથે કરવામાં આવી હતી. જ્યાં પાર્ટિસિપન્ટ્સે બર્ડિંગની મદદ કરવા માટે ઓળખના લક્ષણો અને પદ્ધતિઓ રજૂ કરવામાં



આવી હતી. વર્કશોપમાં અમદાવાદ શહેરમાં સામાન્ય રીતે જોવા મળતા પક્ષીઓની વિવિધ પ્રજાતિઓ ઓળખી કાઢવામાં આવી હતી.

Wildlife Week Celebration (2nd-8th October, 2021)

New snake house at Sundarvan

Times News Network

Ahmedabad: Sundarvan Zoo, run by the Centre for Environment Education in Satellite, on Monday got a new enclosure for snakes.

Wagh Bakri Tea group sponsored the project. CEE founder-director Kartikeya Sarabhai told TOI that it's a great example of CSR for conservation of wildlife. "The new enclosures, made with specifications of the Central Zoo Authority guidelines, will be a great addition for visitors," he said. The mini zoo was inaugurated by Bird Man of India Dr Salim Ali in 1978. The zoo houses over 10 species of snakes including pythons.

Rabin Shrivastava, architect of the project, said that recycled containers were used to create frames of the enclosure. "We have kept the environs of each enclosure different based on the snake species. We have also arranged for climate control and natural sunlight," he said. "The angles of the enclosures are such that the visitors would be able to see the snakes and pythons easily."



The zoo houses over 10 species of snakes including pythons

11 LAKHS OF BIRDS WHO PREFER TO JOURNEY ON FOOT

Sundarvan gets new snake park, boasts of 10 species

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Renovated snake park houses 10 snake species, including four venomous ones

The tea retailer Wagh Bakri has collaborated with Sundarvan to fund a snake park in the city as part of its CSR initiatives. The park was inaugurated by CEE director Kartikeya Sarabhai and Paras Desai, executive director of Wagh Bakri in the presence of Sundarvan programme coordinator Sureshbabu Nair. The company has contributed Rs 25 lakh to fund the Rs 30 lakh snake enclosure

at Sundarvan. The renovated snake park now houses 10 snake species, including four big venomous snakes - Indian cobra, Indian krait, Russell viper and Saw scaled viper, said Deep Shah, coordinator of education programme. The others are non-venomous snakes.

"We did awareness and fundraising campaigns during the pandemic when visiting the park was difficult. We did manage some funds but these weren't sufficient," Shah said. Things are, however, returning to normal at Sundarvan with visitors steadily increasing in the last month. The portable snake enclosure now have facilities like thermo-regulatory water circulation and large spaces for snakes.

Refurbished 'snake park' at Sundarvan inaugurated

EXPRESS NEWS SERVICE AHMEDABAD, NOVEMBER 1

THE "MINI zoo" of Sundarvan, situated in the heart of Ahmedabad city, got a refurbished and redesigned 'snake park' funded as part of a corporate social responsibility project by Wagh Bakri Tea Group.

The snake park, built in 1978 and inaugurated then by ornithologist Salim Ali, was inaugurated after redesigning on Monday by Kartikeya Sarabhai, director of the Centre for Environment Education (CEE), the organisation which runs the Sundarvan programme.

The inaugurated cages before the estimated transfer of March 2022.

Speaking at the sidelines of the inaugural event, Sarabhai said that Sundarvan is an exhibit of a natural mini-forest in the middle of the city and lauded the redesigned set-up while remarking of how nearly 60 snakes were brought from

Mafra in 1978 to Ahmedabad via Mumbai, on flights.

"We (Sundarvan) changed the way people related to snakes," Sarabhai said.

Designed in compliance with Central Zoo Authority's guidelines, prior to the refurbishment, the snake park had seven small enclosures housing the snakes, as Sureshbabu Nair, coordinator of the Sundarvan and chief administrator at Centre for Environment Education, says.

The guidelines earlier permitted that the snakes could be housed in small enclosures but now the guidelines say, according to the species, it should be seven by eight feet and for larger species such as python it should be 25 feet by 30 feet. We approached Wagh Bakri for CSR funding and they covered Rs 25 lakhs for it but we have spent about Rs 32 lakhs for this project now (wholly funded by Wagh Bakri)," Nair said.

Maintenance cost is borne from entry fees and our other special shows and programmes... We (Sundarvan) used to get funds from CEE which used to get funds from the government but that has stopped so therefore we faced some issues on that front. We then thought to ask for CSR funding where Wagh Bakri collaborated and acted as financiers. We approached them three years back and they gave us a deadline of March 2022 but we have inaugurated this before December," he added.

Initially designed by Padma Shri wildlife conservationist Romulus Whitaker, the refurbished snake park has been designed by Ahmedabad based architect and landscape artist Sharif Sharif said. Since 1978, there has been a lot of research on snakes. When this (refurbishment of the snake park) was being planned, Kartikeya Sarabhai told me that they would want portable containers which can be relocated somewhere else if need be, and we had to do it in a very short period of time. We were approached for the project in July 2020 last year. The idea was to use recycled materials (shipping containers, old tires, etc.) to build the enclosures.

Sharif added that snakes do not use food as a mechanism to regulate body temperature as we do. "It is too cold or too hot, they will die and Ahmedabad has a very fluctuating temperature, so we had to go for insulated containers with PUF (polyurethane foam) panel technology," added Sharif, explaining the enclosure design.

Taking care of the need of snakes to bask in sunlight, each enclosure has a skylight on the roof to ensure that natural sunlight enters the enclosure and to regulate the temperature and humidity inside the containers, air coolers have been installed.

Every enclosure has been designed species specific as well and also includes a plaque containing information about the exhibited snake.

For example, the enclosure for Indian cobra or the spectacled cobra has been designed to mimic its natural habitat, with bamboo trees.

Sharif adds, "We have also intentionally placed some of the visitors' view where the popular belief is that cobra penetrates the structure inside the enclosure. The fact is that cobra are not penetrating structures at all but rather they are found in such places because of the depleted nature of trees."



Built in 1978, the snake park was then inaugurated by ornithologist Salim Ali

મહાવાદ-સિટીભાસ્કર 04-11-2021

સુંદરવનમાં સ્નેકપાર્ક શરૂ કરાયો, દર રવિવારે સ્નેક અવેરનેસ પ્રોગ્રામ યોજાશે



અમદાવાદ | સુંદરવન ખાતે સ્નેક પાર્ક શરૂ કરવામાં આવ્યો. આ સ્નેક પાર્કમાં 10 જુદા-જુદા સ્નેકને તેમની તાસીર પ્રમાણેના વાતાવરણમાં રાખવા માટેની વ્યવસ્થા કરવામાં આવી છે. આ સ્નેક પાર્કને તૈયાર કરવામાં 32 લાખનો ખર્ચ કરવામાં આવ્યો છે. દરેક સ્નેકની દેખભાજી રાખવા માટે રેડેટરની વ્યવસ્થા કરવામાં આવી છે. અહીં જોવા મળતા સ્નેકને જુદી-જુદી સ્નેક વિશે લોકોને વધુ માહિતી મળે તે અર્થે સુંદરવન ખાતે ઉપર ધરાવતો અજગર પણ સામેલ છે. આ સ્નેક પાર્ક અંગે વાત કરતા કો-ઓર્ડિનેટર સુરેશભાઈએ જણાવ્યું કે, વિશ્વભરમાં સ્નેકની 3400થી વધારે પ્રજાતિ જોવા મળે છે જેમાંથી 600 પ્રજાતિ ભારતમાં જોવા મળે છે. આ સ્નેક પાર્કમાં રેસ્ટ્યુ કરીને લાવવામાં આવેલા 10 જુદા જુદા સાપ જોવા મળશે. જેમાં ઊંચિત્રન કોબા, રસાલ વાઈપર, ક્રોમના કેટ અને સો સેલ કરવામાં આવી છે. અહીં જોવા મળતા સ્નેકને જુદી-જુદી સ્નેક વિશે લોકોને વધુ માહિતી મળે તે અર્થે સુંદરવન ખાતે દર રવિવારે સ્નેક અવેરનેસ પ્રોગ્રામ પણ યોજવામાં આવશે.

Inauguration of New Snake Enclosure (2nd November, 2021)

SBI દ્વારા વૃક્ષારોપણ કરાયું

સ્ટેટ બેંક ઓફ ઈન્ડિયા દ્વારા આજાદી કા અમૃત મહોત્સવ અંતર્ગત તાજેતરમાં સુંદરવન ખાતે વૃક્ષારોપણની ઝુંબેશ હાથ ધરવામાં આવી હતી. જેનું ઉદ્ઘાટન પદ્મશ્રી કાર્તિકેય સારાભાઈ (નિયામક, CEE) અને પ્રણય રજન દિવેદી, GM, SBI (NW-II) દ્વારા કરવામાં આવ્યું હતું. આ કાર્યક્રમમાં SBIની હેડ ઓફિસ અને એડમિનિસ્ટ્રેટિવ ઓફિસ અમદાવાદના DGM અને CEE ના અધિકારીઓ હાજર રહ્યા હતા. સુંદરવન પરિસરમાં વિવિધ દેશી પ્રજાતિના ફળો અને ફૂલોના લગભગ 75 રોપાઓ વાવવામાં આવી હતા.

Plantation Drive (15th December, 2021)

STAND UP COMEDY	DANCE
ધ પાપર રેન્જર્સ - 12 ડિસેમ્બર સ્થળ : નટરંગ સ્ટુડિયો સમય : સાંજે 7થી 9 વાગ્યે	ચારેંગોગ્રામ - 11-12 ડિસે. સ્થળ : સ્કેપયાર્ડ સમય : સાંજે 5 વાગ્યે
MUSICAL EVENT	WORKSHOP
વિટ નાઈટ - 12 ડિસેમ્બર સમય : રાત્રે 8 વાગ્યે કાપરો કાફેમાં 150થી વધારે આર્ટિસ્ટ એક સાથે અમલગર મ્યુઝિક, હિપ-હોપ પર્ફોમ કરશે અને જામિંગ સેશન કરશે. ઈવેન્ટમાં એન્ટ્રી ફી રહેશે.	ડ્રમ એન્ડ યુવ - 12 ડિસે. સ્થળ : 079 સ્ટોરીઝ સમય : 4થી 5:30 વાગ્યે મ્યુઝિકની એક જુદા પ્રકારની જર્મી ડ્રમ વગાડીને શીખવવામાં આવશે.
OTHER EVENTS	
માય નાઈટ સર્વિસ - 11 ડિસેમ્બર સ્થળ : શિવરંજની માય બાઉન્ડ હબ સમય : રાત્રે 9:30થી 11 વાગ્યે	વિલ્ટર નાઈટ કેમ્પ - 11 ડિસે. સ્થળ : સુંદરવન સમય : સાંજે 5થી રાત્રે 9 વાગ્યે
ઈન્ટરનેશનલ વોલેન્ટિયર્સ ડે સેલિબ્રેશન - 12 ડિસેમ્બર સ્થળ : AMA સમય : ૩થી 4:30 ઈન્ટરનેશનલ વોલેન્ટિયર્સ ડે સેલિબ્રેશન અંતર્ગત કોરોના પે-નેમિકના સમયમાં વોલેન્ટિયર કામ કર્યું હોય તે અંગે સેલિબ્રેશન કરાશે. એલિટીવર ફાઉન્ડેશન, યુનિસેક ઈન્ડિયા, યુવાલ ઈન્ડિયા અને ગુજરાત યુથ ફોરમ દ્વારા આ ઈવેન્ટ યોજાશે.	

Winter Night Camp (11th December, 2021) -Divya Bhaskar

PLAN AHEAD

1 Wintry nights and bonfires are calling nature lovers to the night camp in Sundarvan. If you think it's the right season to let your kids enjoy the outdoors, here's their chance to explore night life in nature's lap at



**Sundarvan, Near ISRO,
Jodhpur Tekra | Nov 27;
5.30pm to Nov 28, 9am |
Entry: Paid; Age: 6-12
years**

Winter Night Camp
(11th December, 2021)

PLAN AHEAD

1 Wintry nights and bonfires are calling nature lovers to the night camp in Sundarvan. If you think it's the right season to let your kids enjoy the outdoors, here's their chance to explore night life in nature's lap at



**Sundarvan, Near ISRO,
Jodhpur Tekra | Nov 27;
5.30pm to Nov 28, 9am |
Entry: Paid; Age: 6-12
years**

Winter Night Camp
(26th December, 2021)

PLAN AHEAD

1 Wintry nights and bonfires are calling nature lovers to the night camp in Sundarvan. If you think it's the right season to let your kids enjoy the outdoors, here's their chance to explore night life in nature's lap at



**Sundarvan, Near ISRO,
Jodhpur Tekra | Nov 27;
5.30pm to Nov 28, 9am |
Entry: Paid; Age: 6-12
years**

Winter Night Camp
(1st January, 2022)

Sundarvan Nature Discovery Centre, Ahmedabad

Annual Inventory Report																					
SCH - 1 & SCH - 2 (Wildlife Protection Act)																					
		Opening stock as on 1/04/2021														Closing stock as on 31/03/2022					
Sr. No.	Species	M	F	U	T	Birth			Acquisition			Disposal			Death			M	F	U	T
						M	F	U	M	F	U	M	F	U	M	F	U				
	REPTILES																				
1	Indian Cobra <i>Naja naja</i>			6	6															6	6
2	Bengal Monitor Lizard <i>Varanus bengalensis</i>			2	2															2	2
3	Indian Rock Python <i>Python molurus</i>	2	4	0	6													2	4	0	6
4	Common Rat Snake <i>Ptyas mucosus</i>			6	6															6	6
5	Checkered Keelback <i>Xenocrophis piscator</i>			3	3															3	3
6	Russell's Viper <i>Doboia russelii</i>			1	1				1											2	2
	TOTAL REPTILES	2	4	18	24				1									2	4	19	25
	TOTAL ANIMALS	2	4	18	24				1									2	4	19	25

Park Manager

Annual Inventory Report

SCH - 3 & SCH - 4 (Wildlife Protection Act)

Sl. No.	Species	Opening stock as on 1/04/2021				Closing stock as on 31/03/2022															
		M	F	U	T	Birth			Acquisition			Disposal			Death			M	F	U	T
	MAMMALS					M	F	U	M	F	U	M	F	U	M	F	U				
1	Indian Porcupine <i>Hystrix indica</i>	2	1	1	4													2	1	1	4
2	Pale Hedgehog <i>Paraechinus micropus</i>	1	1		2									1	1			0	0		0
	TOTAL MAMMALS	3	2	1	6													2	1	1	4
	REPTILES																				
3	Red Sand Boa <i>Eryx johni</i>	1	1		2													1	1		2
4	Common Sand Boa <i>Eryx conicus</i>	1	1		2													1	1		2
5	Common Indian Krait <i>Bungarus caeruleus</i>			5	5															5	5
6	Saw-scaled Viper <i>Echis carinatus</i>	1	1		2									1				1			1
7	Star Tortoise <i>Geochelone elegans</i>			20	20															20	20
8	Common Trinket Snake <i>Coelognathus helena</i>								1										1		1
	TOTAL REPTILES	3	3	25	31				1					1	2			3	3	25	31
	TOTAL ANIMALS	6	5	26	37									1	2			5	4	26	35

Park Manager

Annual Inventory Report - Exotic Animals

Sl. No.	Species	Opening stock as on 1/04/2021																Closing stock as on 31/03/2022			
		M	F	U	T	Birth			Acquisition			Disposal			Death			M	F	U	T
						M	F	U	M	F	U	M	F	U	M	F	U				
	REPTILES																				
1	African Slender-snouted Crocodile	0	2	0	2													0	2	0	2
	<i>Mecistops cataphractus</i>																				
2	Red eared Slider Turtle	3	3	0	6													3	3	0	6
	<i>Trachemys scripta</i>																				
	Total Reptiles	3	5	0	8													3	5	0	8
	Birds																				
1	Cockateil			46	46			3												49	49
	<i>Nymphicus hollandicus</i>																				
2	Java Finch			12	12			15												27	27
	<i>Lonchura oryzivora</i>																				
3	Budgerigar			145	145															145	145
	<i>Melopsittacus undulatus</i>																				
4	Love Birds			14	14															14	14
	<i>Agapornis roseicollis</i>																				
	TOTAL REPTILES	3	5	0	8			0										3	5	0	8
	TOTAL ANIMALS	3	5	217	225			18										3	5	235	243

Park Manager

