

**Ek Bharat Shreshtha Bharat**  
**Virtual Interactive Meet of School Eco-Clubs**  
**Delhi ↔ Sikkim**  
**Tuesday May 18, 2021 4pm to 5pm**

Join via Zoom App  
 Meeting ID: 91378498300, Passcode: 167624

Join via Link  
<https://wwf.zoom.us/j/91378498300?pwd=SlNpSUJSZVZQT0kwcXZ4RTlQd20xUT09>

Watch Live in YouTube  
<https://www.youtube.com/channel/UCaEilyb-qIAJOVTCbQpY1QQ/>

Organized by: Sikkim and Delhi based ENVIS Hubs and Resource Partners, Environmental Information System (ENVIS)  
 Contact Details: Delhi – 9968936963, 9110195276; Sikkim – 8927966177, 9635878286

### A Report:

A virtual interactive meet of school eco-clubs of Delhi and Sikkim State was organized on May 18, 2021 as a part of Ek Bharat Shrestha Bharat Programme for sharing local knowledge, culture, tradition and best environmental practices. The event was jointly organized by Sikkim ENVIS Hub, WWF ENVIS RP Delhi and SPA ENVIS RP Delhi of the Ministry of Environment, Forest and Climate Change. The event was also hosted live in YouTube platform and was actively participated and witnessed by 500 plus teachers and students of Delhi and Sikkim State.

Mr Raunak Raj class X student of Vidya Niketan School, Delhi and Ms Kezia Chettri class X student from Government SSS Singtam made beautifully power point presentation about Delhi and Sikkim respectively. Green teacher from Vidya Niketan School, Delhi Mrs Menakshi Sharma and Green teacher Government SSS Makha Mr Lomas Dhungel and also made a short deliberations about their Eco club activities.

Dr. Mehebut Sahana from WWF ENVIS RP, Delhi also made a short presentation on Earth system science and geographical diversity of Delhi and Sikkim. Ms. Meenakshi Dhote, Coordination of SPA ENVIS RP, Delhi and Shri Rajen Pradhan from Sikkim ENVIS Hub also made short deliberations in an event moderated by Ms Harsimran Kaur of SPA ENVIS RP. The event also witnessed slideshow of posters prepared by Sikkim and Delhi students. The event aimed at providing platform to two diverse states of the country for familiarizing the local traditions and cultures and propagate the concept of Ek Bharat Shrestha Bharat.

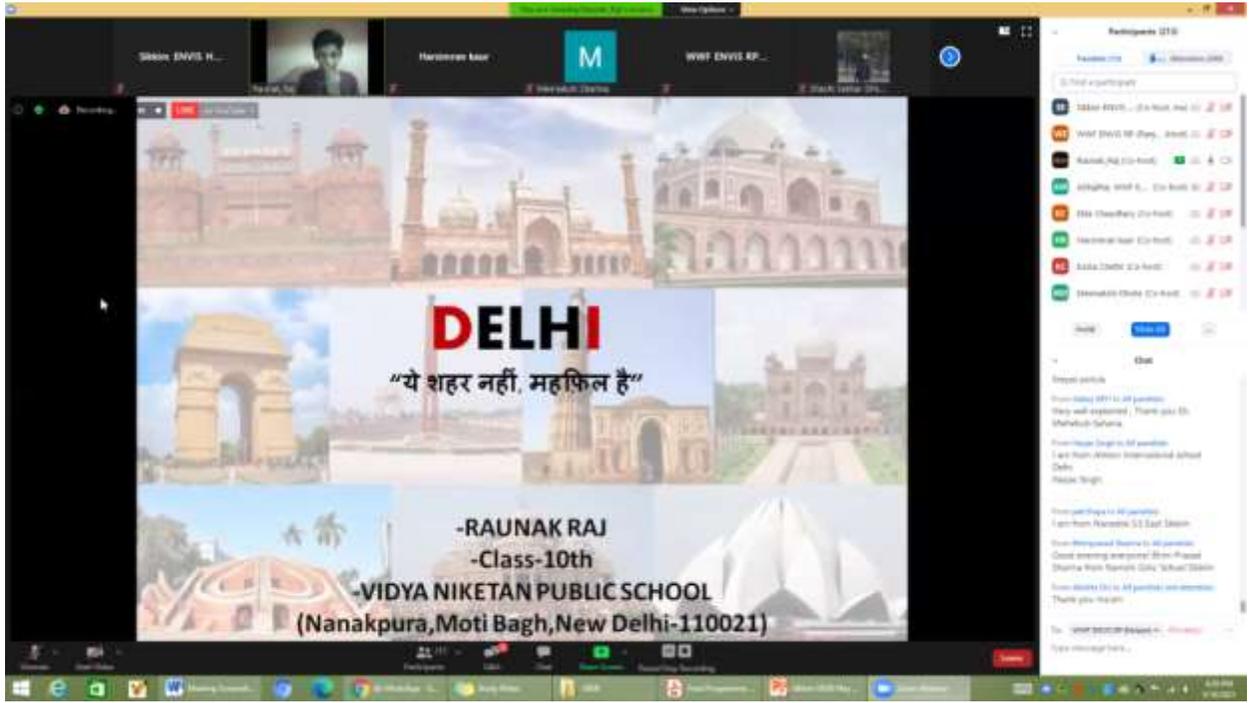
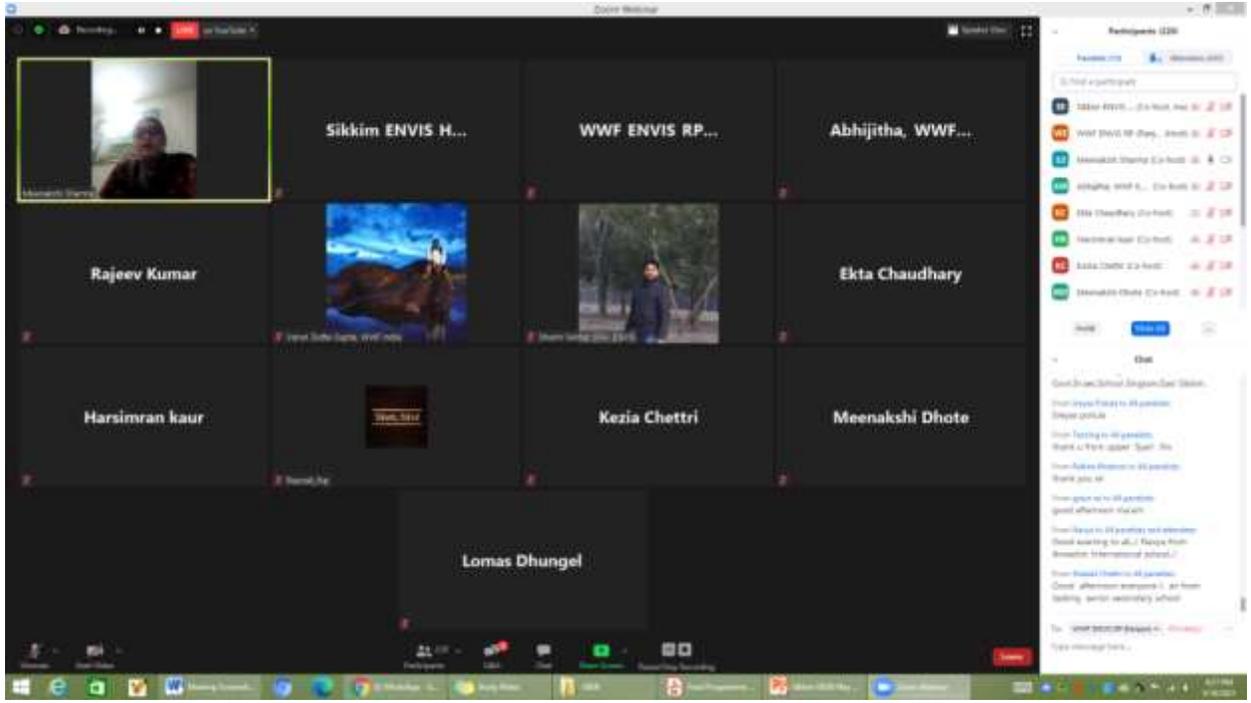
# Event Screenshots

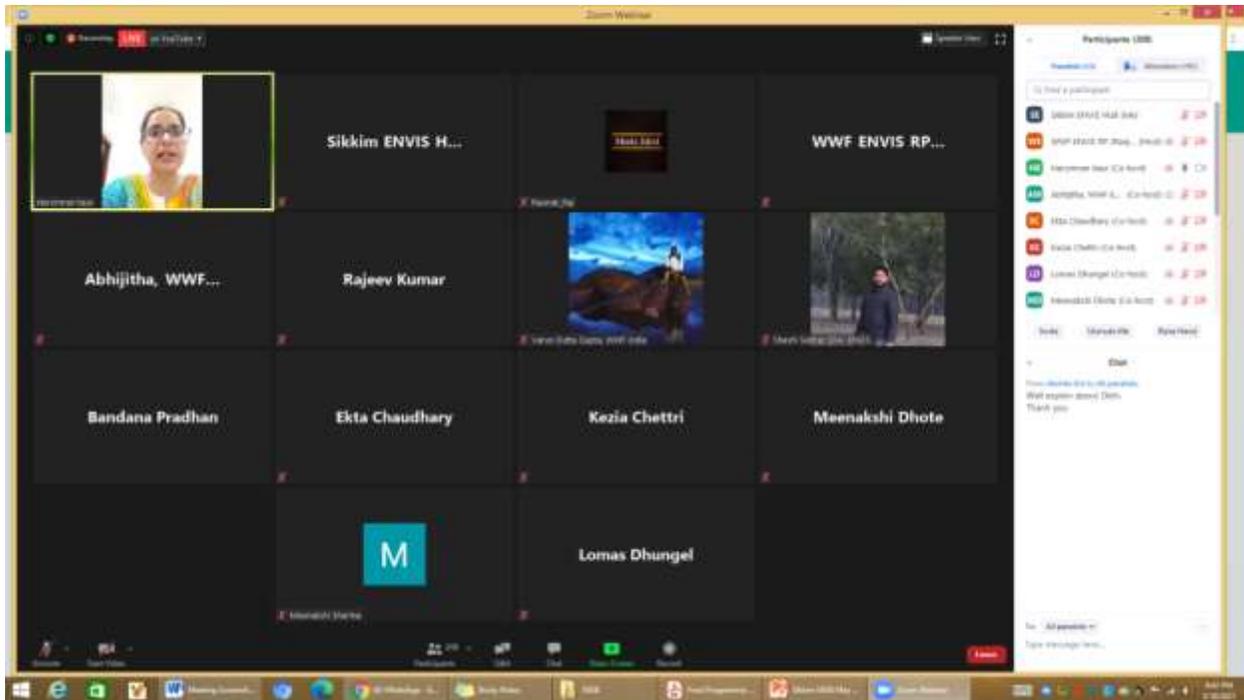












Zoom Meeting: **Topic: Sikkim** | New Edition | 11:14 AM

Participants: Sakin ENVIS R..., WWF ENVIS RP..., Barkata Pradhan, Anshika, WWF..., Rajeev Kumar




- Sikkim is the 22<sup>nd</sup> State of INDIA
- Geographical Area: 7096 sq km
- Surrounded by China in the North, Bhutan in the East, Nepal in the West and West Bengal in the South.
- Highest Mountain : Mt. Khangchendzonga - 28156 ft
- Sikkim has four districts; North Sikkim, East, South and West
- Major Rivers: Teesta and Rangit
- Gangtok is the capital of Sikkim with more than 1 lakh population

Participants (20)

Find a participant

- Sakin ENVIS R... [M] [U]
- WWF ENVIS RP... [M] [U]
- Rajeev Kumar [M] [U]
- Anshika, WWF... [M] [U]
- Barkata Pradhan [M] [U]
- ... [M] [U]

Windows Taskbar: Microsoft Edge, WhatsApp, Zoom Meeting, Google Chrome, Word, PowerPoint, Mail, File Explorer, System Tray: 11:14 AM, 11/20/2020

Zoom Meeting: **Topic: Sikkim** | New Edition | 11:14 AM

Participants: Sakin ENVIS R..., WWF ENVIS RP..., Anshika, WWF..., Rajeev Kumar

## Sikkim's role in Indian Independence



Influence of MK Gandhi can also be seen in the attire.

- Trilochan Pokhrel was the first Gorkha activist from Sikkim popularly known as '**Gandhi Pokhrel**', he was born and raised in Tareythang, Pakyong, East Sikkim.
- Growing up in a rural area, Trilochan was heavily influenced by Gandhi's action, particularly during the Non Cooperation and Civil Disobedience movements through the early 1920s and 1930s.
- He played a vital role in propagating the concept of Swadeshi Movement of Mahatma Gandhi among the Sikkimese.
- He actively participated in during the Quit India Movement of 1942, and lived with Mahatma Gandhi at Sabarmati Ashram in Gujarat and Sarvodaya Ashram in Bihar.

Participants (20)

Find a participant

- Sakin ENVIS R... [M] [U]
- WWF ENVIS RP... [M] [U]
- Rajeev Kumar [M] [U]
- Anshika, WWF... [M] [U]
- Barkata Pradhan [M] [U]
- ... [M] [U]

Windows Taskbar: Microsoft Edge, WhatsApp, Zoom Meeting, Google Chrome, Word, PowerPoint, Mail, File Explorer, System Tray: 11:14 AM, 11/20/2020

Zoom Meeting    Video: Off    10:00 AM

Sahin ENVIS H...    WWF ENVIS SP...    Jaagtha, WWF...    Pajee Kumar    Video: Public Share...

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## Culture and Tradition of Sikkim



- Ethnic Community: Nepali, Bhutia and Lepcha
- Nepali is the predominant language spoken in Sikkim.
- Religion: Hindu, Buddhism
- Some common costumes of our state are called 'Daura Sural', 'Bakhu' & 'Dumpra'.
- All three major ethnic community in Sikkim have their diverse dance forms.

Participants (20)

Zoom Meeting    Video: Off    10:00 AM

Zoom Meeting    Video: Off    10:00 AM

Sahin ENVIS H...    WWF ENVIS SP...    Jaagtha, WWF...    Pajee Kumar    Video: Public Share...

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## Popular Icons of Sikkim



Danny Denzongpa

Gitanjali Thapa

Bhaichung Bhutia

Participants (20)

Zoom Meeting    Video: Off    10:00 AM

**Biodiversity of Sikkim**

- Recorded forest land area covers 82.31% of State's TGA.
- Sikkim covering just 0.2 % of the geographical area of India has 26% of the country's total floral biodiversity
- Sikkim has been identified as one of the HOT SPOTS in the Eastern Himalaya

Biodiversity at a Glance	No. of Species
Flowering Plants	4900
Orchids	900
Rhododendrons	36
Conifers	16
Bamboos	28
Ferns and Fern allies	362
Tree Ferns	9
Prionias	30
Oaks	11
Medicinal Plants	424
Mammals	>144
Birds	502
Butterflies	600
Fishes	48
Mountains & Peaks	28
Glaciers	54
Lakes and Wetlands	227
Rivers and Streams	>104

Source: Forests, Environment & Wildlife Management Department, Sikkim

**World Heritage Site - Khangchendzonga National Park**

- 1784 sq.km. (25.14% of State's TGA)
- India's first UNESCO designated World Heritage Site on Mixed Criteria (Nature & Culture) – 2016

**Khangchendzonga Biosphere Reserve:**

- 2931 sq.km.
- included in World Network of Biosphere Reserve in August 2018



Sikkim ENVIS H... WWF ENVIS EP... Jaangma, WWF... Pajeev Kumar

Participate (20)

## School level Initiatives: *Hariyo Makha – Sikkim Against Pollution* 19





### Plastic and Paper Up-cycling Initiative:

- Eco-Club of Makha SSS upcycles plastic pieces and semi-used papers into book covers and notebooks.
- Till now 85,000 littered plastic pieces have been refined into 6100 book; about one lakh semi-used A4 paper converted into 1000 copies generating about 60K as revenue.
- Revenue generated have been utilized in helping 8 needy school dropouts to pursue

Participants list on the right side of the slide.

Sikkim ENVIS H... WWF ENVIS EP... Jaangma, WWF... Pajeev Kumar

Participate (20)

# Acknowledgement 25

I have prepared this presentation with the help of my Green Teacher

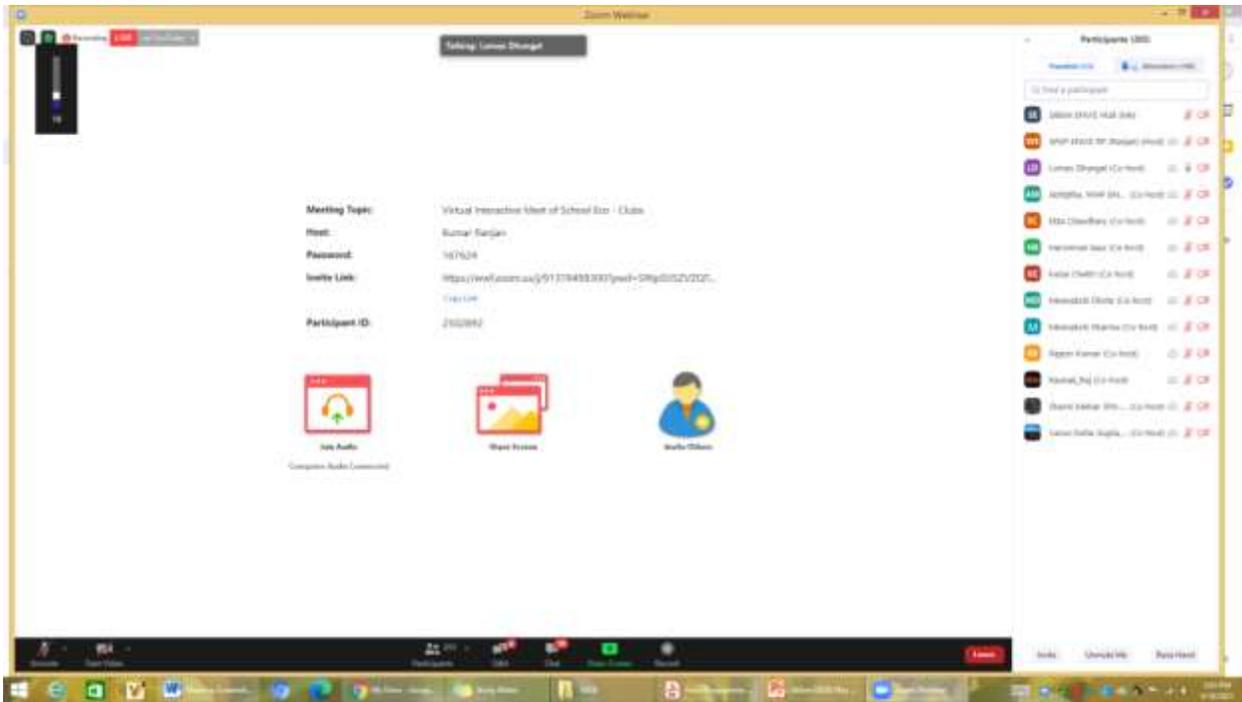
- Mr. Ashish Kumar Pradhan, Singtam SSS.
- Mr. Lomas Dhungel, Green Teacher, Makha SSS
- Abinam Neopaney, Class IX, Makha SSS
- Saurav Adhikari, Class X, Makha SSS
- Sikkim ENVIS Hub, Forest and Environment Department, Gangtok

- For any Queries, please write to [sik@envis.nic.in](mailto:sik@envis.nic.in)

Wish You All Safe , Healthy and Wealthy Life Ahead!!!

## THANK YOU ALL FOR PATIENT HEARING

Participants list on the right side of the slide.





## Report on Joint Activities of ENVIS HUB ASSAM with ENVIS RP, CAZRI, Rajasthan under the Government of India initiative “Ek Bharat Shrestha Bharat”

### WEBINAR on “Ecosystem Restoration”

A Webinar was jointly organized by ENVIS Hub-Assam, Assam Science Technology & Environment Council, Department of Science & Technology, Govt. of Assam with ENVIS RP on Combating Desertification, ICAR-Central Arid Zone Research Institute, Jodhpur (Rajasthan)- 342008 under the Government of India initiative “Ek Bharat Shrestha Bharat” on 5<sup>th</sup> June 2021.

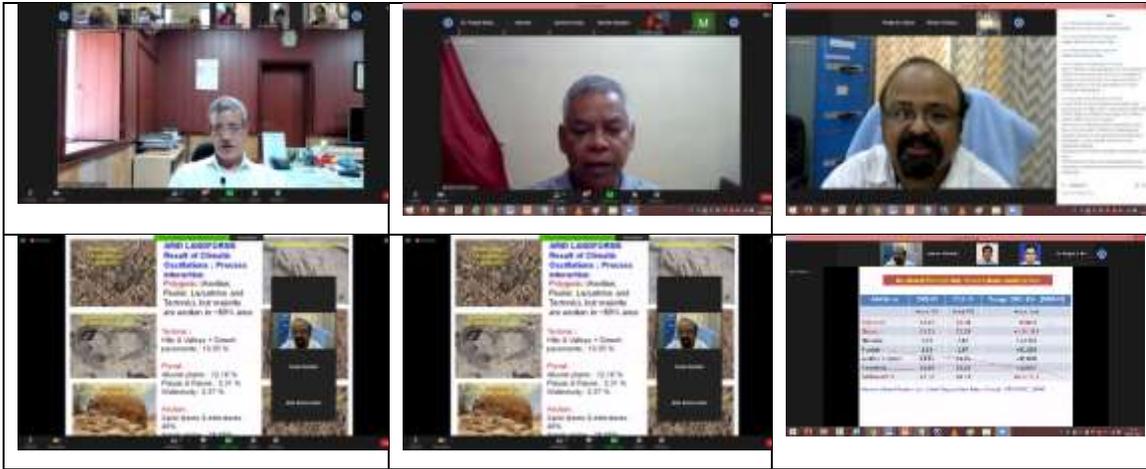


ENVIS RP on Combating Desertification at ICAR – Central Arid Zone Research Institute, and ENVIS Hub, Assam Science Technology & Environment Council, Department of Science & Technology, Govt. Of Assam jointly organized a webinar on World Environment Day on 05<sup>th</sup> June, 2021 under the initiative “Ek Bharat Shrestha Bharat” on this year’s theme ““*Ecosystem Restoration*”. The webinar was inaugurated by Smt. Kinnei Changsan, Director, Assam Science Technology & Environment Council, Assam who highlighted the importance of World Environment Day. Dr. O.P.Yadav, Director, ICAR-CAZRI, Jodhpur in his opening remarks stressed for reducing the amount of environmental footprints of water and carbon and its good services we are using. He emphasized steps to take care of ecosystem in the present context of pandemic and told land degradation is a local issue with Global solution. Ms. Manisha Sarmah, Programme Officer, ENVIS Hub, Assam coordinated the programme. The session was followed by the brief introduction of ENVIS Hub, Assam by Dr. Jaideep Baruah, ENVIS Coordinator, Assam. He thanked MoEF&CC and extended their cooperation to organize such events held in collaboration with extreme corners of country which will give opportunities to understand variability. Sjt. Abhay Kumar Johari, IFS, Former Special Principal Chief Conservator of Forests,

Member Secretary, Assam State Biodiversity Board was invited as the guest speaker who elaborated about the ecosystem and biodiversity of Assam. He explained how there are other ecosystem which are equal vulnerable and needs equal importance and attention like agriculture, horticulture, fisheries, cash crop plantation, sacred grooves, small rivers and small ecosystems. He stressed that restoration can be done by opting and promoting locally available things which is good for health, economy and ecosystem. He shared his work that they are planning to do 33,000 ha of carbon stock plantation with the objective to maintain woodland for perpetuating so as to compensate for the loss of carbon. He suggested that we need large numbers of partners to meet the agenda the UN has given as a “Decade for Ecosystem Restoration – 10 years of to heal the planet”. Another guest speaker from Rajasthan state Dr. P. C. Moharana, Principal scientist & ENVIS Coordinator, at ICAR-CAZRI delivered his speech “ Ecosystem Restoration – Challenges & Perspectives from Indian Arid regions in Rajasthan. He showed the glimpse of arid ecosystem which supports about 27 millions human and 30 million livestock population and where sandy landscape and the ecology is governed by the several factors. For restoration he suggested that we need to improve the productivity, improve the capacity of ecosystem for everybody. He explained major challenges such as fragile resource base which includes desertification & land use degradation, wind erosion, poor soils, water scarcity, salanization, climatic stress and high biotic pressure. To check the degradation due to wind erosion, he explained the sand dune stabilization, shelterbelt plantations, agroforestry etc. He concluded his lecture by saying that Restoration has three key words – Adaptability, Sustenance and Improvement. The lecture sessions were followed by a healthy interaction session with the participants.

Vote of thanks was extended by Dr. Sangeeta Goyal, Programme Officer, ENVIS RP, Rajasthan. She profusely thanked Smt. Kimnei Changsan, Director, Assam Science Technology & Environment Council, Dr. O. P Yadab, Director, ICAR- CAZRI, Jodhpur (Rajasthan), Dr. R. K. Goyal, Principal Scientist, ICAR- CAZRI, Jodhpur (Rajasthan), Dr. Jaideep Baruak, Head i/c Environment Division and ENVIS Coordinator of ENVIS Hub, Assam, Dr. P. C. Moharana, Principal scientist & ENVIS Coordinator, ICAR-CAZRI, Jodhpur (Rajasthan), Sjt. Abhay Kumar Johari, IFS, Former Special Principal Chief Conservator of Forests, Member Secretary, Assam State Biodiversity Board, ENVIS members from both Assam and Rajasthan states and all the participants for making the

webinar a successful and fruitful one.. The webinar was attended by 100 participants (which was the maximum allowing members in zoom platform) who include scientists, officials and other participants from both the states.



**Beneficiaries:** Officials from ICAR – Central Arid Zone Research Institute, Officials from Assam Science Technology & Environment council, Assam Energy Development Agency, Scholars from Cotton and Guwahati Universities, Members of Assam Science Centres, Aryabhata Science Centres, College students form various colleges etc.

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# ENVIS RP on Avian Ecology, BNHS

## Ek Bharat Shrestha Bharat, April-June 2021

### BNHS-ENVIS Team:

Dr Girish Jathar (Project Coordinator)

Mr Nandkishor Dudhe (Programme Officer)

Ms Sushmita Karmakar (Information Officer)

Mr Suraj Gosavi (IT Officer)

Mr Viraj Athalye (Data Entry Operator)



The ‘**Ek Bharat Shreshtha Bharat**’ (EBSB) programme is based on the idea of a sustained and structured cultural connect between people of different regions residing in India. This idea was propounded by Prime Minister Shri Narendra Modi during the Rashtriya Ekta Divas held on 31<sup>st</sup> October, 2015. This programme considers the pairing of different states and UTs in order to promote mutual understanding between people and establish cultural exchanges to further human bonding for our nation-building. As this year Maharashtra has been paired with Odisha, the ENVIS Centres of both these states will be contributing towards the celebration of this event.

The Environmental Information System (ENVIS) collects, collates and disseminates information and various knowledge products on different environment related thematic areas and generate awareness among the stakeholders via the ENVIS Hubs and Resource Partners which are hosted in the Environment / Forest Department of State Governments / UT Administrations and environment-related governmental and non-governmental organizations / institutes of professional excellence. Thus, the ‘Ek Bharat Shreshtha Bharat’ programme has been included in the ENVIS awareness and outreach programmes for a wider circulation for creating public awareness and promoting cultural integration.

On this account, the ENVIS Resource Partner on Avian Ecology at Bombay Natural History Society and the ENVIS Centre for Environmental Studies at the Forest and Environment Department of Government of Odisha jointly organized the following events:

- 1) A webinar on ‘**Habitat Ecology of Birds**’ was organized for the amateur birdwatchers and students on April 17, 2021. The guest speaker was Ms Swetashree Purohit, Ph.D. Student, Central University of Orissa. The objective of this webinar was to provide knowledge about the distribution of species according to their habitats, and highlight



**Ek Bharat Shreshtha Bharat Programme**  
Join Online Webinar

On the occasion of "Ek Bharat Shreshtha Bharat Programme"  
ENVIS Resource Partner on Avian Ecology, Bombay Natural History Society (BNHS-ENVIS) and ENVIS Centre for Environmental Studies (CES), Forest & Environment Department, Government of Odisha, are jointly organizing an online webinar

**Topic:- Habitat Ecology of Birds** **Saturday, 17 April 2021**  
**Expert:- Miss Swetashree Purohit** **Time:- 7 pm to 8 pm**  
**No registration fees**

the different geographical regions in India. Mr Viraj Athalye, Data Entry Operator, BNHS-ENVIS inaugurated the session and Ms Sushmita Karmakar, Information Officer, BNHS-ENVIS brief regarding the EBSB to all. She later introduced Mr Nandkishor Dudhe, Programme Officer, BNHS-ENVIS who briefed regarding the ENVIS RP and the BNHS. She then introduced Mr Pravat Mohan Dash, Programme Officer, CES, Odisha, who briefed regarding the ENVIS Hub and introduced the speaker. The Q&A session was conducted by Mr Viraj Athalye, where the enthusiastic queries of participants were deftly handled by the expert. The session concluded with a vote of thanks by Ms Sushmita Karmakar. Mr Suraj Gosavi, IT Officer, BNHS-ENVIS managed the technical part of the whole session. The webinar saw 239 participants.

- 2) A webinar on **‘Biology of birds’** was organised on April 18, 2021. The guest speaker was Dr Siba Prasad Parida. He gave an engaging and illustrative session on biology of birds, their lifestyle and various other unique information regarding the bird behaviour. Ms Sushmita Karmakar,

**Ek Bharat Shreshtha Bharat Programme**  
Join Online Webinar

On the occasion of “Ek Bharat Shreshtha Bharat Programme”  
ENVIS Resource Partner on Avian Ecology, Bombay Natural History Society (BNHS-ENVIS) and ENVIS Centre for Environmental Studies (CES), Forest & Environment Department, Government of Odisha, are jointly organizing an online webinar

**Topic:- Biology of birds**  
**Expert:- Dr Siba Prasad Parida**

**Sunday, 18 April 2021**  
**Time:- 7 pm to 8 pm**  
**No registration fees**

Information Officer, BNHS-ENVIS inaugurated the session and briefed regarding EBSB. She welcomed Mr Nandkishor Dudhe, Programme Officer, BNHS-ENVIS who briefed regarding the ENVIS RP and the BNHS. She then introduced Mr Pravat Mohan Dash, Programme Officer, CES, Odisha, who briefed regarding the ENVIS Hub and introduced the speaker. The Q&A session was conducted by Ms Sushmita Karmakar where the enthusiastic queries of participants were deftly handled by the expert, and she later concluded the session with a vote of thanks. Mr Suraj Gosavi, IT Officer, BNHS-ENVIS and Mr Viraj Athalye, Data Entry Operator, BNHS-ENVIS managed the technical part of the whole session. The webinar saw 206 participants.

- 3) A webinar on **‘Bird migration study techniques’** was presented on April 24, 2021 by Ms Tuhina Katti, Scientist-B, BNHS. She explained the various techniques used to study bird migration, their pros and cons and the techniques suitable for particular species of birds. She also highlighted the

**Ek Bharat Shreshtha Bharat Programme**  
Join Online Webinar

On the occasion of “Ek Bharat Shreshtha Bharat Programme”  
ENVIS Resource Partner on Avian Ecology, Bombay Natural History Society (BNHS-ENVIS) and ENVIS Centre for Environmental Studies (CES), Forest & Environment Department, Government of Odisha, are jointly organizing an online webinar

**Topic:- Bird migration study technique**  
**Expert:- Ms Tuhina Katti**  
(Scientist-B, Bombay Natural History Society)

**Sunday 24 April 2021**  
**Time:- 7 pm to 8 pm**  
**No registration fees**

work that has been carried out by BNHS in studying migratory birds using maps and illustrations.

Mr Nandkishor Dudhe, Programme Officer, BNHS-ENVIS inaugurated the session and briefed regarding EBSB, ENVIS RP, and BNHS. He then welcomed Mr Pravat Mohan Dash, Programme Officer, CES, Odisha, who briefed regarding the ENVIS Hub. Later, Mr Dudhe introduced the speaker. The Q&A session was conducted by Ms Sushmita Karmakar, Information Officer, BNHS-ENVIS where the enthusiastic queries of participants were deftly handled by the expert, and she later concluded the session with a vote of thanks. Mr Suraj Gosavi, IT Officer, BNHS-ENVIS and Mr Viraj Athalye, Data Entry Operator, BNHS-ENVIS managed the technical part of the whole session. The webinar saw 328 participants.

- 4) An Online Quiz Competition was organized on the topic ‘Know Your Birds’ from May 19-24, 2021 for the students of classes 5-10. The ENVIS RP at BNHS and ENVIS Hub at CES-Odisha jointly took this initiative which saw 702 participants. The questions were designed to provide general knowledge regarding the birds and the National parks and Sanctuaries of India.

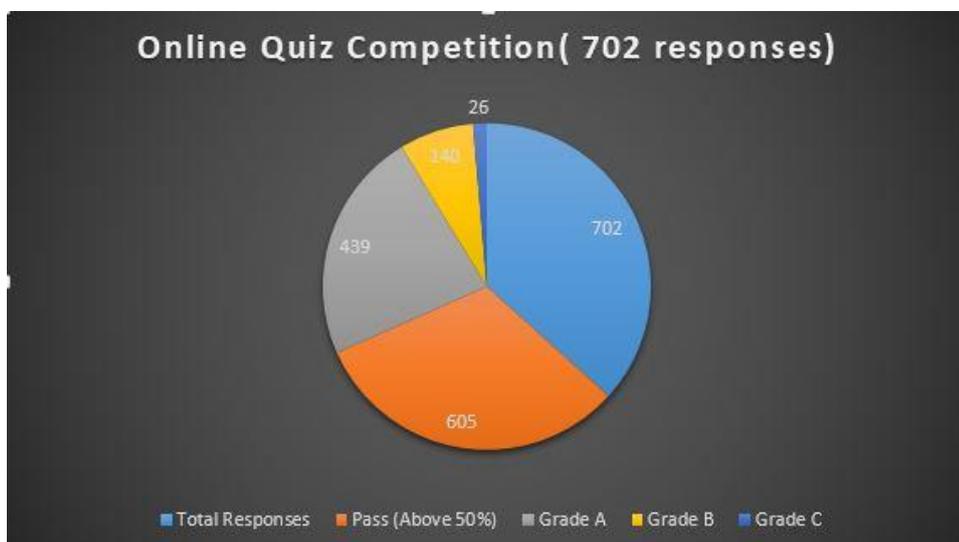
**Ek Bharat Shreshtha Bharat Programme  
Online Quiz Competition**

On the occasion of 'Ek Bharat Shreshtha Bharat Programme', BNHS-ENVIS (ENVIS Resource Partner on Avian Ecology, Bombay Natural History Society) and ENVIS Centre for Environmental Studies (CES), Forest & Environment Department, Government of Odisha, are jointly organizing a Quiz competition. This contest is open to students of Classes 7 to 10.

**Topic: Know Your Birds**  
**Quiz duration: 30 min.**  
**Total questions: 50 (Every question has 2 marks)**  
**Classes: 7 to 10 standard only**

Certificates will be distributed to those who score 50% and above.  
**Last date for submission: - 24 May 2021, by 5 pm.**

Link: <http://bnhsenvis.nic.in/ViewEvents.aspx?Id=19801&Year=2021>



- 5) A poster on the threatened bird species of Maharashtra was released on June 15, 2021. It depicted the nine endangered (EN) species as shown below:



Link: <http://bnhsenvis.nic.in/ViewEvents.aspx?Id=19809&Year=2021>

**THE END**



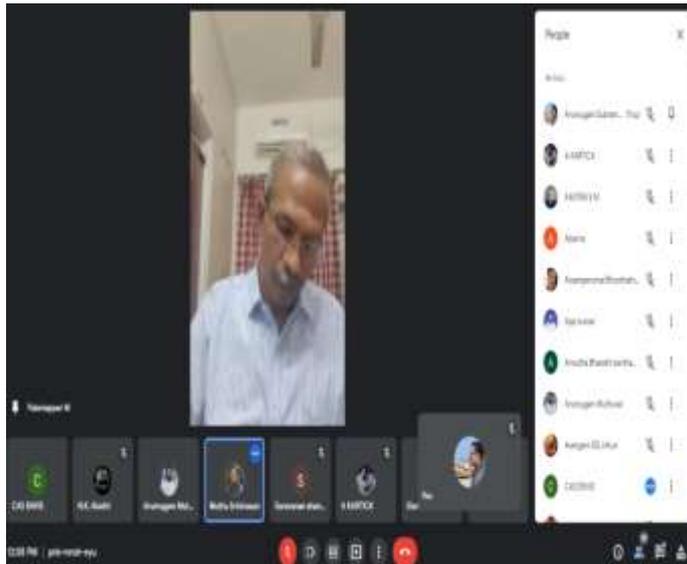
**ANNAMALAI UNIVERSITY**  
**ENVIRONMENTAL INFORMATION SYSTEM (ENVIS RP)**  
**CAS in Marine Biology, Faculty of Marine Sciences**

**‘World Oceans Day - 2021’**

ENVIS RP, CAS in Marine Biology (CASMB) celebrated ‘World Environment Day - 2021’ by organizing a webinar on 14<sup>th</sup> June 2021. Prof. Dr. M. Srinivasan, Dean and Director of the Centre, ENVIS Co-ordinator inaugurated the programme.

The Chief Guest of the day is Mr. M. Palaniappan, Scientist- F, National Institute of Ocean Technology Ministry of Earth Science, Chennai. He spoken about the anthropogenic impacts on the ocean and given strategies for sustainable management of the oceans worldwide.

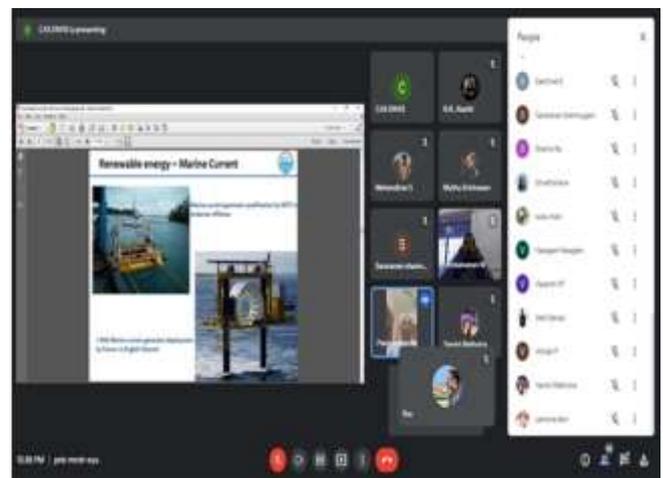
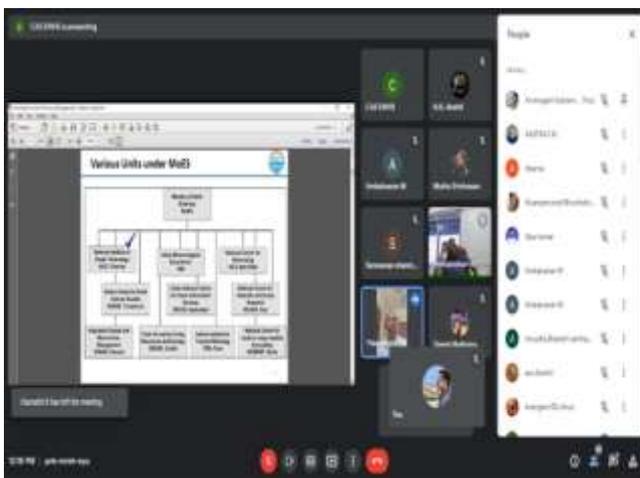
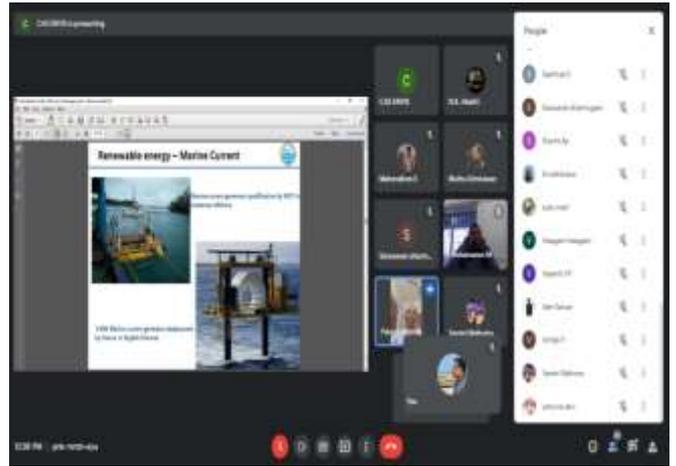
Prof. Dr. P. Anantharaman, CAS in Marine Biology made welcome address. Dr. M. Arumugam, (Associate Professor) and Assistant professors, Dr. B. Aiyamperumal, Dr. S. Saravanan and Dr. P. Sureshkumar, have participated along with research scholars and the students of CAS MB. Finally, Dr. T. Lenin Programme Officer, ENVIS RP proposed the vote of thanks. The programme has been successfully organized by the CAS in Marine Biology, ENVIS RP team members and fifty eight participants have registered successfully for the ‘World Oceans Day Programme.



**Fig 1. Chief Guest, Mr. M. Palaniappan, Scientist –F, NIOT, Ministry of Earth Science, Chennai.**



**Fig2. Prof. Dr. M. Srinivasan, ENVIS Co-ordinator and Prof. Dr. P. Anantharaman, CAS in Marine Biology inaugurated the programme**



**Fig3. World Oceans Day Programme participants**

# *A Report on* **EK BHARAT SHRESHTHA BHARAT**

**ENVIRONMENTAL INFORMATION SYSTEM, RESOURCE PARTNER**  
**CONSUMER EDUCATION AND RESEARCH CENTRE**  
**AHMEDABAD, INDIA**



**Ek Bharat Shreshtha Bharat** programme aims to enhance interaction & promote mutual understanding between people of different states/UTs through the concept of state/UT pairing. The states carry out activities to promote a sustained and structured cultural connect in the areas of language learning, culture, traditions & music, tourism & cuisine, sports and sharing of best practices etc.

To incorporate the activities related to Ek Bharat Shreshtha Bharat Scheme, we were linked with Chhattisgarh Environment Conservation Board, ENVIS's Hub to disseminate environmental information through various activities.

Consumer Education and Research Centre, ENVIS's Resource partner on "Environment Literacy –Eco-labeling & Eco-friendly Products" in collaboration with Chhattisgarh Environment Conservation Board ENVIS's hub on 'Status of Environment and Related Issues' conducted following activities between April to June month:

- A. Webinar
- B. Open Online Quiz
- C. Short video/GIF/ Photo collage online competition

### **A. WEBINAR on "Ek Bharat Shreshtha Bharat"**

Consumer Education and Research Centre, ENVIS's Resource partner in collaboration with Chhattisgarh Environment Conservation Board ENVIS's hub conducted a webinar via Google meet, a virtual platform on 30th of April, 2021 between 03:00 PM to 4.30 PM. It was made live on Facebook from our official Facebook page on 'Environment Literacy- Eco Labeling & Eco Friendly Product'. A campaign poster was prepared and disseminated on all social media platforms for wider reach. <https://fb.watch/5gFxicX3Y/>

<https://www.facebook.com/NATUREBODIESECOCLUB/videos/1187007565073480>

The objective was to share information on different environmental themes and to connect with people of different region under 'Ek Bharat Shreshtha Bharat' Programme. Our first Speaker was Ms. Anindita Mehta, Project Coordinator and CGM CERC who spoke on "Ek Bharat Swasth Bharat". She addressed the audience on Salt Iodization and its benefits for Swasth Bharat. Next, Ms. Chinmayi Hemani, Climate Change & Sustainability professional and founder of RuChiNi Environment Sustainability Planners spoke on Sustainable living for 'Ek Bharat Shreshtha Bharat'. She explained how we, humans can contribute to make this planet a better place to live. Our third invited speaker, Mr. Panu Halder, Eco Clubs Dist. Coordinator, Bilaspur, Chhattisgarh spoke on Biodiversity Conservation. He covered an integral part of biodiversity conservation and shared his experience on working in the regions of Chhattisgarh. Our fourth speaker, Mr. Mr. Satish Upadhyay, District coordinator, National Green corps, Korea District, Chhattisgarh spoke on Biodiversity Conservation and wetlands. He explained its importance and the methods to do it and how youngsters are involved in these practices. The numbers of participants were 30 and views on Facebook were 47. **(Annexure 1)**

## B. Open Online Quiz

Consumer Education and Research Centre, ENVIS Resource Partner in collaboration with Chhattisgarh Environment Conservation Board, ENVIS's Hub conducted an open ONLINE QUIZ on Sustainable Practices and Environment for self-awareness.



The aim was to raise awareness about sustainable practices and the environment that encourage resource conservation. Through this activity, we are also promoting to change the unsustainable ways into more sustainable ones for economic well-being of the present and future generation and to maintain a healthy environment.

We created a google form (<https://bit.ly/3oIY4wY>) and shared the link on all social media platforms.

Facebook:

<https://www.facebook.com/EcoProductsEcoLabeling/photos/a.327275830718482/4117172918395402/>

Twitter: [https://twitter.com/cerc\\_envis/status/1395663114503213058](https://twitter.com/cerc_envis/status/1395663114503213058)

The total participants for the quiz were 35.

Please find the results for the same in **Annexure II**

## C. Short video/ GIF/ Photo collage Online Competition

To promote sustainable living, we are conducting a short video/ GIF/ Photo online competition on 'Your Contribution towards Sustainable Living'. We created a link for registration of entries using google form: <https://bit.ly/3goH7Ff>. A campaign poster was prepared providing all information regarding the completion and was disseminated on all social media platforms for wider reach. The activity is on-going and the last date of submission is 30<sup>th</sup> June.

Facebook: <https://www.facebook.com/EcoProductsEcoLabeling/photos/a.327275830718482/4189115451201148/>

Twitter: [https://twitter.com/cerc\\_envis/status/1404773138785734657](https://twitter.com/cerc_envis/status/1404773138785734657)

MoEF&CC's Environmental Information System, Resource Partner on 'Environment Literacy- Eco-friendly Labeling & Eco-friendly Products'

Consumer Education and Research Centre

**EK BHARAT SHRESHTHA BHARAT**

Short Video/ GIF/ Photo Collage Online Competition

*THEME: Your Contribution Towards Sustainable Living*

**Last for Submission: 30<sup>th</sup> JUNE 2021**

How to Submit:

1. Prepare a short video/ GIF/Photo collage on the given theme
2. Fill the details and submit your entry on the following link:

<https://bit.ly/3goH7Ff>

Winners will be felicitated with e-certificates and showcased on our official social media platforms.

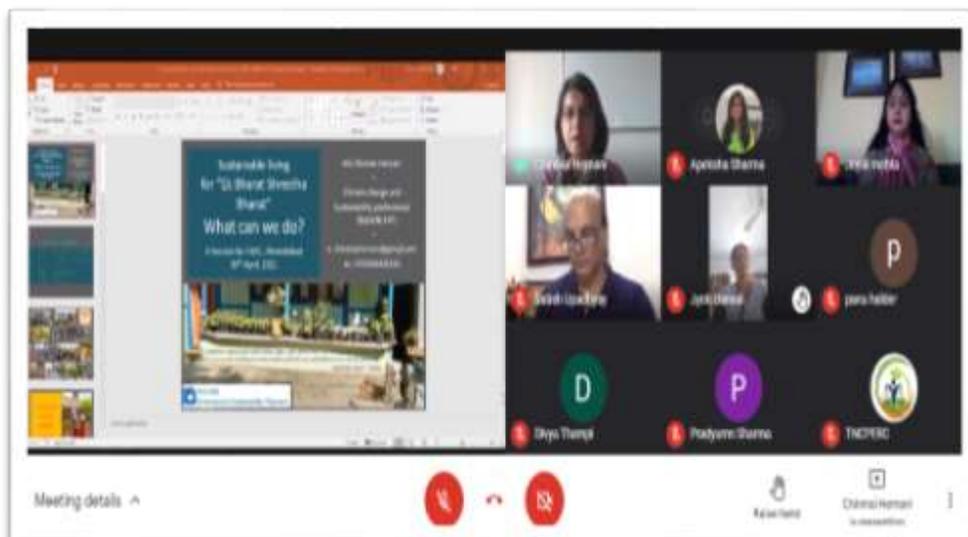
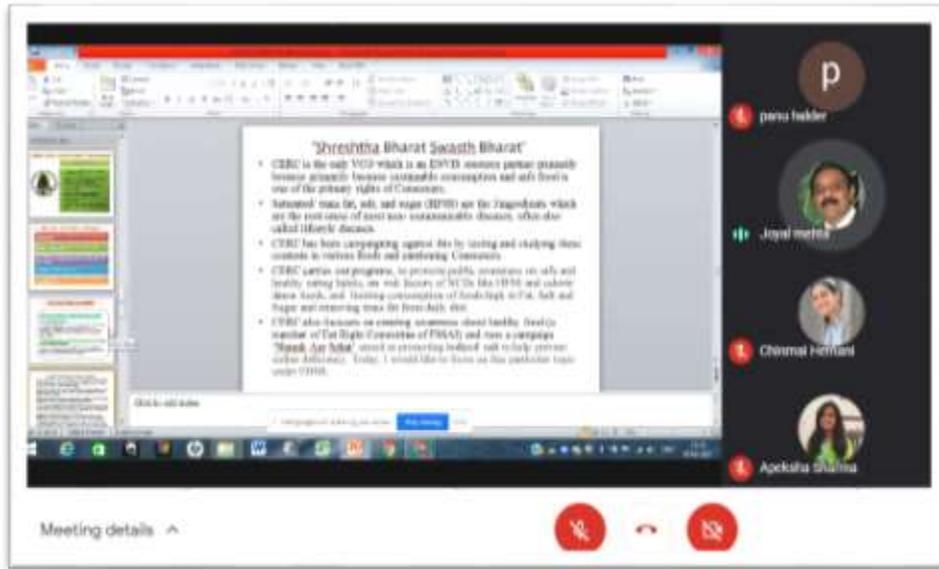
For any queries please contact us at [cerc-env@nic.in](mailto:cerc-env@nic.in)

Website: [www.cercenvis.nic.in](http://www.cercenvis.nic.in)

Note: File size should not exceed more than 10 MB

@cerc\_envis EcoProductsEcoLabeling CERC-ENVIS

# ANNEXURE I

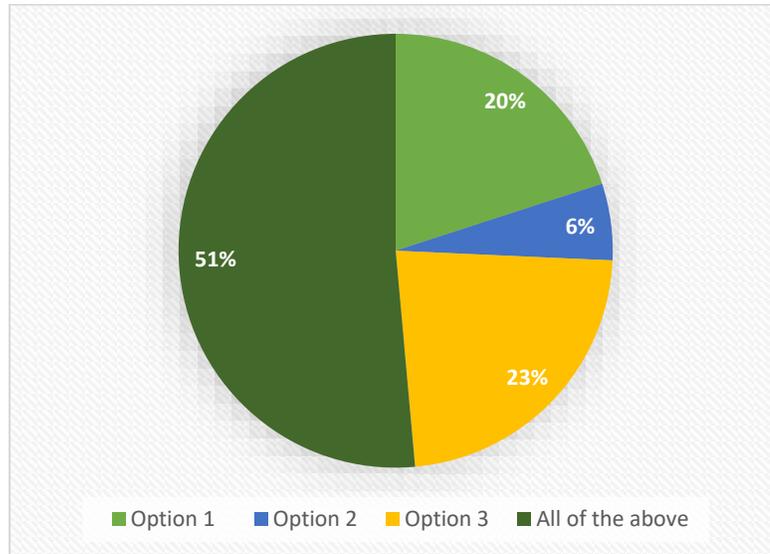


## ANNEXURE -II

I. Which of the following are recycling materials?



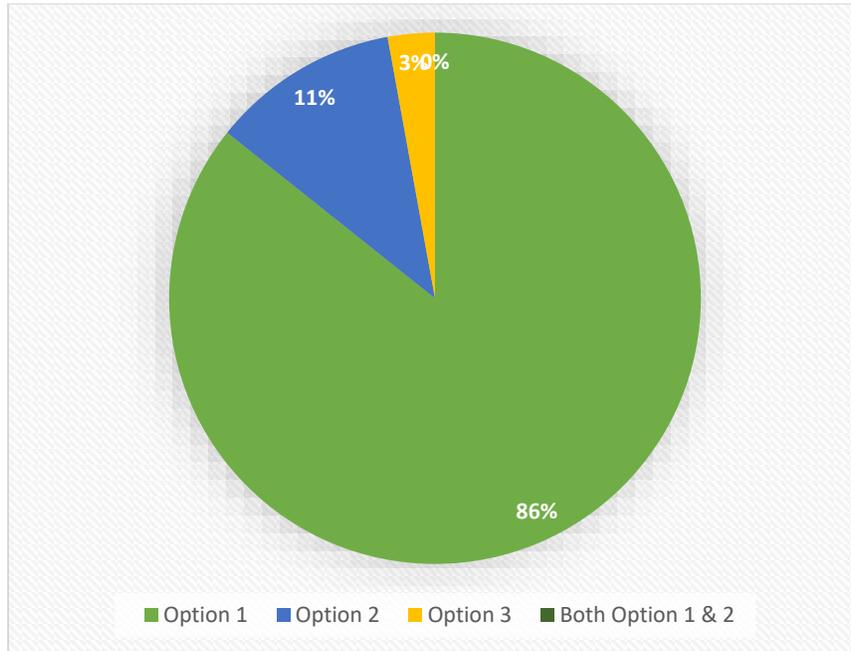
d. All of the above



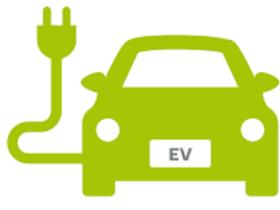
II. What type of carry bag is NOT eco-friendly?



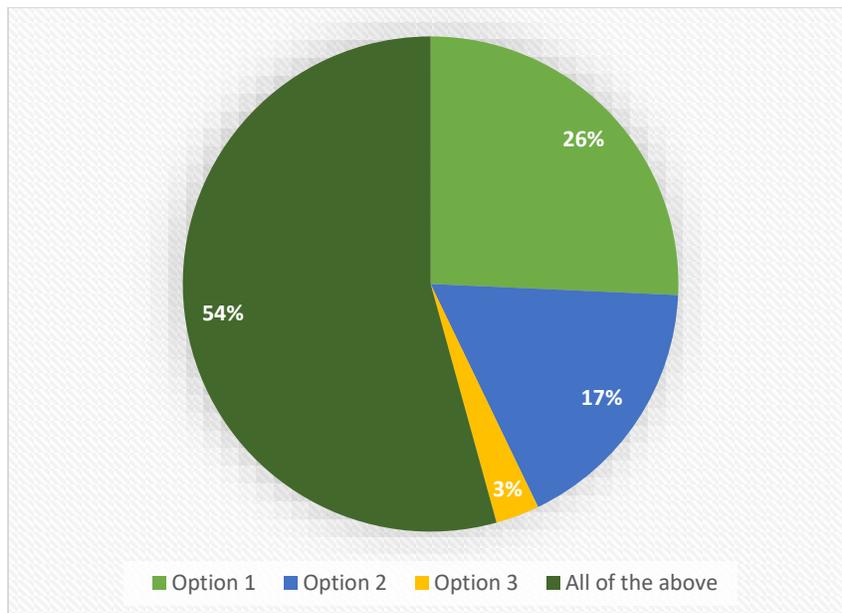
d. Both Option 1 and 2



III. Which of the following is the example of “Green Transport” ?



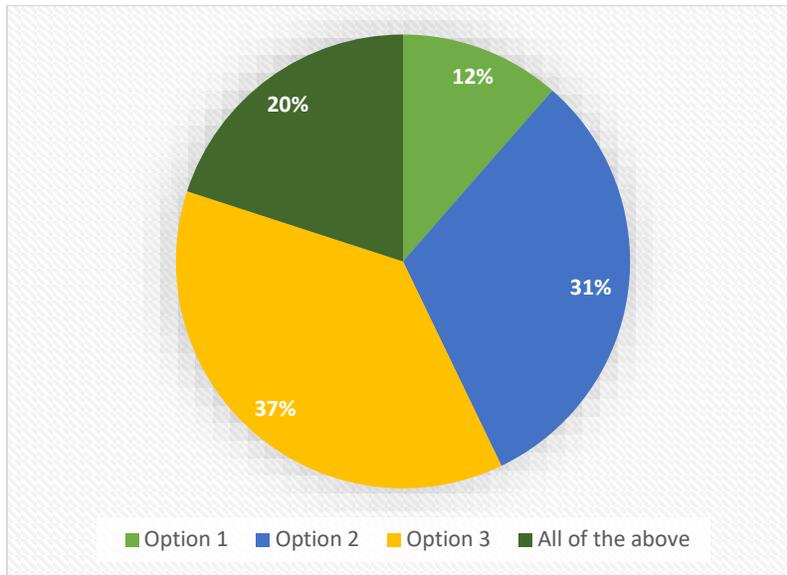
d. All of the above



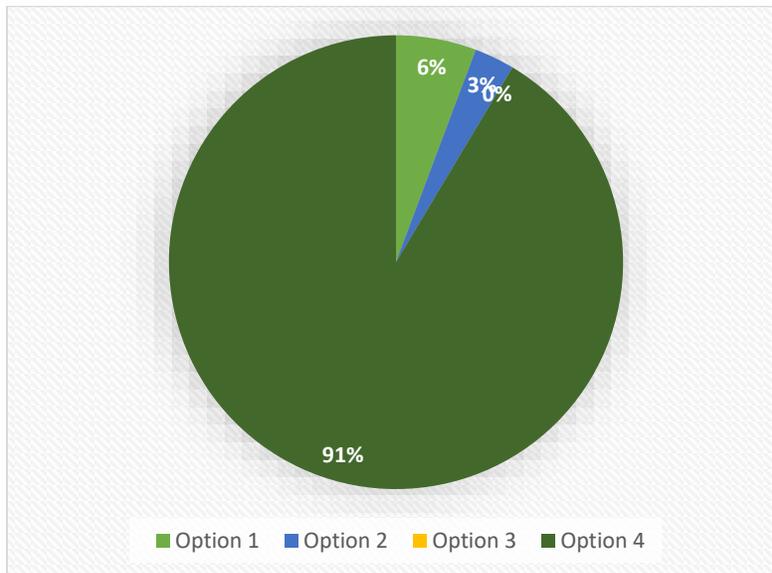
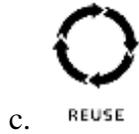
IV. In which way appliances that are turned off don't use any electricity.



d. All of the above



V. Which of the following is NOT a sustainable practice?



VI. What are the different ways to reuse waste RO water ?



a.

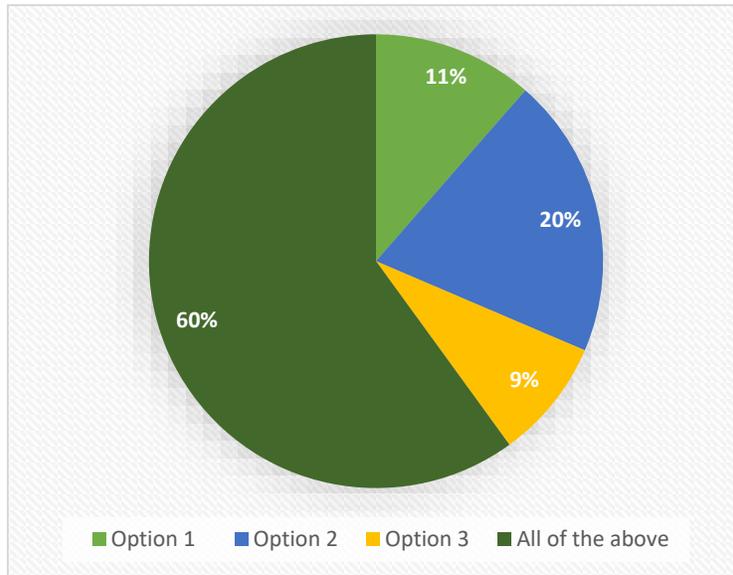


b.



c.

d. All of the above



VII. Which of the following is considered as biodegradable waste?



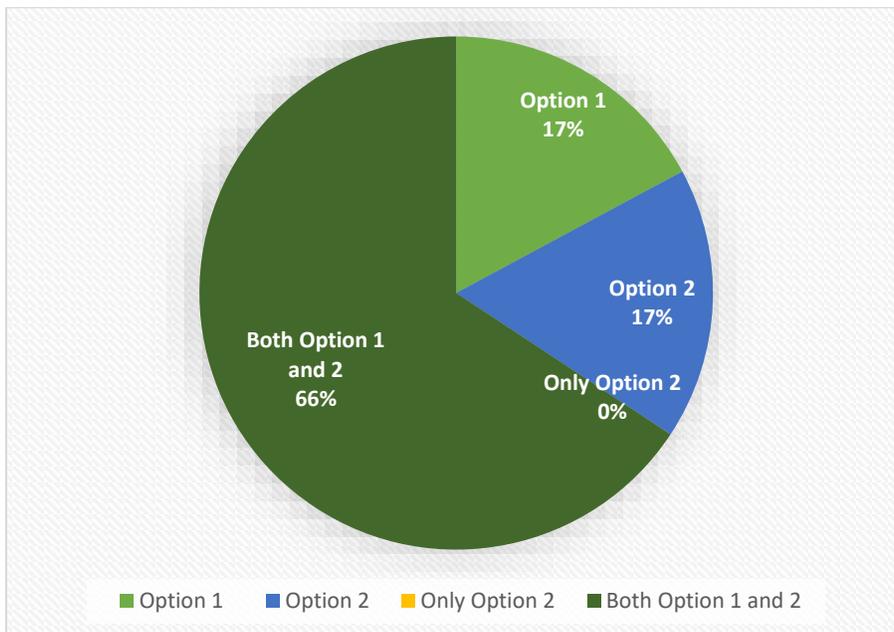
a.



b.

c. Only Option 1

d. Both Option 1 and 2



VIII. Which of the following are the ways to save water at home?



a.

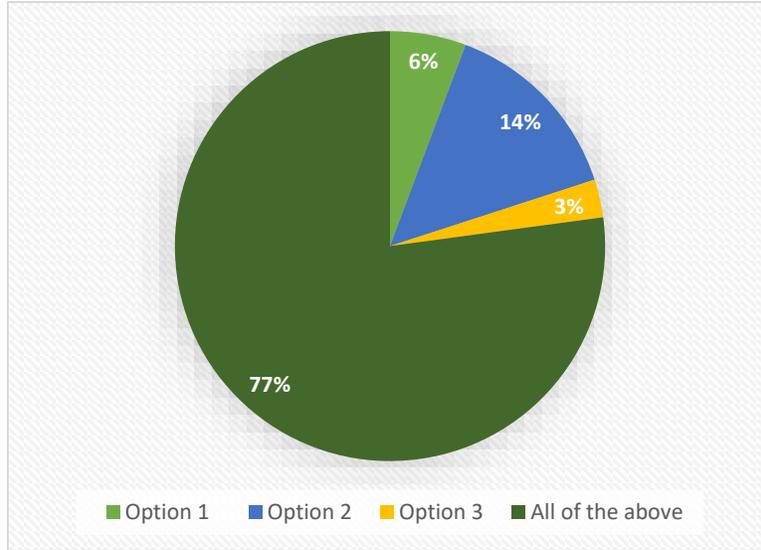


b.



c.

d. All of the above



IX. Which of the following is an incorrect match?



a.

Food



b.

Forest



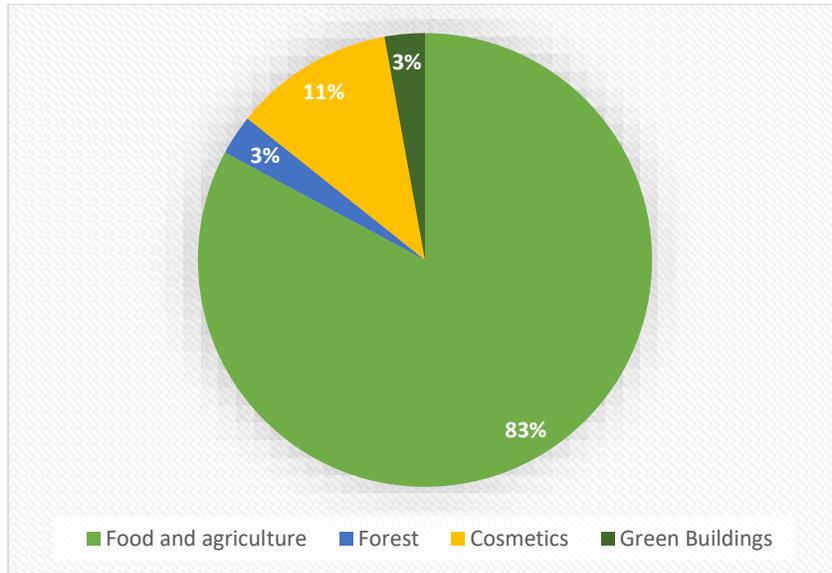
c.

Cosmetic



d.

Green Buildings



X. A sustainable city includes:



a.

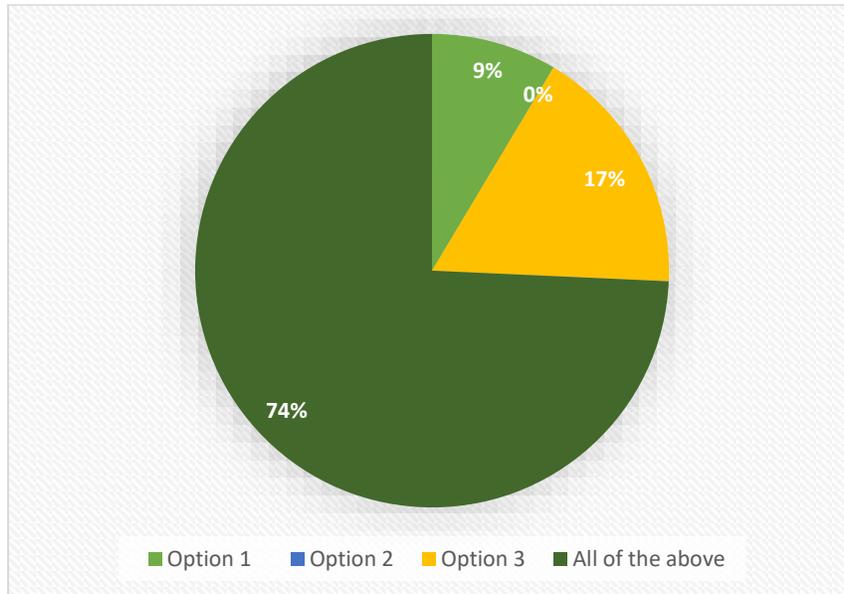


b.



c.

d. All of the above



### XI. Mercury and lead are toxic elements that cause?



a.

Noise Pollution



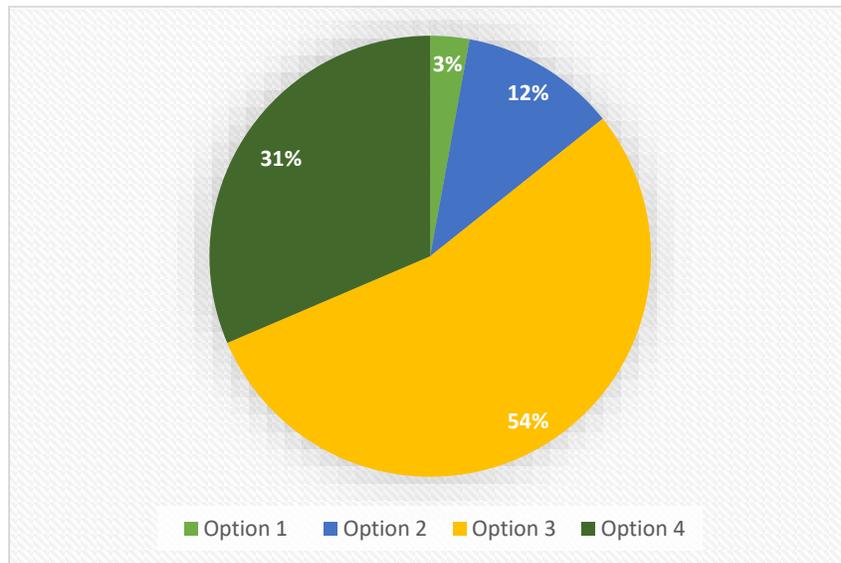
b.



c.

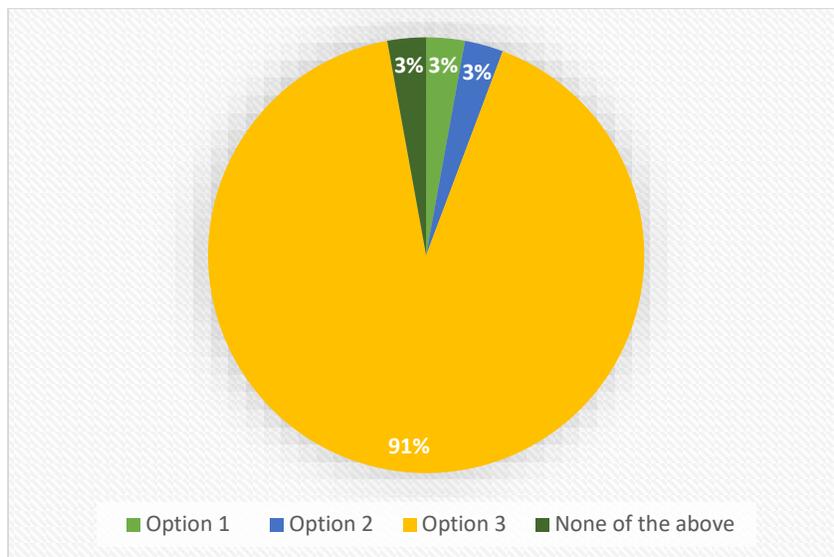


d.

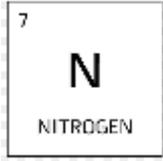


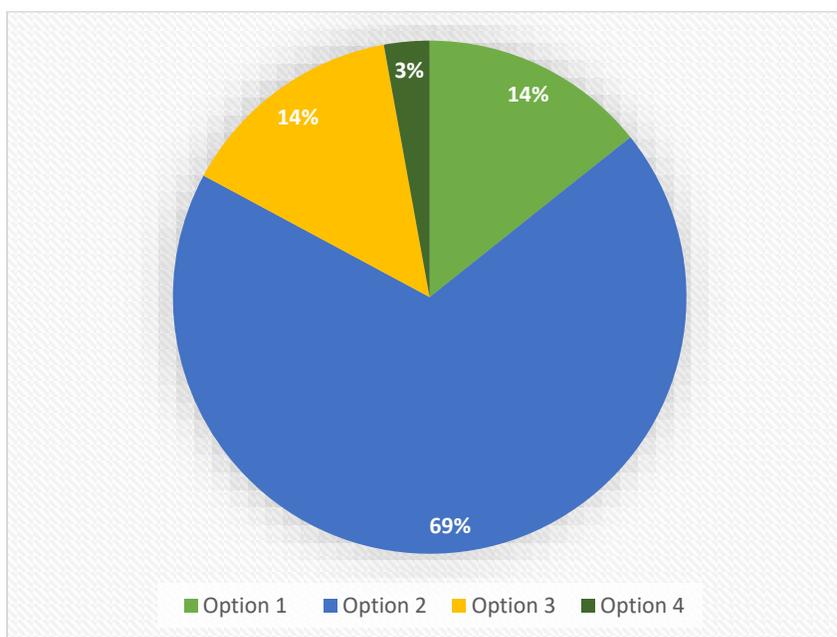
### XII. Which of the following is the primary causes of water pollution?

- a.  b.  c.  d. None of these

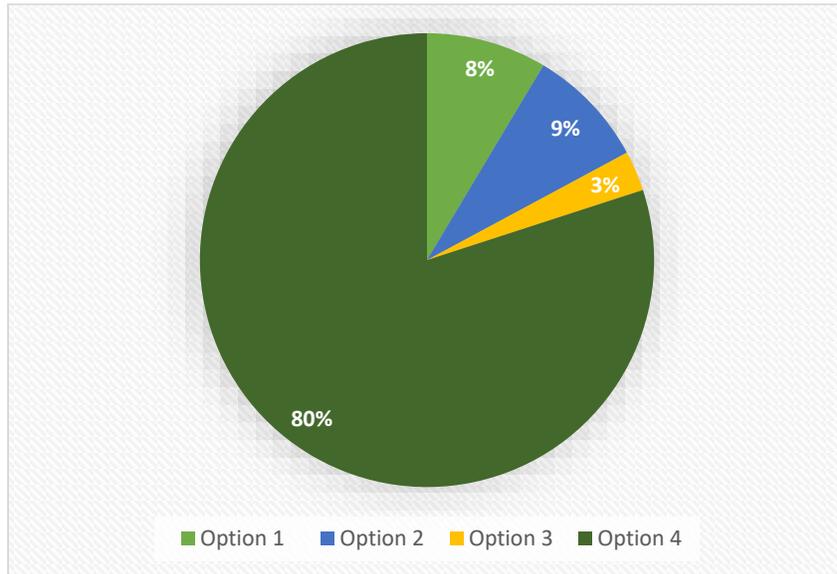
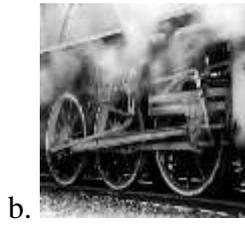


XIII. Which of the following gas is more in percentage in the air?

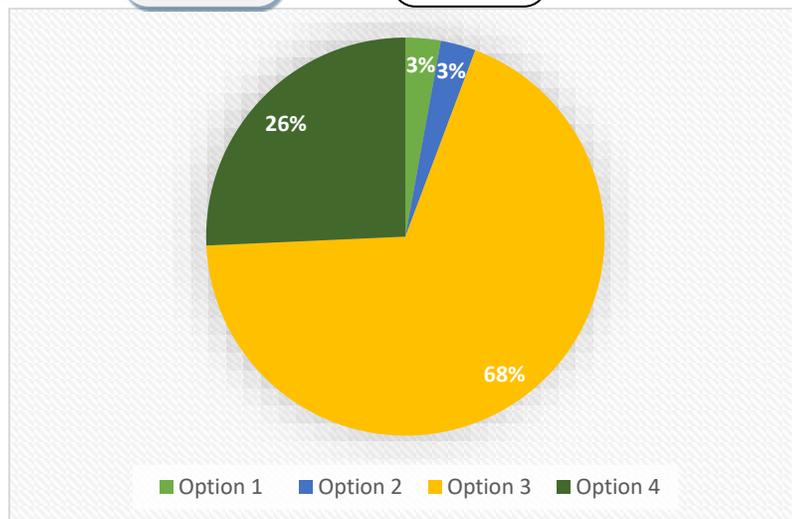
- a.  b.  c.  d. 



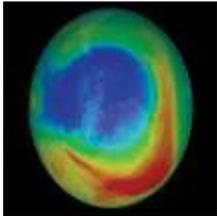
XIV. Which of the following emits CFC in environment?



XV. What is the color of the ozone gas?



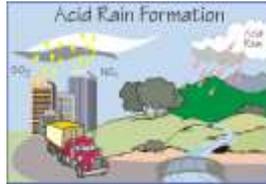
XVI. Which of the following is the cause of soil pollution?



a.

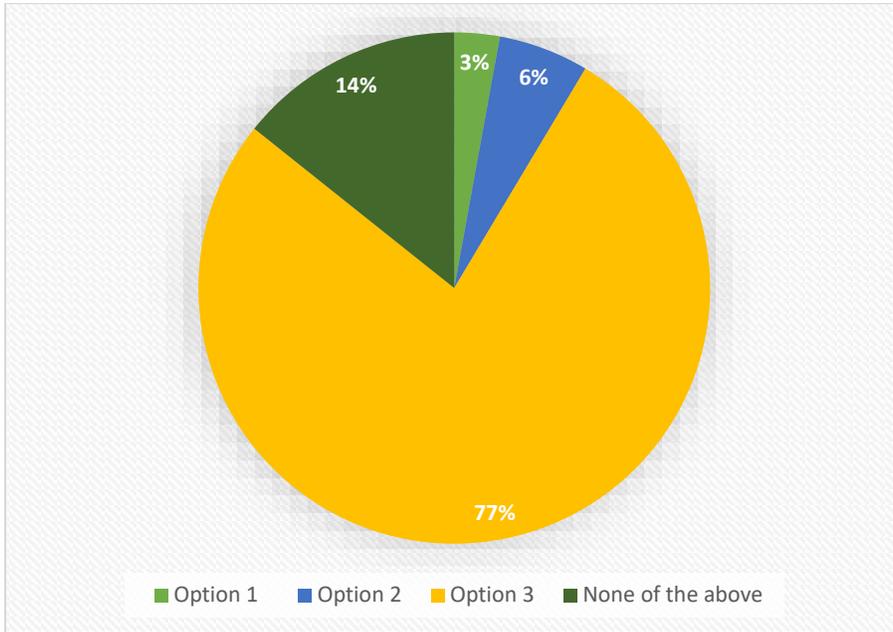


b.



c.

d. None of the above



XVII. Which of the following is a renewable source of energy?



a.

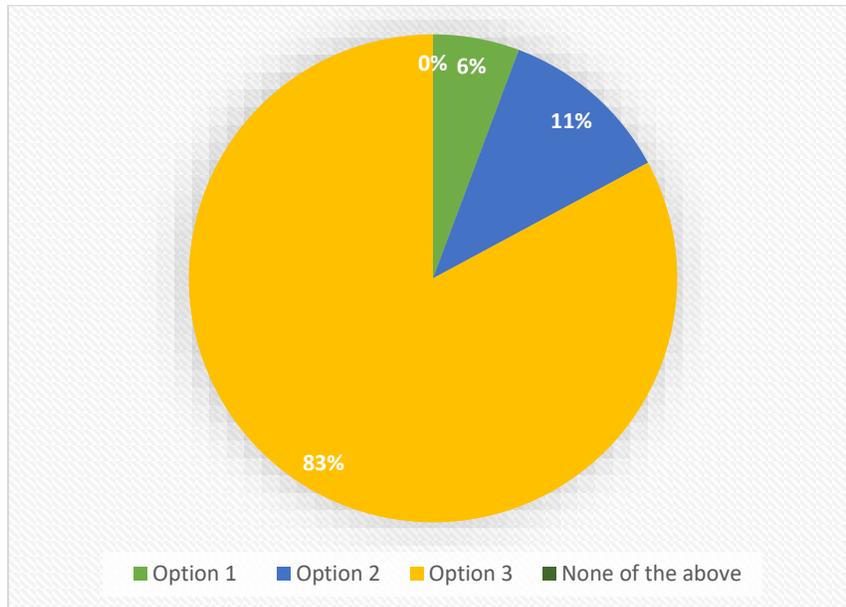


b.



c.

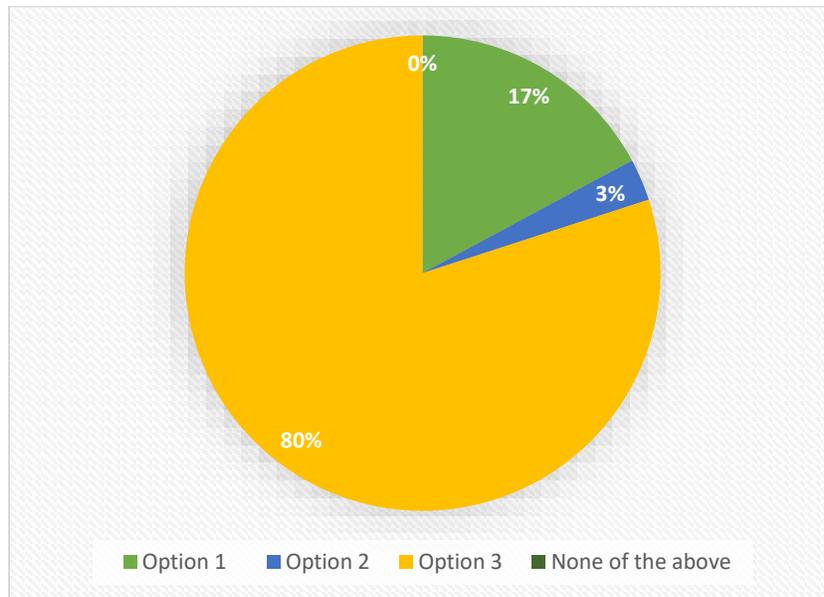
d. None of the above



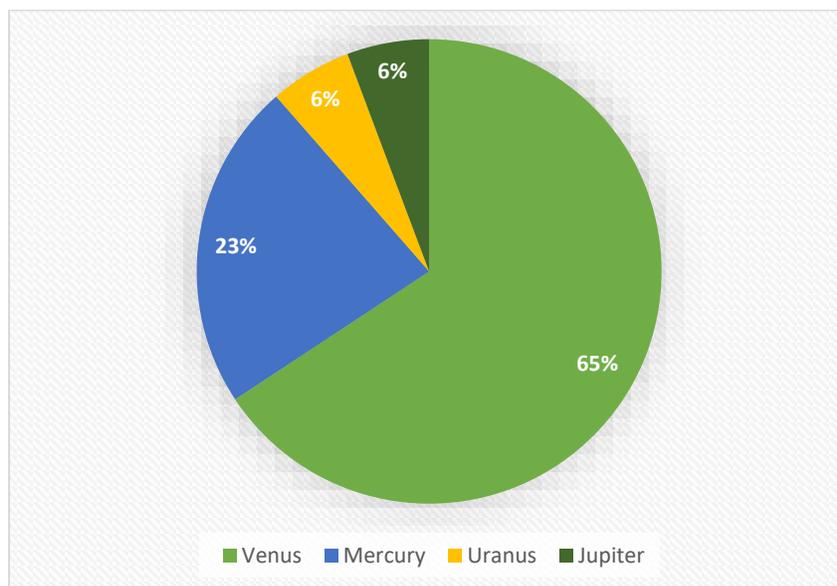
XVIII. Which of the following is said to be a biodegradable waste?



d. None of the above

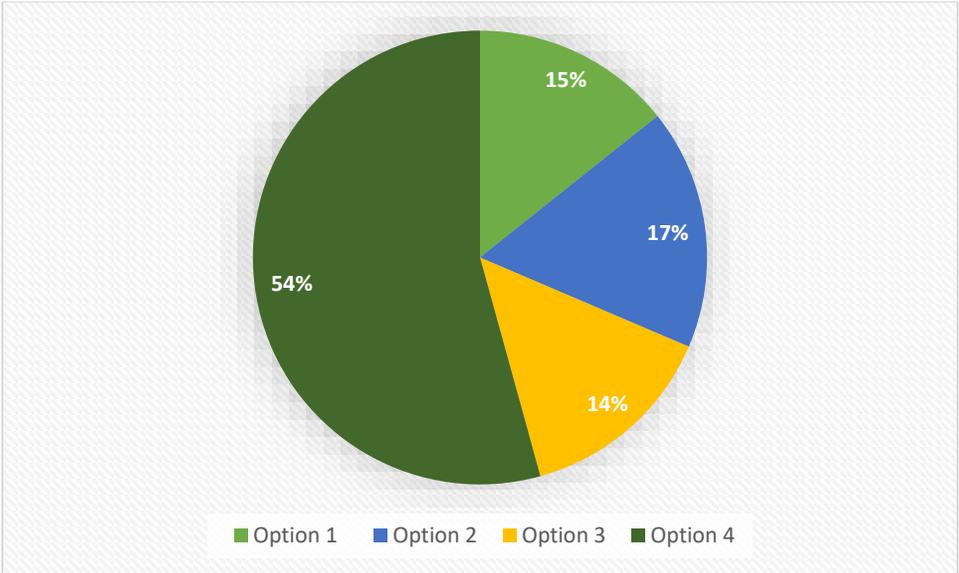


XIX. Which of the following is the hottest planet of the solar system?



XX. The year declared as the "water year" by the Indian Government is –

a.2010 b. 2005 c.2006 d.2007



-----X-----



# **CECB ENVIS HUB**

## **Report of Ek Bharat Shreshtha Bharat**

**First Quarter(April-June 2021)**

Ek Bharat Shreshtha Bharat Programme aims to enhance interaction & Promote mutual understanding between people of different States/UT's through the concept of State/UT's pairing. The State carry out activities to promote a sustained and structured cultural connect in the areas of language learning, culture , traditions & music ,tourism & cuisine and sharing of best practices etc.

To incorporate the activities related to Ek bharat Shreshtha Bharat Scheme CECB Envis Hub linked with CERC Envis RP of Gujarat State to disseminate Environmental Information through the series of activities.

**Webinar on Ek Bharat Shreshtha Bharat**

**Quiz on Sustainable Practices & Environment**

## **Webinar on Ek Bharat Shreshtha Bharat**

Chhattisgarh Environment Conservation Board Envis Hub in collaboration with Consumer Education and Research Centre Envis Resource partner on “Environment Literacy – Eco Labeling & Eco Friendly Products” conducted a webinar under ‘Ek Bharat Shreshtha Bharat’ Programme.

It was held on Google meet, a virtual platform on 30<sup>th</sup> April Between 03:00 PM to 04:30 PM. It was made live on facebook from official page.

The objective was to share information on different environmental themes and to connect with people of different region under ‘Ek Bharat Shreshtha Bharat’ Programme. The Speakers were MS Anindita Mehta, Project Coordinator and CGM CERC and her topic was ‘Ek Bharat Swastha Bharat’. She addressed the audience on salt iodization and its benefits for swastha bharat. Next speaker was Ms. Chinmayi Himani ,Climate Change & Sustainability professional and founder of Ruchini Environment Sustainability planners spoke on living for ‘ Ek Bharat Shreshtha Bharat’. She explained how we humans can contribute to make this planet a better place for living. Third speaker was Mr. Panu Halder Environmentalist & Eco Club Coordinator , Bilaspur ,Chhattisgarh spoke on Biodiversity Conservation.He Covered an integral part of biodiversity conservation and shared his experience on working in the regions of Chhattisgarh. Next Speaker was Mr. Satish Upadhyay, District Coordinator, National Green Corps, Korea District , Chhattisgarh spoke on Biodiversity Conservation and wetlands. He Explained its importance and the methods to do it and how youngsters are involved in these practices.

# ANNEXURE I



## Webinar on EK BHARAT SHRESHTHA BHARAT

### Speakers



Ms. Anindita Mehta, CGM CERC & Project Coordinator, CERC ENVIS, Ahmedabad  
Topic : Swasth Bharat Shreshtha Bharat



Ms. Chinmai Hemani  
Climate change and Sustainability professional and founder of RuChiNi Environment Sustainability Planners  
Topic : Sustainable living for 'Ek Bharat Shreshtha Bharat'



Mr. Panu Halder, Eco Clubs District Coordinator, Bilaspur, Chhattisgarh  
Topic : Biodiversity Conservation



Mr Satish Upadhyay, District Coordinator, National Green Corps, Korea District, Chhattisgarh  
Topic : Biodiversity Conservation



30 April  
Friday



15:00 - 16:15

Join on Google meet :  
[meet.google.com/cox-oqzx-qef](https://meet.google.com/cox-oqzx-qef)



@cerc\_envis



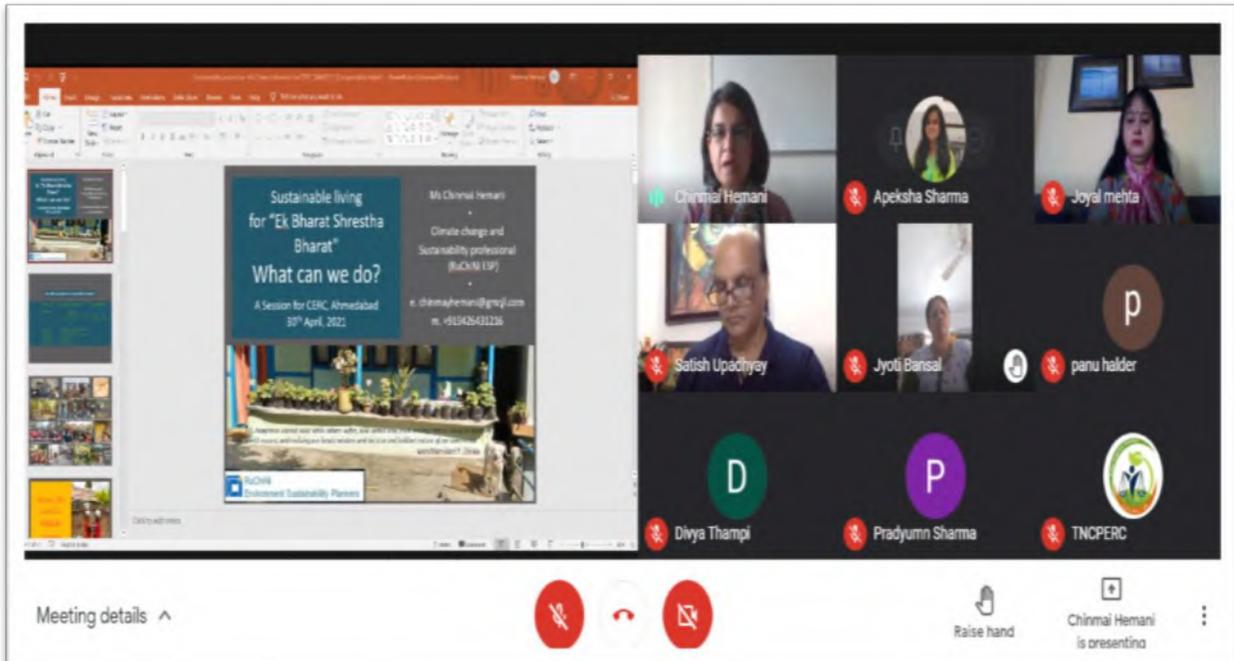
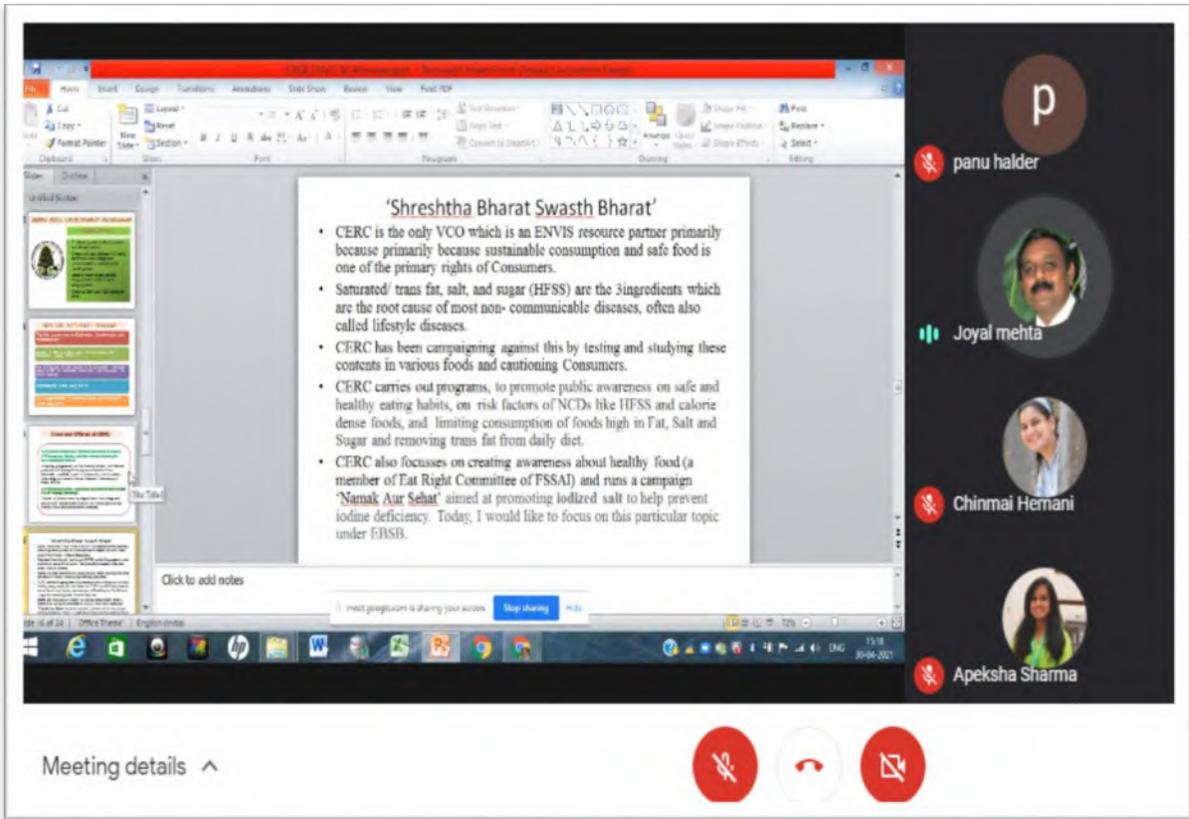
@EcoProductsEcoLabeling

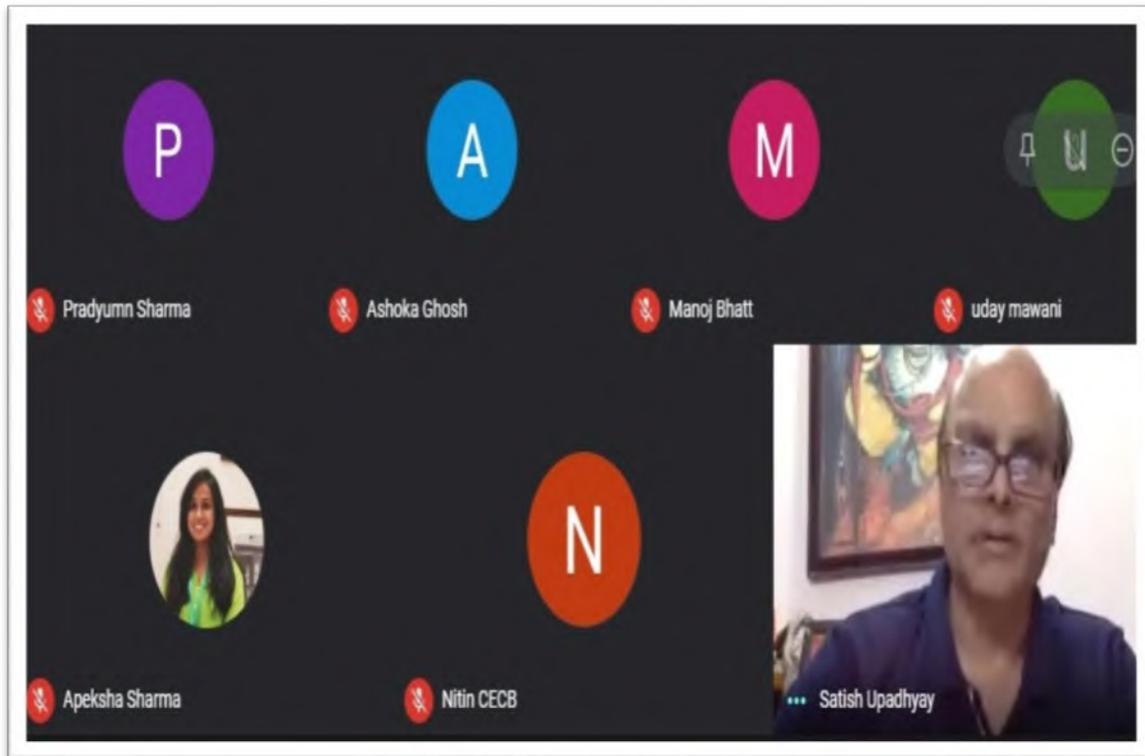
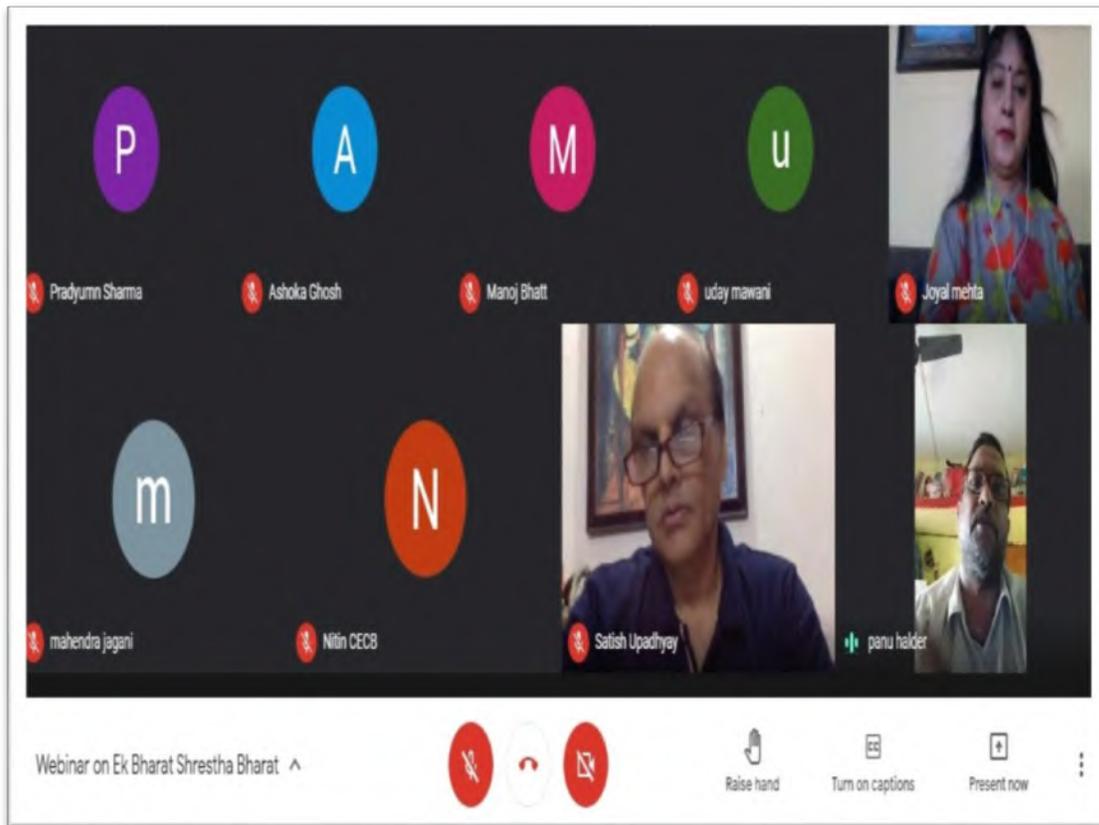


ENVIS Hub: Chhattisgarh  
Environment Conservation Board  
Status of Environment and  
Related Issues  
[www.cht-env@nic.in](http://www.cht-env@nic.in)

CERC - ENVIS RP on "Environment  
Literacy - Eco-labeling &  
Eco-friendly Products"  
[www.cercenvis.nic.in](http://www.cercenvis.nic.in)

# GALLERY





## Quiz on Sustainable Practices & Environment

To incorporate the activities related to Ek Bharat Shreshtha Bharat Scheme, Chhattisgarh Environment Conservation Board, ENVIS's Hub and CERC Envis RPl collaborated to disseminate environmental information through various activities.

Consumer Education and Research Centre, ENVIS Resource Partner on 'Environment Literacy – Eco-labelling & Eco-friendly Products' in collaboration with Chhattisgarh Environment Conservation Board, ENVIS's Hub on 'Status of Environment and Related Issues' conducted an open ONLINE QUIZ on Sustainable Practices and Environment for self-awareness under EK BHARAT SHRESHTHA BHARAT programme.



The aim was to raise awareness about sustainable practices and the environment that encourage resource conservation. Through this activity, we are also promoting to change the unsustainable ways into more sustainable ones for economic well-being of the present and future generation and to maintain a healthy environment.

We created a google form and shared the link (<https://bit.ly/3oLY4wY>) on all social media platforms.

Facebook:

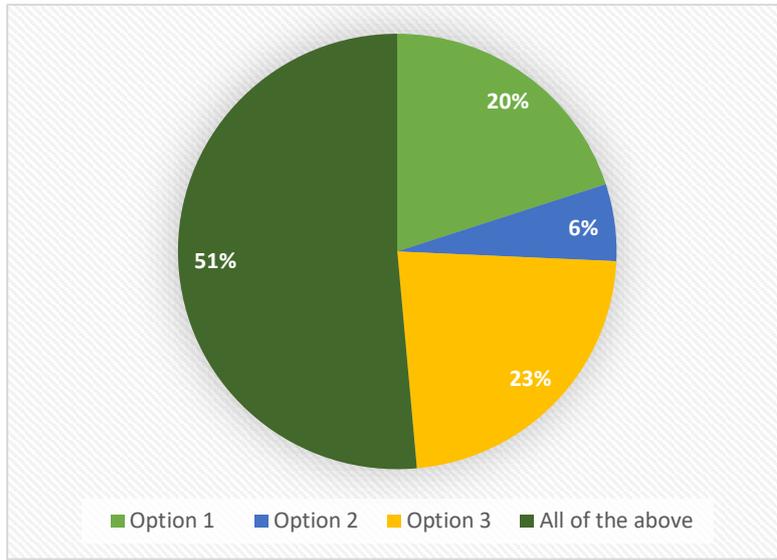
<https://www.facebook.com/EcoProductsEcoLabeling/photos/a.327275830718482/4117172918395402/>

Twitter: [https://twitter.com/cerc\\_envis/status/1395663114503213058](https://twitter.com/cerc_envis/status/1395663114503213058)

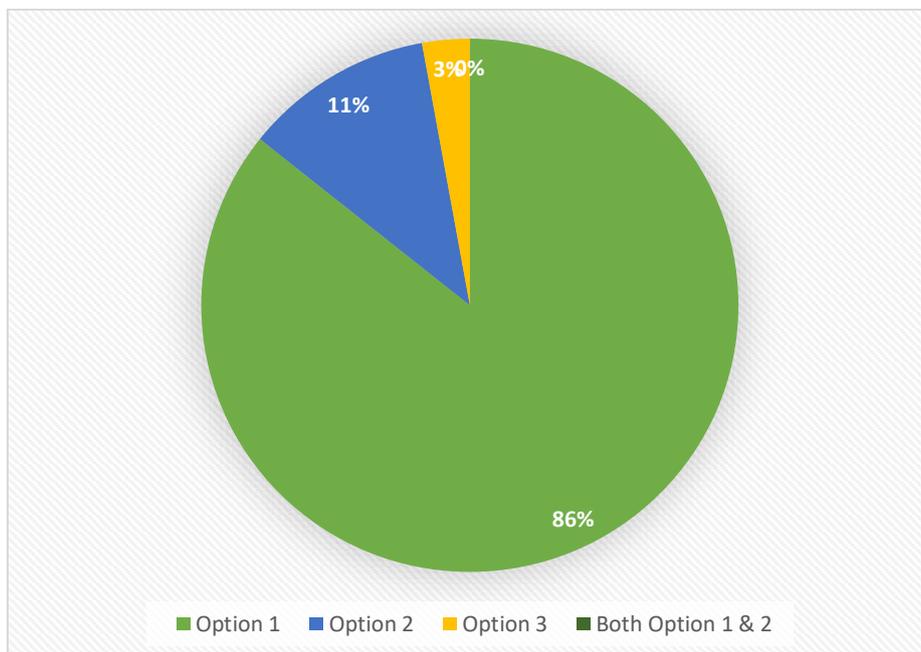
The total participants for the quiz were 35 and below is the result for the same (Annexure I)

## ANNEXURE -I

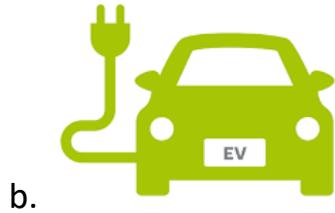
I. Which of the following are recycling materials?



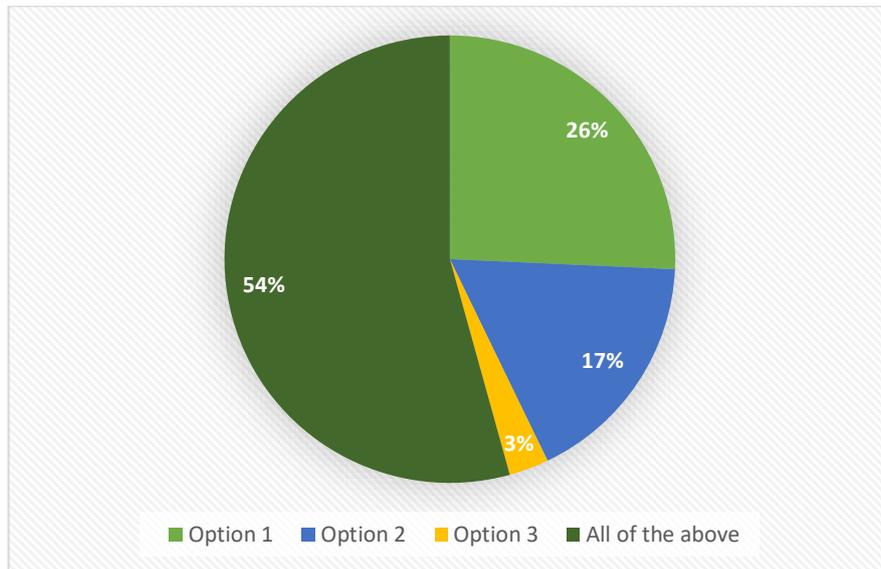
II. What type of carry bag is NOT eco-friendly?



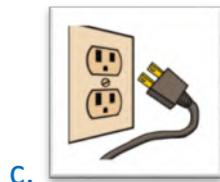
III. Which of the following is the example of "Green Transport" ?



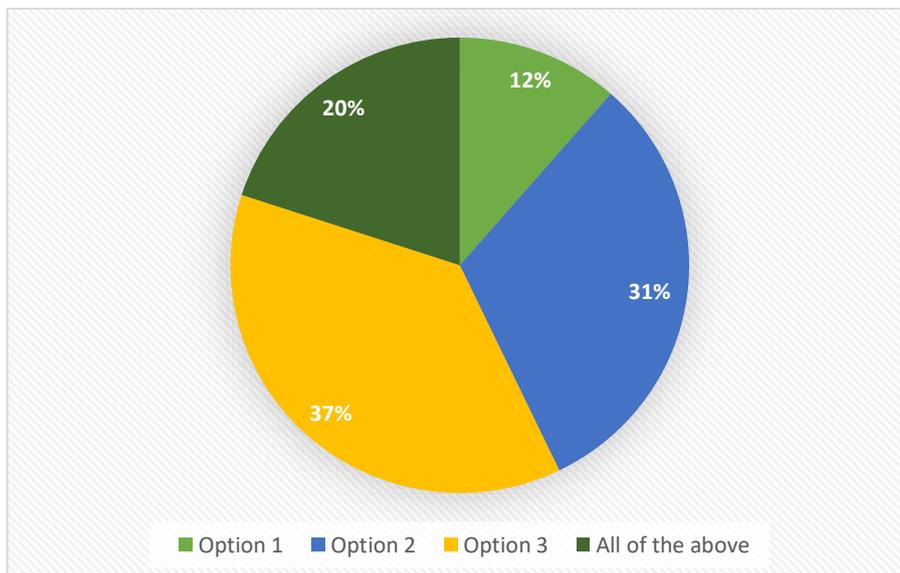
d. All of the above



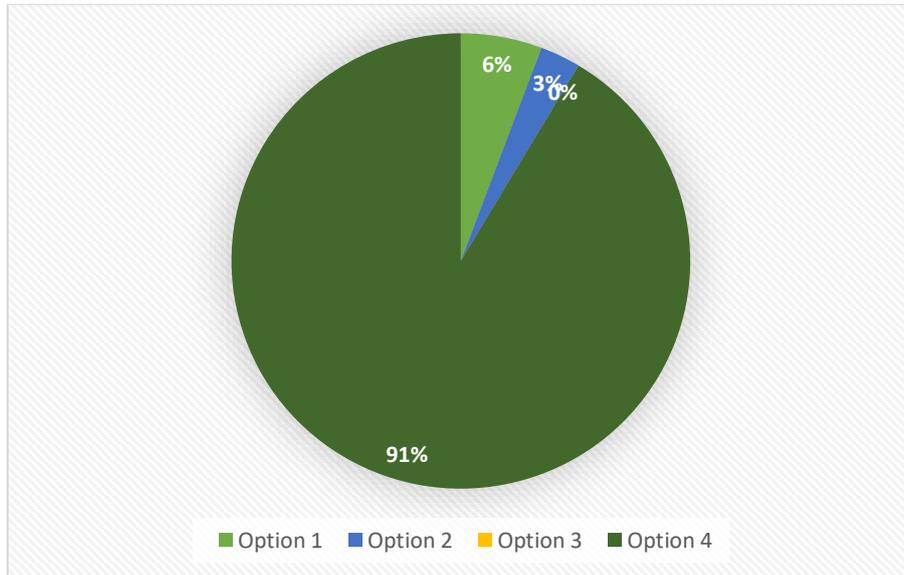
IV. In which way appliances that are turned off don't use any electricity.



d. All of the above



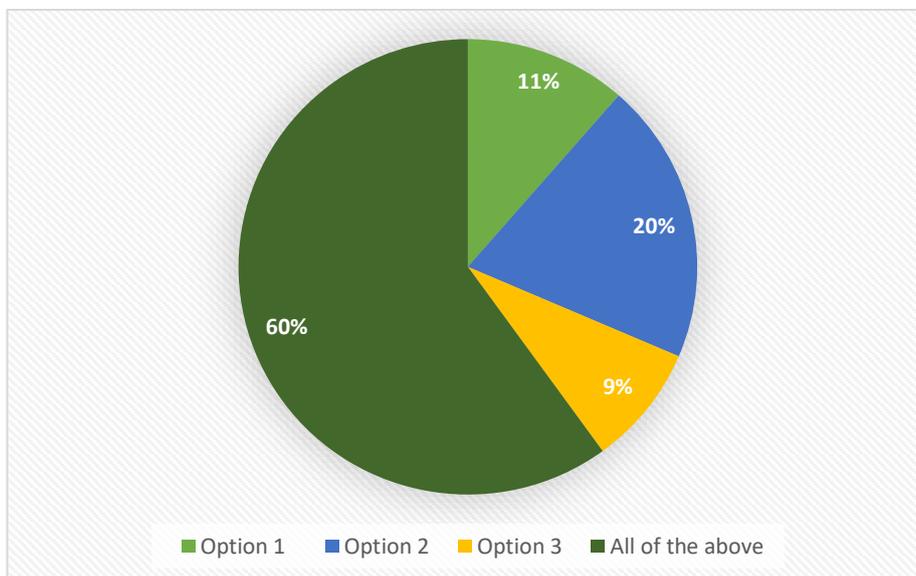
V. Which of the following is NOT a sustainable practice?



VI. What are the different ways to reuse waste RO water ?



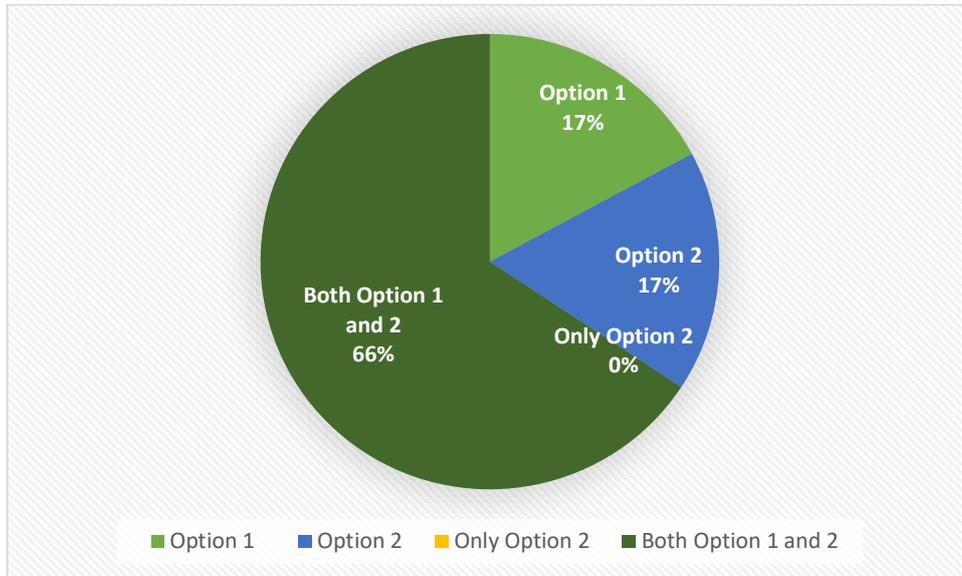
d. All of the above



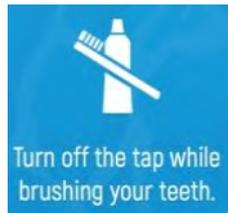
VII. Which of the following is considered as biodegradable waste?



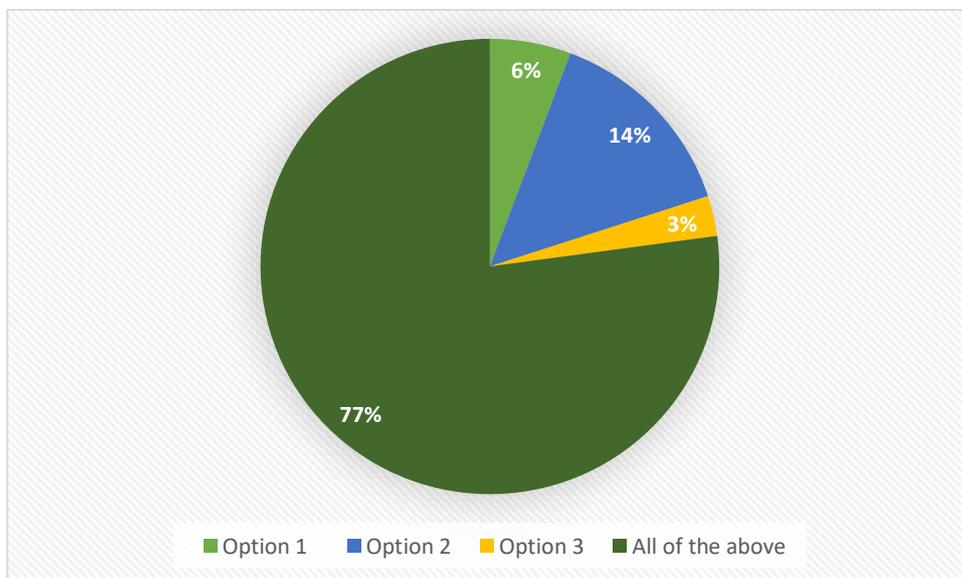
- c. Only Option 1      d. Both Option 1 and 2



VIII. Which of the following are the ways to save water at home?

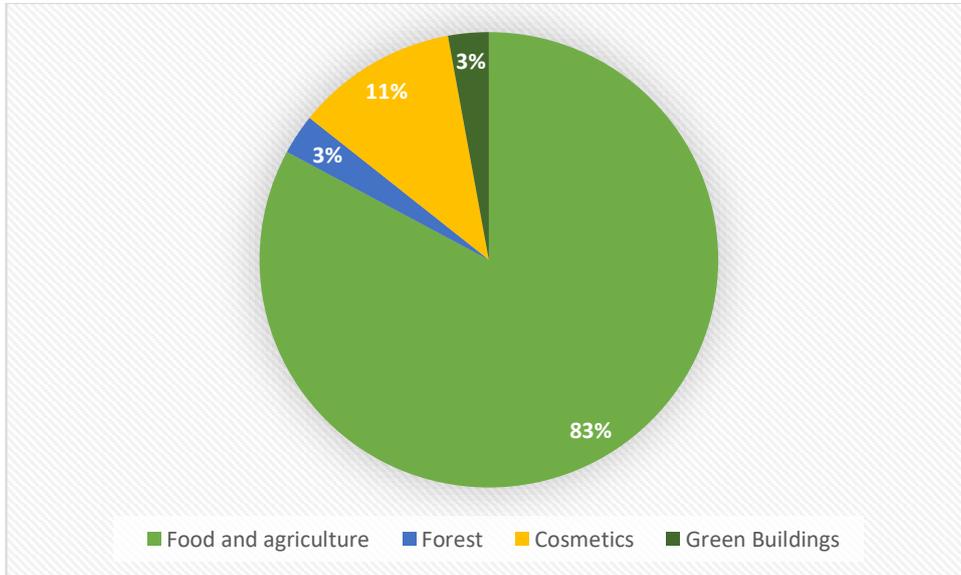


- d. All of the above



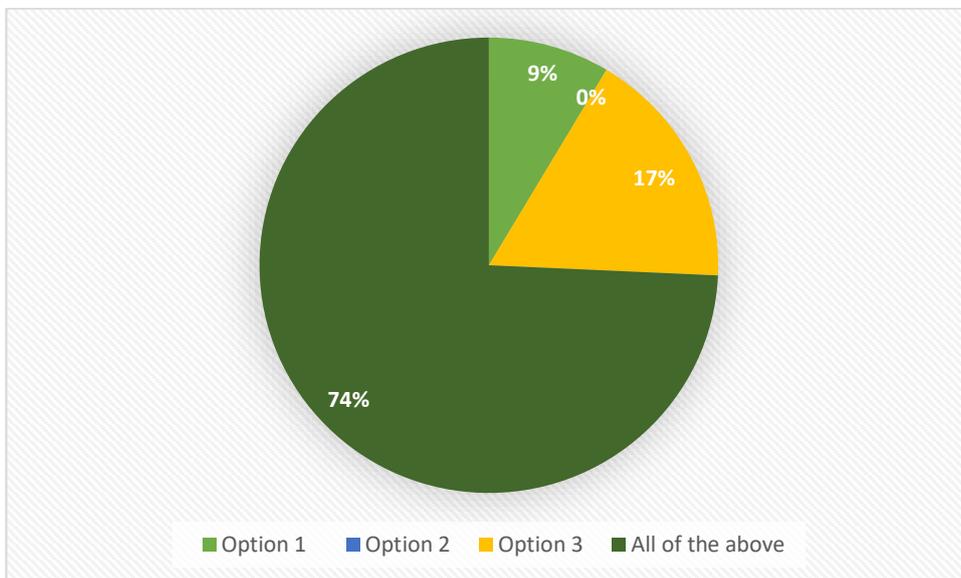
IX. Which of the following is an incorrect match?

-   
 a. bluesign®  
 Food
-   
 b. FSC  
 Forest
-   
 c.  
 Cosmetic
-   
 d. U.S. GREEN BUILDING COUNCIL  
 LEED  
 USGBC  
 Green Buildings



X. A sustainable city includes:

-   
 a.
-   
 b.
-   
 c.
- d. All of the above



XI. Mercury and lead are toxic elements that cause?



a. Noise Pollution



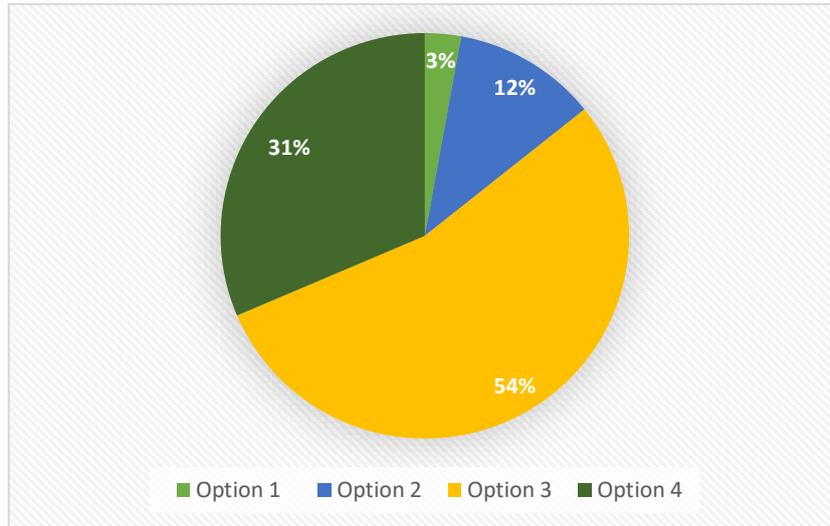
b.



c. WATER POLLUTION



d.



XII. Which of the following is the primary causes of water pollution?



a.

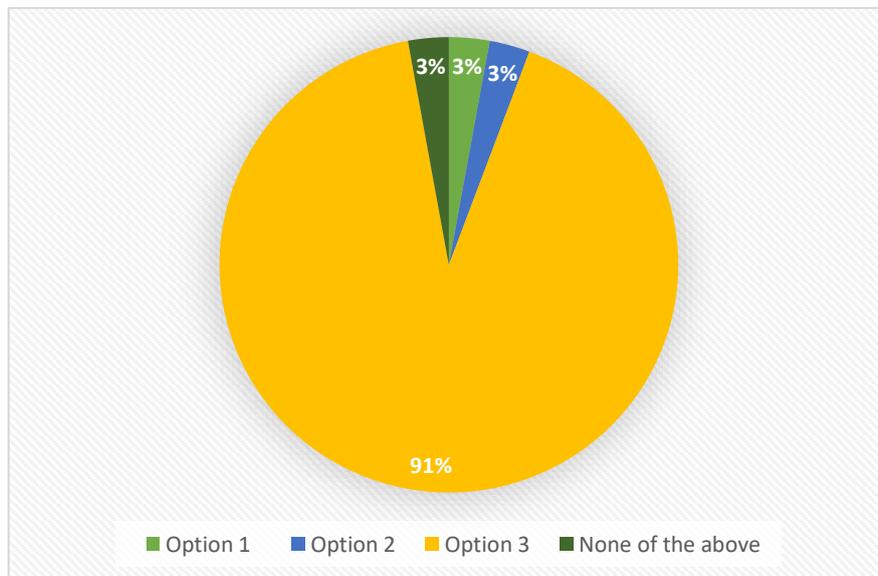


b.

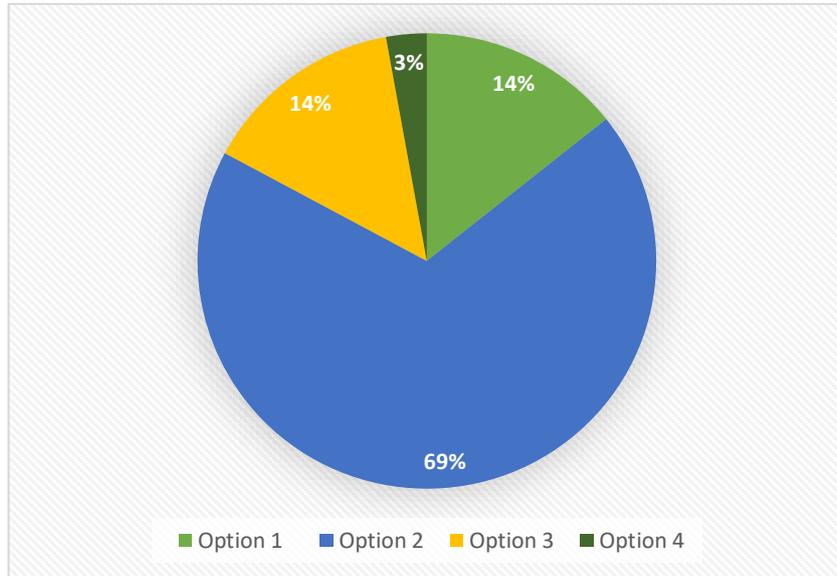
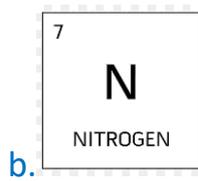


c.

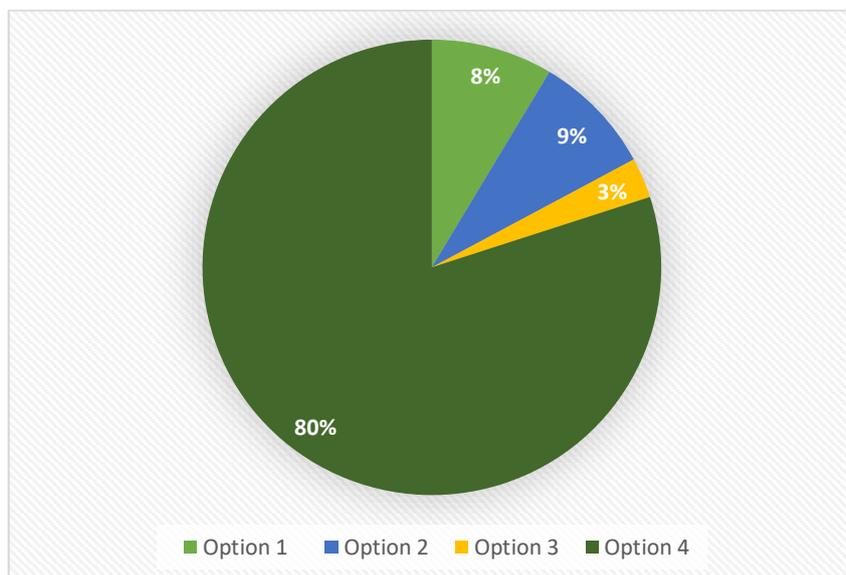
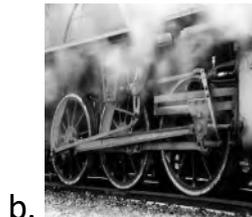
d. None of these



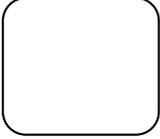
XIII. Which of the following gas is more in percentage in the air?

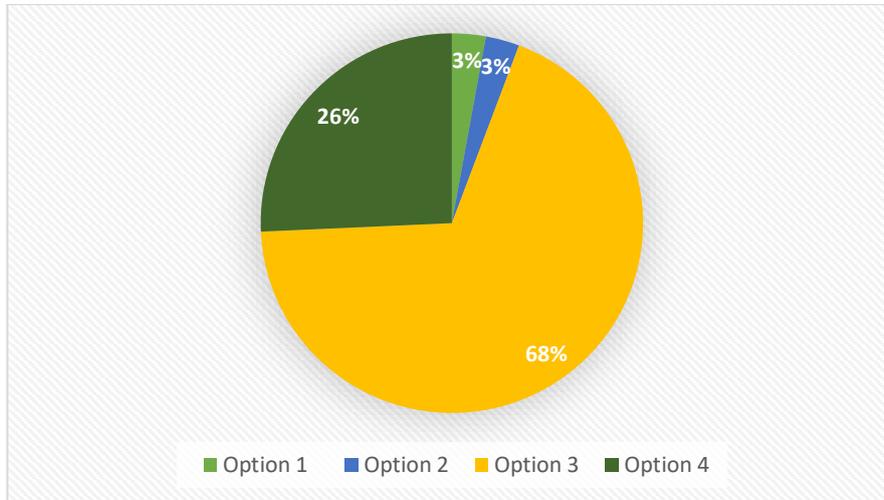


XIV. Which of the following emits CFC in environment?

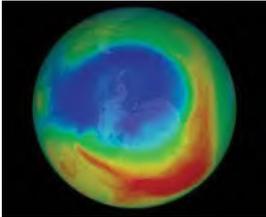
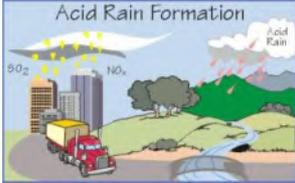


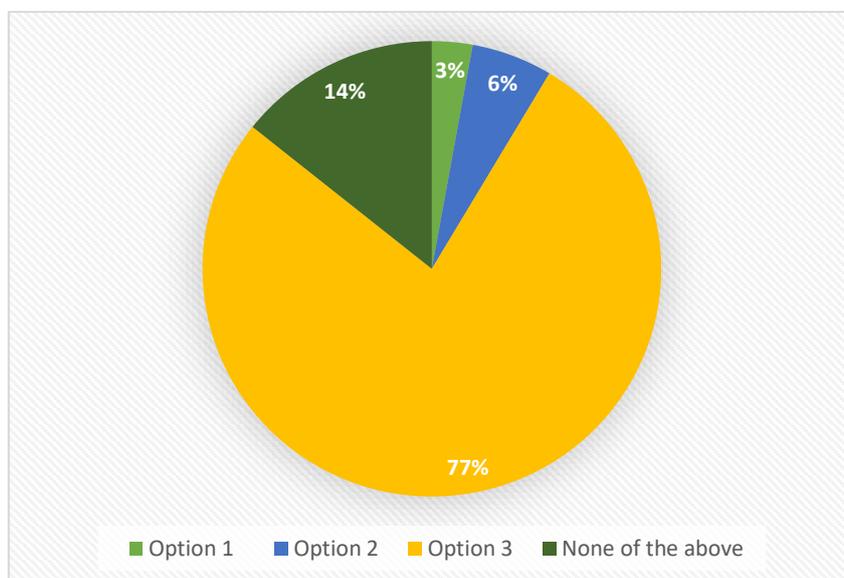
XV. What is the color of the ozone gas?

- a.  b.  c.  d. 



XVI. Which of the following is the cause of soil pollution?

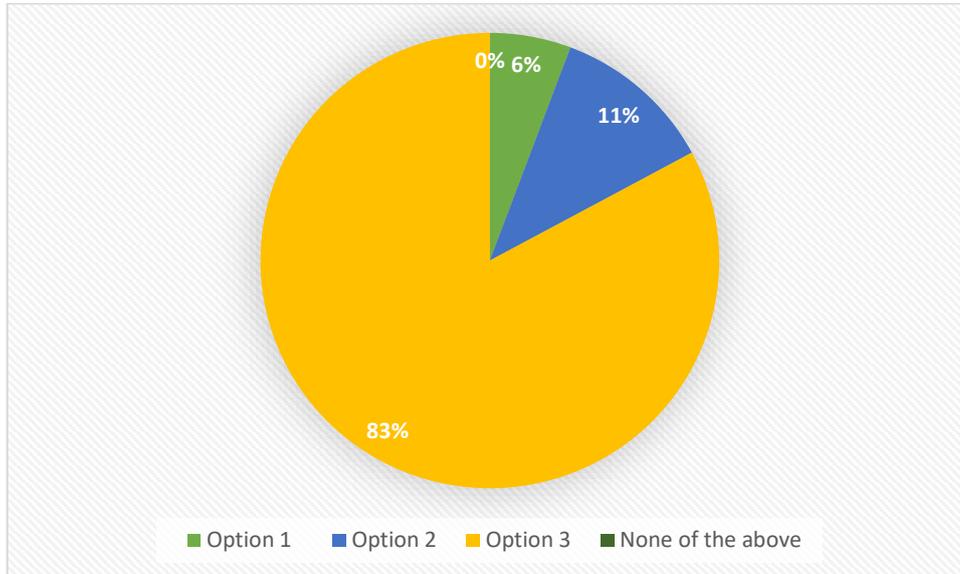
- a.  b.  c.  d. None of the above



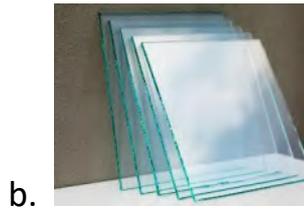
XVII. Which of the following is a renewable source of energy?



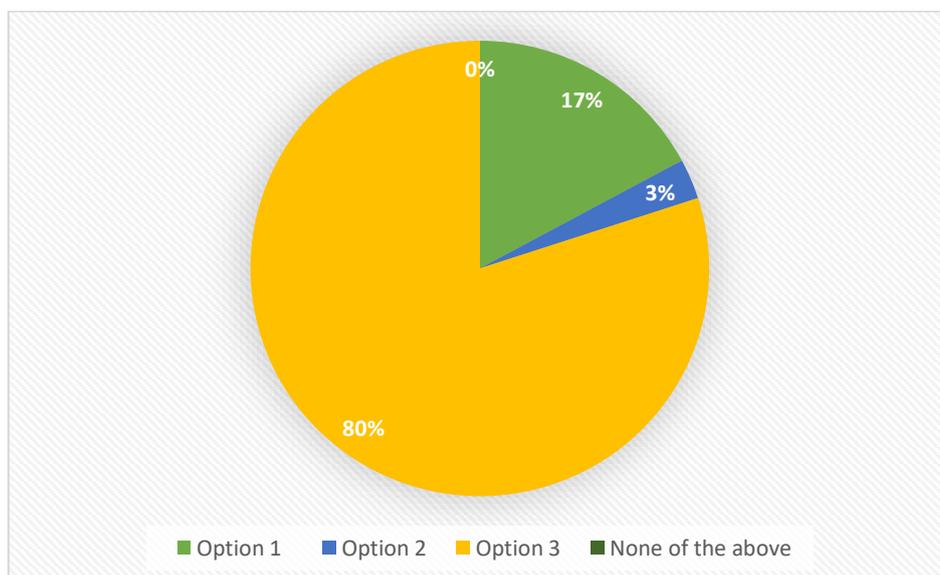
d. None of the above



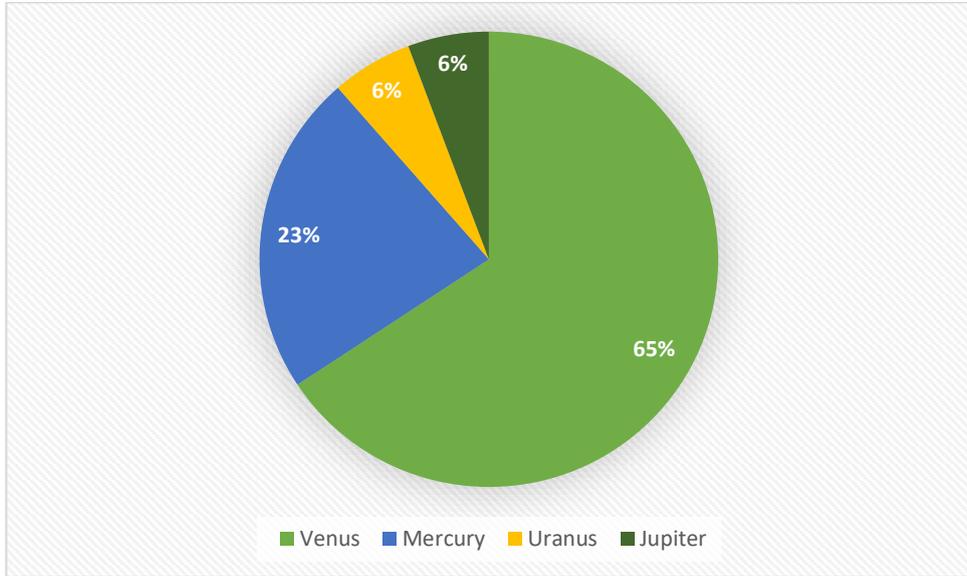
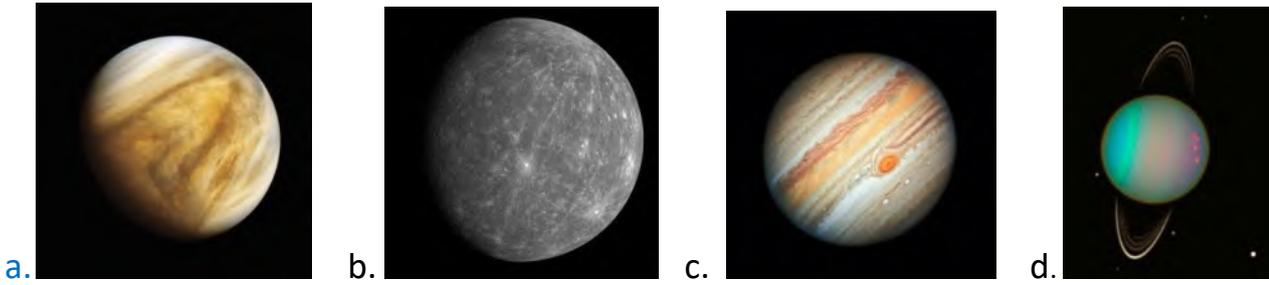
XVIII. Which of the following is said to be a biodegradable waste?



d. None of the above

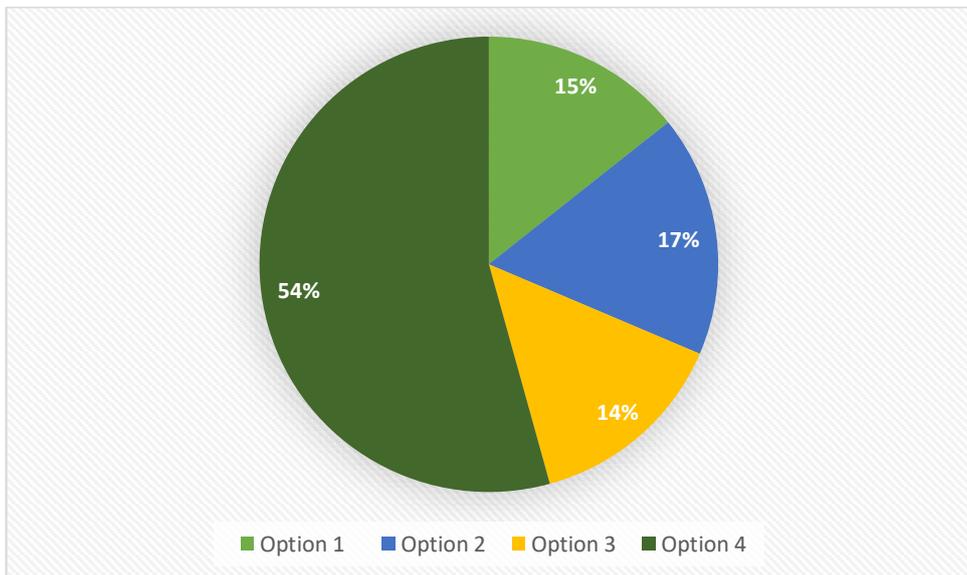


XIX. Which of the following is the hottest planet of the solar system?



XX. The year declared as the "water year" by the Indian Government is –

a. **2010**    b. **2005**    c. **2006**    d. **2007**



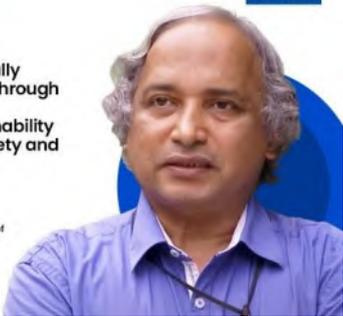
-----X-----



## IISc [ENVIS RP] Activities during 2021-22

### “Ek Bharat Shreshtha Bharat”

#### 1. Expert Talks

Date	Title
16/04/21	<p align="center"><b>Integrative Approaches for Conservation of Natural Resources</b></p> <p align="center">Jointly Organised with: KLE University, Belgaum</p> 
28/04/21	<p align="center"><b>Environmental Auditing</b></p> <p align="center">Jointly Organised with: Dayananda Sagar University</p>
22/05/21 Biodiversity Day	<p align="center"><b>Wetlands: Treasure of Bangalore</b></p> <p align="center">Jointly with: Goa Sate Biodiversity Board</p>
5/06/21 World Environment Day	<p align="center"><b>Ecosystem Restoration for a healthy Planet with sustainable Development</b></p> <p align="center">#WorldEnvironmentDay Channel</p> <p align="center">"The development goals need to be ecologically, economically, and socially sustainable, which can be achieved through the conservation and sustainable management of ecosystems. Sustainability implies the equilibrium between society and natural resources."</p>  <p align="center"><b>Dr. T.V. Ramachandra</b> Researcher at Centre for Ecological Sciences (CES) and Coordinator of Energy and Wetlands Research Group (EWRG), Indian Institute of Science (IISc), Bengaluru</p> <p>TWC India: source <a href="https://weather.com/en-IN/india/environment/news/2021-06-04-ecosystem-restoration-can-ensure-water-food-health">https://weather.com/en-IN/india/environment/news/2021-06-04-ecosystem-restoration-can-ensure-water-food-health</a></p> <p align="center"><b>Understanding Ecology and Environment of Bangalore</b></p> <p align="center">Jointly Organised with: The IEEE-IISc Student Branch and IEEE Women in Engineering (WiE) AG Bangalore Section</p>





	<b>Sl.</b> <b>Sustainable solutions in Preservation and Protection of water resources, Human and Ecosystem health</b> <i>Care to save water for our future</i>	<b>SWEDISH ALUMNI NETWORK INDI</b> Bengaluru Chapter																													
	<b>AGENDA</b> <table border="1"> <thead> <tr> <th>Time</th> <th>Program Detail</th> <th>Program Owner</th> </tr> </thead> <tbody> <tr> <td>5.30 - 5.35 pm</td> <td>Welcome Note</td> <td>Dr. Renuka Jain, Chairperson, SANI Bengaluru</td> </tr> <tr> <td>5.35 - 5.40 pm</td> <td>Event Theme Introduction</td> <td>Ms. Sumathi Bhat, SANI Bengaluru</td> </tr> <tr> <td>5.40 - 5.45 pm</td> <td>Opening Remarks</td> <td>Ms. Yasmin Zaveri Roy, Senior Advisor, Trade &amp; Economic Section, New Delhi</td> </tr> <tr> <td>5.45 - 6.00 pm</td> <td>Keynote Speaker</td> <td>Dr. Rajendra Singh, "Water Man of India" Winner of "Stockholm Water Prize"</td> </tr> <tr> <td>6.00 - 6.15 pm</td> <td>Keynote Speaker</td> <td>Dr. T. V. Ramachandra, Co-ordinator, Energy &amp; Wetlands Research Group, Centre for Ecological Sciences Indian Institute of Science, Bengaluru</td> </tr> <tr> <td>6.15 - 6.25 pm</td> <td>Invited Speaker</td> <td>Mr. Emilio Guzman, Senior Manager STWI, Swedish Water House, Stockholm International Water Institute, Stockholm</td> </tr> <tr> <td>6.25 - 6.35 pm</td> <td>Invited Speaker</td> <td>Mr. Ashwin Koilparambil, Sustainability Developer &amp; Water Expert, H&amp;M, Bengaluru</td> </tr> <tr> <td>6.35 - 6.40pm</td> <td>Invited Speaker</td> <td>Pawan Tahlani, Senior Manager, Business Strategy Vertical Lead - Sustainability and Climate Change, Business Sweden</td> </tr> <tr> <td>6.40 - 6.50 pm</td> <td>Q &amp; A</td> <td>Mr. Kripanand V.K., SANI Bengaluru</td> </tr> </tbody> </table>		Time	Program Detail	Program Owner	5.30 - 5.35 pm	Welcome Note	Dr. Renuka Jain, Chairperson, SANI Bengaluru	5.35 - 5.40 pm	Event Theme Introduction	Ms. Sumathi Bhat, SANI Bengaluru	5.40 - 5.45 pm	Opening Remarks	Ms. Yasmin Zaveri Roy, Senior Advisor, Trade & Economic Section, New Delhi	5.45 - 6.00 pm	Keynote Speaker	Dr. Rajendra Singh, "Water Man of India" Winner of "Stockholm Water Prize"	6.00 - 6.15 pm	Keynote Speaker	Dr. T. V. Ramachandra, Co-ordinator, Energy & Wetlands Research Group, Centre for Ecological Sciences Indian Institute of Science, Bengaluru	6.15 - 6.25 pm	Invited Speaker	Mr. Emilio Guzman, Senior Manager STWI, Swedish Water House, Stockholm International Water Institute, Stockholm	6.25 - 6.35 pm	Invited Speaker	Mr. Ashwin Koilparambil, Sustainability Developer & Water Expert, H&M, Bengaluru	6.35 - 6.40pm	Invited Speaker	Pawan Tahlani, Senior Manager, Business Strategy Vertical Lead - Sustainability and Climate Change, Business Sweden	6.40 - 6.50 pm	Q & A
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## 2. World Environment Day



ENVIS - Environment Education Outreach Program, Government of India  
*World Environmental Day Celebrations : Ecosystem Restoration*



# ENVIS\_IISc [RP]

## World Environment Day Competition for School Children (8, 9, 10)

**Competitions**

**1. Poster Design**  
 Topics: Innovative ideas for Ecosystem Restoration  
 OR Ecosystem Condition and Observations

**2. Essay Writing**  
 Topic: Ecosystem Restoration

**Last date for submission:**  
**05-06-21,**  
**Time: 11.59 pm**  
**Google Form Link**  
<https://forms.gle/UURRdmBfZfRhw2389>

**Contact: ENVIS.WED2021@GMAIL.COM**



ENVIS [RP] CENTRE,  
 New Biological Sciences Building (Near D Gate),  
 CESTE-15 Indian Institute of Science, Bangalore 560012, Phone: +91 080 22933305 / 22933099  
 Email: [envisces@iisc.ac.in](mailto:envisces@iisc.ac.in), [energy.ces@iisc.ac.in](mailto:energy.ces@iisc.ac.in)

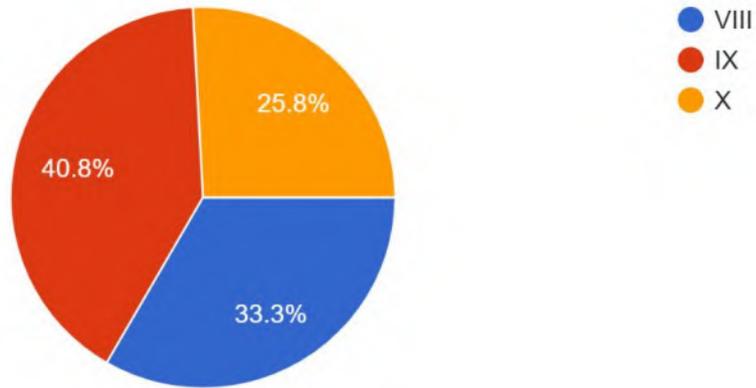




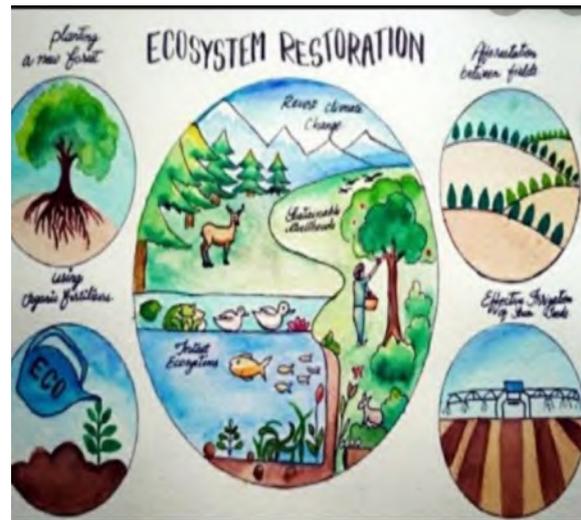
ENVIS\_IISc [RP] conducted poster and essay writing competitions across various schools in Bangalore on World Environment Day 2021. Class VIII, IX, and X students participated in the competition. The themes for the poster presentation was on "**Innovative ideas for Ecosystem Restoration**" OR "**Ecosystem Condition and Observations**" and Essay Writing on "**Ecosystem Restoration**". We received an overwhelming response of 120 from 14 different schools in Bangalore. About 60 students participated in essay writing and 60 students in poster presentation. Few students have articulated excellently on ecosystem conditions and also provided various innovative ideas for restoration. We also received very beautiful posters exhibiting the plight of the ecosystem in recent times.

### Class

120 responses



### Glimpses of posters received





*Glimpses of essay writing received*

Essay on Ecosystem Restoration  
 Student Name :- Tejsh.P  
 School Name :- Vidyaniketan Public School.  
 Email Id :- deepuljishik@gmail.com  
 Contact Number :- 9448755524

Ecosystem Restoration

Today, we are almost depend on others the earth's ecosystem has completely gone away. This days the number we are destroying trees & killing animal for our greed. If we leave this greediness we can lead our life easily. It is important maintain the balance of life in the earth, we should save animals and balance the food chain. This year Pakistan is the global host to highlight the importance of ecosystem. The world Environment Day was launched by United Nations General Assembly (UNGA) in 1972. This is celebrated because to spread the awareness about the threat to the environment. The practices by the people has been degraded by deforestation, pollution, & more activities. The main concept behind observing World Environment Day this focus on the importance of the environment & also remind of everyone that the environment should not be granted & taken care by everyone it responsible of everyone. We can restore the environment by planting more trees, changing diets, cleaning rivers and coasts &

Essay (Ecosystem Restoration)

Introduction:

Many of the world's ecosystems have undergone significant degradation with negative impacts on biological diversity and peoples' livelihoods. There is now a growing realisation that we will not be able to conserve the earth's biological diversity through the protection of critical areas alone. This paper explains what is meant by the term "ecological restoration" and outlines how it can provide enhanced biodiversity outcomes as well as improve human well-being in degraded landscapes. In this way ecological restoration becomes a fundamental element of ecosystem management, although until recently, its potential has not always been fully recognised.

Given that many people now depend on what have become degraded ecosystems to sustain their livelihoods, ecological restoration needs to address four elements. These elements are critical to successful eco



ENVIS  
Date: 15/05/2021

ECOSYSTEM RESTORATION

INTRODUCTION:  
Today, the Earth's ecosystem has completely gone awry. Statistics show that 45% of the world's wildlife and 15% of plant species have decreased. These figures show that the number of these species, lions, deer and other wonderful wildlife among us is extinction. Due to this the balance of nature extinction has deteriorated. Therefore, in order to maintain the balance of life in the earth, it is very important to preserve the animals, trees and plants. For this, the United Nations General Assembly declared 2021-30 as the United Nations Decade on Ecological Ecosystem Restoration.

ECOSYSTEM RESTORATION  
Ecosystem restoration is the actual project or process by restoration practitioners which is to renew and restore ecosystems and habitats damaged or destroyed in the environment by artificial human intervention and action. On 1 March 2021, the United Nations General Assembly declared the year 2021-30 as the United Nations Decade on the Ecosystem Restoration.

ENVIS  
Date: 15/05/2021

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ACHIEVER  
Sud



**International Day for Biological Diversity-2021**  
**Programme Celebrated Under**  
**Ek Bharat Shrestha Bharat programme**  
**Theme: "We're part of the solution"**  
**(22 May, 2021)**



**Submitted to**  
**ENVIS Secretariat, Vayu Wing-607, 6th Floor, Indira Paryavaran Bhawan,**  
**Jor Bagh Road, Aliganj, New Delhi (India)**



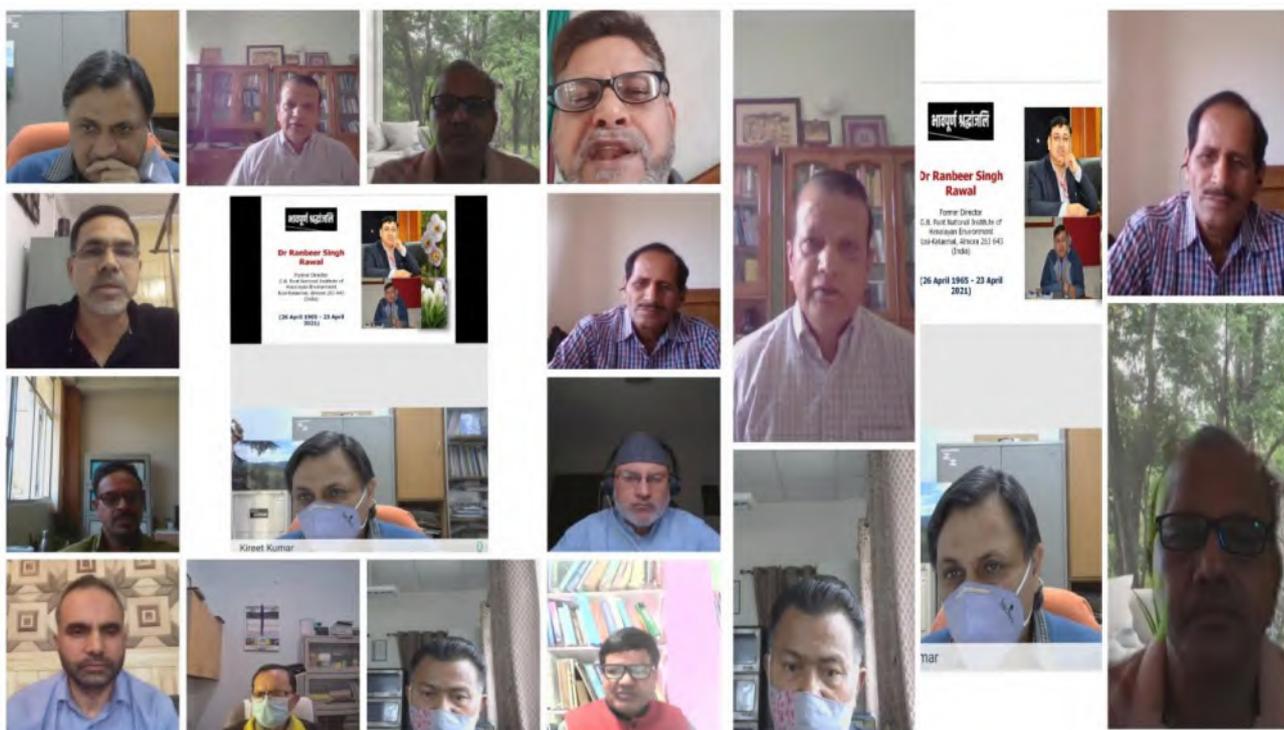
**Submitted by**

**ENVIS Centre on Himalayan Ecology**  
**G. B. Pant National Institute of Himalayan Environment**  
**Kosi-Katarmal, Almora-263 643, Uttarakhand, INDIA**

## Brief Report of International Day for Biological Diversity-2021

ENVIS Centre on Himalayan Ecology and Centre for Biological Diversity and Mangment (CBCM), GBP-NIHE, Kosi Katarmal, Almora was organised a webinar on the occussion of International Day for Biological Diversity-2021 Under this year Theme: *"We're part of the solution # for Nature"*. The programme was celebrated on 22 May 2021 under "Ek Bharat Shrestha Bharat programme that aims to enhance interaction & promote mutual understanding between people of different states/UTs through the concept of state/UT pairing. The states carry out activities to promote a sustained and structured cultural connect in the areas of language learning, culture, traditions & music, tourism & cuisine, sports and sharing of best practices, etc. Total 112 Scientist, researchers, Student participated during the webinar. Detailed programme attached in Annexure-I.

### Glimpses of the programme





**22 MAY 2021**  
**BIODIVERSITY DAY**  
We're part of the solution=forNature

**ENVIS Centre on Himalayan Ecology**  
**G.B. Pant National Institute of Himalayan Environment (GBP-NIHE)**  
Kosi-Katarmal, Almora - 263643, Uttarakhand

**Celebration of International Day  
for Biological Diversity- 2021**

Theme: We're part of the solution # For Nature

**Webinar on**  
**Himalayan Biodiversity and Future Solutions**

Join us on: <https://gbpnihe.webex.com/gbpnihe/j.php?MTID=m9c9597644d044b4b11b8b26779a84259>  
Password: Almora@2021

**Date &Time: May 22, 2021 11:00 - 01:45 PM**  
Under  
*Ek Bharat Shreshtha Bharat*

**PROGRAMME DETAILS**

11:00–11:10 hrs	Welcome remarks and homage to Dr. R.S. Rawal, Former Director GBPNiHE	Er. Kireet Kumar, Director, GBP-NIHE	
11.10-11.15 hrs	About the programme	Dr. I.D. Bhatt, GBPNiHE	
11:15 - 11:30 hrs	Setting the stage	Dr. G.S. Rawat, Former Director WII	
11:30 - 13:30 hrs	Panel presentations (in alphabetic order; 5 minutes each)	<b>Research organization</b> Adhikari BS; Badola HK; Bahera MD; Chetri N; Joshi GC; Nautiyal MC; Nautiyal S; Negi GCS; Rasily SS; Samant SS; Sah M; Tewari P; Uniyal DP, Uniyal S	
13:30 - 13:40 hrs	Implementation of BD Act	Dr. GCS Negi, GBPNiHE	
13:25-13:45 hrs	Way Forward (Five minutes each)	Rawat GS; Samant SS; Negi GCS; Kumar K	
13:45 hrs	Vote of thanks	Dr. KC Sekar, GBPNiHE	



**G. B. Pant National Institute of Himalayan Environment**  
(An Autonomous Institute of Ministry of Environment, Forest & Climate Change, GoI)  
**Kosi- Katarmal, Almora 263 643 (Uttarakhand)**

**Subject: Popular article (digital mode) competition, reg.**

You are kindly aware, biodiversity is important for sustaining our lives. However, this asset is depleting faster than the expected. This calls for immediate actions to ensure conservation and sustainable use of biodiversity.

As we know, United Nations Convention on Biological Diversity (CBD) was negotiated and adopted on 22<sup>nd</sup> May 1992, and to commemorate the adoption of the Convention, the UN has proclaimed May 22<sup>nd</sup> as the International Day for Biological Diversity (IDB). Celebration of International Day for Biological Diversity every year reflects our responsibility to safeguard the precious heritage of bio-resources for future generations.

The theme of IDB for this year is **'We're part of solution'**. This theme, very well coincides with the changing outlook of the world under Pandemic COVID 19 scenario. Scientific community believes, the cure lies within domains of nature. Therefore, nature based solutions are attracting wider attention. This becomes particularly important for Himalayan region, which is known as biodiversity hotspot and people in the region are historically connected with nature.

In the above context, and to celebrate IDB 2021, the Institute is organizing a popular article (digital mode) competition entitled **"Nature based solution for promoting conservation"** and inviting article for the same. The last date of receiving articles is 31<sup>st</sup> May, 2021. The details guidelines for writing article are as follows:

1. Article should be relevant as per the title provided
2. The article should be maximum of 1000 word
3. The language of article can be Hindi or English
4. The article may include one or two relevant original photographs
5. The article should reach to the given mail by 31<sup>st</sup> May, 2021
6. Only soft copy is sufficient, no hard copy will be entertained
7. The article should contain the original thought, not cut and paste from the internet

**Email address for sending the article: [cbcmhq@gmail.com](mailto:cbcmhq@gmail.com)**

## Children Nutrition Park

As a part of Kevadia Integrated Development the Children Nutrition Park was developed to promote healthy diet of children. As children are the future of the society it is required to make them aware of the nutritional elements of their food intake. It is not just a message for children, rather it is a message for the whole country and its sustenance.

### About

### 3<sup>RD</sup> EDITION

The Nutrition park was inaugurated by Hon'able Prime Minister of India, Mr. Narendra Modi on 30<sup>th</sup> October, 2020. The Children Nutrition Park is an amazing vision of nutrition based theme park which focuses on healthy eating and nutritional benefits of fruits, vegetables, grains and dairy products. Based on the objective of "SAHI POSHAN DESH ROSHAN" this theme park has been developed with hi-tech mechanism and elements of entertainment to share and spread the knowledge of healthy diet and quality nutrition of the children.

### Details

The Nutrition park is an well thought effort to promote healthy eating especially for children and their parents. The most exciting element of this park is the Nutrition train which travels 600 metres passing through various stations representing various phases of preparation and importance of food through displays of virtual characters, conversations with them, light and sound show of a fantasy farm etc.

**Palshakha Griham:** It is the 1<sup>st</sup> station which represents the efforts of a farmer while ploughing and phases of farming together with the importance of green vegetables as immunity booster which most children avoid to have.

**PayoNagari:** It is the station where the children gets to learn about the importance of milk in their diet through various games like "Feed the cow", "cow stands out", 'Churn the butter', 'milk story in a Hologram Box' etc. and virtual conversations with a technically developed character.

**Annapura:** As the name rightly suggests a virtual mother through an informative song narrates the importance of home cooked food for healthy future of the children. There are various digital games like 'space it right', 'place it right' are played to develop the interest of the children to tell the children regarding recipe, plating etc.

**Poshan Puram:** In this station a virtual girl named "Shakti" representing energy of children states the significance of having nuts and water which are two important requirement of body. Animated films, story telling regarding nuts, hydration are parts of this station.

**Swastha Bharatam:** This is the final station that states the utility and importance of physical exercises and yoga. Promoting the knowledge of Teacher – students relation in Indian sports it displays the age-old tradition of games and its effect on body. There are various virtual games like tennis, cricket, ice hockey etc. to satisfy the inquisitive mind and energetic body of the children.

For further details please visit <https://statueofunity.in/>

### Importance

- It is an exceptional effort to promote environment, tourism and educate and generate awareness among children regarding the details of the food that they have. It proves the saying 'health is wealth' in the most entertaining way.
- India has always given importance in various forms of physical exercises and this was a new way to promote the same for children.



Polaksha Griham



PayoNagari



Show in Payonagri



Game: Plate it right



Nutrition train



Poshan Puram



Virtual games in Swastha Bharatam



Fantasy farm

### Upcoming editions

- *Ekta Nursery*
- *Ecotourism*



**Report on Activities Conducted under**  
**Ek Bharat Shreshta Bharat (EBSB)**  
**By HP ENVIS Hub, HIMCOSTE, Shimla**

The Ministry of Human Resources Development in association with various Ministries, Govt of India has launched a new programme “**Ek Bharat Shreshta Bharat (EBSB)**”. The programme aims to enhance interaction and promote mutual understanding between people of different States/UTs through the concept of State/UT pairing. The Himachal Pradesh has been paired with Kerala by the Ministry of Environment, Forest & Climate Change (MoEF&CC). Under this programme many activities were conducted by HP ENVIS Hub in collaboration with Kerala ENVIS Hub. The proposed activities related to “**Ek Bharat Shreshta Bharat (EBSB)**” till 30<sup>th</sup> June 2021 by Himachal Pradesh and Kerala ENVIS Hub were as follows:

Sr. No.	Date	Activity by ENVIS, Kerala, KSCSTE	Activity by HP ENVIS Hub, HIMCOSTE
1.	22 <sup>nd</sup> April 2021	Quiz Competition in connection with <b>Earth Day 2021</b> on the theme <b>Restore Our Earth in connection with Earth Day 2021.</b>	Online Painting and Slogan writing Competition on the occasion of <b>Earth Day 2021</b> on the theme “ <b>Restore Our Earth</b> ”
2.	8 <sup>th</sup> May 2021	Online Poster Competition on the occasion of <b>World Migratory Day 2021.</b>	Online Painting Competition on the occasion of <b>World Migratory Bird Day</b> on Kerala’s perspective.
3.	11.05.2021	Quiz Competition in connection with National <b>Technology Day 2021</b>	-
4.	20 <sup>th</sup> May 2021	-	Preparation of Knowledge Product on <b>World Bee Day</b>
5.	22 <sup>nd</sup> May 2021	Webinar in connection with <b>International Day for Biological Diversity</b>	Online Quiz Competition on the occasion of <b>International Day for Biological Diversity</b> on Himachal Pradesh & Kerala’s perspective.
6.	31 <sup>st</sup> May 2021	-	Online Slogan Writing Competition- <b>World No-Tobacco Day.</b>
7.	31 <sup>st</sup> May 2021	-	Preparation of Knowledge Product on <b>World Parrot Day.</b>
8.	3 <sup>rd</sup> June 2021	Photography competition in connection with <b>World Environment Day 2021</b>	-
9.	4 <sup>th</sup> June 2021	Short Video Competition in connection with <b>World Environment Day 2021</b>	-
10.	5 <sup>th</sup> June 2021	Webinar in connection with <b>World Environment Day 2021</b>	Online Quiz Competition and Webinar on the occasion of <b>World Environment Day 2021.</b>
11.	15 <sup>th</sup> June 2021	Preparation of Knowledge Product on <b>Global Wind Day</b>	-

## Activities carried out by HP ENVIS Hub under Ek Bharat Shreshtha Bharat

### 1). Online Painting and Slogan writing Competition on the occasion of Earth Day 2021 on the theme “Restore Our Earth”

“Earth Day” is celebrated annually on April 22 to demonstrate support for Environmental Protection. The theme of **Earth Day** for the year 2021 is “**Restore Our Earth**” and this features five primary programs:

1. Canopy Project
2. Food and Environment
3. Climate Literacy
4. Global Earth Challenge, and
5. Great Global Clean Up

HP ENVIS Hub at Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE), Shimla with this theme and features in mind celebrated Earth Day in the State, in collaboration with Kerala ENVIS Hub. Two online competitions were organized on the theme “**Restore Our Earth**” for school students of Himachal Pradesh and Kerala State in two categories (junior and senior). Students shown great response and around 2000 entries were received in both competitions and categories. The entries received were evaluated by the committee. The top 3 winners in both the competitions and categories were awarded with cash prize of Rs. 2,000/-, Rs. 1,500/- and Rs. 1,000/- for 1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup> positions respectively and with e-Certificates.



**Earth Day – 2021**  
Theme: “*Restore Our Earth*”

**Activities:**

- ❖ Online Painting Competition
- ❖ Online Slogan Writing Competition

**Categories:**

- ❖ Junior (6<sup>th</sup> - 8<sup>th</sup> Class)
- ❖ Senior (9<sup>th</sup> – 12<sup>th</sup> Class)

**Submit Your Entries:**  
Fill up the **Google Form** and take the picture of your **Online Activity** and upload the image (jpeg) format of size upto 2 MB only at:  
<https://forms.gle/b24QpyCxae83Y1cLA>

**Last Date of Submission: 22<sup>nd</sup> April 2021 till 5:00 PM**

**Organized by:**  
**HP ENVIS Hub**  
Himachal Pradesh Council for Science, Technology & Environment  
(HIMCOSTE)  
Vigyan Bhawan, Bemloe, Shimla – 171001

\*All the participants will be awarded with e-Certificates and top 3 winners in both the categories with prizes.

*Advertisement prepared by HP ENVIS Hub for Online Competitions*

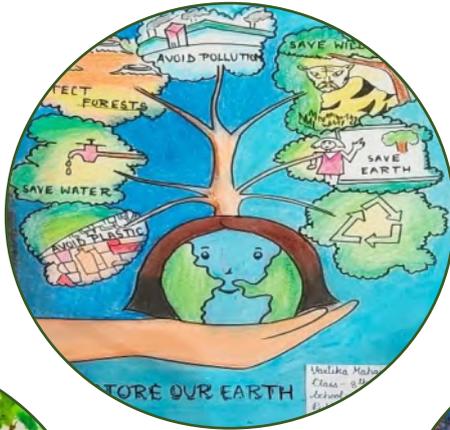
**Winners of Online Painting Competition: -**

<b>Sr. No.</b>	<b>Name</b>	<b>School</b>	<b>Position</b>	<b>Category</b>
<b>1</b>	<b>Vartika Mahajan</b>	Him Academy Public School, Vikas Nagar, Hamirpur	<b>1<sup>st</sup></b>	Junior (6 <sup>th</sup> -8 <sup>th</sup> )
<b>2</b>	<b>Aayan Gautam</b>	The Lawrence School, Sanawar, Solan	<b>2<sup>nd</sup></b>	Junior (6 <sup>th</sup> -8 <sup>th</sup> )
<b>3</b>	<b>Hansika Gaur</b>	Dyanand Public School, Shimla	<b>3<sup>rd</sup></b>	Junior (6 <sup>th</sup> -8 <sup>th</sup> )
<b>4</b>	<b>Lekshmi Priya. V</b>	Netaji HSS Pramadam, Pathanamthitta, Kerala	<b>1<sup>st</sup></b>	Senior (9 <sup>th</sup> -12 <sup>th</sup> )
<b>5</b>	<b>Saksham Thakur</b>	Dyanand Public School, Shimla	<b>2<sup>nd</sup></b>	Senior (9 <sup>th</sup> -12 <sup>th</sup> )
<b>6</b>	<b>Alish Rajta</b>	DAV Public, School, Kotkhai	<b>3<sup>rd</sup></b>	Senior (9 <sup>th</sup> -12 <sup>th</sup> )

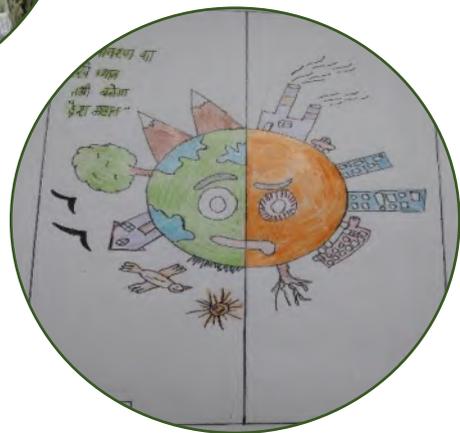
**Winners of Online Slogan Writing Competition: -**

<b>Sr. No.</b>	<b>Name</b>	<b>School</b>	<b>Position</b>	<b>Category</b>
<b>1.</b>	<b>Jaya</b>	Govt. Sr. Sec. School Andoura, Una	<b>1<sup>st</sup></b>	Junior (6 <sup>th</sup> -8 <sup>th</sup> )
<b>2.</b>	<b>Sanvi</b>	Govt. Sr. Sec. School Kotla, Barog, Sirmour	<b>2<sup>nd</sup></b>	Junior (6 <sup>th</sup> -8 <sup>th</sup> )
<b>3.</b>	<b>Aarav Thakur</b>	MRA DAV Public School, Solan	<b>3<sup>rd</sup></b>	Junior (6 <sup>th</sup> -8 <sup>th</sup> )
<b>4.</b>	<b>Anjali Thakur</b>	DAV Public School, Manali	<b>1<sup>st</sup></b>	Senior (9 <sup>th</sup> -12 <sup>th</sup> )
<b>5.</b>	<b>Nisha</b>	Govt. Sr. Sec. School, Garsa, Kullu	<b>2<sup>nd</sup></b>	Senior (9 <sup>th</sup> -12 <sup>th</sup> )
<b>6.</b>	<b>Rishav</b>	Oxford International School, Hamirpur	<b>3<sup>rd</sup></b>	Senior (9 <sup>th</sup> -12 <sup>th</sup> )

## Entries of Winners in Online Painting Competition (Junior & Senior Category)



**Entries of Winners in Online Slogan Writing Competition  
(Junior & Senior Category)**



## 2. Online Painting Competition on the occasion of World Migratory Bird Day on the theme *Sing, Fly, Soar – Like a Bird*

The HP ENVIS Hub organized Online Painting Competition on the occasion of **World Migratory Bird Day** on the theme **Sing, Fly, Soar – Like a Bird** for school students of Himachal and Kerala State in two categories.

**“Ek Bharat Shreshtha Bharat Programme”**

**World Migratory Bird Day 2021**  
**Theme: Sing, Fly, Soar – Like a Bird**

Himachal Pradesh & Kerala ENVIS Hub are jointly organizing  
**Online Painting Competition**  
on the occasion of World Migratory Bird Day 2021  
for school students in two categories  
**Junior (6<sup>th</sup> – 8<sup>th</sup> class) & Senior (9<sup>th</sup> - 12<sup>th</sup> class)**

**Submit Your Entry:**  
Fill up the Google Form and take the picture of your Painting and upload  
the image (jpeg) format of size up to 2 MB only at  
<https://forms.gle/5Re9Y3Bd7j7rmKBv8>  
**Last Date of Submission: 10<sup>th</sup> May, 2021 till 5:00 PM**

*The advertisement prepared by HP ENVIS Hub for Online Painting Competition*

## 3. Preparation of Knowledge Product on the occasion of World Bee Day - 2021

To raise awareness of the importance of pollinators, the threats they face and their contribution to sustainable development World Bee Day-2021 is observed every year on 20<sup>th</sup> May. HP ENVIS Hub observed the day by preparing a poster and circulating through social media groups and on HP ENVIS Hub website.

**World Honey Bee Day**  
**20 May 2021**  
**Theme "Bee Engaged"**

**Who Lives In A Colony?**  
**Queen**  
The queen bee is the only female in the colony that lays eggs.  
**Worker**  
All other bees in the colony are workers. They do all the work of the colony.  
**Drone**  
Drones are male bees. They do not work and their only job is to mate with the queen.

**ANATOMY OF A BEE**  
Worldwide, there are around 25,000 different types of bee species. This huge number is divided into over 4,000 genera of bees, which are then further subdivided into just nine families of bees. The Apidae family is perhaps the most well-known family, with familiar members such as the honeybee, carpenter bee, and bumblebee.

**LIFE CYCLE OF A HONEY BEE**  
1. Egg  
2. Larva  
3. Pupa  
4. Adult

**THREATS TO BEES**  

- Diseases
- Parasites
- Pesticides
- Long-distance transportation of colonies
- Winter survival rates
- Limited floral resources
- Fluctuations in the honey market

**FACTS ABOUT BEES**  

- Only female bees can sting.
- Honey bees communicate through a series of dance moves.
- Each Honey Bee from the same hive has their own specific color identification.
- A bee could visit 90 to 200 flowers as a single trip for nectar.
- A queen bee can lay 2,000 eggs in a day.
- In its lifetime, a bee will only be able to produce 1/2 teaspoon of honey.
- Worker bees have a 6 to 8 week lifespan.

**IMPORTANCE OF BEE**  
Pollinators like bees are responsible for the growing of plants and flowers.  

- Bee Pollen
- Bee Wax
- Royal Jelly
- Propolis
- Beeswax
- Honey
- Bees

Himachal Pradesh Council for Science, Technology & Environment (HMCOSTE) Website: <http://www.hpensis.nic.in/> Phone: 0177-2656489

#### 4. Online Quiz Competition on the occasion of International Day for Biological Diversity – 2021

HP ENVIS Hub at Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE) celebrated the **International Day for Biological Diversity on 22<sup>nd</sup> May 2021** on the theme *We Are The Part of Solution*. The day was observed by organizing an Online Quiz Competition for school students of classes 9<sup>th</sup> to 12<sup>th</sup>. The day was organized under “Ek Bharat Shreshta Bharat” programme in collaboration with ENVIS Hub at Kerala State Council for Science, Technology and Environment (KSCSTE).

As the schools are closed due to Covid-19 pandemic and students confined in their homes, such type of online activities are great opportunities to test their skills and get knowledge. Around **6000** students from Himachal Pradesh and Kerala had registered for this quiz and 800 students participated in this competition. E-certificates were provided to all the participants who had scored marks above 60% and top 3 winners with cash prize of Rs. 2,000/-, Rs. 1,500/- and Rs. 1,000/- for 1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup> positions respectively.

A webinar was also organized on this day by Kerala ENVIS Hub in collaboration with HP ENVIS Hub. Prof. K.P. Sudheer, Principal Secretary, S&TD and Executive Vice President, KSCSTE inaugurated the webinar. Dr N Anil Kumar, Senior Director, MS Swaminathan Research Foundation (MSSRF), Wayanad and Dr. M.L. Thakur, State Project Coordinator, HP Biodiversity Board, Himachal Pradesh were the key speakers for this webinar. Sh. Nishant Thakur, Joint Member Secretary, HIMCOSTE, Dr P Harinarayanan, Principal Scientist, KSCSTE and Himachal and Kerala ENVIS teams were present during the webinar.

**Ek Bharat Shreshta Bharat Programme**

**ONLINE QUIZ COMPETITION**  
Date: 22 May, 2021 (Saturday)  
Time: 11:30 am – 11:55 am

Himachal Pradesh & Kerala ENVIS Hub are jointly organizing **Online Quiz Competition** on the occasion of **International Day for Biological Diversity 22 May 2021**

**General Rules**

- The **Quiz** competition is only for 9<sup>th</sup> to 12<sup>th</sup> class students.
- Questions will be focused on general science with special reference to Biodiversity of Himachal Pradesh & Kerala.
- The number of questions will be 40.
- Duration of **Quiz** will be 25 minutes.
- To participate in the **Quiz** registration is must.
- The last date of registration is **21 May 2021 till 5:00 pm.**
- The link for **Quiz** will be shared at **11:25 am on 22 May 2021** at <http://hpenvis.nic.in/> under **Major Activity** section.

**22 MAY 2021 BIODIVERSITY DAY**  
We're part of the solution #forNature

**Registration Link**  
<https://forms.gle/PFGnyVy8sG2nrQGz5>

**e-Certificate**  
will be provided to all the participants who will **score marks above 60%** and prizes to top 3 winners.

*The advertisement prepared by HP ENVIS Hub for Online Quiz Competition*

**Winners of Online Quiz Competition: -**

Sr. No.	Name	School	Position
1	Bhuvanyu Malhotra	DAV Public School, Bilaspur	1 <sup>st</sup>
2	Kashish Sharma	DAV Public School, Sundernagar	2 <sup>nd</sup>
3	Arindam Sankhyan	DAV Public School, Bilaspur	3 <sup>rd</sup>



**22 MAY 2021**  
**BIODIVERSITY DAY**  
We're part of the solution #ForNature

**EK BHARAT SHRESHTA BHARAT PROGRAMME (EBSB)**  
ENVIS Hub Kerala, Kerala State Council for Science, Technology & Environment (KSCSTE)  
&  
ENVIS Hub Himachal Pradesh State Council for Science, Technology & Environment (HIMCOSTE)

**Webinar On**  
**International Day for Biological Diversity**  
**“ We're Part of the Solution # for Nature ”**  
On  
**22<sup>nd</sup> May 2021**  
**Time : 3:30-5:00 pm**

**Webinar link:**  
<https://keralastatecouncilforsciencetechnologyandenvironment.my.webex.com/keralastatecouncilforsciencetechnologyandenvironment.my/j.php?MTID=m77459bcde2eab96376f8e59f43351595>

**Join by Meeting Number**  
MEETING NUMBER (ACCESS CODE):  
158 043 0452  
MEETING PASSWORD:  
NYQGMWFM757

**Inauguration of Webinar :**  
**Prof K P Sudheer**  
Principal Secretary S&T Department &  
Executive Vice President KSCSTE

**Speakers:**

**Dr. N Anil Kumar**  
Senior Director  
MSSRF Wayanad

**Dr M L Thakur**  
State Project Coordinator  
HP State Biodiversity Board

Organized by,  
ENVIS Hub Kerala & ENVIS Hub HIMCOSTE

Supported by,  
Ministry of Environment Forests &  
Climate Change (MoEF&CC)

*Advertisement prepared for Webinar*

## 5. Preparation of Knowledge Product on the occasion of World No Tobacco Day 2021

**World No Tobacco Day** focuses on spreading awareness about the dangers of using tobacco and how a number of health problems can be better tackled by doctors or averted when one quits smoking. The day is observed every year on 31<sup>st</sup> May. HP ENVIS Hub observed the day by preparing a poster and circulating through social media groups and on HP ENVIS Hub website.



## 6. Preparation of Knowledge Product on the occasion of World Parrot Day 2021

World Parrot Day was originally founded 2004 by the World Parrot Trust and has been adopted by many organisations aiming to promote parrots and highlight the threats they face in the wild. This day is held annually on May 31<sup>st</sup>. The EAZA Parrot TAG would like to promote the day with educational activities in zoos worldwide and to encourage zoo visitors to experience parrots. HP ENVIS Hub observed the day by preparing a poster and circulating through social media groups and on HP ENVIS Hub website.

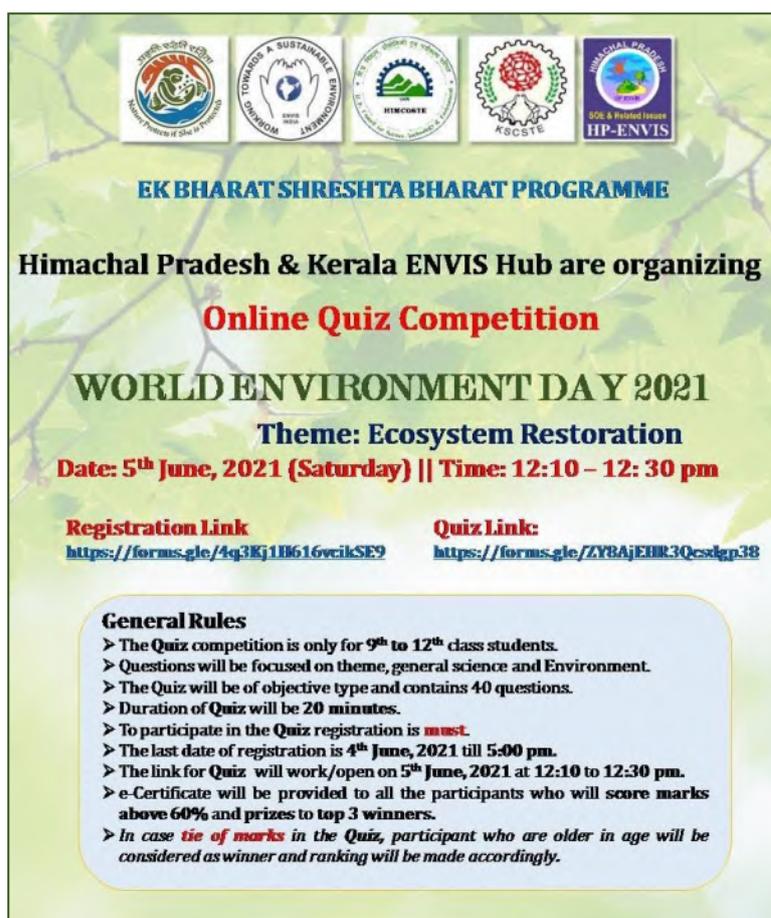


## 7. Online Quiz Competition on the occasion of World Environment Day – 2021

HP ENVIS Hub at Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE) celebrated **World Environment Day** in the State. The World Environment Day is celebrated on June 5 every year to remind people about the importance of nature. It is celebrated across the globe to tell people that nature should not be taken for granted and must be respected for its values. World Environment Day is one of the biggest annual events organized by the United Nations to generate awareness about the significance of nature and greenery. This year World Environment Day, 2021 is focused on “Reimagine. Recreate. Restore” and its theme is Ecosystem Restoration.

Due to COVID-19 pandemic and lockdown in the State, World Environment Day 2021 was celebrated by organizing various online competitions for the students of the State. Under the “*Ek Bharat Shreshtha Bharat*” programme of the Ministry of Human Resources Development, Government of India in collaboration with ENVIS Hub at Kerala State Council for Science, Technology and Environment (KSCSTE) HP ENVIS Hub organized Online Quiz Competition for school students of class 9<sup>th</sup> to 12<sup>th</sup>. Students from all over the Himachal Pradesh had shown their enthusiasm and participated in these activities. 16,261 students were registered for online quiz competition.

HP ENVIS Hub had also organized 3 online activities namely Online Environment Photography, Online Painting and Online Slogan Writing Competition for school students in two categories; junior (6<sup>th</sup> to 8<sup>th</sup>) & senior (9<sup>th</sup> to 12<sup>th</sup>) in collaboration with school ECO Clubs in the State. More than 3000 ECO Clubs of the State participated in these activities. For online environment photography, painting and slogan writing competition the entries were called from students through District Science Supervisors of the State. Top three winners of the competitions were awarded with cash prizes and certificates. A knowledge product was also prepared by HP ENVIS Hub and circulated through social media groups and on HP ENVIS Hub website.



**EK BHARAT SHRESHTA BHARAT PROGRAMME**

**Himachal Pradesh & Kerala ENVIS Hub are organizing**

**Online Quiz Competition**

**WORLD ENVIRONMENT DAY 2021**

**Theme: Ecosystem Restoration**

**Date: 5<sup>th</sup> June, 2021 (Saturday) || Time: 12:10 – 12:30 pm**

**Registration Link**  
<https://forms.gle/4q3Kj1B616vcikSE9>

**Quiz Link:**  
<https://forms.gle/ZY8AjEHR3Qcsdgp38>

**General Rules**

- > The Quiz competition is only for 9<sup>th</sup> to 12<sup>th</sup> class students.
- > Questions will be focused on theme, general science and Environment.
- > The Quiz will be of objective type and contains 40 questions.
- > Duration of Quiz will be 20 minutes.
- > To participate in the Quiz registration is **must**.
- > The last date of registration is 4<sup>th</sup> June, 2021 till 5:00 pm.
- > The link for Quiz will work/open on 5<sup>th</sup> June, 2021 at 12:10 to 12:30 pm.
- > e-Certificate will be provided to all the participants who will score marks above 60% and prizes to top 3 winners.
- > In case tie of marks in the Quiz, participant who are older in age will be considered as winner and ranking will be made accordingly.

*Advertisement prepared by HP ENVIS Hub for  
Online Quiz Competition*



*Knowledge product prepared by HP ENVIS Hub on the occasion of World Environment Day-2021*

**Winners of Online Quiz Competition: -**

Sr. No.	Name	School	Position
1.	<b>Saksham Sharma</b>	DAV Public School, Ghumarwin, Bilaspur, Himachal Pradesh	1 <sup>st</sup>
2.	<b>Pallavi Chauhan</b>	BTCGMSS Nurpur, Kangra, Himachal Pradesh	2 <sup>nd</sup>
3.	<b>Shradha Thakur</b>	D.A.V. Public School Greyoh, Mandi, Himachal Pradesh	3 <sup>rd</sup>

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**ENVIS - Resource Partner of Coastal Zone Management and Coastal Shelter Belt  
Institute for Ocean Management, Anna University, Chennai - 600 025**

## **A Report on the activities conducted in the First Quarter - April to June 2021 by IOM ENVIS RP EK BHARAT SHRESHTHA BHARAT**

Institute for Ocean Management (IOM), Anna University has been identified as an Institute of Professional Excellence to host “Centre for Coastal Zone Management and Coastal Shelter Belts” (CCZM&CSB) by MoEF&CC, Govt. of India.

The core functions of CCZM & CSB, IOM, Anna University includes theme based coastal newsletters, special publications, e-newsletters, thematic bulletins, technical reports, Discussion Forum, directories of information at State/regional/ National level, Bibliography, information products developed on parks and sanctuary, desertification maps, flora and fauna species distribution maps. All these information are readily available on ENVIS websites which is dedicated to different interesting themes.

Under the Ek Bharat Shrestha Bharat Programme, the IOM ENVIS RP has conducted the Online Quiz Competition amongst the Public, School students, College student and Research scholars to create the awareness of our environment under the theme “We’re part of the solution”.



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Institute for Ocean Management, Anna University, Chennai - 600 025**



**ENVIS - Resource Partner of Coastal Zone Management and Coastal Shelter Belt  
Institute for Ocean Management, Anna University, Chennai - 600 025**

**EK BHARAT SHRESTHA BHARAT PROGRAMME (EBSB)**

## **Online Quiz Competition**

**On the occasion of International Day for Biological Diversity May 22<sup>nd</sup> 2021**

# QUIZ TIME

**QUIZ URL: <https://forms.gle/Dfmdtps4Mzmi4ARq8>**

**E-Certificates will be given to the participants.**

**Email - [iomenvisrp@gmail.com](mailto:iomenvisrp@gmail.com)**



**ENVIS - Resource Partner of Coastal Zone Management and Coastal Shelter Belt  
Institute for Ocean Management, Anna University, Chennai - 600 025**

**Released the E-Poster on the Theme  
We're Part of the Solution for  
"International Day for Biological Diversity 2021"**

Beneficiaries: Public, School students, College student and Research scholars



**ENVIS - Resource Partner of Coastal Zone Management and Coastal Shelter Belt  
Institute for Ocean Management, Anna University, Chennai - 600 025**

**EK BHARAT SHRESTHA BHARAT PROGRAMME (EBSB)**

**International Day for Biological Diversity May 22<sup>nd</sup> 2021**



**22 MAY 2021  
BIODIVERSITY DAY**  
We're part of the solution #ForNature



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Institute for Ocean Management, Anna University, Chennai - 600 025**

**Released the E-Poster on the Theme  
Threats to Sea Turtles for  
“World Turtle Day 2021”**

Beneficiaries: Public, School students, College student and Research scholars



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Institute for Ocean Management, Anna University, Chennai - 600 025**

**EK BHARAT SHRESTHA BHARAT PROGRAMME (EBSB)**

**World Turtle Day May 23<sup>rd</sup>, 2021**





**ENVIS - Resource Partner of Coastal Zone Management and Coastal Shelter Belt  
Institute for Ocean Management, Anna University, Chennai - 600 025**

**Published an Write-up on Ecosystem Restoration for  
“World Environment Day 2021“  
by the subject expert  
Dr. R. Devika Madam, AVIT College, Chennai, Tamil Nadu.**

Beneficiaries: Public, School students, College student and Research scholars

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Institute for Ocean Management, Anna University, Chennai - 600 025**

**DR. BHARATI SHREEJHA BHARATI PROGRAMME (DSSE)**

**WORLD ENVIRONMENT DAY JUNE 5<sup>th</sup>, 2021**

**REIMAGINE. RECREATE. RESTORE**

**Write-up on Ecosystem Restoration**

**HEALTHIER OUR ECOSYSTEM – HEALTHIER IS OUR PLANET EARTH**

Overexploitation of natural resources, disruption in the nature equilibrium has led to drastic changes in the ecosystems worldwide. However, in focusing on ecological restoring processes in the following Decades is a challenge for all the developing countries in unique perspectives to restore and maintain or enhancing the inherent ecological values. Attempts on restoring ecological functions such as reduction in desertification, improvement in water capacity, improvement in nutrient pools, increase in microbial biomass, strengthening geochemical cycles, improvement in agro biodiversity etc. have potential increased worldwide for self-sustaining environment. These efforts have expended in recent years, posing certain obstacles, heavy forest fires or habitat, preserve future evolutionary potentials (real time evolution) etc. Furthermore, this has overlooked on forced extreme scenarios of restoration initiatives for future sustainable development.

Why Ecosystem restoration? (a) The rise in atmospheric and oceanic CO<sub>2</sub> over the years and captures large amount of pollutants (b) Improvement in the crop plants (c) Improve natural grazing leading to sustainably evolving habitats with promoting rich biodiversity (d) Ultimately, allowing the nature to function by its own with clean environment for sustainability. Rebuilding ecosystem which is considered as best way of tackling and restoring the nature with clean air, water, soil, climate, carbon sequestration etc. to enhance health and well-being of all living organisms/humans.

A survey on restoration between now and 2030 reveals that about 12 - 20 gigatonnes of greenhouse gases will be removed and nine times economic benefits increases than the initial investment on restoration. Furthermore, the ultimate goal of any developing country is terms of

improvement in livelihoods (Good health and well-being), quality education, zero hunger, enhanced climate action, reduction of disaster, reduction in risk of natural disasters, zero waste, no poverty etc. can be achieved. Yet another concept in ecosystem restoration will include adaptive strategy like sustainable management, conservation, adaptation to climate changes so as to maintain the resilience and reduce the vulnerability of ecosystems; build traditional knowledge and practices.

Many countries has proposed legal binding targets on ecosystem restoration in connection with improvement in biodiversity (improving food chain), climate, harvest of forest biomass, to grow bio-energy crops, reducing tillage, use of natural fertilizers (use to rebuild carbon stores), control of overgrazing and erosion, promotion of floods, wetlands, landfills etc. to create sustainable co-existence corridors for future.

Dr. R. Devika, M.Sc., M.Phil., Ph.D., PGDHR, M.Tech., Ph.D.,  
Professor and Head  
Department of Biotechnology  
Aarupadai Veedu Institute of Technology  
Varenda Vikasam Research Foundation (VVF)  
Chennai - 600 104

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Institute for Ocean Management, Anna University, Chennai - 600 025**

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Website URL:

<http://iomervis.nic.in/indexx.aspx?langid=1&slid=13313&mid=2&sublinkid=528>

**Released the E-Poster on the Theme  
Ecosystem Restoration for  
“World Environment Day 2021”**

Beneficiaries: Public, School students, College student and Research scholars



**ENVIS - Resource Partner of Coastal Zone Management and Coastal Shelter Belt**  
**Institute for Ocean Management, Anna University, Chennai - 600 025**

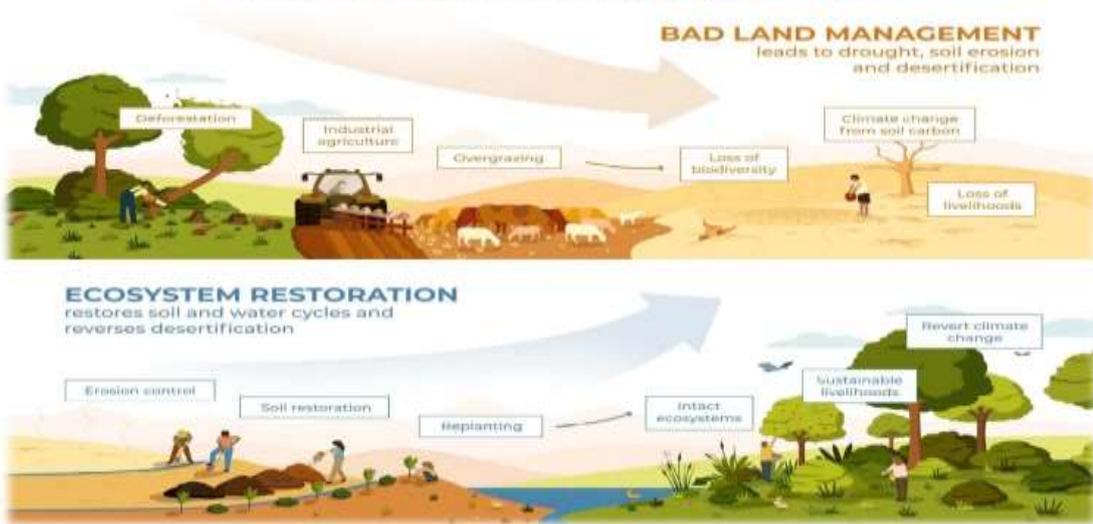


UNITED NATIONS DECADE ON  
**ECOSYSTEM RESTORATION**  
 2021-2030



**ENVIS - Resource Partner of Coastal Zone Management and Coastal Shelter Belt**  
**Institute for Ocean Management, Anna University, Chennai - 600 025**

**EK BHARAT SHRESTHA BHARAT PROGRAMME (EBSB)**  
**WORLD ENVIRONMENT DAY JUNE 5<sup>TH</sup>, 2021**





**ENVIS - Resource Partner of Coastal Zone Management and Coastal Shelter Belt  
Institute for Ocean Management, Anna University, Chennai - 600 025**

Website URL:

<http://iomennis.nic.in/indexx.aspx?langid=1&slid=13314&mid=2&sublinkid=529>

## Online Student Interaction Session on the occasion of “World Environment Day 2021”

Beneficiaries: Public, School students, College student and Research scholars

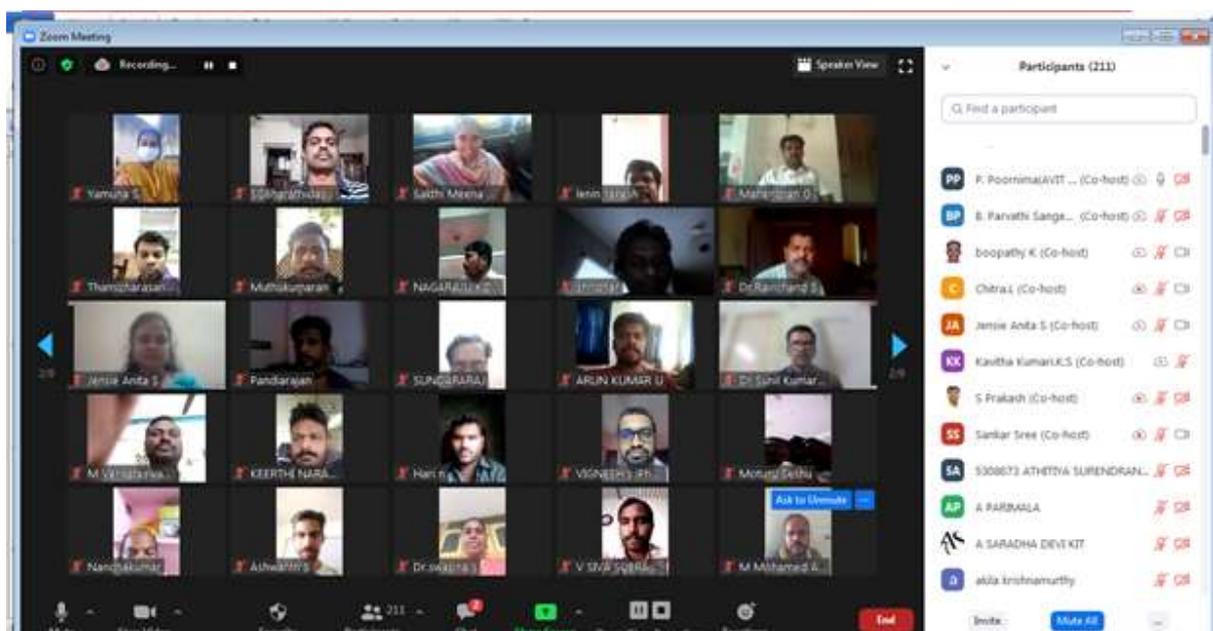
Expert: Mr.B.Parthasarthy, Free Lancer Environmentalist and Wild Life  
Photographer, Chennai

Topic: Ecosystem Restoration                      Date: 05.06.2021 Time: 3.00 pm IST

Mode: Online (Zoom meeting)

Meeting ID: 880 9325 6875

Passcode: 016553





**ENVIS - Resource Partner of Coastal Zone Management and Coastal Shelter Belt  
Institute for Ocean Management, Anna University, Chennai - 600 025**



ENVIS - Resource Partner of Coastal Zone Management and Coastal Shelter Belt  
Institute for Ocean Management, Anna University, Chennai - 600 025

## ONLINE STUDENT INTERACTION SESSION

WORLD ENVIRONMENT DAY JUNE 5<sup>TH</sup>, 2021  
**REIMAGINE. RECREATE. RESTORE**



**Resource Person: Mr. S. Parthasarathy,**  
Free Lance Environmentalist and Wild Life Photographer, Chennai

**Topic: Ecosystem Restoration**

Date: 05-06-2021 Time: 1:00 pm  
Mode: Online (Zoom meeting)  
Meeting ID: 891 8025 5675  
Passcode: 016553

## Quarterly Report (April-June,2021) of Envis Hub Jammu & Kashmir

### EK BHARAT SHRESTHA BHARAT (EBSB)

Activity	Description	Printed Version
On international Biological Diversity 22 <sup>Nd</sup> , May 2021	On international Biological Diversity 22 <sup>Nd</sup> , May 2021 Envis Hub J&K organised online Photography /painting competition under (EBSB) Scheme.	
Webinar on International Biological Diversity 22 <sup>nd</sup> May,2021	Webinar on WBD was also organized by Centre on Topic Biodiversity of Jammu& Kashmir. session was so informative and got Excellent responses from the audience.	
E-Poster on Earth Day	On the occasion of Earth Day 2021, SACON ENVIS RP and Jammu & Kashmir ENVIS hub together publishing an e-poster on "GREEN CONCERNS" under "Ek Bharat Shreshtha Bharat" scheme	
E-poster	E-poster on status of migratory birds is under process	In process



# EK BHARAT SHRESHTHA BHARAT (EBSB)



## PARASNATH:A Symbol of Pilgrimage Unity

The literal meaning of the word darshan is knowledge acquired through vision or that which is actually seen. The main objective of all the darshans is describing the soul principle that discuss various issues such as what is the embodied soul, how it is originated, the true nature of the manifest world, how it was created, the reason for its creation, whether it is a gross or endowed with divine consciousness, etc. The world, the embodied soul, God and the final liberation (Moksha) are the four main concepts discussed in all Darshans. What is God? What is the form of God? What is Human? What is the aim of their life? How should a human survive a proper life? The effort to get wisdom of such and such questions in Darshan. For pilgrims here is an epic Jinalaya to worship. In depth of the double stair main temple statue of supreme Arihant is situated. All around this temple 20 more statues and statues of God and Goddess gives a marvellous look and lusture to the site. On the upper stair the statue of bhagwan Parswanath with few God and Goddess are situated. On the east of this temple Madhuchampa Snatra Mandap in which four chapel for pilgrimes to worship is facilitated. On these chapel Statue of Bhomiya Jee, Shree Ghantakaran, Mahavir Mahalaxmi devi and Guru Bhagwant is situated.

Parasnath hill which is 4431 ft height is the highest mountain south of the Himalayas. It is located at the latitude of 23 degree, 9 minutes North and longitude of 86 degree ,3 minutes East. It was made accessible since the construction of a road in 1838 .Significantly the oldest of the Jain temple appears to date only from AD. 1775. Parsnath is the "Marang Buru "or hill deity of the Santhal of Hazaribagh, Manbhum, Bankura and Santhal Parganas and each year they assemble at the period of the full moon in Baisakh from these district and celebrate a religious hunt for three days after which a great tribal session is held .In the assembly they decided the great matter relating to their custom and charge of offended for outcasting the indivisual. Since Parsnath has been declared as a wild life sanctuary District administration and Forest official are trying to persuade the local tribe to are trying to persuade the local tribe to give up their religious hunt. The special sanctity of Parsnath for the Jain arises from the tradition that twenty -third of the Tirthankars (religious saints who are the object of their worship), Parsva or Parsvanath , like nine of his predecessors attained nirvana on the hill. According to local tradition the number of Tirthankars who attained nirvana on the Parsnath hill is 20 and not 9 .For each of them there is a shrine( gumti for tuk) on the hill.

## **Shammed Shikhar**

**Parasnath hill which is 4431 ft height is the highest mountain south of the Himalayas . It is located at the latitude of 23 degree ,9 minutes North and**



**longitude of 86 degree ,3 minutes East. It was made accessible since the construction of a road in 1838 .Significantly the oldest of the Jain temple appears to date only from AD. 1775. The famous Parasnath hill is the highest peak of Jharkhand having altitude of 4431 feet above the sea-level. Giridih District was**

**carved out from Hazaribagh District on 4th December, 1972. Parasnath is the Marang Buru or hill deity of the Santhal of Hazaribagh, Manbhum, Bankura and Santhal Parganas Since Parasnath has been declared as a wild life sanctuary District administration and Forest official are trying to persuade the local tribe to give up their religious hunt.**

## **Madhuban**

**The Village which lies in Pirtand Block has a famous temple believed to be more than 2000 years old. It is a place of considerable religious importance for the Jain. The Samosharan temple and Bhomiyaji Asthan are two very famous Jain temple. There is a Jain Museum at Madhuban which houses a number of Jain scriptures, Idols and manuscript .One can view the clear sight of Parasnath Temple using the telescope installed at the balcony of the museum.**

## **Usri Falls**

**Amidst in the range of the famous Parasnath Hills ,the Usri River gushes down from a steep gorge , some 40 feet high in three separate streams .Located about 14 km away from east of Giridih Town .It is a favourite picnic spot.**

## **Khandoli**

**A water reservoir some 8 km North-East of Giridih headquarter is one of the best site for water related adventure sports and bird-watching. A watch tower and 600 feet high hillock offers a panoramic view of Khandoli site. Elephant and Camel Safari and numbers of other amusement facilities are available there including boating , Rock-climbing ,Parasailing and Kayaking.**



## **Surya Temple Mirzaganj**

**This is a nice and beautiful temple built in the middle of a lake in the shape of a lotus flower. Pilgrims visits here while returning from Langta Baba Samadhi.**

## **Harihar Dham**

**A small hamlet about 60kms South-west of Giridih district headquarter under Bagodar Block possesses the largest Shiva Linga of India. People from all over the India throngs over here every year. The temple has typical sculpture.**

## **Langta Baba Samadhi sthal**

**Langta baba was a saint of the locality, and is worshiped like a god. Offering chadar to his samadhi is a ritual followed here. You can take back a chadar in lieu of the offered chadar which is an auspicious possession. His samadhi sthal is in Kharagdiha, 30 Km West of the town.**

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# Activity Report under “Ek Bharat Shreshtha Bharat”

By JNU ENVIS Resource Partner on  
Geodiversity & Impact on Environment,  
School of Environmental Sciences,  
Jawaharlal Nehru University, New Delhi - 110 067  
(April-June 2021)

## Partner State Under “Ek Bharat Shreshtha Bharat” – Sikkim

Partner Envis Center - ENVIS Resource Partner on Ecotourism  
Sikkim State Council of Science & Technology,  
Department of Science and Technology,  
Vigyan Bhawan, Deorali, Gangtok, Sikkim – 737 102

### Detail of Activities:

1. **Arbor Day** – JNU ENVIS Resource Partner in collaboration with ENVIS Resource Partner on Ecotourism, Sikkim SCS&T, conducted online Slogan Writing Competition on the topic ‘**Importance of Trees in Times of Pandemic**’ on **April 30, 2021** to explore the writing skills of the students and employees of both Sikkim & Delhi, along with other states. Participants had sent their slogans through an online registration form. The jury members to judge the competition were **Prof. P K Joshi**, (SES, JNU), **Dr. Manish S. Dabhade**, (Assistant Professor, SIS, JNU), and **D.T. Bhutia**, (Sikkim ENVIS Coordinator).



Fig 1. Result of Online Slogan Competition.

2. **World Metrology Day** – JNU - ENVIS Resource Partner celebrated World Metrology Day. On this occasion a quiz competition was organized under the Ek Bharat Shreshtha Bharat Scheme (EBSB) in Collaboration with Envis Resource Partner on Ecotourism SC S&T Sikkim. The competition was conducted using the online google quiz platform on **May 19, 2021**. The

competition was opened to all the general public above 15 years of age. Theme of the quiz was **'Measurements for Health'** and around 45 students actively participated in the quiz.



Fig 2. Result of Online Quiz Competition.

**3. International Day for Biological Diversity – JNU ENVIS Resource Partner in Collaboration with Sikkim Envis Resource Partner Ecotourism SC S&T Sikkim, conducted an online Poster Competition on the theme: I'm Part of the Solution, on May 22, 2021 to celebrate International Day for Biological Diversity.**

Participants had sent their Poster through an online registration form. Total of 51 Poster entries were received. The jury members to judge the competition were **Shri D.T. Bhutia**, (Sikkim ENVIS Coordinator), **Dr. Usha Mina**, (SES, JNU), **Dr. Shukla V. Sawant**, (School of Arts and Aesthetics, JNU), **Dr. Manisha Mishra**, (NEERI).



Fig 3. Result of Online Poster Competition.

**4. World Environment Day – JNU ENVIS RP** celebrated the World Environment Day on **June 05, 2021**. On this occasion, a webinar was organized on the theme '**Ecosystem Restoration**', by the JNU ENVIS Resource Partner in collaboration with ENVIS RP on Ecotourism, SCS&T, Sikkim and the Young Holistic (YoHo) group, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi.

The panel included very eminent International and National researchers such as **Prof. R. P. Singh** (Chapman University, USA), **Prof. T. K. Adhya** (FNA, Dir & Prof., KIT, India), **Dr. A. K. Malhotra**, (IFS, Ex. PCCF Jharkhand and Member EAC, MoEF&CC India), **Dr. Khem Raj Dahal** (Tribhuvan University, Nepal), **Shri D. T. Bhutia** (Director & ENVIS Coordinator, Dept. of SCS&T, Sikkim, India), **Prof. U.C. Kulshrestha** (Dean SES & JNU ENVIS Coordinator) and **Dr. Usha Mina**, (Associate Professor & ENVIS Co-coordinator, SES, JNU). Young panelists **Ms. Sneha Aggarwal** (Research Scholar, Stockholm University, Sweden) and **Mr. Meshak Moranga** (Young Holistic leader) also addressed the meeting. **Ms. Swati Singh**, Programme Officer, ENVIS, SES executed the programme.

This event was attended by more than 450 participants, through Google-Meet and Facebook Live platforms. The participants included university students, researchers, faculty members and other stakeholders both nationally and internationally.

(Detail Report: [http://jnuenvis.nic.in/documents/WED2021\\_WebinarReport.pdf](http://jnuenvis.nic.in/documents/WED2021_WebinarReport.pdf) )



Fig 4. Panellists of Webinar on World Environment Day 2021

#### **Key Recommendations:**

1. The government should ensure enforcement of emission and effluent control at ground level so that the new normal set by natural restoration during pandemic shutdown are not crossed due man made operations.
2. Holistic approach should be followed for ecosystem restoration.
3. Huge lakes should be created in the NCR for air quality as well for ecosystem restoration.

4. New technologies and clean fuels need to be opted to control air pollution from crop residue burning and fossil fuel driven pollution.
5. Monitoring of new parameters such as chlorine and HCl needs to be included in the ambient air quality network.
6. Embracing the UN SDGs, providing a platform that allows soil science to demonstrate its relevance for realizing a sustainable society by 2030.
7. Raising awareness of soil organic matter as a key attribute of soils for soil functions and ecosystem service.
8. An approach with balance among Economy-ecology-society is needed for ecosystem restoration.
9. There is a need to take initiative for capturing the solar energy for starch production for which not a single inch of land should be left unplanted.
10. Research and Development in the area of Environmental Sciences should be promoted and more investment should be made in this sector of higher and advanced research.

On Environment Day two online Competitions Painting & Photography were also conducted, to motivate and encourage youth of both the states to take up activities for eco-restoration.



Fig 5. Result of Online Painting Competition.



Fig 6. Result of Online Photography Competition.

### Feedback on Webinar:

Short line feedback.  
69 responses

Very informative and knowledgeable webinar on restoration of ecosystem. Great effort by JNU Envis and all eminent speakers for organizing such nice and informative webinar.

Very Knowledgeable & Informative webinar

This webinar is very information and current trends environment problems also analysis thank you so much

This webinar is so informative

It is an urgent need to implement all the restoration technologies and possibilities hereby described by all the learned personnel. Although every individual must understand and become aware of the ecological impacts of their living standards. We should become the part of nature not the reason to destroy it.

wonderful webinar but little bit disturbance in between.

Good working in collaboration. 🙌

It was a pleasure and a good experience to learn from such mentors.

5. Proposed International Day of Tropics – on June 29, 2021 activities to be conducted Online Webinar & Online Short Essay Competition.

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## ENVIS HUB, KSCSTE, KERALA

### PROGRAMMES CONDUCTED DURING THE MONTH OF APRIL, MAY AND JUNE 2021 IN CONNECTION WITH EK BHARAT SHRESHTA BHARAT PROGRAMME

The Ministry of Human Resources Development in association with various Ministries, Govt of India has been launching a new programme **Ek Bharat Shreshta Bharat** (EBSB). The programme aims to enhance interaction and promote mutual understanding between people of different states/UTs through the concept of state/UT pairing. The Kerala state has been paired with Himachal Pradesh by the MoEF&CC and ENVIS Hub Kerala jointly with ENVIS Hub, Himachal Pradesh conducted the following activities in connection with EBSB programme.

#### 1. World Earth Day 22<sup>nd</sup> April 2021

In 2009, the United Nations designated April 22 as 'International Mother Earth Day, The Day recognises the Earth and its ecosystems as humanity's common home and the need to protect her to enhance people's livelihoods, counteract climate change, and stop the collapse of biodiversity. The theme for 2021 is **Restore our Earth**.

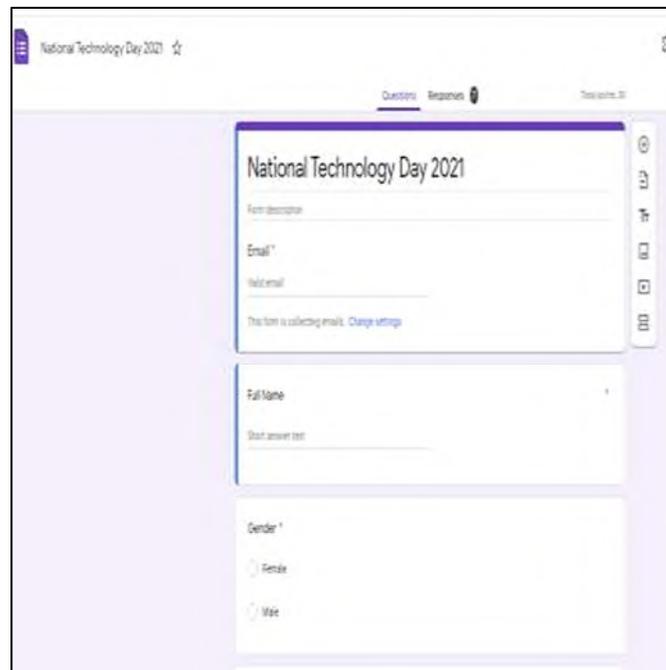
In connection with Earth Day 2021 ENVIS Hub KSCSTE Kerala conducted an online Quiz competition on the theme **Restore Our Earth**. The programme was initiated under **Ek Bharat Shreshta Bharat Programme** in association with ENVIS Hub, Himachal Pradesh. Total 1065 responses had been received under this category.



#### 2. National Technology Day 11th May 2021

Every year, May 11 is celebrated across the country as National Technology Day. And this year, it was the 30th National Technology Day, celebrating the huge advancements India has made in the Science and Technology sector. On this day, India had successfully carried out three successful nuclear tests at the Indian Army's Pokhran Test Range which is located in Rajasthan. Operation Shakti was the code name given to the tests which were conducted on that day, which were led by the late President Dr APJ Abdul Kalam. The first time the National Technology Day was celebrated on May 11, 1999. This year's theme is **“Science and Technology for a Sustainable Future”**.

In connection with National Technology Day 2021 ENVIS Hub KSCSTE Kerala conducted an online Quiz competition on the theme **“Science and Technology for a Sustainable Future”**. The programme was initiated under **Ek Bharat Shreshta Bharat Programme** in association with

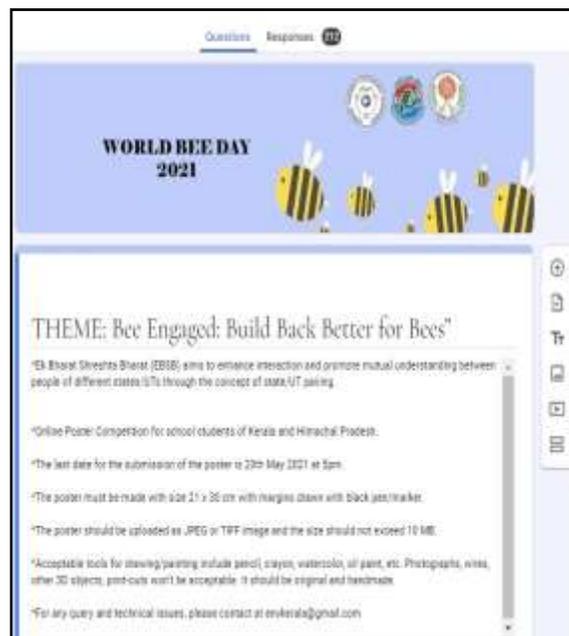


ENVIS Hub, Himachal Pradesh. Participants from both the states including students from schools, colleges, universities attend the quiz programme.

### 3. World Bee Day 20th May 2021

In December 2017 UN approved this day and the First World Bee Day was celebrated on Sunday, 20 May 2018. In the current year, the fourth observance of this event is taking place. The purpose of the bee day is to acknowledge the role of bees and other pollinators for the ecosystem. World Bee Day theme 2021 is “**Bee engaged: Build Back Better for Bees**”.

On the occasion of World Bee Day 2021 ENVIS Hub KSCSTE Kerala conducted an online Poster competition for school students on the theme “**Bee engaged: Build Back Better for Bees**”. The programme was initiated under **Ek Bharat Shreshta Bharat Programme** in association with ENVIS Hub, Himachal Pradesh. The competition was conducted in two categories: Junior- 6 – 8<sup>th</sup> class and Senior category- 9<sup>th</sup> – 12<sup>th</sup> class. Total 180 students participated in the poster competition of which 74 students participated in junior category and in senior category 106 students participated.



### 4. Webinar on International day for Biological diversity on 22nd May 2021

The UN has proclaimed 22 May the International Day for Biological Diversity to increase understanding and awareness of biodiversity issues. This International Day is part of the year 2021 defined as a super year for biodiversity with major events planned (and for most postponed to a later date) such as the IUCN World Conservation Congress, the 15th Conference of the Parties (COP15) of the Convention on Biological Diversity or the UN Biodiversity Forum. The theme of the 2021 International Day for Biological Diversity is “We’re part of the solution#ForNature”.

The ENVIS Hub, KSCSTE, Kerala & ENVIS Hub Himachal Pradesh State Council for Science Technology and Environment had jointly organised International day for Biological diversity through online platform on 22<sup>nd</sup> May 2021 at 3.30 p.m. The programme was inaugurated by Prof. K.P. Sudheer, Principal Secretary, S&T Department and Executive Vice President, KSCSTE. Dr P Harinarayanan, Principal Scientist, KSCSTE and ENVIS Hub, Kerala Coordinator welcome the gatherings. Dr N Anil Kumar, Senior Director, MSSRF, had given an expert talk from Kerala, on the topic biodiversity of Kerala. Dr M L Thakur, State Project Coordinator, Biodiversity Board,



Himachal Pradesh had given an expert talk from Himachal Pradesh, on the topic biodiversity of Himachal Pradesh. The event was ended with formal vote of thanks by Dr. Sindhu. C. Unni, Programme Officer, ENVIS Hub, Kerala.



## 5. World Environment Day 2021 June 05<sup>th</sup> 2021

World Environment Day came into existence in 1972 by the United Nations Assembly on the first day Stockholm Conference held on the human environment and later in 1974, the day started to be celebrated with the theme "Only One Earth". The idea for rotating the center of these activities through selecting different host countries began in 1987. In 2013, the anthem was launched on the occasion of World Environment Day in New Delhi. Over the years, the day became a global platform for raising awareness and taking action on urgent issues from marine pollution and global warming to sustainable consumption and wildlife crime.

The theme of World Environment Day is **Ecosystem restoration**. It means preventing, halting and reversing this damage to go from exploiting nature to healing it. This World Environment Day will kick off the UN Decade on Ecosystem Restoration, a global mission to revive billions of hectares, from forests to farmlands, from the top of mountains to the depth of the sea.

The ENVIS Hub, KSCSTE, Kerala & the Department of Environment, Government of Kerala has jointly organised World Environment Day state level programme through online platform on 05<sup>th</sup> June 2021 at 11AM. The programme was inaugurated by the by Hon'ble Chief Minister of Kerala Shri. Pinarayi Vijayan. He reminded that as the man and nature complement each other, only sustainable development is the way forward. The chief minister said the development does not mean industrialisation alone. It also includes agriculture and waste management. He opined that the State Action Plan on Climate change needs to be revised in a timely manner to take on climate change. He also pointed out that the Government has decided to implement a housing system that ensures protection from climate change and he also called for scientific measures for waste management. He also stressed on the need for public transport to switch over to green fuels.

Prof. K.P. Sudheer, Principal Secretary, S&T Dept and Executive Vice President, KSCSTE welcomed the gathering. Dr. V. Venu, IAS, Additional Chief Secretary, Environment Department, Kerala presided over the function. Shri. V.K. Uniyal, Former Principal Chief Conservator of Forests delivered the keynote address.

Prof. T Jayaraman, Former Member, State Planning Board, Kerala had given an expert talk on Nature based solutions during the event. Er Pradeep Kumar A.B, Chairman, Kerala State Pollution Control Board presented various aspects of eco restoration programmes during the function. Dr R Chandrasekhar, IAS, Director, Department of Environment and Climate Change Kerala discussed the highlights of Eco restoration initiatives.

Various eco restoration programmes carried out by KSCSTE R&D centres were also discussed during the programme by the respective directors Dr R Prakash Kumar, Director, JNTBGRI, Dr Syam Viswanath, and Director. KFRI, Dr Manoj P Samuel, Executive Director, CWRDM, Dr Pradeep, Senior

Scientist, MBGIPS etc. The event as ended with formal vote of thanks by Dr P Harinarayanan, Principal Scientist and ENVIS Coordinator Kerala.

News Clippings

## പരിസ്ഥിതിക്കു യോജിച്ച വികസനം വേണം: മുഖ്യമന്ത്രി

മുഖ്യമന്ത്രി വി. ശിവമങ്കുട്ടി നയിച്ച ചർച്ചകൾക്ക് ശേഷം പരിസ്ഥിതി വികസനം നേടാനായി കഴിയുന്ന എല്ലാ മാർഗ്ഗങ്ങളും സ്വീകരിക്കണമെന്നും മുഖ്യമന്ത്രി പറഞ്ഞു. പരിസ്ഥിതി സംരക്ഷണത്തിന് പണം മുഴുവൻ ചെലവഴിക്കണമെന്നും മുഖ്യമന്ത്രി പറഞ്ഞു. പരിസ്ഥിതി സംരക്ഷണത്തിന് പണം മുഴുവൻ ചെലവഴിക്കണമെന്നും മുഖ്യമന്ത്രി പറഞ്ഞു.

**വ്യക്തികളുടെ സുരക്ഷിതത്വം വേണം: മുഖ്യമന്ത്രി**

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## CM stresses on sustainable devt on World Environment Day

CM stresses on sustainable devt on World Environment Day. CM stresses on sustainable devt on World Environment Day. CM stresses on sustainable devt on World Environment Day.

**100 Miyawaki forests to come up in Kattakada**

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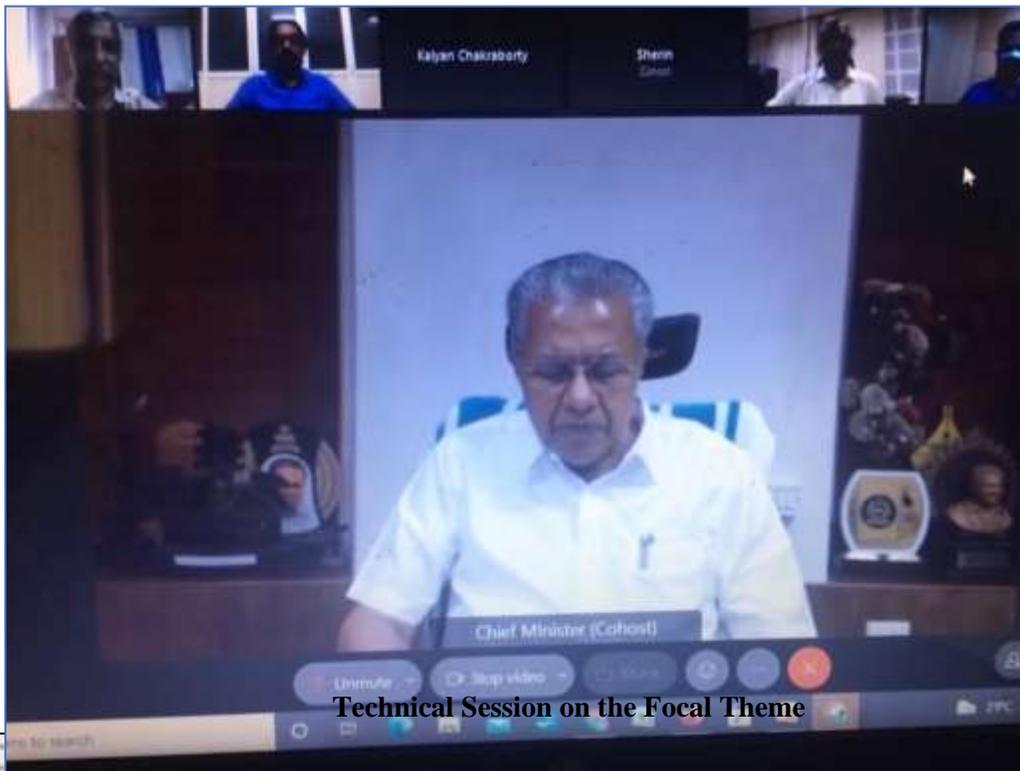
**Kattakada becomes first constituency to complete energy audit at govt schools**

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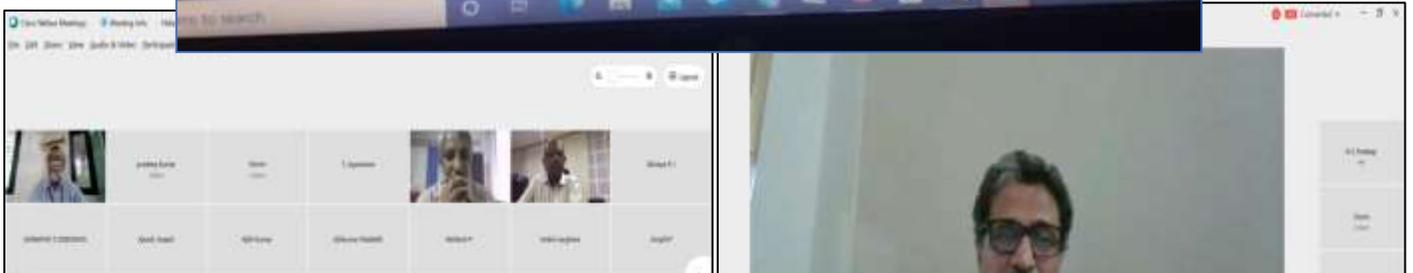
**'Sapling of survival' planted**

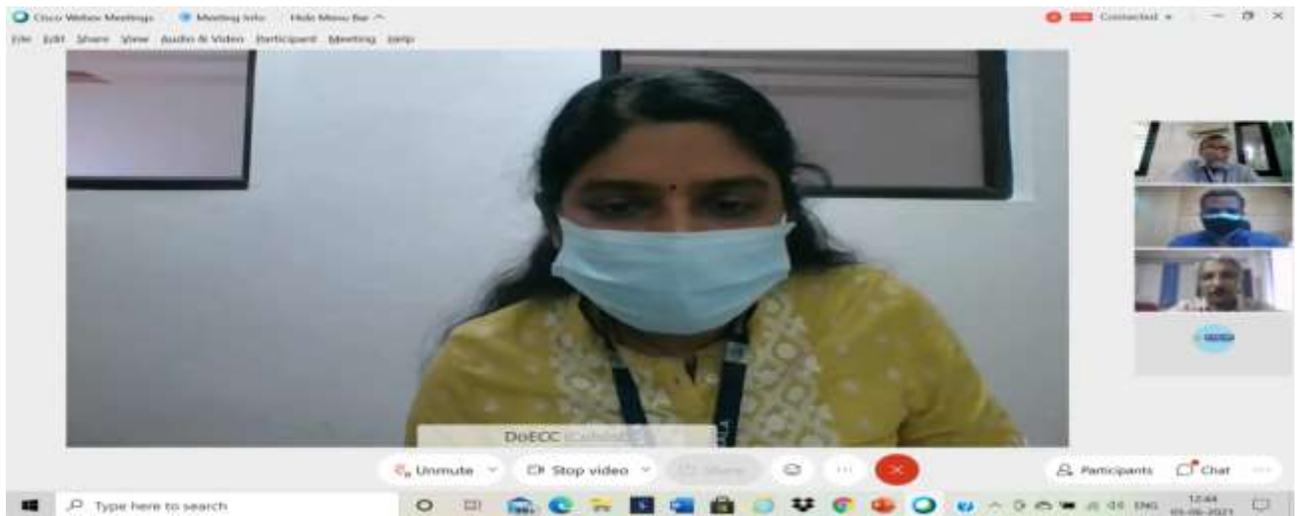
'Sapling of survival' planted. 'Sapling of survival' planted. 'Sapling of survival' planted.

Kerala Chief Minister Shri Pinarayi Vijayan is inaugurating World Environment Day Programme 2021

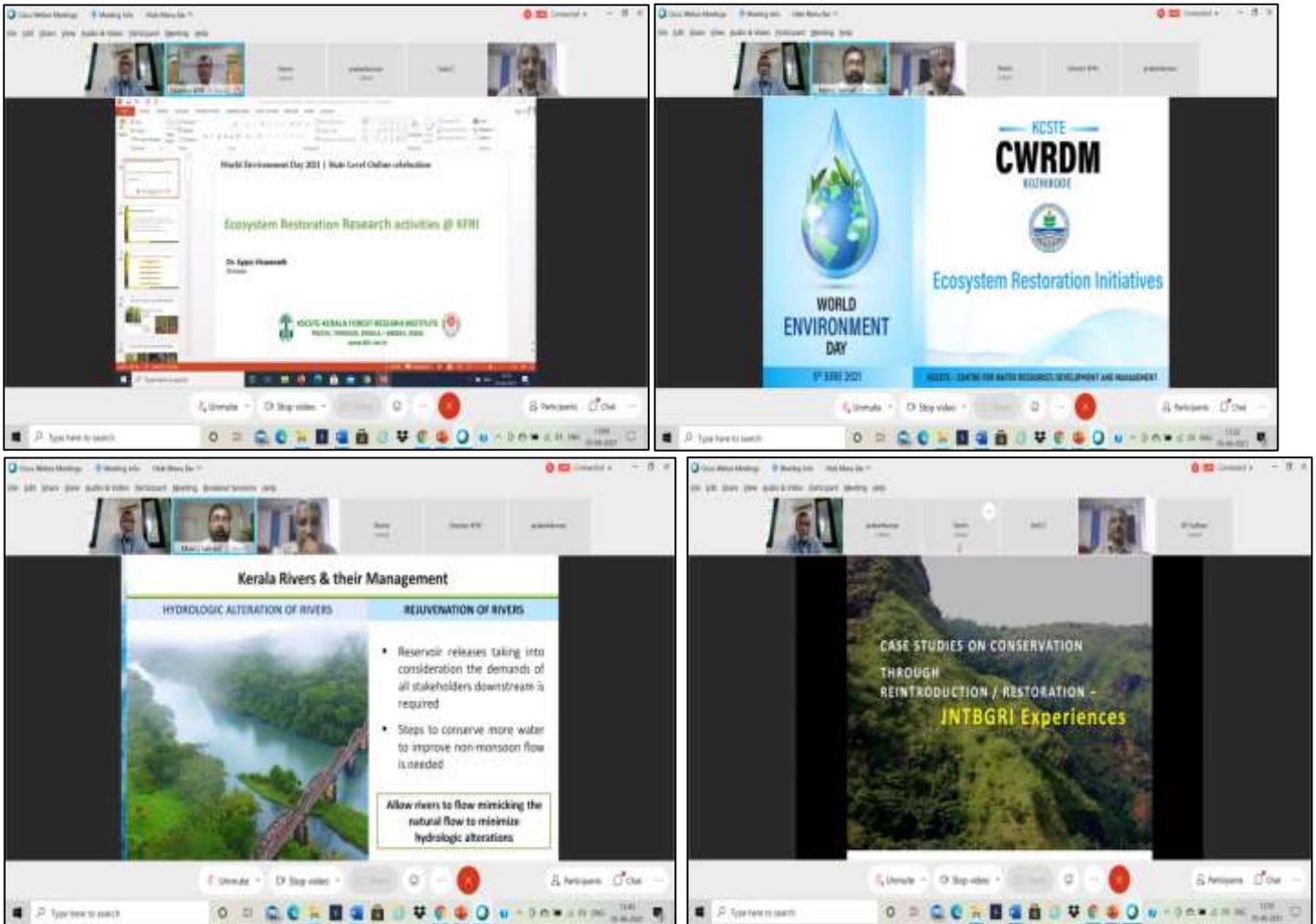


Technical Session on the Focal Theme





## Eco-restoration programmes conducted the R&D Centres of KSCSTE



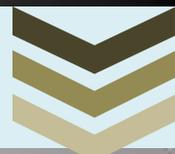
### Vote of thanks by Dr P Harinarayanan, ENVIS Coordinator Kerala



The activities of **Ek Bharat Shreshtha Bharat (EBSB)** Programme was ended with the World Environment Day 2021 celebrations. Active participation of the students of Himachal Pradesh has also noted during all the events so as to promote the learning between States by sharing best practices and experiences. All the technical programmer widely covered the enriched

biodiversity of Kerala and Himachal Pradesh which enables the people to understand and appreciate the diversity that is India, thus fostering a sense of common identity.

# Ek Bharat Shreshtha Bharat Mission



MAHARASHTRA ENVIS HUB  
ENVIRONMENT & CLIMATE  
CHANGE DEPT.,  
MANTRALAYA, MUMBAI  
STATE ANIMAL OF THE  
STATES



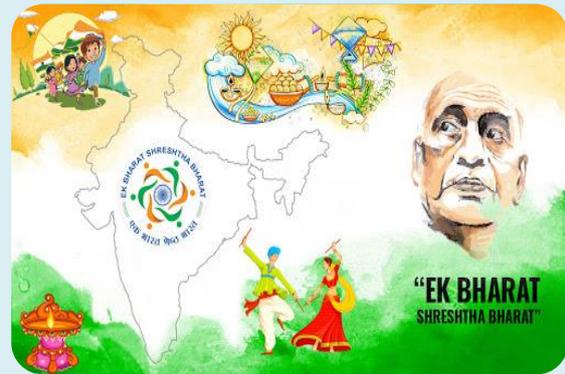
## EK BHARAT SHRESHTHA BHARAT MISSION

### STATE ANIMAL OF THE STATES

India is a unique nation, whose fabric has been woven by diverse linguistic, cultural and religious threads, held together into a composite national identity by a rich history of cultural evolution, coupled with a rousing freedom struggle that was built around the tenets of non-violence and justice.

To strengthen such bonds the idea of a sustained and structured cultural connects between denizens of different regions was mooted by Prime Minister Shri Narendra Modi during the Rashtriya Ekta Divas held on 31st October 2015, to commemorate the birth anniversary of Sardar Vallabhbhai Patel. Subsequently, the Finance Minister announced the initiative in his Budget Speech for 2016-17. Through this innovative measure, the knowledge of the culture, traditions and practices of different states & UTs will lead to an enhanced understanding and bonding between the states, thereby strengthening the unity and integrity of India.

Under this mission Maharashtra united with Orissa for combine activities. The write up will focus on the state animal of both states, their habitat, physical description, distribution & Life span.



# EK BHARAT SHRESHTHA BHARAT MISSION

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## STATE ANIMAL OF THE STATES

### Vision of the Mission:

1

To celebrate the idea of India as a nation wherein different cultural units across varied geographies coalesce and interact with each other, this glorious manifestation of diverse languages, cuisine, music, dance, theatre, movies & films, handicrafts, sports, literature, festivals, painting, sculpture etc. Will enable people to imbibe the innate chord of binding and brotherhood

2

To make our people aware about the seamless Integral hull of the Modern Indian State spread across a vast landmass on whose firm foundations, the geo-political strength of the country is ensured to benefit one and all.

3

To impress upon people at large about the increasing Inter-connectedness between the constituents of various cultures and traditions, which is so vital for the spirit of nation building.

4

To ease out the feeling of "stranger in a strange land" among the people of different states, cultures and traditions living in various states of India.

5

To induce a sense of responsibility & ownership for the nation as a whole through these close cross-cultural interactions as it intends to build up the inter-dependence matrix unequivocally.

6

To celebrate the diversity as well as unity of the Nation at the same time.

7

To generate the vibrance of understanding & appreciation amongst the people and forge mutual bonding to securing an enriched value system of unity in the nation.



# State Animals

of Maharashtra and Odisha

Indian giant squirrel of Maharashtra



Sambar Deer of Odisha



<b>MAHARASHTRA</b>	<b>ORISSA</b>
<ul style="list-style-type: none"> <li>✚ Maharashtra, state of India, occupying a substantial portion of the Deccan plateau in the western peninsular part of the subcontinent</li> <li>✚ It has geographical area of 3,07,713 sq. km, which is 9.36% of the geographical area of the country.</li> <li>✚ The State has reported Recorded Forest Area (RFA) 61,579 sq km which is 20.01 % of its geographical area.</li> <li>✚ The Total Forest cover is 7,12,249 sq km which is 21.67% of the geographical area of the country.</li> <li>✚ The state is divided into 36 Districts and Forest administration is divided into 11 Territorial Forest circles with 51 divisions, 10 Wildlife Divisions. There are 48 Wildlife Sanctuaries.</li> </ul>	<ul style="list-style-type: none"> <li>✚ Odisha is situated in East Central region of India bounded by Bay of Bengal in the east, &amp; by the states of Andhra Pradesh &amp; Telangana to the south and Chhattisgarh to the west.</li> <li>✚ The State has a geographical area of 1,55,707 sq.km.</li> <li>✚ The State has reported Recorded Forest Area (RFA) 61,204 sq km which is 39.31% of its geographical area.</li> <li>✚ The Forest Cover in the State is 51,618.51 sq.km which is 33.15 % of the State's geographical area.</li> <li>✚ The state is divided into 30 Civil Districts and Forest administration is divided into 37 Territorial Forest Divisions, 14 Wildlife Divisions. There are 19 Wildlife Sanctuaries.</li> </ul>
<p><b>Diversity Of Wildlife In Maharashtra: -</b></p> <ul style="list-style-type: none"> <li>✚ The state is favoured with an extremely rich &amp; unique assemblage of wildlife. Maharashtra is home to a large number of animals and bird species, including the tiger, Crocodile, Bison, Gawa, Neelgai, Wild Deer, sloth bear, Sambar and rare migratory birds.</li> <li>✚ Also the most common animal species found in the state are leopard, gaur, sloth bear, four-horned antelope, blue bull, chital, barking deer, mouse deer, small Indian civet, golden jackal, jungle cat, striped hyena, and hare. Other animals in the state include reptiles such as lizards, cobras and kraits.</li> </ul>	<p><b>Diversity Of Wildlife In Odisha: -</b></p> <ul style="list-style-type: none"> <li>✚ Wildlife is a precious gift of God to this planet. Each organism on this earth has a unique place in food chain that contribute to the ecosystem in its own special way.</li> <li>✚ Wildlife species seen are Elephants, Tigers, Leopards, Melanistic Tiger, Black Panther, Hyena, Wolf, Fishing Cat, Leopard Cat, Jungle Cat, Gaur, Sambar, Spotted Deer, Wild boar, Giant squirrels, Pea Fowl, Hill myna, Marsh Crocodile, Gharial, Salt water Crocodile, King Cobra, Sea turtles and Monitor lizard etc. The state has distinction of home to Melanistic Tigers.</li> </ul>
<p><b>State Animal of Maharashtra : -</b> Indian giant squirrel (Ratufa indica)</p>	<p><b>State Animal of Odisha :-</b> Sambar (Rusa unicolor)</p>

<p><b>Habitat : -</b></p> <ul style="list-style-type: none"> <li>✚ Ratufa indica is arboreal, spending most of its time in trees.</li> <li>✚ It makes its shelter within holes in trees. Moving from tree to tree, R. indica can leap 6 meters or more.</li> <li>✚ Giant squirrels rarely leave the trees, usually only to chase other squirrels during the breeding season.</li> <li>✚ Habitat Regions: tropical, terrestrial</li> <li>✚ Terrestrial Biomes: forest, rainforest</li> </ul>	<p><b>Habitat :-</b></p> <ul style="list-style-type: none"> <li>✚ Sambar Deer are water-dependent, so they are never found far from water, but otherwise can be found in a broad range of forest habitats: dry deciduous forest, rainforest and mixed forests.</li> <li>✚ Habitat Regions: tropical,</li> <li>✚ Terrestrial Biomes: dry deciduous forest, rainforest</li> </ul>
<p><b>Physical Description :-</b></p> <ul style="list-style-type: none"> <li>✚ Ratufa indica has dorsal coloration that varies from deep red to brown, the ventral fur is white.</li> <li>✚ They have short, round ears, a broadened hand with an expanded inner paw for gripping, and large, powerful claws used for gripping tree bark and branches.</li> <li>✚ Total body length varies from 254 to 457 mm and tail length is approximately the same as body length. These squirrels weigh approximately 1.5 to 2 kg (Nowak 1999).</li> </ul>	<p><b>Physical Description :-</b></p> <ul style="list-style-type: none"> <li>✚ They have a coarse coat of short, dark hair with lighter brown to creamy white hair on their undersides.</li> <li>✚ The color of body is dark or light brown with a yellowish or greyish tinge.</li> <li>✚ The under parts are paler in color. Old Sambar's tend to become very dark brown, almost black.</li> <li>✚ Male sambar has unique stout and rugged antlers. The antlers are typically up to 110 cm long in adult individuals &amp; the tail is relatively long for deer (15 to 30 cm),</li> </ul>
<p><b>Lifespan/Longevity :-</b></p> <p>One captive R. indica lived to be 20 years old, longevity in the wild is unknown.</p>	<p><b>Lifespan/Longevity :-</b></p> <p>The average lifespan of sambar is between 16 to 20 years.</p>
<p><b>Distribution:</b></p> <ul style="list-style-type: none"> <li>✚ Giant squirrels are found primarily in moist tropical forests (Nowak 1999).</li> <li>✚ Mascot for Satpura Tiger Reserve</li> <li>✚ Satpuras connecting link between western ghats and eastern Himalayas</li> <li>✚ Giant Squirrel is endemic to India &amp; widely distributed in Western ghats, Eastern ghats &amp; Central India.</li> <li>✚ Satpura national park has huge population density of giant squirrel.</li> </ul>	<p><b>Distribution:</b></p> <ul style="list-style-type: none"> <li>✚ The Sambar is the most widely distributed of all the deer in South Asia and is found in a variety of habitats; from around 10,000 feet in the Himalayan foothills, to the uplands of Central India.</li> <li>✚ Sambar are present throughout Peninsular India including the wet evergreen forests of the Western Ghats, and are also found in Sri Lanka.</li> </ul>

## References:

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<http://www.wildvistas.com/fauna/Sambar/sambar.html>

# Environmental Information System, (ENVIS) Environment & Climate Change Department, Govt of Maharashtra, Mantralaya, Mumbai-32.

**ENVIS Centre: Maharashtra**  
Status of Environment and Related Issues  
Hosted by Directorate of Environment, Govt. of Maharashtra

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22nd April World Earth Day

## Contact Us:

Environmental Information System (ENVIS),  
Environment & Climate Change Department,  
Govt of Maharashtra, 15th floor, New Administrative  
Building, Madam Kama Road, Mantralaya, Mumbai -32

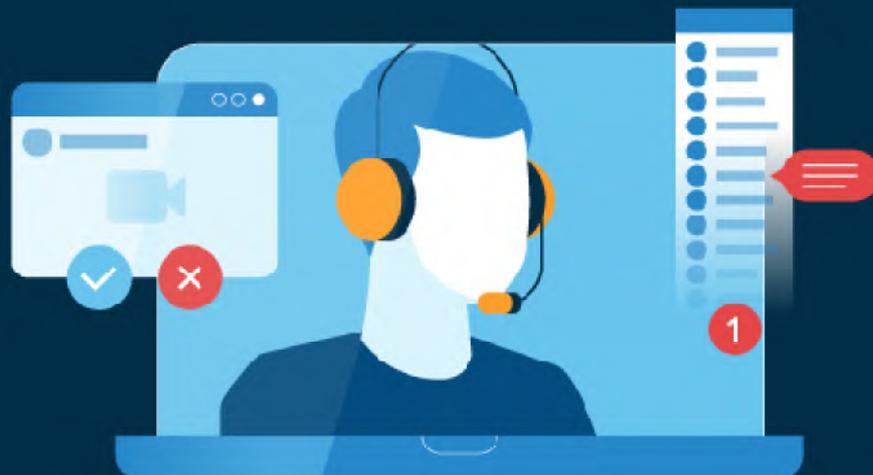
Email- [mah-env@nic.in](mailto:mah-env@nic.in)

Website- <http://mahenvis.nic.in>

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# Ek Bharat Shrestha Bharat

## Activities by ENVIS Hub, Odisha



**STATE ENVIS HUB**

**CENTRE FOR ENVIRONMENTAL STUDIES**

**FOREST & ENV. DEPT., GOVT. OF ODISHA**

## Webinars under Ek Bharat Shreshtha Bharat Programme

As per the instruction of ENVIS Secretariat, Ministry of Environment, Forest & Climate Change (MoEF&CC), Government of India; State ENVIS Hub, Centre for Environmental Studies (CES), Department of Forest & Environment, Government of Odisha has organized three (3) no. of Webinars jointly with ENVIS Resource Partner on Avian Ecology, Bombay Natural History Society (BNHS) **during the month of April 2021.**

### DETAILS OF WEBINARS

Sl. No.	Date	Time	Topic	Speaker	Google Form Link	No. of Participants
1.	17 April 2021	7 pm - 8 pm	Habitat Ecology of Birds	Miss Swetashree Purohit, PhD Scholar, Central University, Koraput, Odisha	<a href="https://forms.gle/mqHCvJqM1sZUrxsV7">https://forms.gle/mqHCvJqM1sZUrxsV7</a>	225
2.	18th April 2021	7 pm - 8 pm	Biology of Birds	Dr Siba Prasad Parida, Associate Professor, Centurion University, Bhubaneswar, Odisha	<a href="https://forms.gle/WdwQt8NdKFEWa2TS6">https://forms.gle/WdwQt8NdKFEWa2TS6</a>	294
3.	24 April 2021	7 pm - 8 pm	Bird Migration Study Technique	Ms. Tuhina Katti Scientist-B, Bombay Natural History Society	<a href="https://forms.gle/sa83igFadXcVoxDJ7">https://forms.gle/sa83igFadXcVoxDJ7</a>	329

### WEBINAR BANNER



**Ek Bharat Shreshtha Bharat Programme**  
Join Online Webinar

On the occasion of “Ek Bharat Shreshtha Bharat Programme”  
ENVIS Resource Partner on Avian Ecology, Bombay Natural History Society (BNHS-  
ENVIS) and ENVIS Hub, Centre for Environmental Studies, Forest & Environment  
Department, Government of Odisha, are jointly organizing an online webinar

**Topic:- Habitat Ecology of Birds**  
**Expert:- Miss Swetashree Purohit**  
PhD Scholar, Central University  
Koraput, Odisha

**Saturday, 17 April 2021**  
**Time:- 7 pm to 8 pm**  
**No registration fees**



## Ek Bharat Shreshtha Bharat Programme

### Join Online Webinar

On the occasion of “Ek Bharat Shreshtha Bharat Programme”

ENVIS Resource Partner on Avian Ecology, Bombay Natural History Society (BNHS-ENVIS) and ENVIS Hub, Centre for Environmental Studies, Forest & Environment Department, Government of Odisha, are jointly organizing an online webinar

**Topic:- Biology of birds**

**Sunday, 18 April 2021**

**Time:- 7 pm to 8 pm**

**No registration fees**

**Expert:- Dr Siba Prasad Parida**

Associate Professor

Centurion University, Bhubaneswar



## Ek Bharat Shreshtha Bharat Programme

### Join Online Webinar

On the occasion of “Ek Bharat Shreshtha Bharat Programme”

ENVIS Resource Partner on Avian Ecology, Bombay Natural History Society (BNHS-ENVIS) and ENVIS Hub, Centre for Environmental Studies, Forest & Environment Department, Government of Odisha, are jointly organizing an online webinar

**Topic:- Bird migration study technique**

**Saturday 24 April 2021**

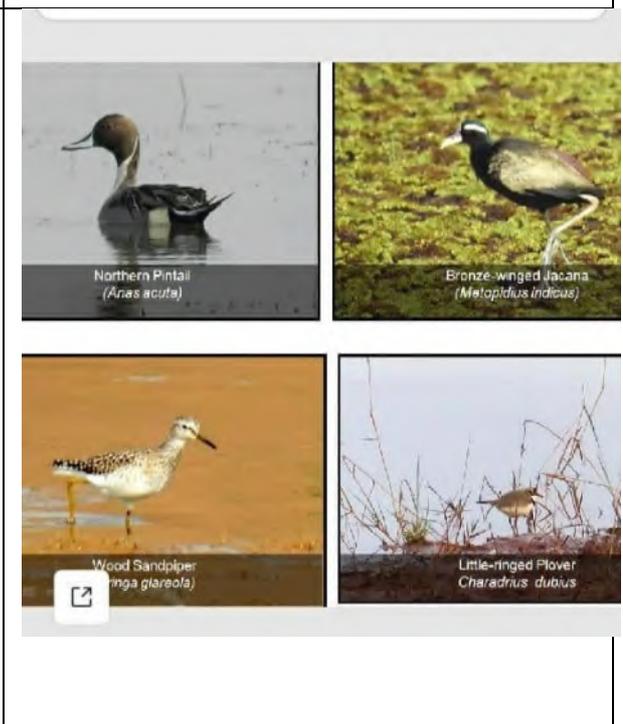
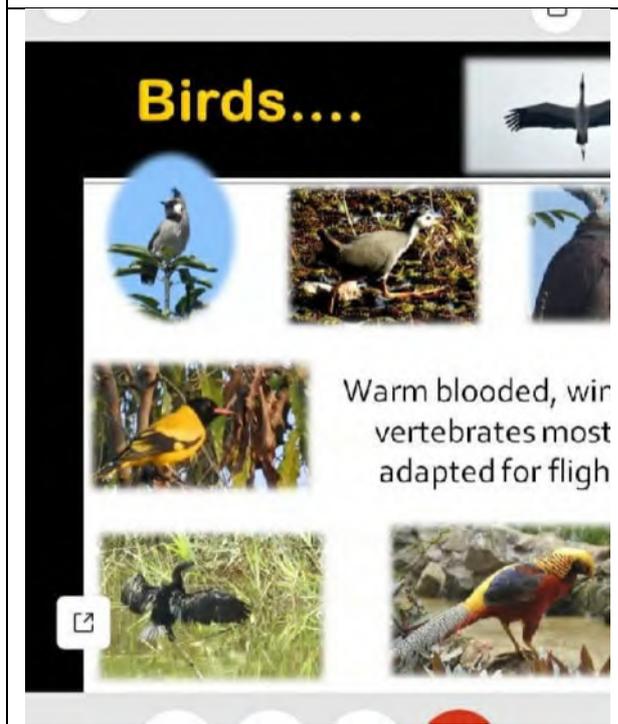
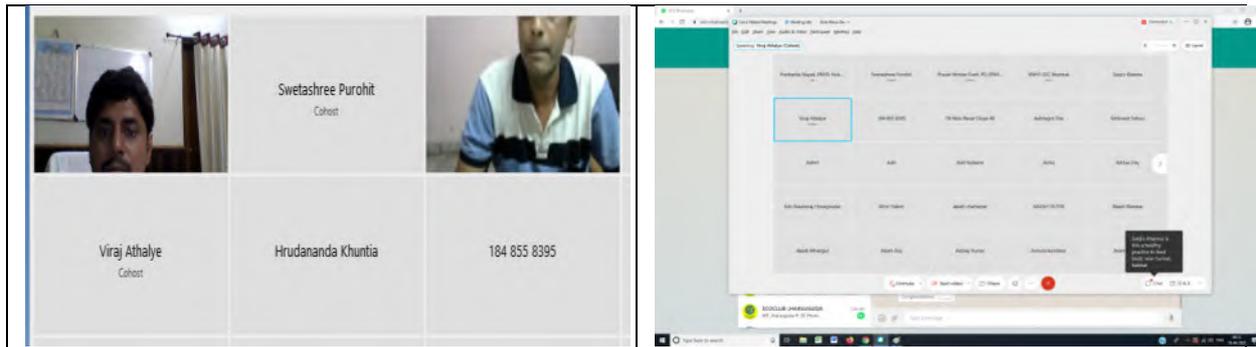
**Time:- 7 pm to 8 pm**

**No registration fees**

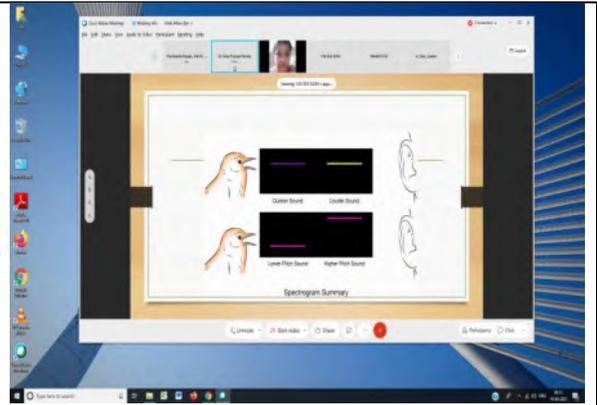
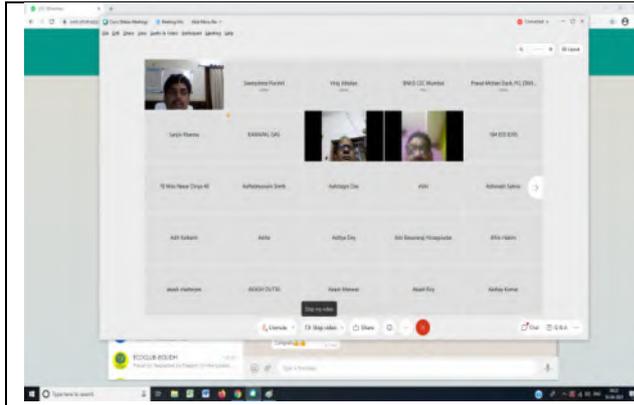
**Expert:- Ms Tuhina Katti**

(Scientist-B, Bombay Natural History Society)

## SCREEN SHOTS WEBINARS (17.04.2021)



# SCREEN SHOTS WEBINARS (18.04.2021)



period	events
Quaternary	evolution of humans
Neogene	mammals diversify
Paleogene	extinction of dinosaurs
Cretaceous	first primates
	first flowering plants
Jurassic	first birds
	dinosaurs diversify
Triassic	first mammals
	first dinosaurs
	major extinctions

SK

... (cohost)

DN

BM

B... (host)



Speaking: Sushmita Karmak...

## Hierarchy of taxonomic levels

- Kingdom- Animalia
- Phylum- Chordata
- Class- Aves
- Order- Passeriformes
- Family- Corvidae
- Genus- *Corvus*
- Species- *splendens*



## Lift (Bernoulli)



- Normally, air moves along smoothly in streams
- Airflow is disturbed when a wing moves through it, and air divides around the wing and meets up
- The top surface of the wing is curved
- The air moving across the top of the wing goes faster than the air moving under the bottom (to catch up)

## SCREEN SHOTS WEBINARS (24.04.2021)

<h3>Why track birds???</h3> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <h4>Conservation</h4> <ul style="list-style-type: none"> <li>Breeding &amp; Wintering locations</li> <li>Stopover sites</li> <li>Connectivity</li> </ul> <h4>Physiology</h4> <ul style="list-style-type: none"> <li>Energy usage</li> <li>Hormones</li> <li>Gut microbiomes</li> </ul> </div> <div style="width: 45%;"> <h4>Ecology</h4> <ul style="list-style-type: none"> <li>Carry-over effect</li> <li>Disease spreading</li> </ul> <h4>Behaviour</h4> <ul style="list-style-type: none"> <li>Navigation</li> <li>Space use</li> <li>Territoriality</li> </ul> </div> </div>	<h3>Bar-tailed Godwit</h3> <p>Speaking: Tuhina</p>
<h3>Navigation Techniques</h3> <p><b>EYE:</b> Birds imprint on the patterns of the sun and stars. Complex chemical reactions between a bird's eyes and brain also work with its magnetic navigation capabilities to allow the bird to sense which way is north.</p> <p><b>EAR:</b> Tiny concentrations of iron in a bird's brain help it navigate Earth's magnetic field.</p> <p><b>BEAK:</b> Birds may use an "olfactory map" to smell their way around. The nerves in a bird's beak may help it determine the angle created by Earth's magnetic field and Earth itself. This helps...</p> <p>Speaking: Tuhina, karsharm...</p>	<h3>Data collected</h3> <h4>Moult</h4>
<h3>Bird Migration Studies in India</h3> <ul style="list-style-type: none"> <li>Commenced in 1927</li> <li>Provided data on longevity, site fidelity and movement pattern</li> <li>Helped mark the boundaries of Central Asian Flyway and African-Eurasian Flyways</li> <li>The birds ringed in India have been recovered in 29 countries spread over in five continents (Asia, Africa, Europe, Australia, Antarctica).</li> </ul>	<h3>Colour Tag</h3> <p>Celluloid colour bands</p>

## Online Quiz Competition

### under Ek Bharat Shreshtha Bharat Programme

State ENVIS Hub, Odisha has organized an online quiz competition for School Students Classes 7 to 10 jointly with ENVIS Resource Partner on Avian Ecology, Bombay Natural History Society (BNHS) **during the month of May 2021.**

#### DETAILS OF ONLINE COMPETITION

Sl. No.	Date	Time	Topic	Google Form Link (Registration Form)	No. of Participants
1.	17 May 2021	4 pm - 6 pm	Know Your Birds	<a href="https://forms.gle/yL8dgE5cSPs3zAh79">https://forms.gle/yL8dgE5cSPs3zAh79</a>	More than 500

#### WEBINAR BANNER



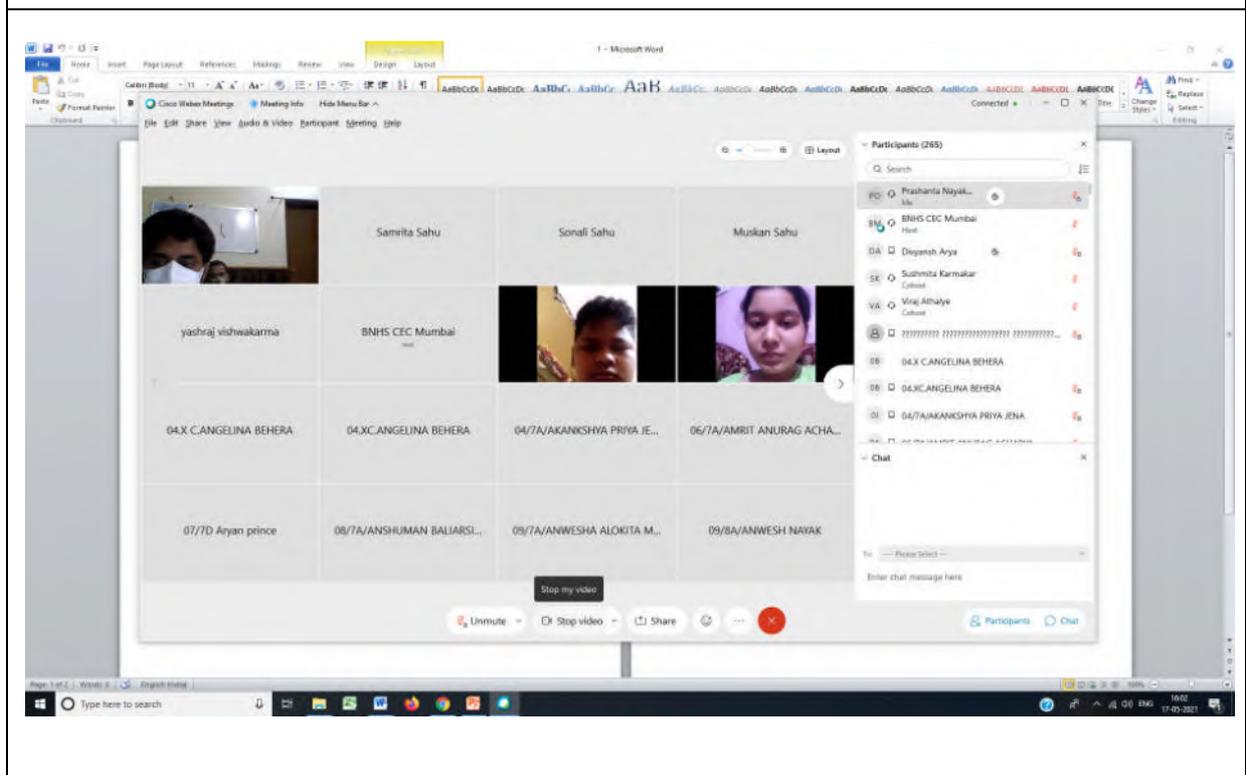
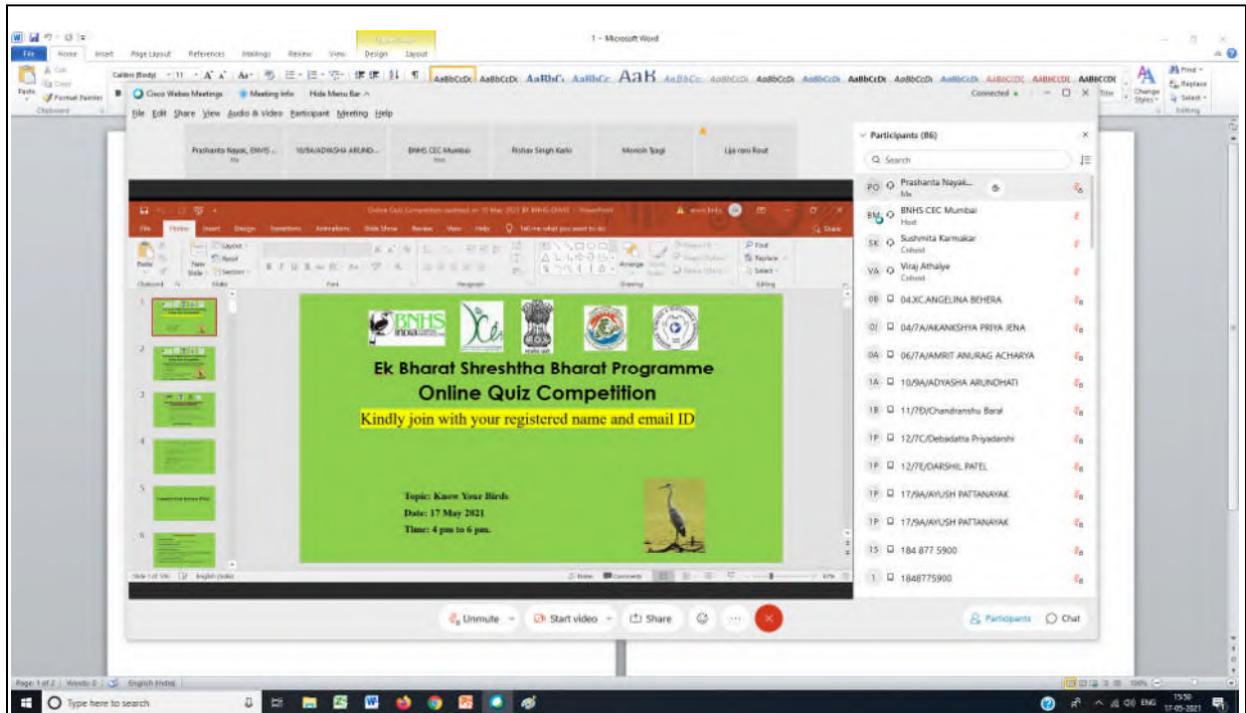
**Ek Bharat Shreshtha Bharat Programme**  
**Online Quiz Competition**

**Kindly join with your registered name and email ID**

**Topic: Know Your Birds**  
**Date: 17 May 2021**  
**Time: 4 pm to 6 pm.**



# SCREEN SHOTS ONLINE COMPETITION (17.05.2021)





सत्यमेव जयते  
Government of Puducherry



**Report**  
**of**  
**'Ek Bharat Shreshtha**  
**Bharat'**  
**April - June, 2021**

***Submitted by***

**PUDUCHERRY ENVIS HUB  
PUDUCHERRY POLLUTION CONTROL COMMITTEE  
3<sup>rd</sup> Floor, PHB Building  
Anna Nagar  
Puducherry – 605 005.  
Telephone: (0413) 2201256  
Website URL: <https://dste.py.gov.in/Envispy/>  
Email Id: [envis.pon@nic.in](mailto:envis.pon@nic.in)**

## CONTENT

<b>Sl. No.</b>	<b>INDEX</b>
1.	Report on Celebration of Earth Day
2.	Infographics released on World Migratory Bird Day
3.	Infographics released on National Technology Day
4.	Infographics released on World Bee Day
5.	Report on International Day for Biological Diversity Celebration
6.	Infographics released on World Turtle Day Celebration
7.	Report on World Environment Day Celebration
8.	Report on World Oceans Day Celebration
9.	Report on Sea Turtle Day Celebration

## Report on Celebration of Earth Day

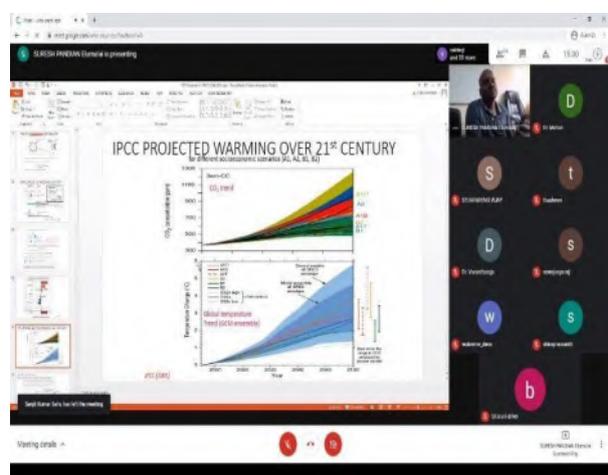
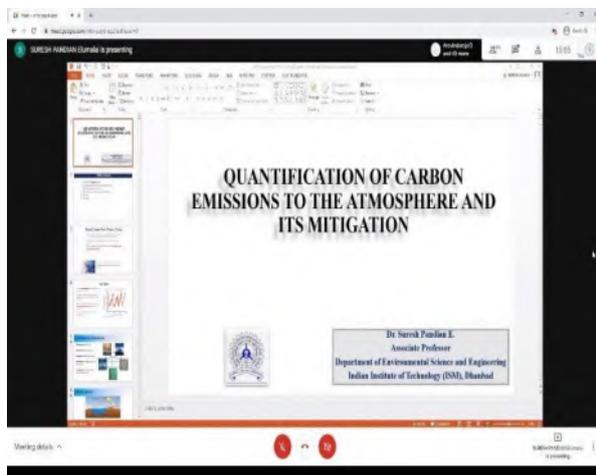
Earth Day is annually observed on 22<sup>nd</sup> April throughout the world to celebrate and honour planet earth and its natural environment. The Earth Day movement is primarily aimed at protecting and conserving the environment. The celebration of Earth Day first begun in 1970, marked by more than a billion people every year as a day of action to change human behaviour and create global, national and local policy changes.

As a part of the “Earth Day” celebration, the Puducherry ENVIS Hub organized a webinar on 22.04.2021.



### **Expert Talk**

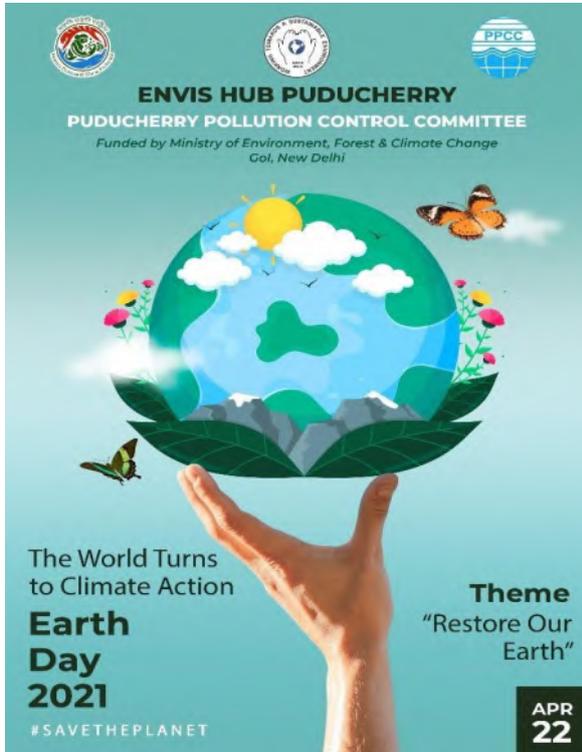
Dr. Suresh Pandian Elumalai, Assistant Professor, Department of Environmental Science & Engineering, Indian Institute of Technology (ISM), Dhanbad, Jharkhand delivered expert lecture on **“Quantification of Carbon Emission to the Atmosphere and its Mitigation”** on the eve of Earth Day on 22.04.2021. The number of participants were 86.



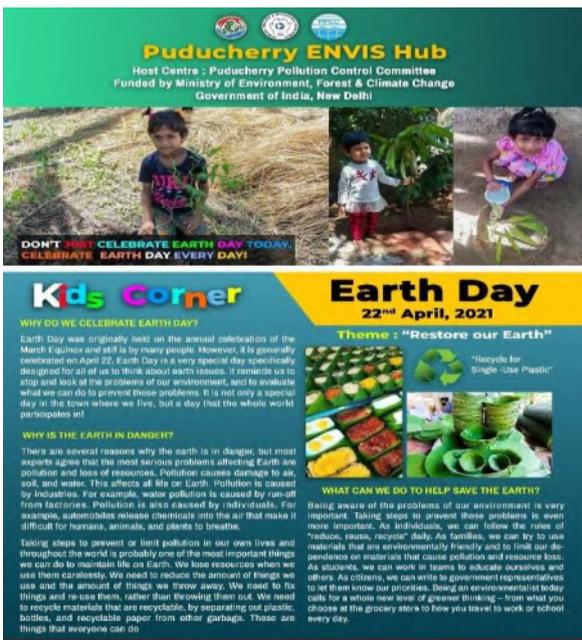
## Infographics released on World Earth Day Celebration

Awareness posters and pamphlet were released in online during the occasion to spread the message about protecting and conserving the environment.

### Poster:

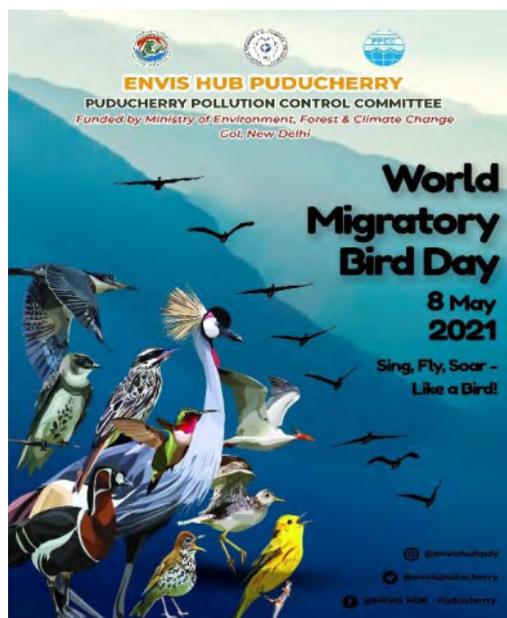


### Pamphlet:



## *Infographics released on World Migratory Bird Day on 08.05.2021*

Awareness posters were released digitally during the occasion of World Migratory Bird Day on 08.05.2021, to highlight the importance of conserving and restoring the ecological connectivity and integrity of ecosystems that support the natural movements of migratory birds and that are essential for their survival and well-being.



## *Infographics released on National Technology Day on 11.05.2021*

Awareness poster was released digitally during the occasion of National Technology Day on 11.05.2021, to mark the achievements and contributions of the countrymen in the field of science and technology.



## Infographics released on World Bee Day on 20.05.2021

Awareness poster & pamphlet were released digitally during the occasion of World Bee Day on 20.05.2021, to raise awareness of the importance of pollinators, the threats faced by the bees and their contribution to sustainable development.



## Report on International Day for Biological Diversity Celebration

International Day for Biological Diversity is annually observed on 22nd May for increasing understanding and awareness about the importance, role and issues concerning biodiversity amongst the stakeholders of biodiversity from different walks of life and conservation and sustainable use of biological diversity on the earth.

Celebrating International Biodiversity Day every year affirms our resolve and reflects on our responsibility to safeguard the precious heritage of bio-resources for future generations on the earth.

The theme for IBD for the year 2021 is “We’re part of the solution”. The slogan was chosen to be a continuation of the momentum generated last year under the over-arching theme, “Our solutions are in nature”, which served as a reminder that biodiversity remains the answer to several sustainable development challenges. From nature-based solutions to climate, health issues, food and water security, and sustainable livelihoods, biodiversity is the foundation upon which we can build back better.

As a part of the “International Day for Biological Diversity” celebration, the Puducherry ENVIS Hub organized a webinar on 22.05.2021.



The poster features a light blue background with white bubbles and illustrations of marine life including a striped fish, a clownfish, a blue fish, a yellow fish, coral, and a whale. At the top, there are three logos: the Government of Puducherry, the Ministry of Environment, Forest & Climate Change, and the Puducherry Pollution Control Committee (PPCC). The main text is centered and reads: **ENVIS HUB PUDUCHERRY**, **PUDUCHERRY POLLUTION CONTROL COMMITTEE**, *Funded by Ministry of Environment, Forest & Climate Change, Govt, New Delhi*, **EK BHARAT SHRESTHA BHARAT PROGRAMME (EBSB)**, *Webinar on*, **MARINE FAUNAL DIVERSITY OF INDIA**, *on the occasion of International Day for Biological Diversity 2021*. A circular portrait of Dr. C. Sivaperuman is shown next to his name and title: **DR. C. SIVAPERUMAN**, **SCIENTIST-E**, **ZOOLOGICAL SURVEY OF INDIA**, **ANDAMAN & NICOBAR REGIONAL CENTRE, MOEF&CC**. Below this, the date and time are listed: **DATE: 22.05.2021** **TIME: 03.00 PM**. The Google Meeting ID is **who-payd-epz** and the link is **Link: <https://meet.google.com/who-payd-epz>**. A red YouTube icon is followed by **Live Streaming**. At the bottom, there are social media icons for Facebook and Twitter, with handles **@ENVIS HUB - Puducherry** and **@envispuducherry** respectively.

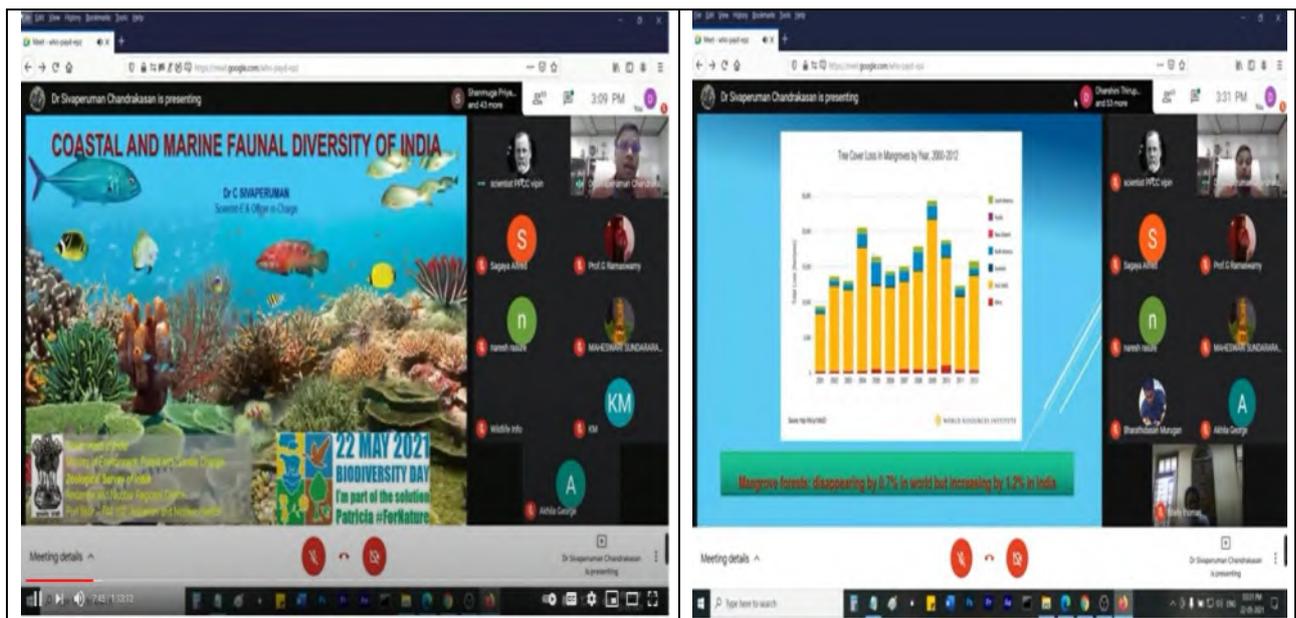
## Welcome address:

Dr. R. Sagaya Alfred, Senior Scientific Officer, DST&E welcomed the Expert and participants and gave a brief introduction highlighting the importance, role and issues concerning biodiversity.



## Webinar Talk:

Dr. C. Sivaperuman, Scientist – E, ZSI, Andaman & Nicobar Regional Centre, MoEF&CC delivered expert lecture on **“Marine Faunal Diversity of India”** on the eve of International Day for Biological Diversity on 22.05.2021. He highlighted the activities carried out in Zoological Survey of India, Marine Coastal Biodiversity, types of marine faunal diversity, Marine Protected areas and threats to marine faunal diversity. The number of participants were 80.



## Drawing Competition

Conducted Online Drawing competition for the school students from 11 yrs – 17 yrs on the topic 'We are the part of the solution'. Around 28 contestants were participated in the event. The prizes were distributed for the selected winners.

**EK BHARAT SHRESTHA BHARAT PROGRAMME (EBSB)**  
on the occasion of  
**INTERNATIONAL DAY FOR  
BIOLOGICAL DIVERSITY  
2021**

**Theme: "We're part of the solution"**

Get ready to participate  
**DRAW TO  
WIN CONTEST**

stand a chance to win  
**attractive Prizes!**

**Eligibility of Contest**

- Ages 11-17 years.
- Only one entry per person.
- Contest is only for UT of Puducherry students.

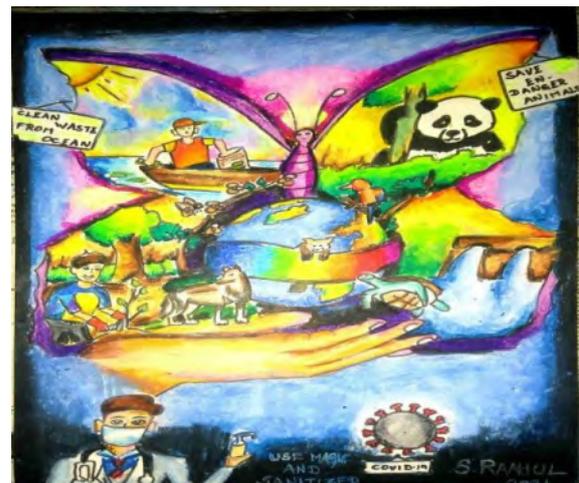
Start Date: 15.05.2021  
End Date: 22.05.2021

Submit your entries at: [shorturl.at/suHY2](https://shorturl.at/suHY2)

@envishubpdy @envispuducherry @ENVIS HUB - Puducherry



S. Preetha, 9<sup>th</sup> Std  
I<sup>st</sup> Prize



Raahul. S  
II<sup>nd</sup> Prize



Sri Subanesh Mugunthan. S  
III<sup>rd</sup> Prize

## Infographics Released

Awareness poster released digitally during the occasion of International Day of Biological Diversity on 22.05.2021 in order to spread the message about conservation of biodiversity.

# BIOLOGICAL DIVERSITY DAY-2021

**THEME :**  
"We're part of the solution #ForNature"  
"நாம் அனைவரும் தீர்வின் ஓர் பகுதி"

### ABOUT

The United Nations dedicated May 22 of every year as International Day for Biological Diversity to develop awareness about bio diversity issues. The first International Day for Biological Diversity, also known as World Biodiversity day, was created in a UN General Assembly in 1993.

Since 2001, it is celebrated every year. This year's celebration is special as it will be the first ever online-only campaign increasing awareness during a pandemic. The theme for this year is "We are part of the solution" — which shows people are a part of nature.

The term biodiversity stems from two different words: biological and diversity. It refers to the variety of life on Earth. The three types of biodiversity include:

- ✔ Genetic diversity
- ✔ Species diversity
- ✔ Ecosystem diversity

Biodiversity is very important for many reasons. It supplies the earth with clean water and oxygen. Biodiversity also enables plants to grow, which produces food for humans and animals. Other benefits of biodiversity is that it keeps pests and diseases in check and protects against flooding. It also helps to regulate the climate. Together, all of these benefits are known as ecosystem services.

The health of the earth suffers when biodiversity decreases. It's also true of humans. The less biodiversity, the poorer our health becomes. Some even believe that pandemics are related to the loss of biodiversity. Now more than ever, we need to spread awareness for the importance of biodiversity.



## PUDUCHERRY ENVIS HUB

Host Centre: Puducherry Pollution Control Committee  
Funded by Ministry of Environment, Forest & Climate Change  
Government of India, New Delhi



### WHAT IS BIODIVERSITY?

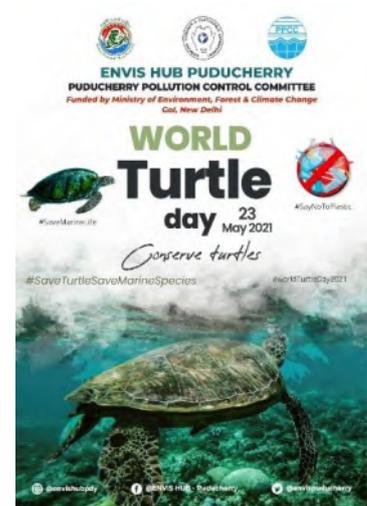
- ✔ Biodiversity or Biological diversity means the life on Earth constitutes a variety of living organisms. There are at least 8 million species on this planet including plants, animals, fungi, bacteria to name a few. The biodiversity we have today was formed through billions of years of evolution.
- ✔ Ecosystems like deserts, forests, wetlands, mountains, lakes, rivers are also a part of biodiversity which allows living
- ✔ Biodiversity is key for food security and nutrition; and contributes to the achievement of Sustainable Development Goal 1 on poverty eradication and Goal 2 on zero hunger. Food systems depend on biodiversity and the ecosystem services that support agricultural productivity, soil fertility, and water quality and supply. For example, pollination is one of the most important mechanisms in the maintenance and promotion of biodiversity and life on Earth. Pollinators and pollination are critical for food production and human livelihoods, and directly link wild ecosystems with agricultural production systems.
- ✔ The soil's ecosystem (microorganisms and invertebrates) are also critical for food security.

**Social Media :**

- ✔ @envispuducherry
- ✔ ENVIS HUB - Puducherry
- ✔ envishubpdyl/
- ✔ ENVIS Puducherry

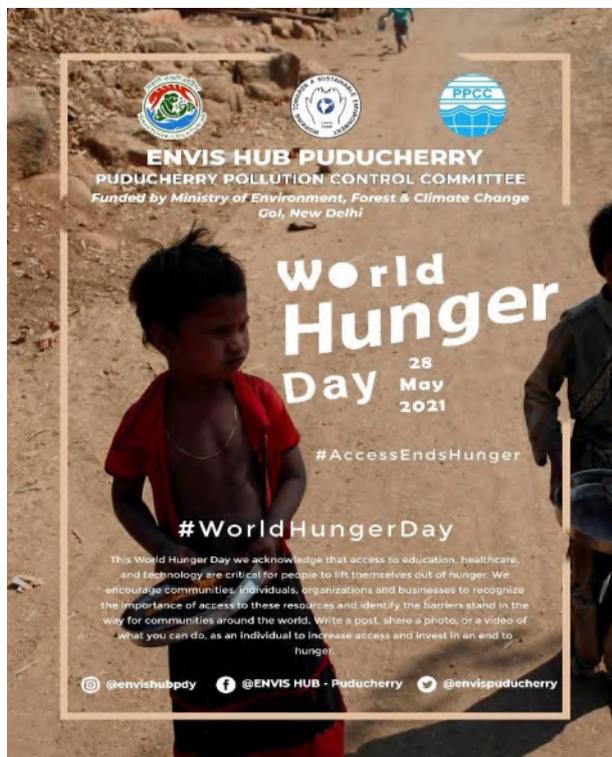
## Infographics released on World Turtle Day Celebration on 23.05.2021

Awareness posters and pamphlet were released digitally during World Turtle Day Celebration on 23.05.2021 to spread the message about protecting and conserving the turtles.



## Infographics released on World Hunger Day Celebration

Awareness posters were released digitally during World Hunger Day on 28.05.2021, to create awareness about the 815 million people across the globe who are living in chronic hunger.



## *Report on World Environment Day Celebration on 5<sup>th</sup> June, 2021*

World Environment Day is the United Nations' (UN) most important day for encouraging worldwide awareness and action for the protection of our environment. Since it began in 1974, it has grown to become a global platform for public outreach that is widely celebrated in over 100 countries. World Environment Day is the "people's day" for doing something to take care of the Earth.

The UNEP has designated June 5 as World Environment Day for encouraging worldwide awareness and action for the environment. Every year World Environment Day is celebrated by this Department on a specific theme designated by UNEP to protect nature. Each World Environment Day is organized around a theme that focuses attention on a particularly pressing environmental concern. The theme for World Environment Day 2021 is 'Ecosystem Restoration' and Pakistan will be the global host for the day. This World Environment Day will kick off the UN Decade on Ecosystem Restoration (2021-2030), a global mission to revive billions of hectares, from forests to farmlands, from the top of mountains to the depths of the sea.

As a part of the World Environment Day, Department of Science, Technology & Environment, Puducherry Pollution Control Committee (PPCC) along with ENVIS Hub and Puducherry Climate Change Cell (PCCC) organized the following activities from 05.06.2021 to 08.06.2021.

### **Details of the activities undertaken during the event:**

- a) Quiz virtual mode
- b) Webinar
- c) Panel Discussion
- d) Poem competition
- e) Story Telling Competition
- f) Poster Making Competition.
- g) Release of Infographics

## Activity – I

### Online Quiz

Conducted Online Quiz for the school students from 12 to 18 years on the topic “Ecosystem Restoration”.



**The contents/message of the activity:** Environment related quiz competition of the school students.

- General Questions
- Ecology & Environment Questions
- Marine animals and Birds
- Identification of personalities
- Environmental Pollution
- Biodiversity and Environment
- Identify the picture

**The method (used to get the message across):**

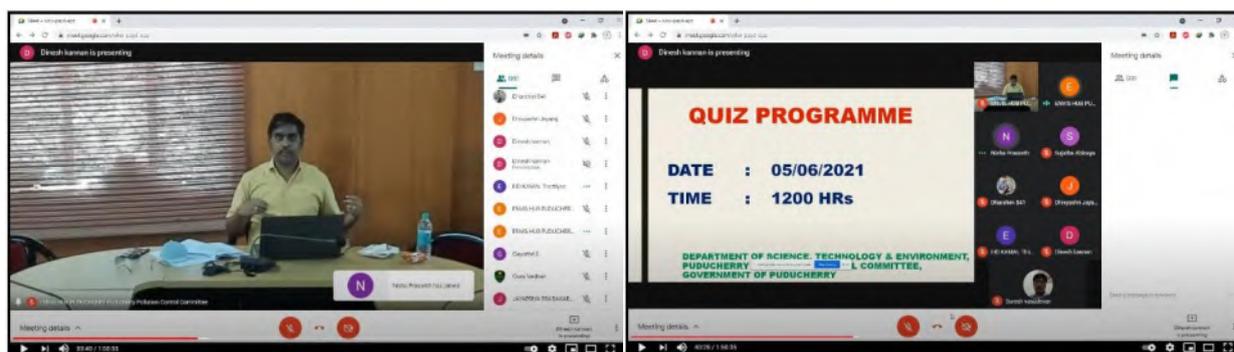
Advertisement given in the local dailies.

*The following methods used for quiz competition:*

- Quiz will contain 2 rounds - Preliminary Round and Final Round based on the no. of participants.
- The Preliminary Round conducted through Google Form.
- The Final Quiz Round has been conducted through Google Meet Platform in virtual platform.

**No. of entries / Participants:**

- For preliminary round, 143 students participated, from which 15 were selected for final round.
- Out of these 15 students, 3 were selected as winners in the event.
- E-certificates were issued for all contestants.



**Photoclips: Virtual Quiz Competition**

## Activity – II

**The name of the activity:** Webinar: Talk & Panel Discussion

**ENVIS HUB PUDUCHERRY**  
PUDUCHERRY POLLUTION CONTROL COMMITTEE  
Funded by Ministry of Environment, Forest & Climate Change  
GoI, New Delhi

**Ek Bharat Shrestha Bharat Programme (EBSB)**

**World Environment Day' 2021**

Theme: "Ecosystem Restoration"

REIMAGINE  
RECREATE  
RESTORE  
#GenerationRestoration

**Webinar: Talk & Panel Discussion** **05.06.2021**  
"Understanding Ecosystems of Puducherry and their restoration challenges" **4.00 PM**

Key Note Address:  
• Smt. Smitha, R, IAS  
Secretary to Govt. of Puducherry (Environment)

Theme Talk:  
• Dr. G. Poyyamoli, Professor (Retd.), Pondicherry University

Panel Discussion:  
Moderated by  
• Dr. S. Dinesh Kannan, IFS., Director, DSTE  
• Dr. G. Poyyamoli, Professor (Retd.), Pondicherry University

Panel Members  
• River Ecosystem - Dr. N. Ramesh, DSTE  
• Tanks and Ponds Ecosystem - Shri. Probir Banerjee, PondyCAN  
• Urban Ecosystem - Er. S. Arul, INTACH  
• Mangrove Ecosystem - Dr. M. Selvamankandan, PEMFDPS  
• Forest Ecosystem - Shri. L. Pravin Kumar, ACT

Click here to Register:  
[shorturl.at/crAGI](https://shorturl.at/crAGI)

Watch the Event at  
[tvi-erjh-pga](https://tvi-erjh-pga)  
[shorturl.at/dCJTZ](https://shorturl.at/dCJTZ)

@envishubpd @ENVIS HUB - Puducherry @envispuducherry

**The goal of the activity:**

- Enables the knowledge of the participants to gain their knowledge on best practices.
- Increase the knowledge of latest trends and strategies and, at the same time, increase your professional worth.
- Expert talk on the subject of Eco Restoration.

**Targeting group:**

Students & Public.

**The contents/message of the activity:**

Ecosystem Restoration.

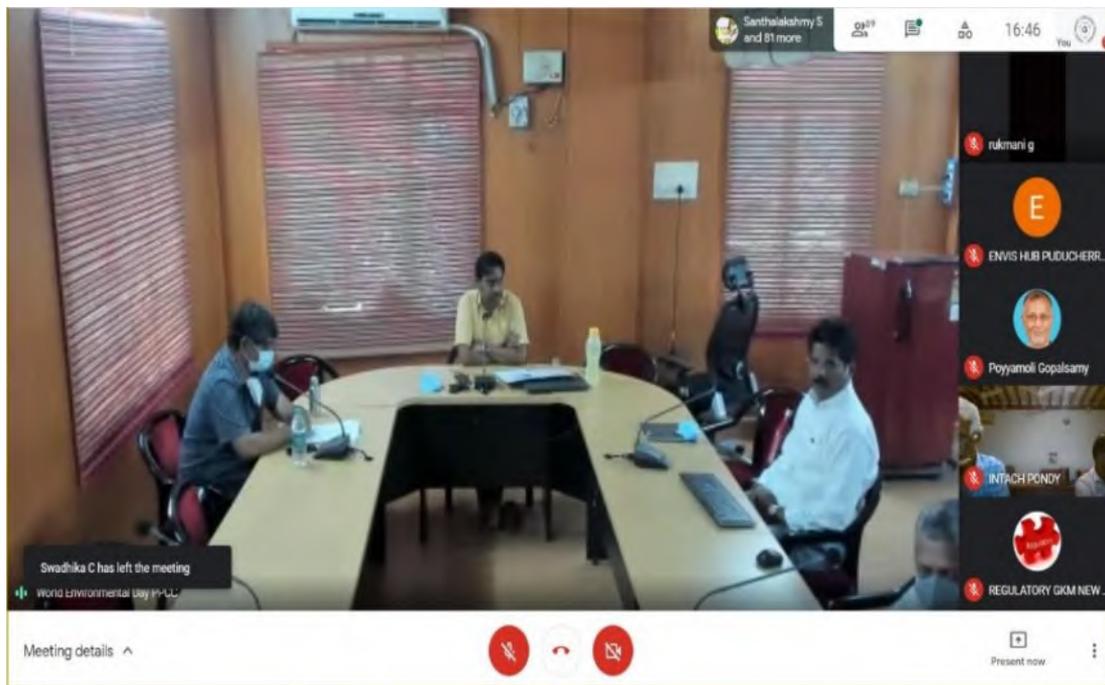
**The method (used to get the message across):**

The methods used to conduct talk and panel discussions are:

- Welcome the guest
- Key note address regarding the event.
- Webinar delivered by the expert.
- Panel discussion by the members
- Vote of thanks

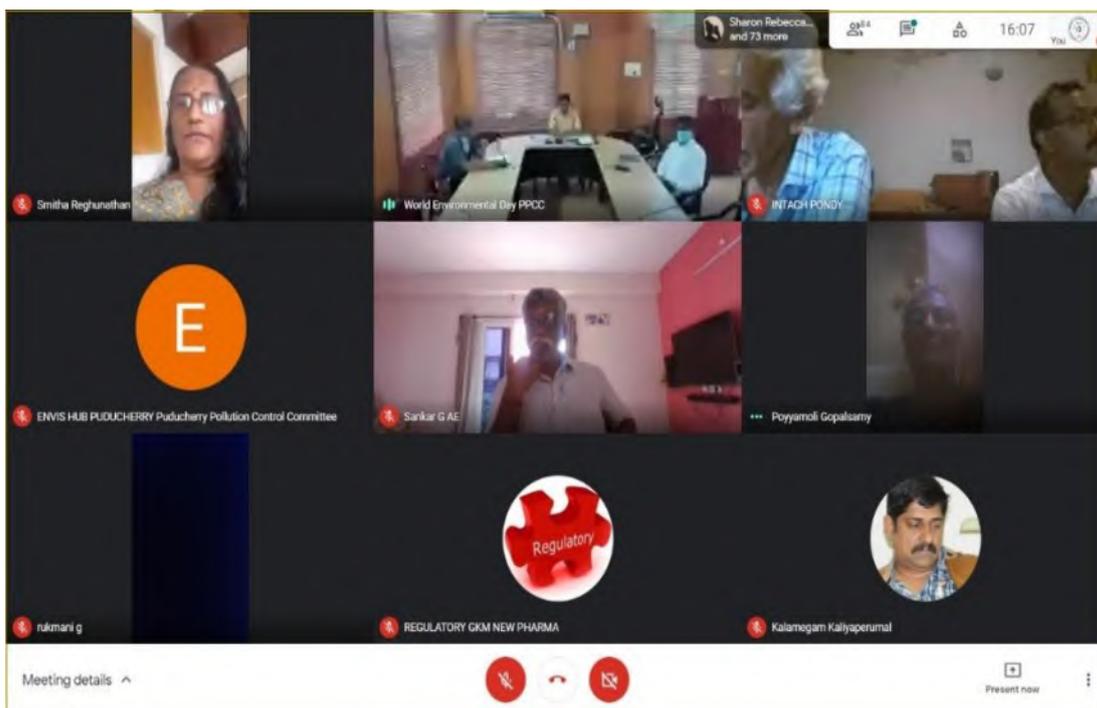
**Welcoming Expert:**

Dr. S. Dinesh Kannan, IFS, Director (DST&E)-cum-Member Secretary (PPCC) welcomed the Expert & Panel Members and participants and gave a brief introduction highlighting the importance of observing the World Environment Day.



**Keynote address:**

Smt. Smitha. R., I.A.S, Secretary (Environment)-cum-Chairperson (PPCC) delivered key note address.



## Webinar: Subject Expert's Talk

Dr. G. Poyyamoli, Professor (Rtd.), Department of Ecology & Environmental Science, Pondicherry University, delivered the expert talk on **“Understanding Ecosystems of Puducherry and their restoration challenges”** on the World Environment Day. He briefed the characteristics of ecosystems, environmental problems and restoration challenges. Finally, he highlighted the nature-based solutions in order to restore a resilient ecosystem.



## Activity – III

### Panel Discussion

Dr. S. Dinesh Kannan, IFS, Director and Dr. G. Poyyamoli, Professor, were the moderator of the panel discussion. This panel discussion was mainly focused to create awareness about the values of the ecosystem.

### Restoration of River Ecosystem :

Dr. N. Ramesh, Senior Environmental Engineer, DSTE, discussed on the “Restoration of River Ecosystem” in Puducherry. He emphasized the issues and challenges facing Puducherry’s water bodies and also briefed on the values of river ecosystem and the action taken by the PPCC in enforcement and restoration.



## Restoration of Tanks and Ponds Ecosystem :

Restoration of Tanks and Ponds Ecosystem in Puducherry was discussed by Peobir Banerjee, Pondy CAN. He highlighted the water initiatives carried out in Puducherry and also briefed on the integrated water resources management & rejuvenation of Ponds & Tanks in Puducherry.

The screenshot shows a Google Meet window with a presentation slide titled "BIOREGIONAL PLANNING". The slide features a map of Puducherry and surrounding regions, including the Bay of Bengal. The text on the slide defines Bioregional Planning as a holistic approach that goes beyond political boundaries. It lists three key points for a meaningful framework: taking into account natural infrastructure, meeting people's aspirations, and designing sustainable communities. It also notes that this can be achieved through collaboration of various stakeholders like government agencies, experts, and businesses.

**BIOREGIONAL PLANNING**

**Bioregional Planning** is a holistic and integrated approach to development which goes beyond political boundaries and expands the scope to a larger landscape of natural forms and living communities with watershed areas as the defining boundaries.

It is the most meaningful framework:

- Take into account the natural infrastructure
- Meet the aspirations of the people
- Create a rural urban continuum
- Design long term sustainable communities

This can be achieved and made sustainable only through a collaboration of all stakeholders - Government Agencies, Experts, Research Institutions, Industries, Farmers, Business enterprises, Educational institutions, Civil S.

5:08 PM | tvj-erjh-pga

## Urban Ecosystem :

Er. S. Arul, INTACH, discussed on Urban Ecosystem. He emphasized on the restoration of heritage buildings & urban green public places in Puducherry. Finally he highlighted the management plan and beautification of urban ecosystem.

The screenshot shows a Google Meet window with a presentation slide titled "Built Heritage in the Boulevard Town". The slide is divided into two main sections: "Restoration of Heritage Buildings" and "Urban Green Public Places". The first section lists several restored buildings, including Le Cafe, Old Court Building, and the French Consulate. The second section lists urban green public places like Bharathi Park and Gandhi Tidal. Two photographs show the 'Before' and 'After' states of a building's restoration.

**Built Heritage in the Boulevard Town**

**Restoration of Heritage Buildings:**

*Some of the restored heritage buildings*

- Le Cafe
- Old Court Building
- Bharathiar House
- Old port area and Warehouses
- Subbiah House
- French Consulate

Old Light House  
Calve College  
VOC School  
Pensionnat de jeunes filles

Private Heritage buildings plays a major role in Pondicherry

**Urban Green Public Places:**

- Bharathi Park
- Gandhi Tidal
- Beach Road
- Grand Canal
- JN Street

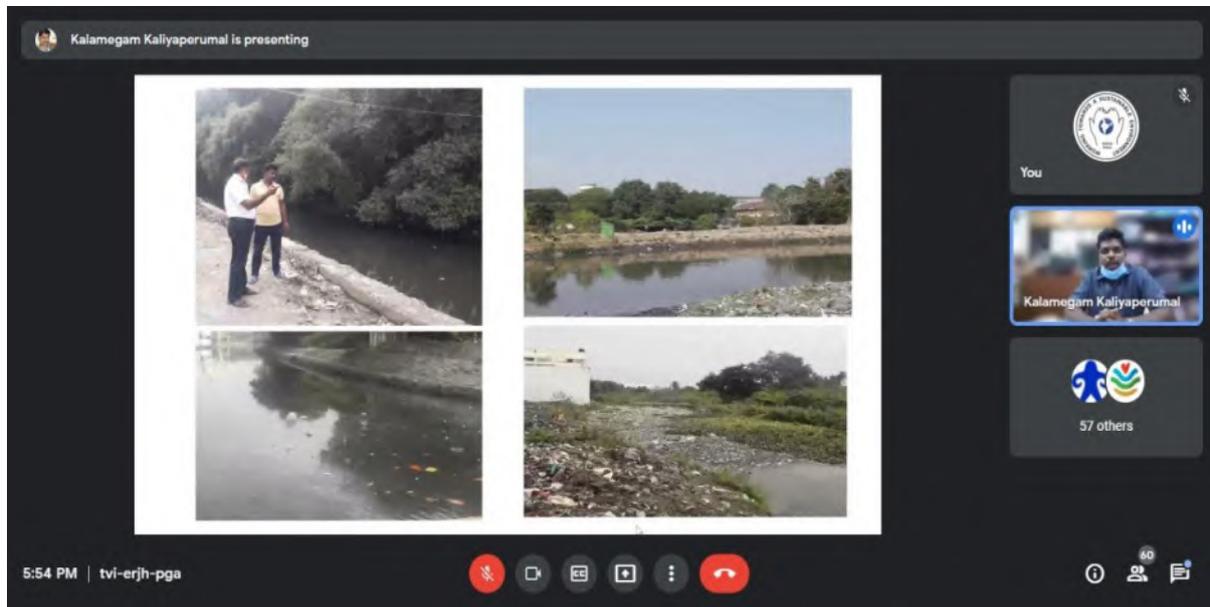
Before

After

5:32 PM | tvj-erjh-pga

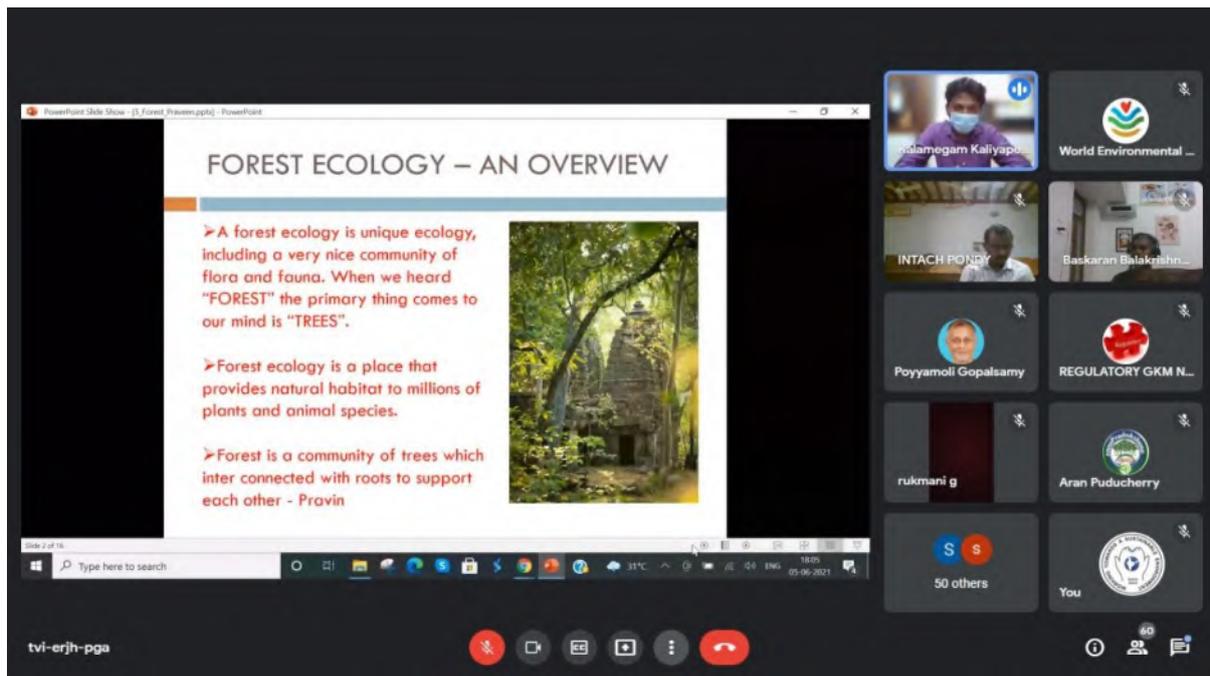
## **Mangrove Ecosystem :**

Dr. Selvamanikandan, Puducherry Environment and Mangrove Forest Development Protection Society, discussed on Mangrove Ecosystem. He highlighted the problems and solutions for protection of mangrove forest in Puducherry.



## **Forest Ecosystem :**

Shri. L. Pravin Kumar, Annapradokshana Charitable Trust discussed on Forest Ecosystem and the Miyawaki forest creation. He highlighted the challenges faced and solutions for conserving forest ecosystem



**Panel Discussion can be viewed at:**

**<https://www.youtube.com/watch?v=y7Q4B8Ncx1w&t=8054s>**

## Activity – IV

**The name of the activity:** Poem competition (Tamil & English)

Conducted Poem competition (Tamil & English) from Pan India on the topic “Ecosystem Restoration”. To generate ecosystem restoration awareness among the public.

Government of Puducherry  
Department of Science, Technology & Environment  
Puducherry Pollution Control Committee  
Puducherry Council for Science & Technology  
Puducherry Climate Change Cell  
Envis Hub Puducherry

World Environment Day Celebration  
Poem Writing Competition  
THEME: "ECOSYSTEM RESTORATION"  
5th June, 2021

Prizes  
Attractive prizes will be given to the winners and E-certificate will be provided to all the participants.

For further details visit  
[https://dste.py.gov.in/ppcc/WED\\_2021.html](https://dste.py.gov.in/ppcc/WED_2021.html)

@envishubpy  
@ENVIS HUB - Puducherry  
@envispuducherry  
@Climate Change Cell Puducherry

**The method (used to get the message across):**

*The following methods used for Poem competition (Tamil & English):*

- Advertisement given in the local dailies.
- The poem should be on the theme “Ecosystem Restoration” and prepared exclusively for this competition and not submitted elsewhere.
- The poem should be uploaded in pdf format only. The size should be under 10 MB.
- The poem should not exceed 40 lines.
- The copyright of each poem remains with the author. However, authors of the winning poems, by entering the competition, grant PPCC the right in perpetuity to publish and/or broadcast their poem.
- The selected winner has to produce valid ID proof.
- The name of the winners will be declared in the department website and informed through email.
- E-certificates were issued for all contestants.

**Number of entries received:**

Tamil poem: 115 nos.

English: 94 nos.

E-certificates were issued for all contestants.

## Activity – V

### The name of the activity: Story Telling Competition

Conducted Story Telling competition for the School Students below 12 years on the topic “Ecosystem Restoration”.



Government of Puducherry  
Department of Science, Technology & Environment  
Puducherry Pollution Control Committee  
Puducherry Council for Science & Technology  
Puducherry Climate Change Cell  
Envis Hub Puducherry

### STORY TELLING COMPETITION

THEME: **“ECOSYSTEM RESTORATION”**



<b>Google Form</b> Link to submit the entry is <a href="https://forms.gle/EHQJuoDYKTSpK61B">https://forms.gle/EHQJuoDYKTSpK61B</a>	<b>Video</b> The video is a 30-second video showing the story & upload it to our Facebook page. The deadline for submission is 07th June 2021 - 23:59.
<b>Guidelines</b> Some points to remember: - The video should be in default video format. - The duration of the video should be less than 2 minutes and the size should be under 10 MB. - The face of the children should be clearly visible and the video and audio should be of good quality.	<b>Prizes</b> Attract no prizes will be given to the winners and certificates will be provided by the Government of Puducherry. Winner will be published in our digital media like social media pages.

For further details [https://dste.py.gov.in/ppcc/WED\\_2021.html](https://dste.py.gov.in/ppcc/WED_2021.html)

@envishubpdyc @ENVIS HUB - Puducherry @envispuducherry @Climate Change Cell Puducherry

### The contents/message of the activity:

- To create awareness among the young kids.
- Understanding about the ecosystem and environment in the very young age will help in building the better society and conservation of the environment. **The method (used to get the message across):**

*The following methods used for story telling competition:*

- Advertisement in the local dailies.
- The parents can take the video of their child reciting the story.
- The face of the children should be clearly visible and the video and audio should be of good quality.
- The video should be in default video format. The duration of the video should be less than 2 minutes and the size should be under 10 MB.
- PPCC owns the copyright of the video.

**Number of entries received:** 75 nos.

E-certificates were issued for all contestants.

## Activity – VI

### The name of the activity: Poster Making competition

Conducted Poster Making competition from Pan India on the topic 'Ban on single use plastic'.



Government of Puducherry  
Department of Science, Technology & Environment  
Puducherry Pollution Control Committee  
Puducherry Council for Science & Technology  
Puducherry Climate Change Cell  
Envis Hub Puducherry

World Environment Day

5<sup>th</sup> June, 2021

**POSTER MAKING competition**

Prizes Theme: "Ban on single use plastic" 

Attractive prizes will be given to the winners and E-certificate will be provided to all the participants. Winner list will be published in our dept. website and social media pages. The Poster shall reach by 8th June 2021 - 5.00 PM

For further details visit [https://dste.py.gov.in/ppcc/WED\\_2021.html](https://dste.py.gov.in/ppcc/WED_2021.html) 

 @envishubpdy  @ENVIS HUB - Puducherry  @envispuducherry  @Climate Change Cell Puducherry

### The contents/message of the activity:

- To create awareness among the students and public.
- Understanding about the ecosystem and environment in the very young age will help in building the better society and conservation of the environment.

### The method (used to get the message across):

- The following methods used for story telling competition:
- Advertisement in the local dailies.
- The theme for the Poster Design is "Ban on Single Use Plastic"
- The poster can be prepared through digital mode or hand drawing.
- The poster should be uploaded in jpeg image format. The size should be under 10 MB.
- PPCC owns the copyright of the poster.

**Number of entries received:** 317 nos.

E-certificates were issued for all contestants.

## Activity – VII

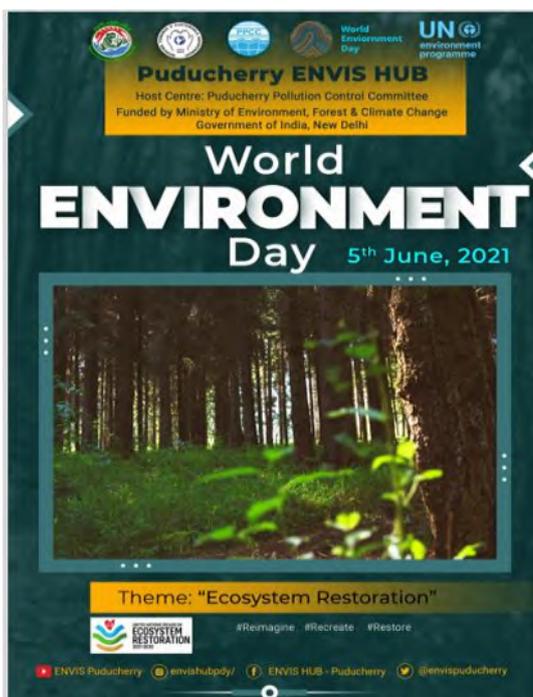
### Infographics released on World Environment Day on 05.06.2021

Awareness poster and pamphlet were released digitally during the occasion of World Environment Day on 05.06.2021, to emphasized awareness and action for the protection of our environment.

### Poster



### Pamphlet





## Report on World Oceans Day Celebration on 8<sup>th</sup> June, 2021

World Oceans Day is annually observed on 08<sup>th</sup> June to create awareness in human lives of the benefits it has enjoyed from the ocean. The ocean provides a variety of life-saving medicinal compounds, anti-inflammatory, and anti-cancer drugs. Now it's our turn to conserve the sea and marine resources for sustainable development. This day is the day for humanity to celebrate the ocean.

The purpose of the Day has to inform the public of the impact of human actions on the ocean, develop a worldwide movement of citizens for the ocean, and mobilize and unite the world's population on a project for the sustainable management of the world's oceans.

This year's prime focus will be on the life and livelihood that the ocean sustains. The theme for World Oceans Day 2021 is **“The Ocean: Life and Livelihoods”**. This year's theme is especially relevant in the lead-up to the UN Decade of Ocean Science for Sustainable Development, which will run from 2021 to 2030. The Decade will strengthen international cooperation to develop the scientific research and innovative technologies that can connect ocean science with the needs of society.

As a part of the “World Ocean Day” celebration, Puducherry ENVIS Hub organized a webinar on 08.06.2021.

**ENVIS HUB PUDUCHERRY**  
**PUDUCHERRY POLLUTION CONTROL COMMITTEE**  
*Funded by Ministry of Environment, Forest & Climate Change  
GoI, New Delhi*

*Ek Bharat Shrestha Bharat Programme (EBSB)*

**World Oceans Day 2021**

Theme  
**The Ocean:  
Life and Livelihoods**

**June 8, 2021  
11.00 AM**

Google Meet ID:  
**who-payd-epz**

**Dr.S. Bragadeeswaran**  
Deputy Director - cum - Associate Professor  
& principal investigator,  
Directorate of Research and Development,  
Biotoxicology laboratory,  
CAS in Marine Biology,  
Annamalai University, Parangipettai,  
Tamil Nadu.

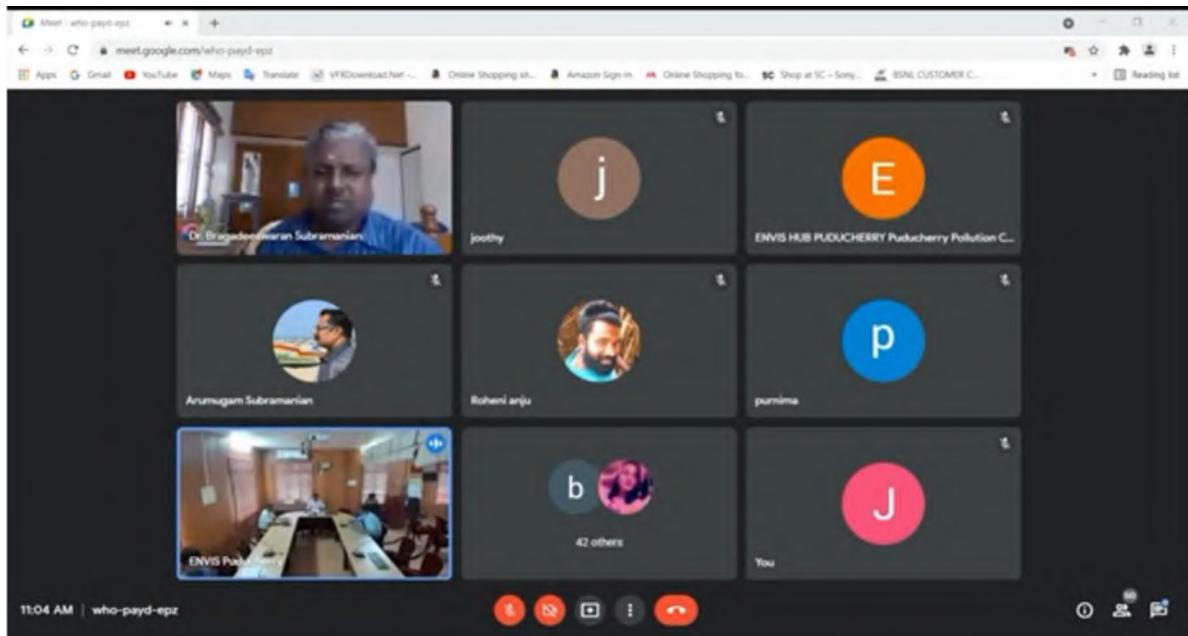
**Webinar on  
“The Ocean: Life and Livelihoods”**

@envishub @ENVIS HUB - Puducherry @envispuducherry

**Advertisement poster**

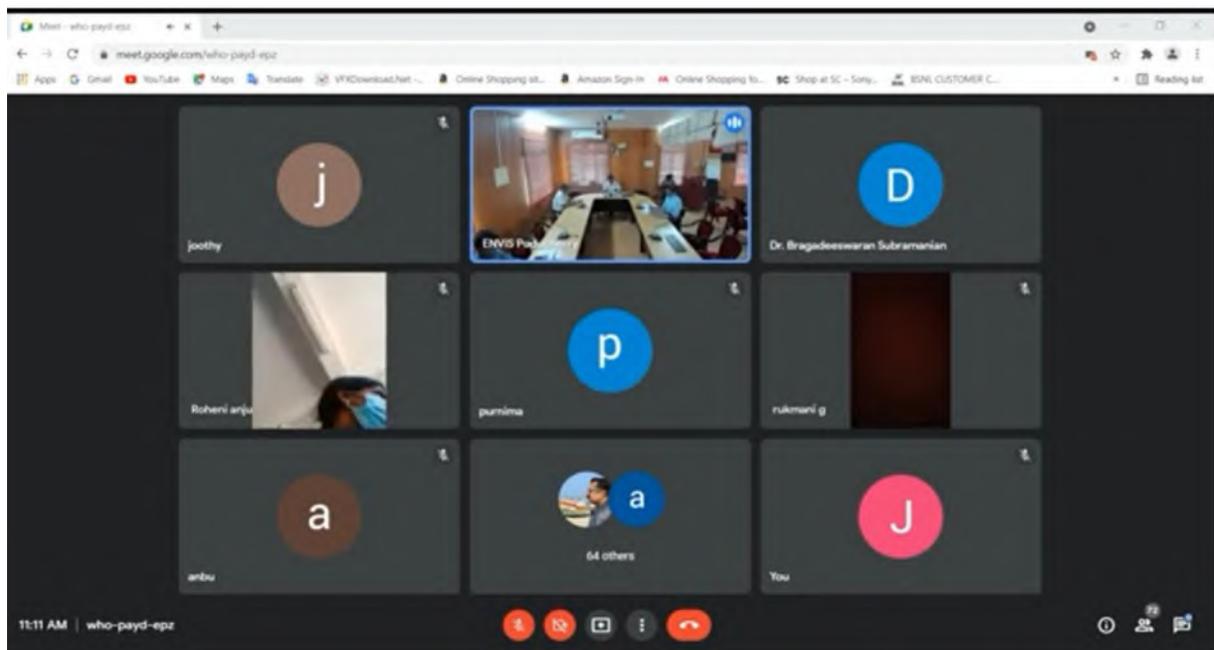
## Welcome Address

Dr. R. Sagaya Alfred, Senior Scientific Officer, DST&E welcomed the Expert and participants and gave a brief introduction highlighting the importance of observing the World Ocean Day.



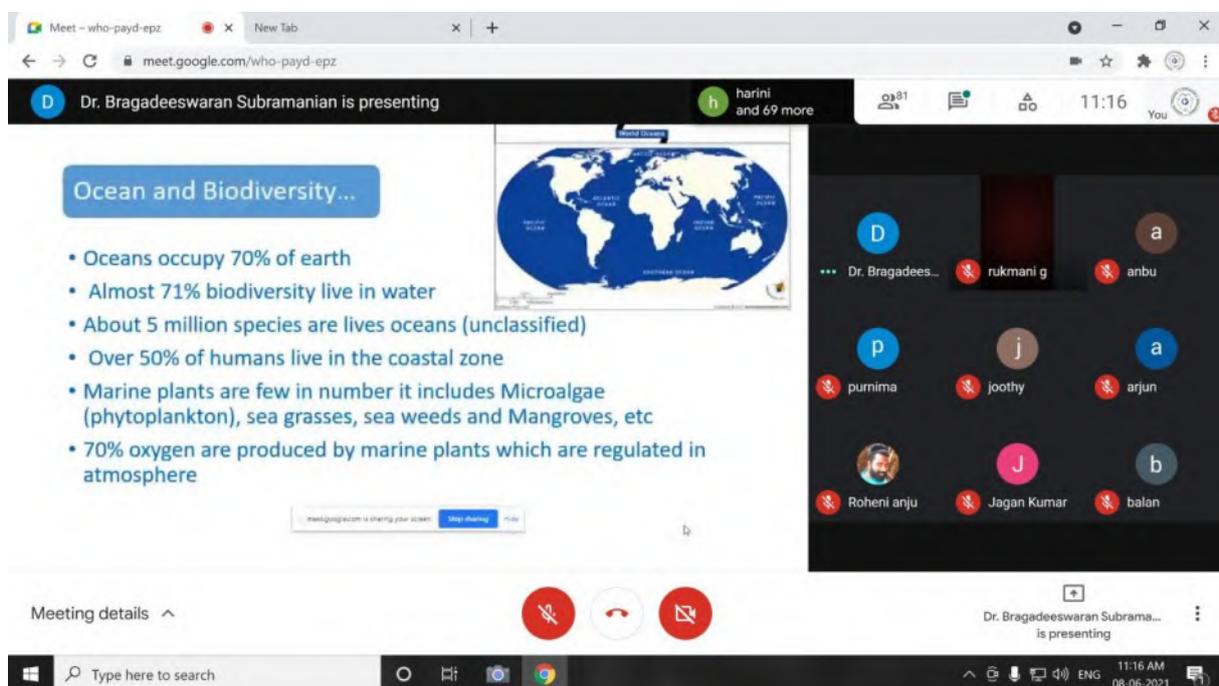
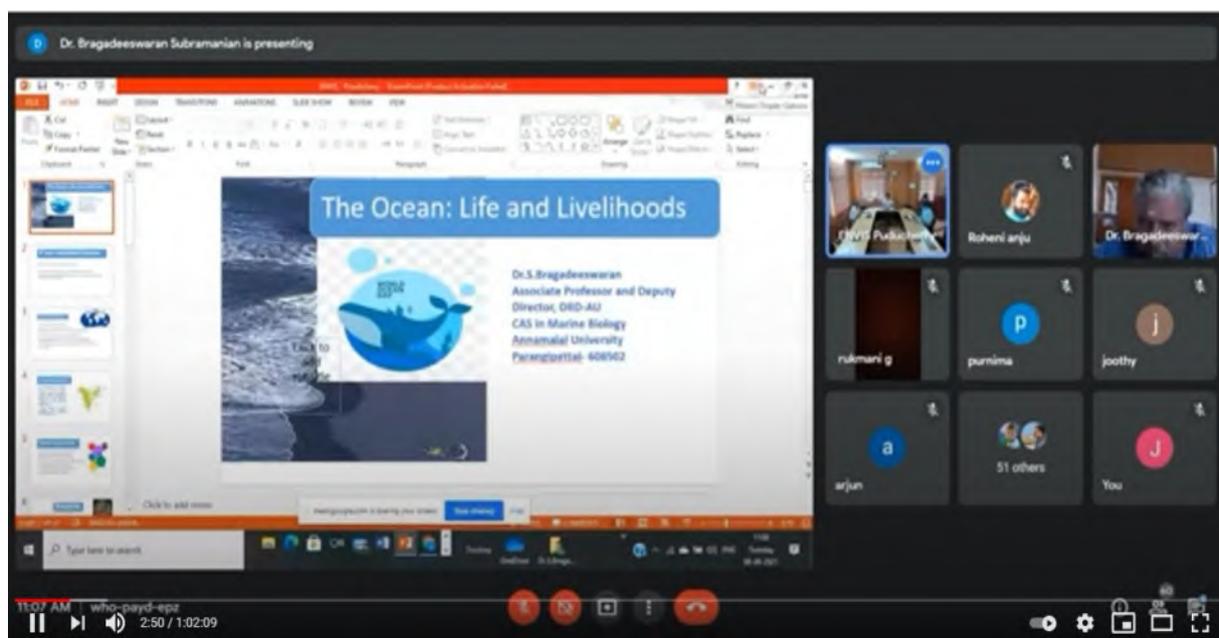
## Keynote Address

Dr. S. Dinesh Kannan, Director(DST&E)-cum-Member Secretary(PPCC) delivered key note address. He emphasized the conservation of marine resources for sustainable development.



## Expert Talk

Dr. S. Bragadeeswaran, Deputy Director- cum Associate Professor & principal investigator, Directorate of Research and Development, Biotoxicology laboratory, CAS in Marine Biology, Annamalai University, Parangipettai, Tamil Nadu delivered expert lecture on “The Ocean: Life and Livelihoods” on the eve of World Ocean Day on 08.06.2021. He highlighted the ocean & biodiversity, types of marine biodiversity, marine organism, link between biodiversity & livelihoods, drugs from the sea and causes of marine biodiversity. Finally, he highlighted the conservation of marine biodiversity. The number of participants were 85.

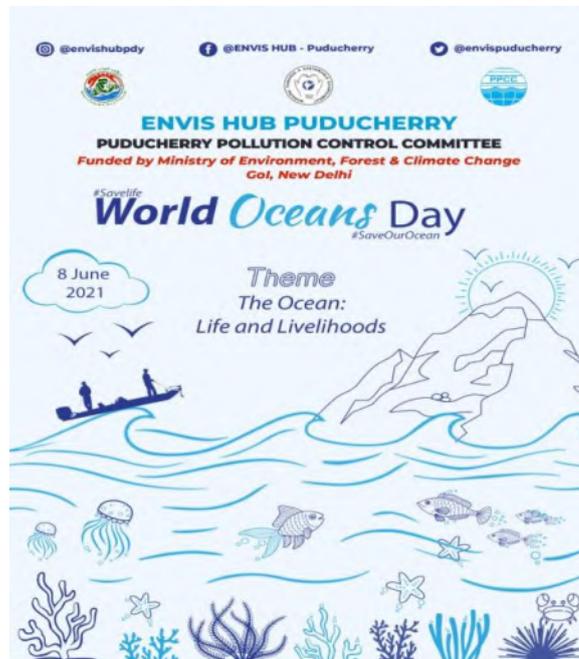


## Infographics released on World Ocean Day on

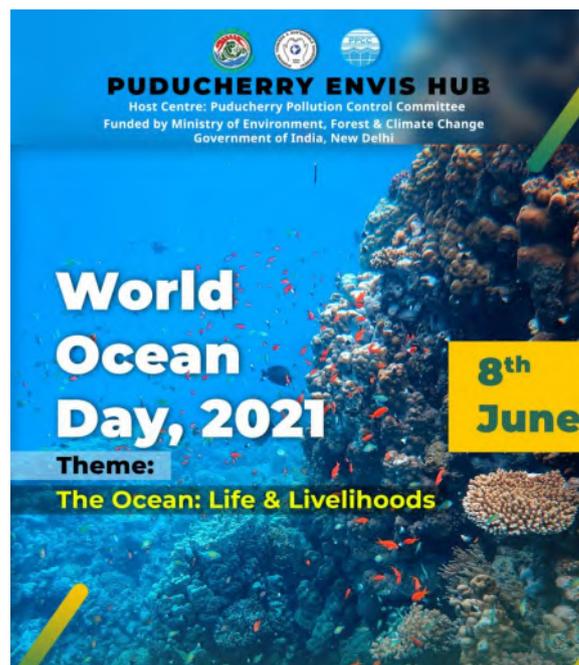
08.06.2021

Awareness poster and pamphlet were released digitally during the occasion to spread the message about conservation of ocean ecosystem.

### Poster



### Pamphlet



## Report on Sea Turtle Day Celebration on 16<sup>th</sup> June, 2021

World Turtle Day is observed on June, 16<sup>th</sup>. The day is celebrated to make people aware of turtle, tortoise and their habitats. Its a day used to honor and highlight the importance of sea turtles.

Turtles are magnificent creatures, mostly sedentary and low-key but are very fascinating. Turtles belong to one of the oldest reptile groups in the world – which makes them significantly older than snakes, crocodiles, and alligators.

Every year, people spread awareness regarding the turtle on this day. People also organize rescue operations from highways and roads and return rescued turtles and tortoises to their natural environment.

As a part of the “World Sea Turtle Day” celebration, Puducherry ENVIS Hub organized a webinar on 16.06.2021.

**ENVIS HUB PUDUCHERRY**  
PUDUCHERRY POLLUTION CONTROL COMMITTEE  
Funded by Ministry of Environment, Forest & Climate Change  
Gov, New Delhi

# WORLD SEA TURTLE DAY 2021

**Ek Bharat Shrestha Bharat Programme (EBSB)**  
WEBINAR ON "LEGAL ASPECTS OF TURTLE CONSERVATION IN INDIA"  
Date: June 16<sup>th</sup>, 2021 Time: 3 PM

**AGNI MITRA, IFS.,**  
REGIONAL DEPUTY DIRECTOR,  
WILDLIFE CRIME CONTROL BUREAU,  
NIZAM PALACE, 2ND MSO BUILDING, 6TH FLOOR,  
234/4, A. J. C. BOSE ROAD,  
KOLKATA, WEST BENGAL

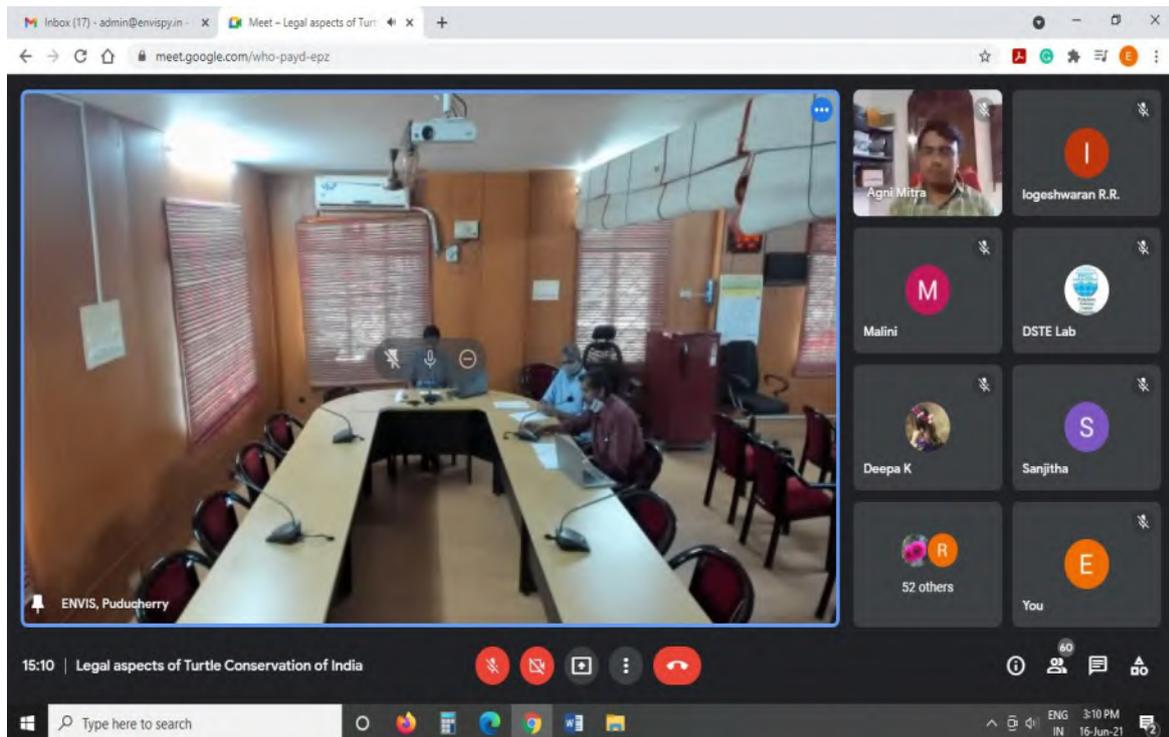
Google Meet ID: **who-payd-epz**

#SeaTurtleDay #KeepTheSeaPlasticFree

@envishubpd @ENVIS HUB - Puducherry @envispuducherry

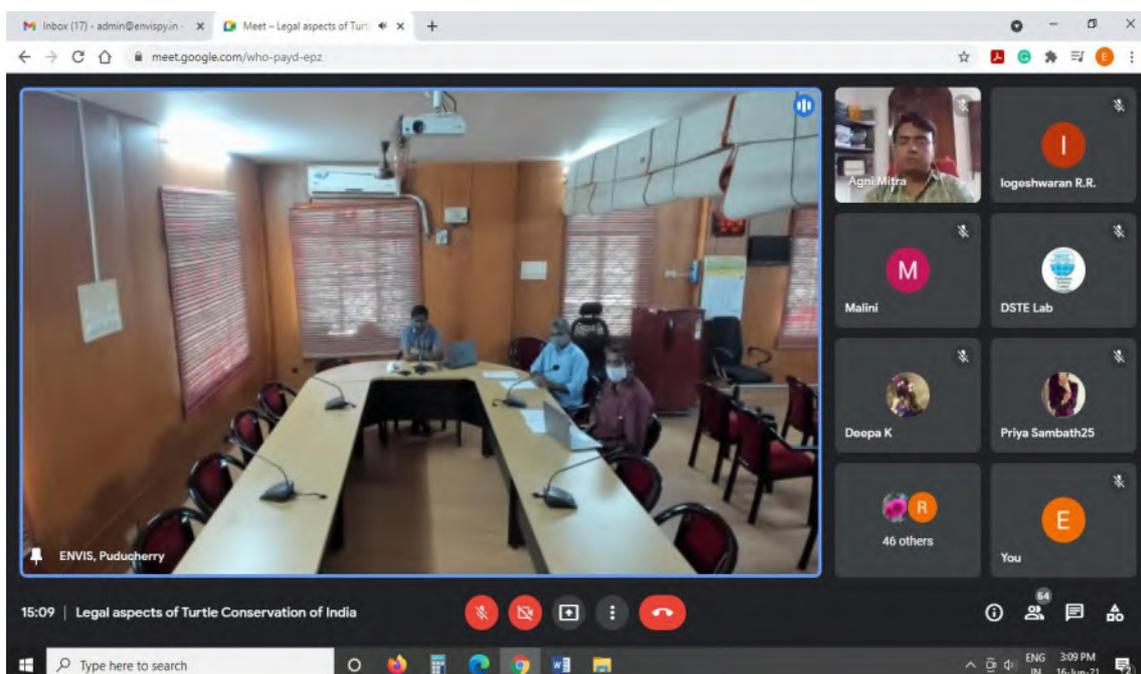
## Welcome Address

Dr. R. Sagaya Alfred, Senior Scientific Officer, DST&E welcomed the Expert and participants and gave a brief introduction highlighting the importance of observing the World Sea Turtle Day.



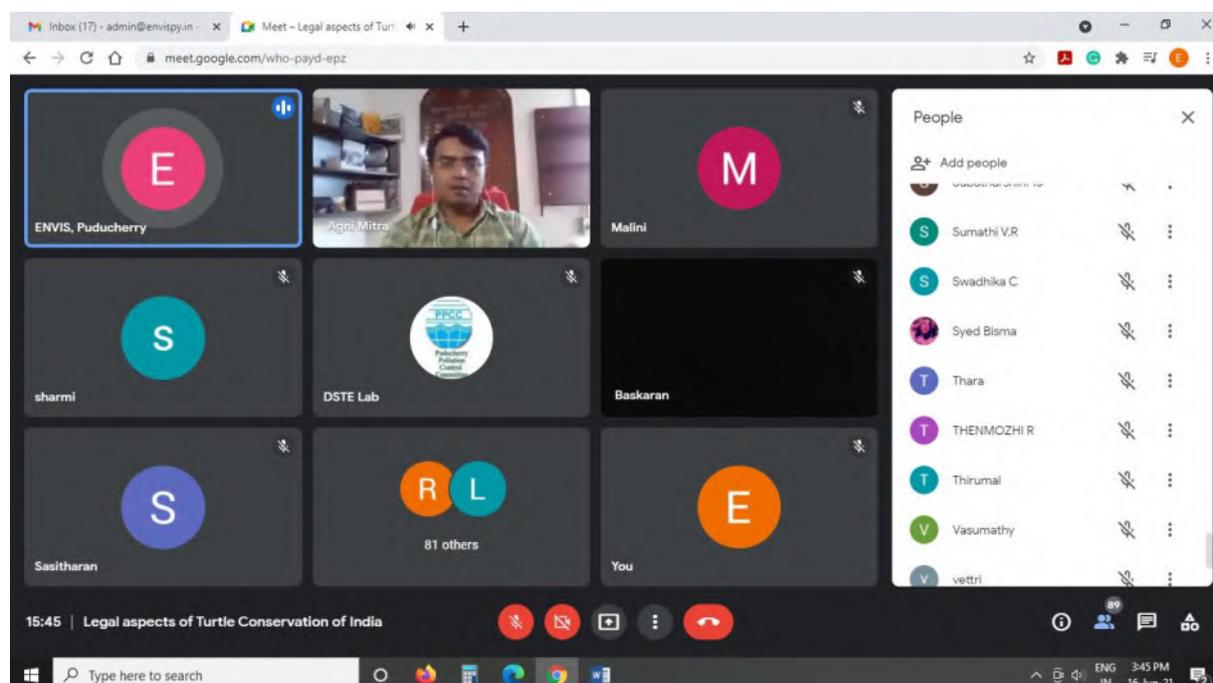
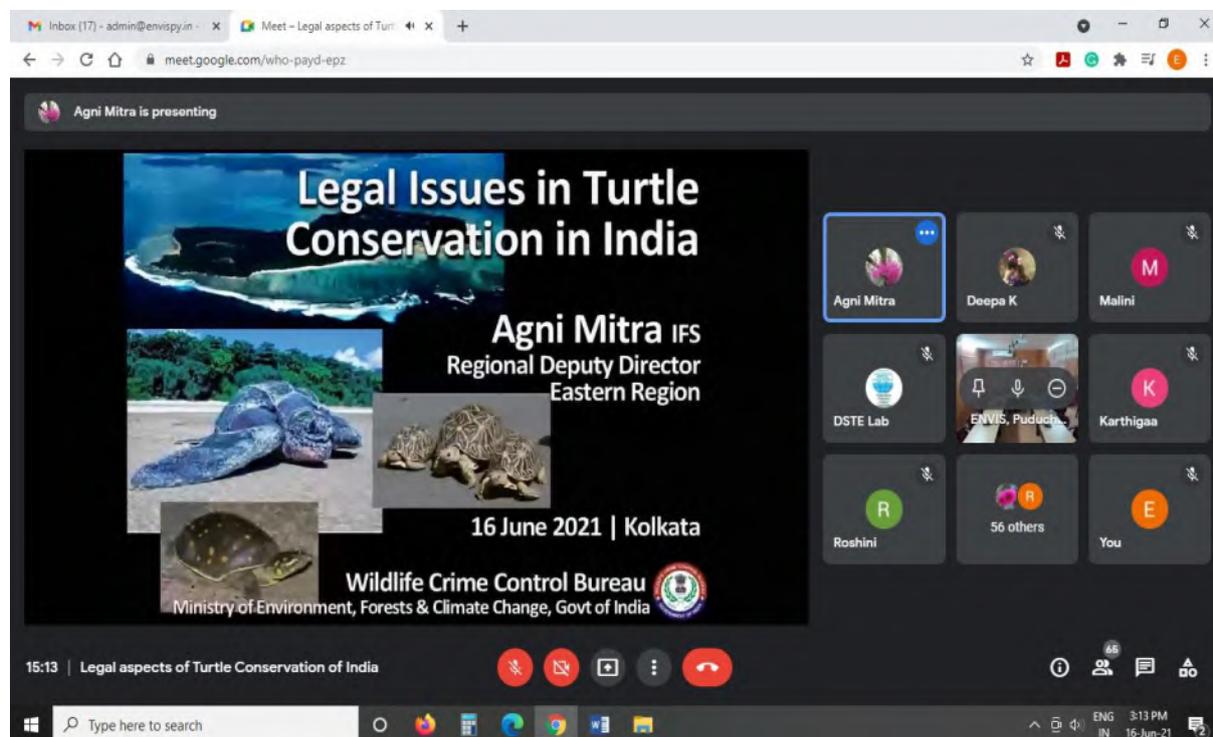
## Keynote Address

Dr. S. Dinesh Kannan, Director(DST&E)-cum-Member Secretary(PPCC) delivered key note address. He highlighted the importance of sea turtles and also to raise awareness among humans to help turtles survive and thrive in their natural habitat.



## Expert Talk

Agni Mitra, IFS., Regional Deputy Director, Wildlife Crime Control Bureau, Nizam Palace, Kolkata, West Bengal delivered expert lecture on 'Legal Aspects of Turtle Conservation in India' on the eve of World Sea Turtle Day on 16.06.2021. He highlighted Sea Turtle conservation snapshot in Nicobar, introduction to trade sea turtle and its products, trade route & sensitive area and Modus Operadi. Finally, he highlighted the conservation of turtle. The number of participants were 92.



## Infographics released on World Sea Turtle Day on 16.06.2021

Awareness poster was released digitally during the occasion to spread the message about conservation of sea turtle.



**ENVIS HUB PUDUCHERRY**

**PUDUCHERRY POLLUTION CONTROL COMMITTEE**

*Funded by Ministry of Environment, Forest & Climate Change  
GoI, New Delhi*

**World Sea  
Turtle Day  
2021**



**June 16, 2021**

**#SeaTurtleDay**

**#WILDFORLIFE**

**@envishubpd**

**@ENVIS HUB - Puducherry**

**@envispuducherry**

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## Report on Joint Activities of ENVIS HUB ASSAM with ENVIS RP, CAZRI, Rajasthan under the Government of India initiative “Ek Bharat Shrestha Bharat”

### WEBINAR on “Ecosystem Restoration”

A Webinar was jointly organized by ENVIS Hub-Assam, Assam Science Technology & Environment Council, Department of Science & Technology, Govt. of Assam with ENVIS RP on Combating Desertification, ICAR-Central Arid Zone Research Institute, Jodhpur (Rajasthan)- 342008 under the Government of India initiative “Ek Bharat Shrestha Bharat” on 5<sup>th</sup> June 2021.



ENVIS RP on Combating Desertification at ICAR – Central Arid Zone Research Institute, and ENVIS Hub, Assam Science Technology & Environment Council, Department of Science & Technology, Govt. Of Assam jointly organized a webinar on World Environment Day on 05<sup>th</sup> June, 2021 under the initiative “Ek Bharat Shrestha Bharat” on this year’s theme ““*Ecosystem Restoration*”. The webinar was inaugurated by Smt. Kinnei Changsan, Director, Assam Science Technology & Environment Council, Assam who highlighted the importance of World Environment Day. Dr. O.P.Yadav, Director, ICAR-CAZRI, Jodhpur in his opening remarks stressed for reducing the amount of environmental footprints of water and carbon and its good services we are using. He emphasized steps to take care of ecosystem in the present context of pandemic and told land degradation is a local issue with Global solution. Ms. Manisha Sarmah, Programme Officer, ENVIS Hub, Assam coordinated the programme. The session was followed by the brief introduction of ENVIS Hub, Assam by Dr. Jaideep Baruah, ENVIS Coordinator, Assam. He thanked MoEF&CC and extended their cooperation to organize such events held in collaboration with extreme corners of country which will give opportunities to understand variability. Sjt. Abhay Kumar Johari, IFS, Former Special Principal Chief Conservator of Forests,

Member Secretary, Assam State Biodiversity Board was invited as the guest speaker who elaborated about the ecosystem and biodiversity of Assam. He explained how there are other ecosystem which are equal vulnerable and needs equal importance and attention like agriculture, horticulture, fisheries, cash crop plantation, sacred grooves, small rivers and small ecosystems. He stressed that restoration can be done by opting and promoting locally available things which is good for health, economy and ecosystem. He shared his work that they are planning to do 33,000 ha of carbon stock plantation with the objective to maintain woodland for perpetuating so as to compensate for the loss of carbon. He suggested that we need large numbers of partners to meet the agenda the UN has given as a “Decade for Ecosystem Restoration – 10 years of to heal the planet”. Another guest speaker from Rajasthan state Dr. P. C. Moharana, Principal scientist & ENVIS Coordinator, at ICAR-CAZRI delivered his speech “ Ecosystem Restoration – Challenges & Perspectives from Indian Arid regions in Rajasthan. He showed the glimpse of arid ecosystem which supports about 27 millions human and 30 million livestock population and where sandy landscape and the ecology is governed by the several factors. For restoration he suggested that we need to improve the productivity, improve the capacity of ecosystem for everybody. He explained major challenges such as fragile resource base which includes desertification & land use degradation, wind erosion, poor soils, water scarcity, salanization, climatic stress and high biotic pressure. To check the degradation due to wind erosion, he explained the sand dune stabilization, shelterbelt plantations, agroforestry etc. He concluded his lecture by saying that Restoration has three key words – Adaptability, Sustenance and Improvement. The lecture sessions were followed by a healthy interaction session with the participants.

Vote of thanks was extended by Dr. Sangeeta Goyal, Programme Officer, ENVIS RP, Rajasthan. She profusely thanked Smt. Kimnei Changsan, Director, Assam Science Technology & Environment Council, Dr. O. P Yadab, Director, ICAR- CAZRI, Jodhpur (Rajasthan), Dr. R. K. Goyal, Principal Scientist, ICAR- CAZRI, Jodhpur (Rajasthan), Dr. Jaideep Baruak, Head i/c Environment Division and ENVIS Coordinator of ENVIS Hub, Assam, Dr. P. C. Moharana, Principal scientist & ENVIS Coordinator, ICAR-CAZRI, Jodhpur (Rajasthan), Sjt. Abhay Kumar Johari, IFS, Former Special Principal Chief Conservator of Forests, Member Secretary, Assam State Biodiversity Board, ENVIS members from both Assam and Rajasthan states and all the participants for making the





# MENSTRUAL HYGIENE DAY

## 28<sup>th</sup> May 2021

EK BHARATH SHRESHTHA BHARAT

Online Quiz competition jointly organized by Sulabh ENVIS RP and Sikkim ENVIS Hub

## Introduction

Menstrual Hygiene Day (MHD, MH Day in short) is an annual awareness day on May 28 to highlight the importance of good menstrual hygiene management (MHM) at a global level. It was initiated by the German-based NGO WASH United in 2014.

In developing countries, women's choices of menstrual hygiene materials are often limited by the costs, availability and social norms. Adequate sanitation facilities and access to feminine hygiene products are one part of the solution. Creating a culture that welcomes discussion and makes adequate education for women and girls is of equal importance. Research has found that not having access to menstrual hygiene management products can keep girls away from school during their period each month.

Menstrual Hygiene Day is an occasion for publicizing information in the media, including social media. Public information campaigns can help to engage decision-makers in policy dialogue. The day provides an opportunity to actively advocate for the integration of menstrual hygiene management (MHM) into global, national and local policies and programs.

MH Day 2020 was no walk in the park. Most MH Day partners faced severe constraints on MH Day activities and had to try new ideas due to the COVID-19 pandemic. MH Day help us fulfill some of the following SDG Goals :

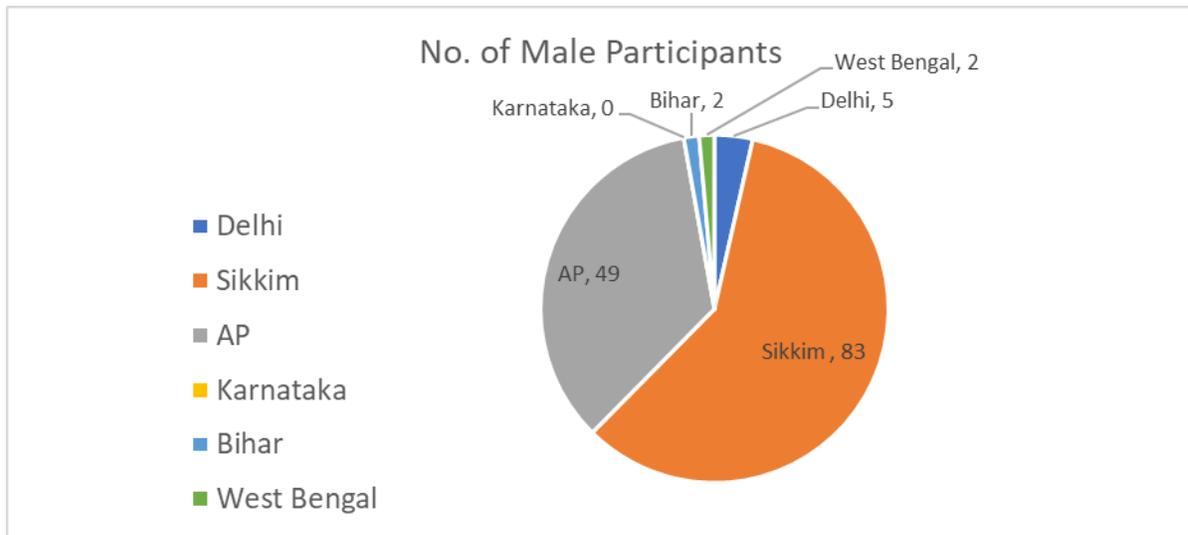
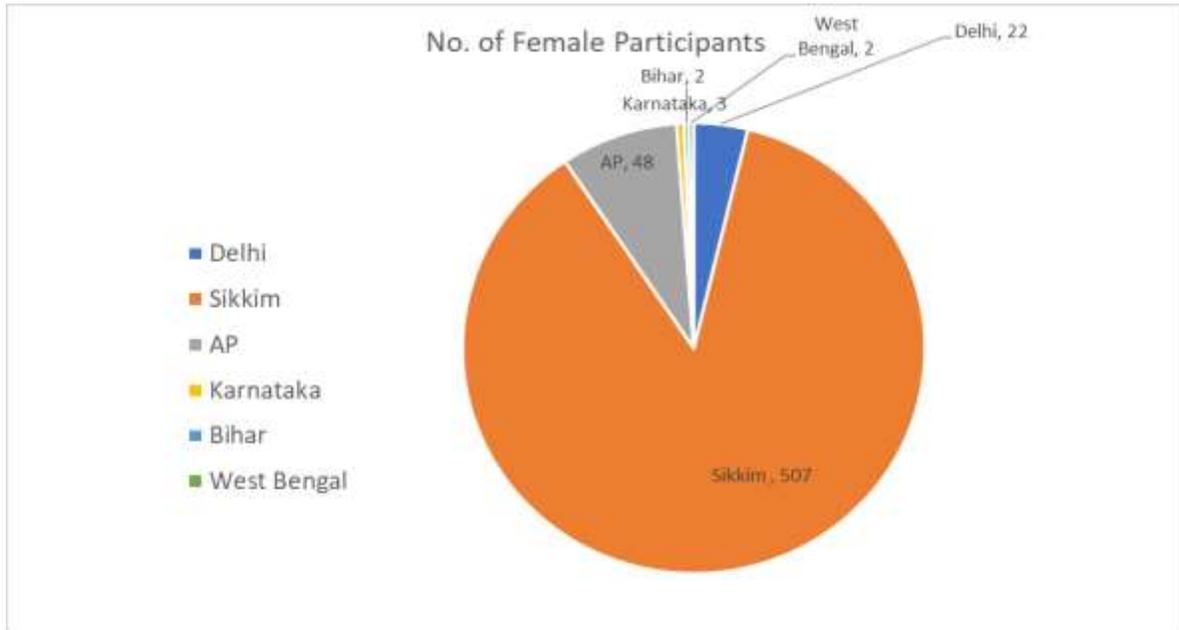


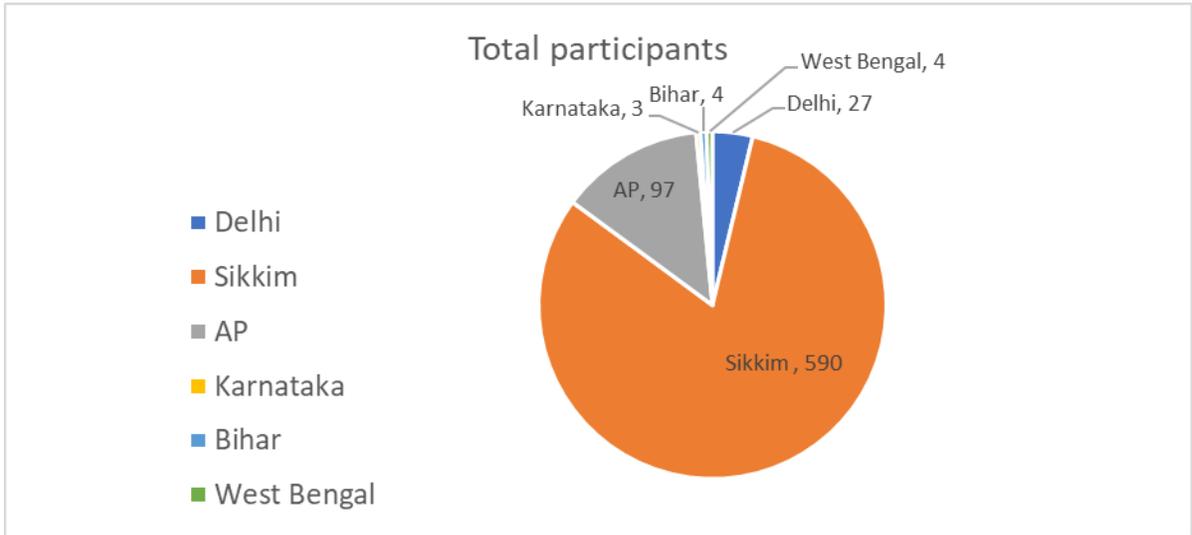
SulabhENVIS RP and Sikkim ENVIS Hub have joined hands under EK BHARAT SHRESHTHA BHARAT program to celebrate Menstrual Hygiene Day 2021. Girls in school and in rural background face problem of menstrual hygiene due to lack of awareness. SulabhENVIS RP works on personal hygiene under its thematic area and through this small and simple questionnaire we wish to see the knowledge and also increase awareness of school going girls studying in Std VIII and above.

We present here the analysis of quiz competition on Menstrual Hygiene for Sikkim and Delhi.

## Analysis of results

### PARTICIPANTS PERCENTAGE FROM DELHI SIKKIM AND OTHER STATES

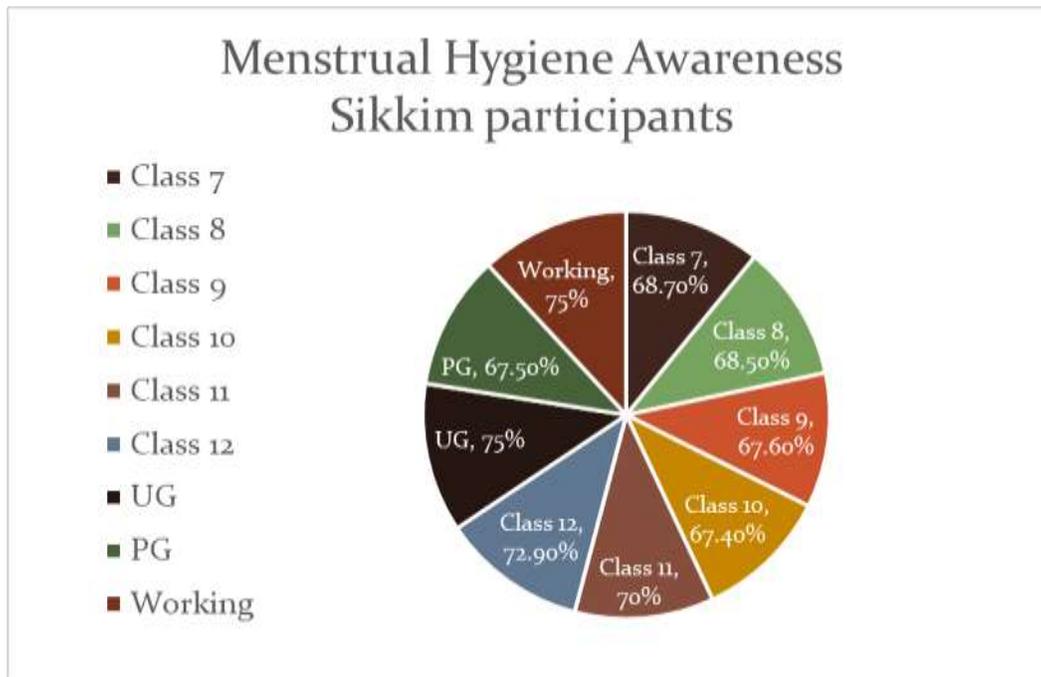




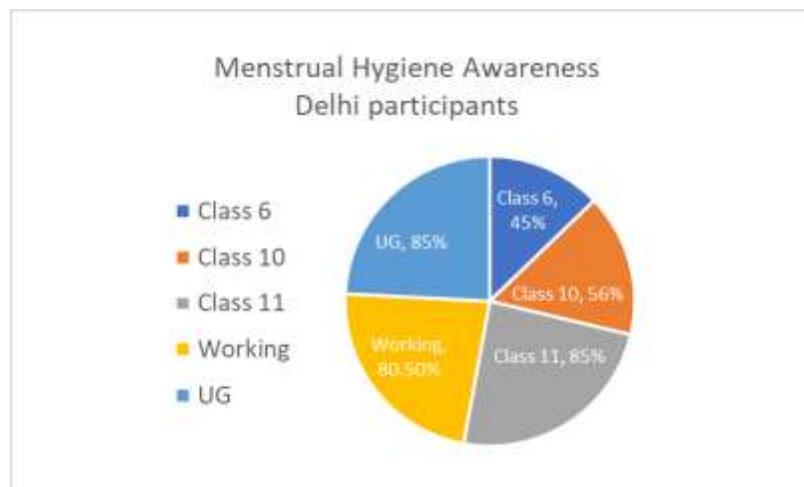
Majority 590 participants are from Sikkim, 108 are from other states (mainly Andhra Pradesh) and 27 are from Delhi region

State	No. of Female Participants	No. of Male Participants	Total participants
Delhi	22	5	27
Sikkim	507	83	590
AP	48	49	97
Karnataka	3	0	3
Bihar	2	2	4
West Bengal	2	2	4
			725

## AWARENESS LEVEL IN FEMALE PARTICIPANTS

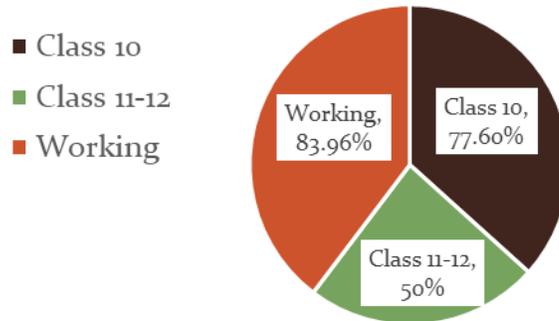


In Sikkim we observe that as the standard of education increases, the awareness level of participants increases except for PG students which can be attributed to their less social involvement due to studies. Social involvement is a major factor which raises the awareness about gender issues in particular.



In Delhi overall awareness is higher due to city culture and extra social intermingling. But due to less number of participants the data may not be reliable.

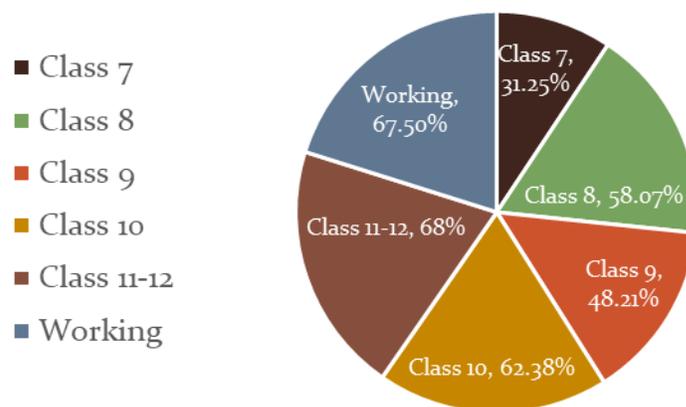
## Menstrual Hygiene Awareness Andhra Pradesh participants



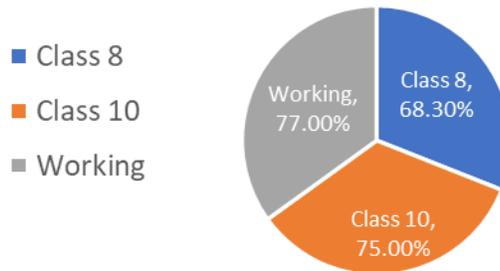
In Andhra Pradesh, working class seems to be most aware and this points out towards the fact that students are not so aware about menstrual hygiene issues in Andhra Pradesh which may be due to lack of education in schools in this regard.

### MALE AWARENESS ABOUT MENSTRUAL HYGIENE

## Menstrual Hygiene Awareness Sikkim male participants (83 participants)



## Menstrual Hygiene Awareness Andhra Pradesh male participants (49 participants)

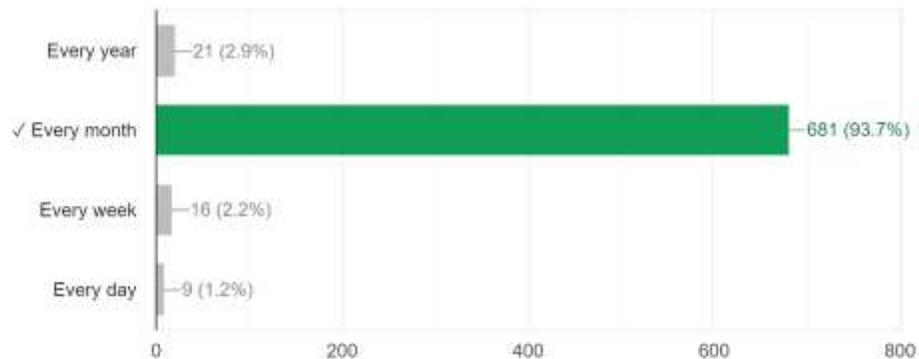


Working men's awareness about Menstrual Hygiene Management is seen lower in Sikkim than in Andhra Pradesh, which shows that there is disparity in workplace in Sikkim and gender issues are not well addressed in Sikkim in work place.

### QUIZ AND THEIR RESPONSES

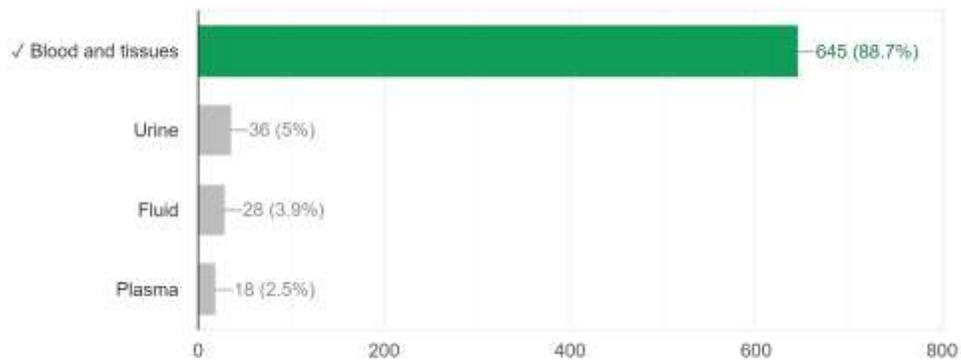
Menstruation occurs in females of reproductive age

681 / 727 correct responses



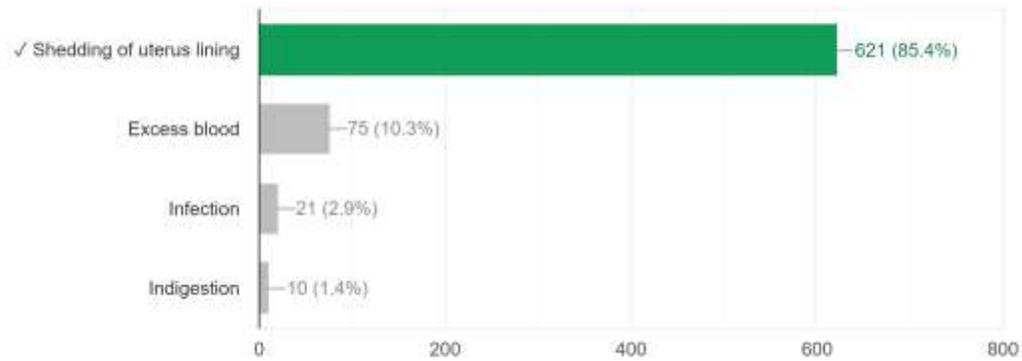
Menstruation involves flow of small amount of which fluid

645 / 727 correct responses



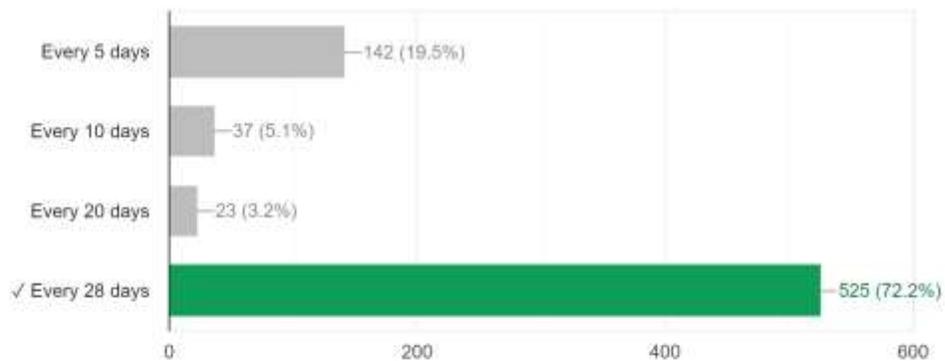
Menstrual blood is produced due to

621 / 727 correct responses



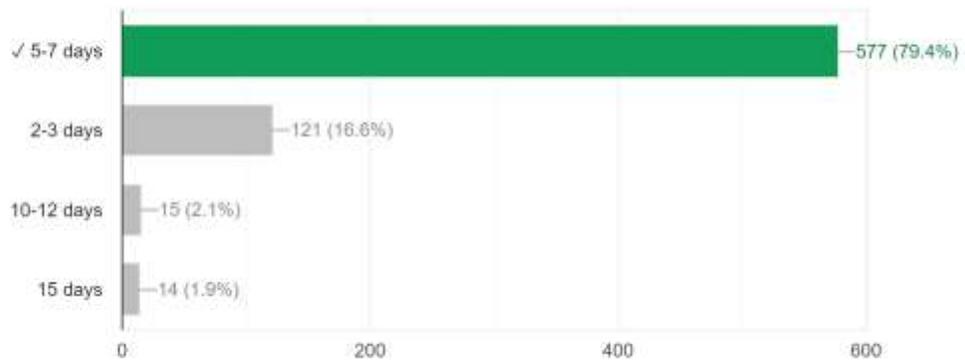
In most cases, period should occur

525 / 727 correct responses



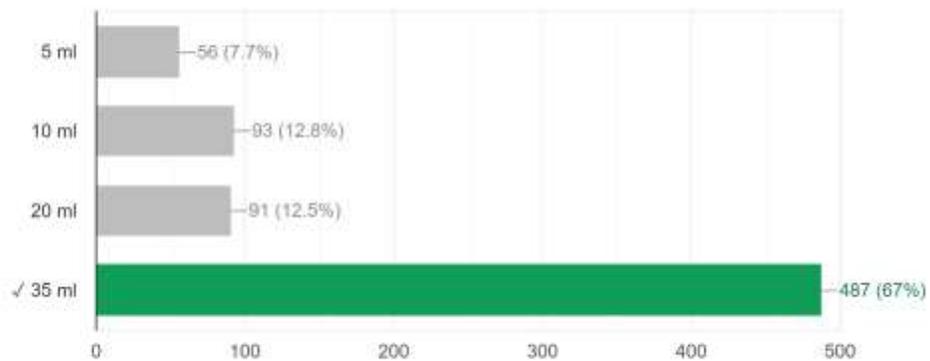
On average, bleeding during period last how many days

577 / 727 correct responses



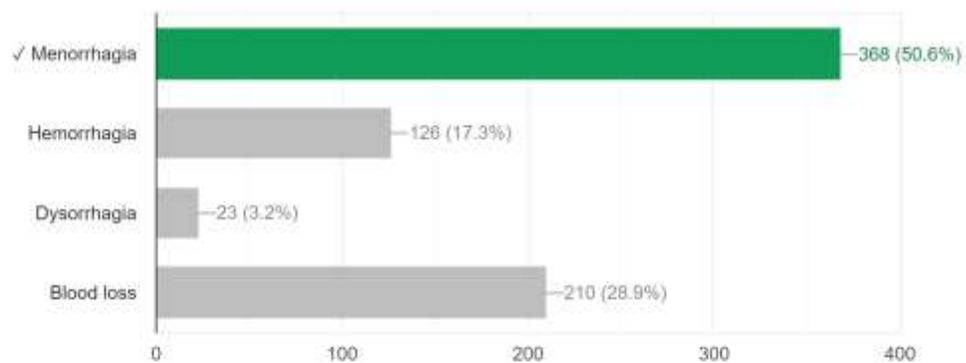
How much blood is lost during menstruation

487 / 727 correct responses

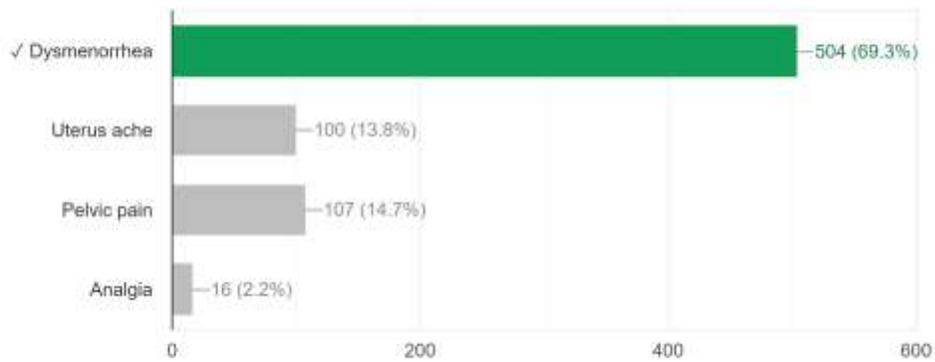


If blood loss is greater than 80 ml, it is called as

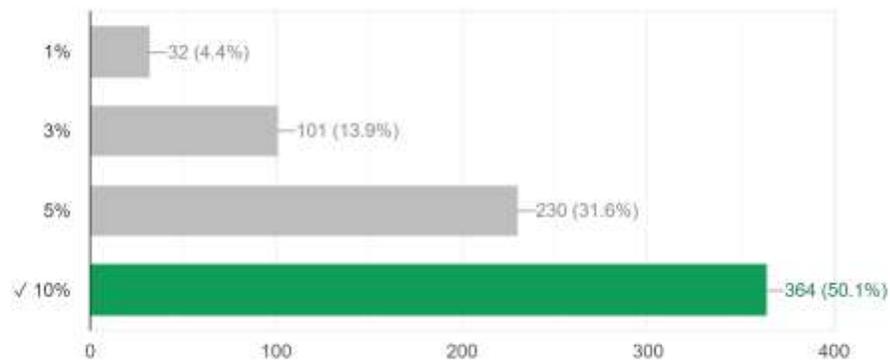
368 / 727 correct responses



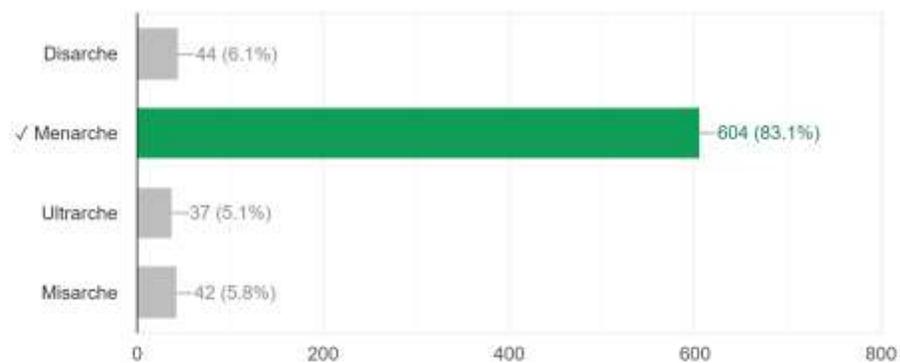
Abdominal cramps are common during menstrual cycle but if severe pain occurs, it is called as  
504 / 727 correct responses



What percentage of women experience severe pain during menstrual cycle under the age of 30  
364 / 727 correct responses

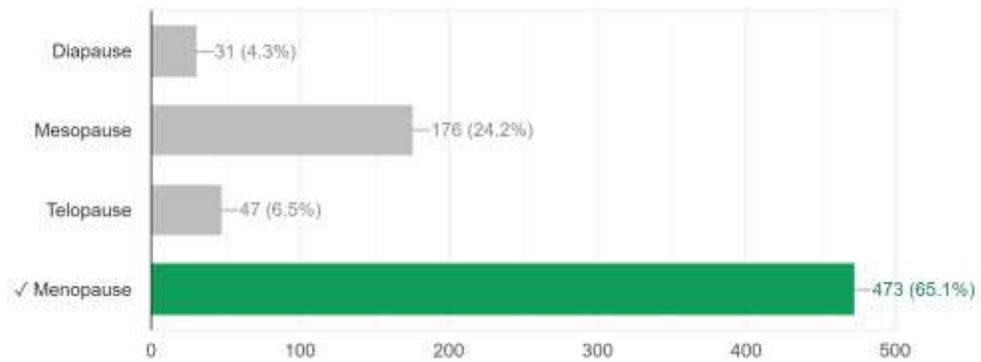


First period occurs at the age of 12 and it is called as  
604 / 727 correct responses



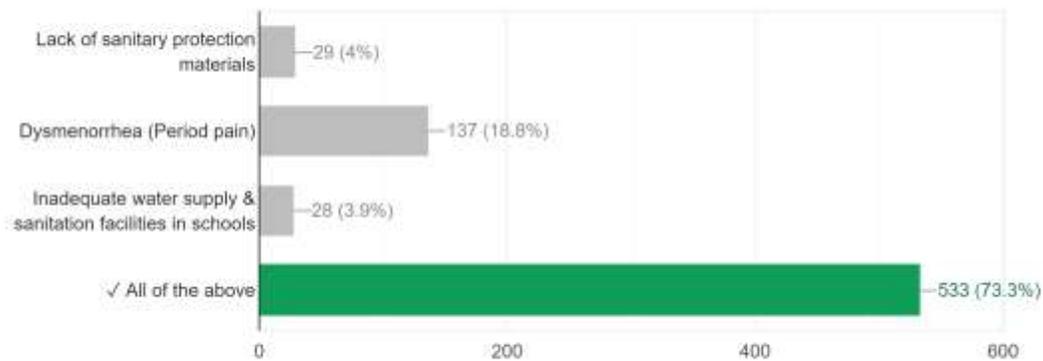
Menstruation ceases during age of 45 – 55 yr. This is called as

473 / 727 correct responses



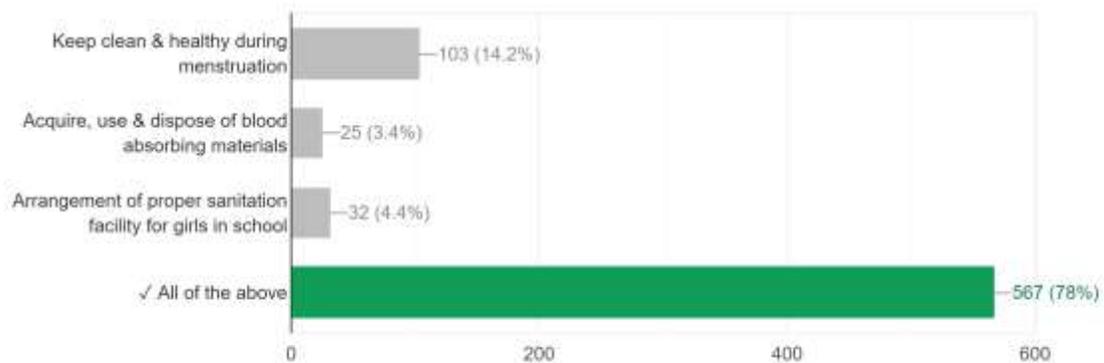
Menstruating girls don't go to school due to

533 / 727 correct responses



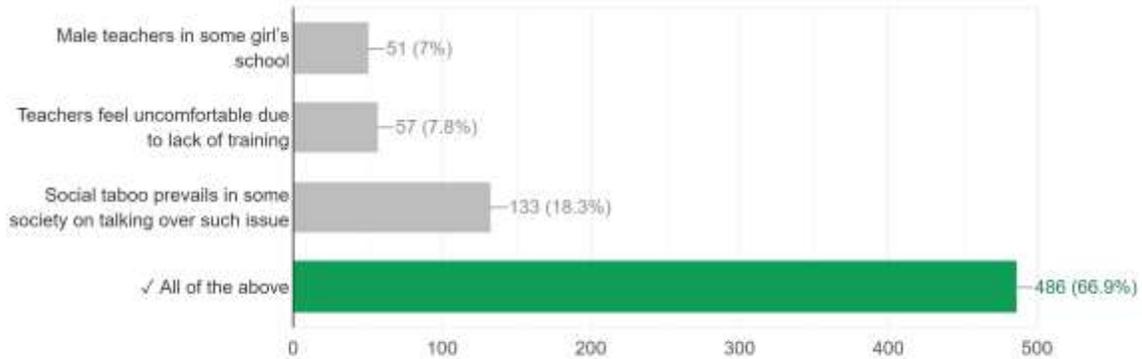
Menstrual Hygiene Management focuses on practical strategy for coping with monthly periods. It has which of the following components

567 / 727 correct responses



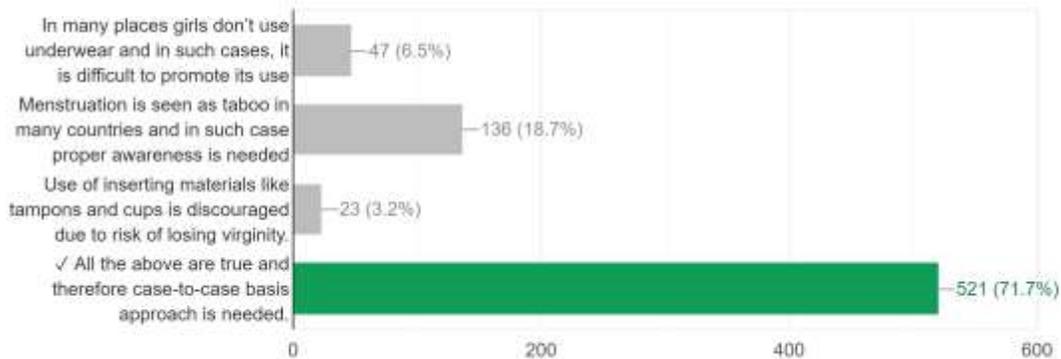
In schools, there is a lack of education about Menstrual Hygiene Management (MHM). What factors are responsible for this

486 / 727 correct responses



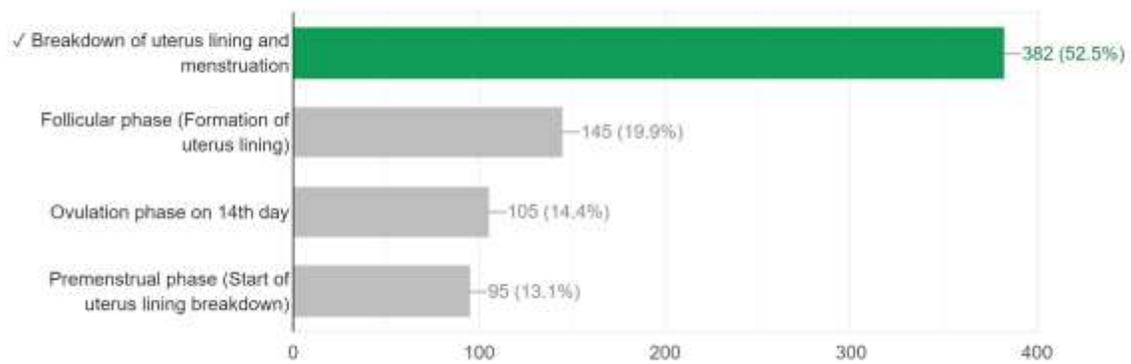
Every society is different due to cultural practices. So a MHM course should be designed to address the situation on case to case basis. Tick the correct statement.

521 / 727 correct responses



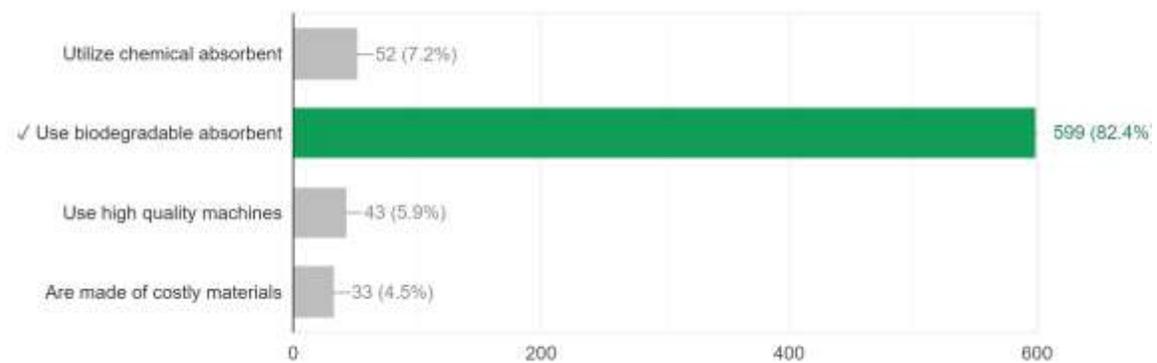
### Menstrual phase of Menstrual cycle is characterized by:

382 / 727 correct responses



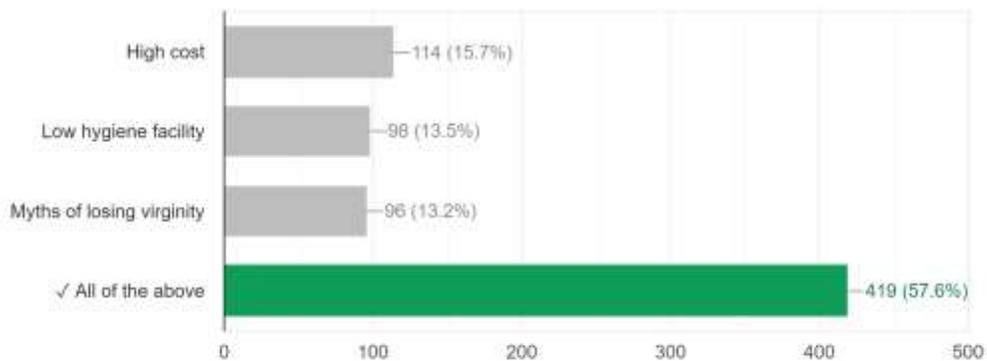
### Environment friendly sanitary pads :

599 / 727 correct responses



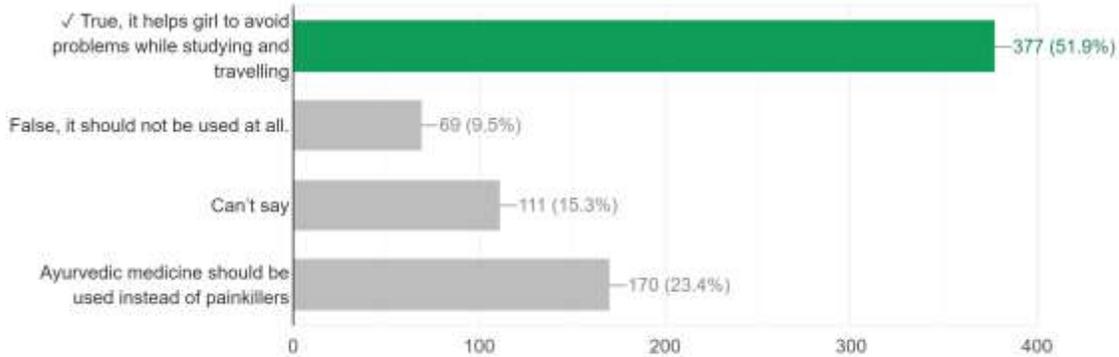
### Tampons and Menstrual Cups are not suitable in rural India because:

419 / 727 correct responses



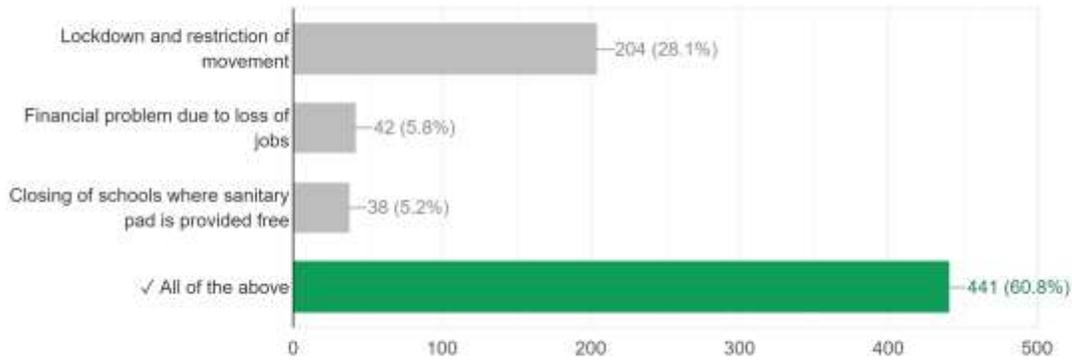
Pain relief medications for menstruating girls are sometimes necessary and should be provided in schools:

377 / 727 correct responses



Corona pandemic has enhanced the problem of menstrual hygiene due to:

441 / 725 correct responses



## CONCLUSION

The quiz competition shows that though a good level of awareness exists among the school students but still a lot of effort is needed to increase this awareness especially among school and college students to bring gender equality and security in the society.

# REPORT ON EARTH DAY PROGRAMME THROUGH WEBINAR ON APRIL 22, 2021

## Poster - Earth Day -2021



**WEBINAR ON "EARTH DAY 2021, Under "Ek Bharat Shreshtha Bharat" scheme**  
**Title on "Remote Sensing and Geographic Information System**  
**for Environment Assessment"**

*Speakers*

1. Dr. K.Muthukumar- Programme officer, ENVIS, Department of Environment , Chennai.  
"About Earth Day -2021"- Theme- "Restore Our Earth "
2. Mr. S.Parthipan- GIS Expert, ENVIS, Department of Environment, Chennai.  
"Introduction and application of Remote Sensing and Geographic Information System (GIS)"
3. Dr.N.Manikandan , Teaching Faculty , University of Madras , Chennai.  
"Spatio-temporal Assessment of Air Quality in Tamil Nadu"

**Google meet : Click here : <https://meet.google.com/ybh-qejy-uid>**

**Date : 23.04.2021**                      **Time: 4.00 PM to 5.00 PM**

**ENVIS HUB,  
Department of Environment ,  
Government of Tamil Nadu**

### I. Details of the Programme

1. Title of Webinar : Webinar on Earth Day 2021
2. Target Group : NGC Students, NGC Teacher coordinators and Public
3. Date of the event : 23.04.2021
4. Time : 4.00 PM to 5.00 PM
5. Duration : 1.00 hr.
6. Campaign Type : Creating Earth Day awareness among the NGC Teacher Coordinators and students

7. Name of Experts :

1. Dr.K. Muthukumar, Programme Officer, ENVIS HUB, Department of Environment, -Chennai.

*Topic: About Earth Day and Restore Our Earth*

2. Mr.S. Parthipan, GIS Expert, ENVIS HUB, Department of Environment, Chennai.

*Topic: Introduction of remote sensing and Geographic Information System and application of UAV in Various Domain*

3. Dr. N. Manikandan, Guest Faculty, Department of Geography, University of Madras, Chennai.

*Topic: Spatio Temporal Assessment of Air Quality.*

## **II. Details of activities undertaken during the event:**

Webinar on“Earth Day-2021” which was held on 22.04.2021 at 4.00 PM to 5.00 PM.

The aims of this activity were to raise awareness among the NGC students and NGC teacher coordinator about importance of Earth Day. Dr. K.Muthukumar, Programme Officer, ENVIS HUB, Department of Environment, Chennai welcomed the experts and NGC teacher coordinators, researchers, scientists, government officials and students. Around 25 teachers, 36 students and 10 experts from different schools, Colleges and institutions have participated in the webinar event. The following topics were discussed during the webinar.

Dr. K.Muthukumar, Programme Officer, ENVIS HUB, Department of Environment, Chennai presented on importance of earth day and explained the structure of earth, components of earth, impact on earth and how to restore our earth etc.,

In continuation, Mr.S. Parthipan, GIS Expert, ENVIS. His presentation topic is on “Introduction of Remote sensing and Geographic Information System and application of UAV in Various Domains”. He explained the basics of remote sensing, Geographic Information System, GPS and Photogrammetry. Further he explained the applications of

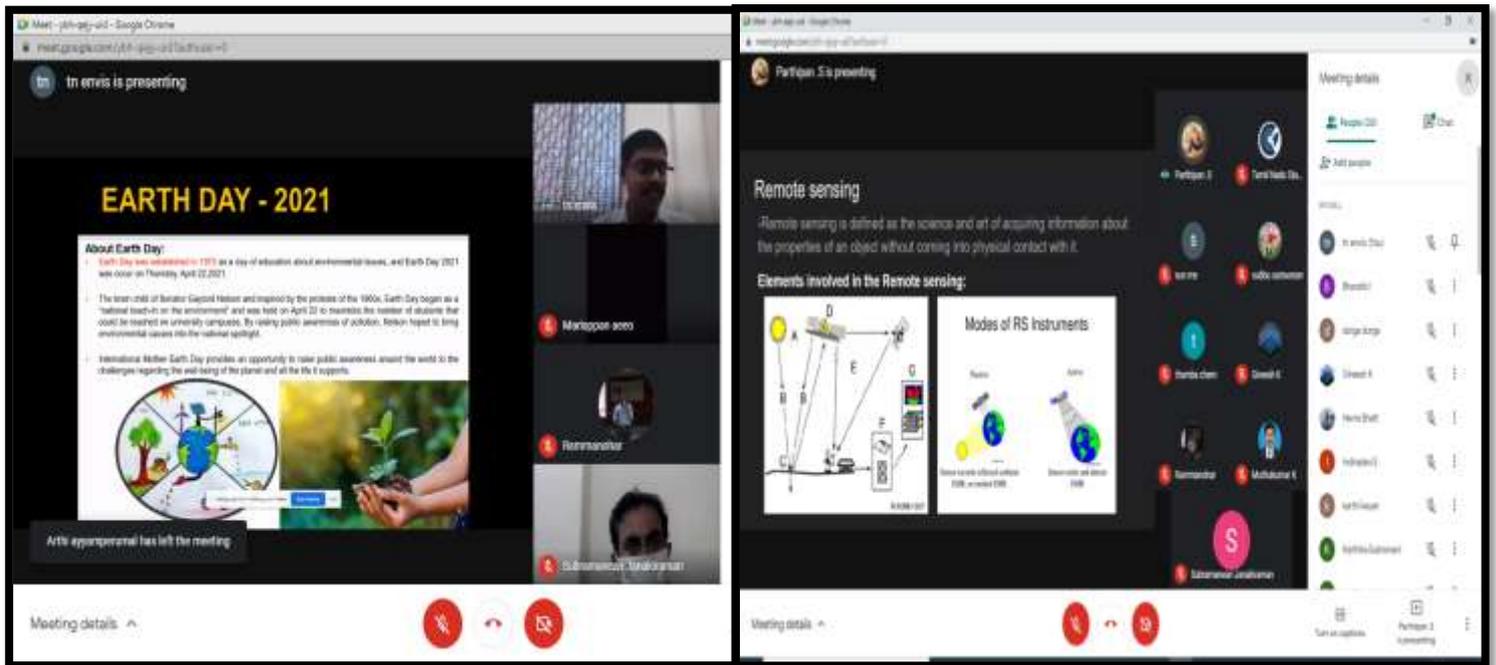
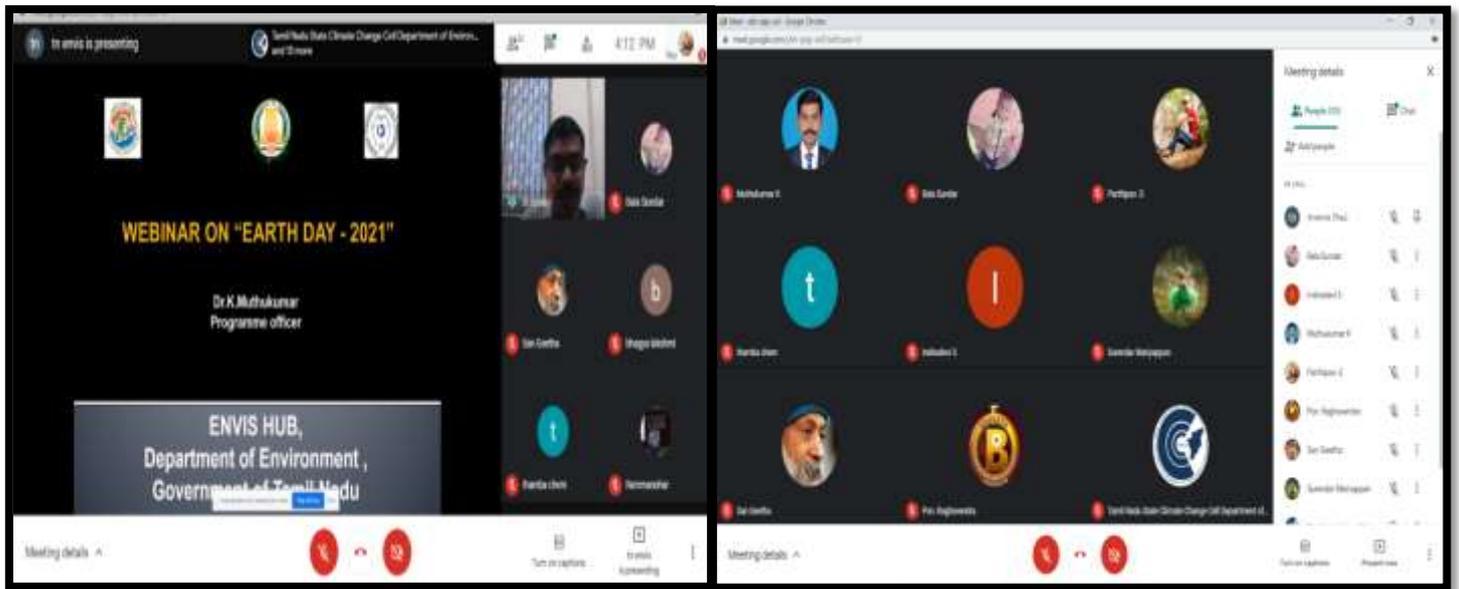
UAV in various domains. UAV types, its role in different sectors. The participants are curious in learning the emerging technology

Dr.N. Manikandan, Guest faculty Department of Geography, UNOM, Chennai. He was explaining the “Spatio temporal assessment of Air Quality in TamilNadu”. The objective of this presentation is to explain the importance of remote sensing and GIS in Environment Assessment. He was explaining the cause and effect of Air Pollution and to monitor the air pollution using Satellite Data-Sentinel 5p. He explained the trend of spatio temporal Air Quality during pandemic period.

During the webinar event, all the students were actively participated and raised various questions through chat window/box such as How Particulate Matter are categorized? Reason behind the decrease in Pollution parameters on particular period? Role of UAV in utility sector. What’s the advantage of using Regional Satellite Navigation System etc. ThePanellists viz, Dr.N. Manikadan, and Mr. Parthipan.S, Dr. Muthukumar interacted with the Students and clarified the doubts and questions raised by the Students and Teacher coordinator.

**Outcome of the Webinar:** This webinar highlighted the importance of environmental education among the NGC students and teacher coordinator in Tamil Nadu. This is an innovative programme by the ENVIS HUB, Department of Environment. At the end of the event, Dr. K.Muthukumar, Programme Officer, ENVIS HUB, Department of Environment thanked all the participants in the Webinar and instructed all the participants to create awareness among the public.

### III. Webinar - Photo Gallery



Participant 3 is presenting

### Electromagnetic Radiation in Remote sensing

The diagram illustrates the electromagnetic spectrum with various bands and their corresponding wavelengths. The visible light spectrum is shown as a rainbow, with colors ranging from violet (shortest wavelength) to red (longest wavelength). The diagram also shows the microwave band, which is used in remote sensing.

Meeting details: [Microphone icon] [Camera icon] [Screen sharing icon]

Man N is presenting

Meeting details: [People icon] [Close icon]

Participants: [Participant 1], [Participant 2], [Participant 3], [Participant 4], [Participant 5], [Participant 6], [Participant 7], [Participant 8], [Participant 9], [Participant 10], [Participant 11], [Participant 12], [Participant 13], [Participant 14], [Participant 15], [Participant 16], [Participant 17], [Participant 18], [Participant 19], [Participant 20], [Participant 21], [Participant 22], [Participant 23], [Participant 24], [Participant 25], [Participant 26], [Participant 27], [Participant 28], [Participant 29], [Participant 30], [Participant 31], [Participant 32], [Participant 33], [Participant 34], [Participant 35], [Participant 36], [Participant 37], [Participant 38], [Participant 39], [Participant 40], [Participant 41], [Participant 42], [Participant 43], [Participant 44], [Participant 45], [Participant 46], [Participant 47], [Participant 48], [Participant 49], [Participant 50], [Participant 51], [Participant 52], [Participant 53], [Participant 54], [Participant 55], [Participant 56], [Participant 57], [Participant 58], [Participant 59], [Participant 60], [Participant 61], [Participant 62], [Participant 63], [Participant 64], [Participant 65], [Participant 66], [Participant 67], [Participant 68], [Participant 69], [Participant 70], [Participant 71], [Participant 72], [Participant 73], [Participant 74], [Participant 75], [Participant 76], [Participant 77], [Participant 78], [Participant 79], [Participant 80], [Participant 81], [Participant 82], [Participant 83], [Participant 84], [Participant 85], [Participant 86], [Participant 87], [Participant 88], [Participant 89], [Participant 90], [Participant 91], [Participant 92], [Participant 93], [Participant 94], [Participant 95], [Participant 96], [Participant 97], [Participant 98], [Participant 99], [Participant 100]

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Man N is presenting

### Introduction

- The **Environmental Protection Agency (EPA)** calculates the **AQI** for six major air pollutants, for which **national air quality standards** have been established to **safeguard public health**.
- The higher the AQI value, the **greater the health concerns**.
- AQI quickly disseminates **air quality information in real-time**.

The diagram shows six major air pollutants: Ground-level ozone, particulate matter (PM<sub>2.5</sub>/PM<sub>10</sub>), Sulfur dioxide, Carbon Monoxide, and Nitrogen dioxide. These are grouped under the heading 'Air pollutants'.

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Man N is presenting

### Air Quality Index (AQI)

The figure displays six maps of India, each showing the Air Quality Index (AQI) for a different region. The maps use a color scale from green (good) to red (poor) to indicate the level of air pollution. The regions shown are: North India, West India, South India, East India, Central India, and South West India.

Meeting details: [Microphone icon] [Camera icon] [Screen sharing icon]

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**Activities performed by  
ENVIS Resource Partner  
'Wildlife and Protected Areas',  
Wildlife Institute of India, Dehradun**

*under*

**Ek Bharat Shrestha Bharat  
Programme**

***Reporting Period: April to June, 2021***

***Submitted by:***

**ENVIS Centre on Wildlife and Protected Areas  
Wildlife Institute of India, Chandrabani, Dehradun, Uttarakhand  
Email: [wii@envis.nic.in](mailto:wii@envis.nic.in); [envis@wii.gov.in](mailto:envis@wii.gov.in)  
Website: [www.wiienvis.nic.in](http://www.wiienvis.nic.in)**



**भारतीय वन्यजीव संस्थान  
Wildlife Institute of India**



## 2. Celebration of International Day for Biological diversity, 22 May 2021

- a. **Activity:** Webinar on Importance of Biodiversity and its Conservation to celebrate International Day for Biological Diversity on 22 May 2021

**Venue:** Online

**Resource Persons:** ENVIS Team WII, WWF, Dr. Erach Bharucha, Dr. K.Sivakumar

**Target Groups:** Students, Researchers and General Public

**Attendees/ Participants:** 588

**Outcome of the Activity/Achievements:** ENVIS RP's at Wildlife Institute of India, Dehradun and WWF India organized the webinar to celebrate the International

Day for Biological Diversity on 22 May 2021. The collaboration was under the Ek Bharat Shrestha Bharat Scheme. The theme for this year is "We're part of the solution"#ForNature as announced by the Secretariat of the Convention on Biological Diversity. The main aim to organized the webinar is to aware people about the importance of biodiversity and its conservation, coastal and marine ecosystem of India and how the ecosystem is a critical entity in the sustenance of life on this planet earth. If **we are part of solution for the nature** then only, we could reverse the species decline. Over 262 participants registered them self, more than 200 participants participated through Zoom and 50 plus participants attended webinar through YouTube Live.

The speakers of webinar Dr. Erach Bharucha, Director, Bhartiya Vidyapeeth Institute of Environmental Education and Research (BVIEER) and Dr. K. Sivakumar- Scientist F, Department of Endangered Species Management and Coordinator, Environment Information System (ENVIS) Centre at Wildlife Institute of India, Dehradun covered topics related to importance of biodiversity and its conservation. Audience of webinar appreciated the talk delivered by the speakers.



- b. **Activity:** E-Poster to celebrate International Day for Biological Diversity on 22 May 2021

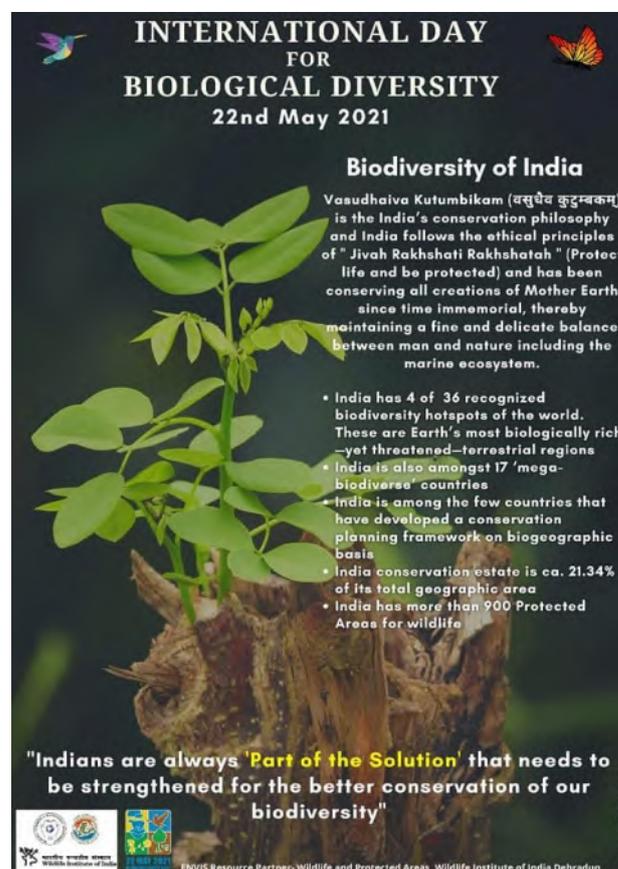
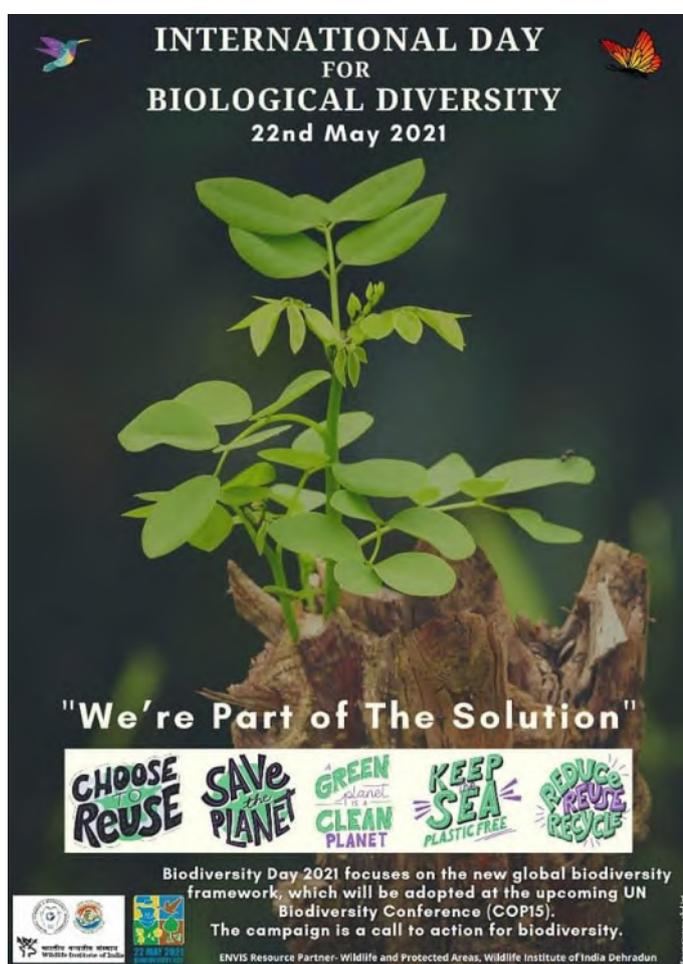
**Venue:** Online

**Resource Persons:** ENVIS Team WII

**Target Groups:** Students, Researchers and General Public

**Attendees/ Participants:** 335

**Outcome of the Activity/ Achievements:** The main aim to prepare E-poster is to aware people about the importance of the day and how we Indians are always '**Part of The Solution**' that needs to be strengthened for the better conservation of our biodiversity and how much it is important to save our ecosystem.



### 3. Celebration of World Turtle Day, 23 May 2021

- a. **Activity:** Online Slogan Writing Contest to celebrate World Turtle Day on 23 May 2021

**Venue:** Online

**Resource Persons:** ENVIS Team WII

**Target Groups:** Students, Researchers and General Public

**Attendees/ Participants:** 1280

**Outcome of the Activity/ Achievements:** The main aim to organized the contest is to aware people about the importance of turtle and tortoise and their habitats and to raise among awareness among humans to help turtle survive and thrive in their natural habitat. It is important to make the sea plastic free to save their lives.



- b. **Activity:** E-Poster to celebrate World Turtle Day on 23 May 2021

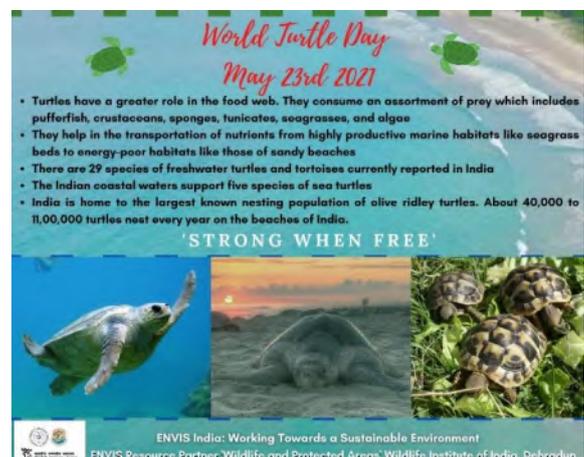
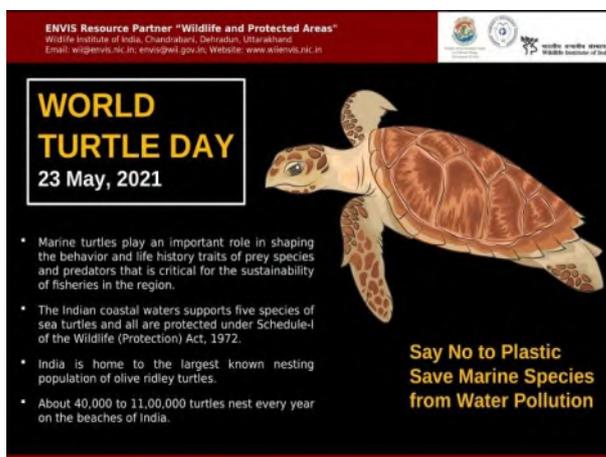
**Venue:** Online

**Resource Persons:** ENVIS Team WII

**Target Groups:** Students, Researchers and General Public

**Attendees/ Participants:** 1701

**Outcome of the Activity/ Achievements:** The main aim to prepare E-poster is to aware people about the importance of sea turtle and how much it is important to save sea turtles. It includes the information on Turtles, they have a greater role in the food web. The Indian coastal waters support five species of sea turtle and India is the largest known nesting population of olive ridley turtles.



#### 4. Celebration of World Dugong Day, 29 May 2021

**Activity:** E-Poster on World Dugong Day, 29 May 2021

**Venue:** Online

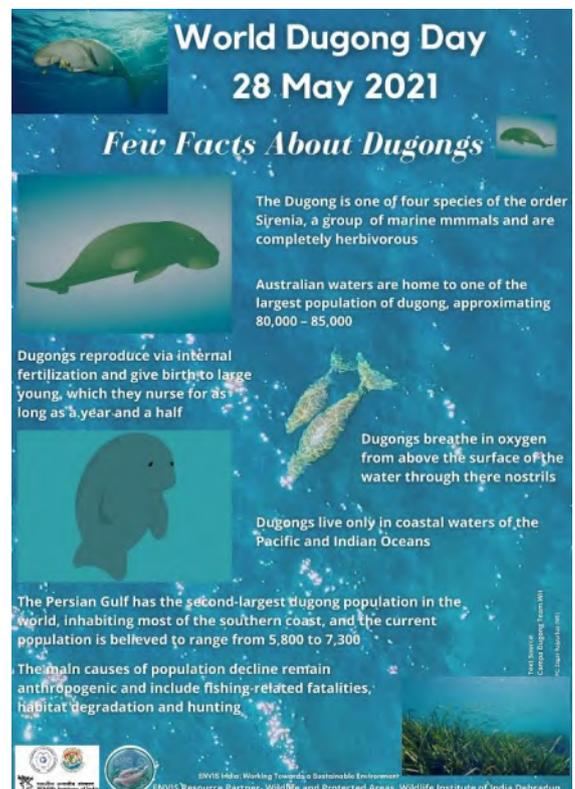
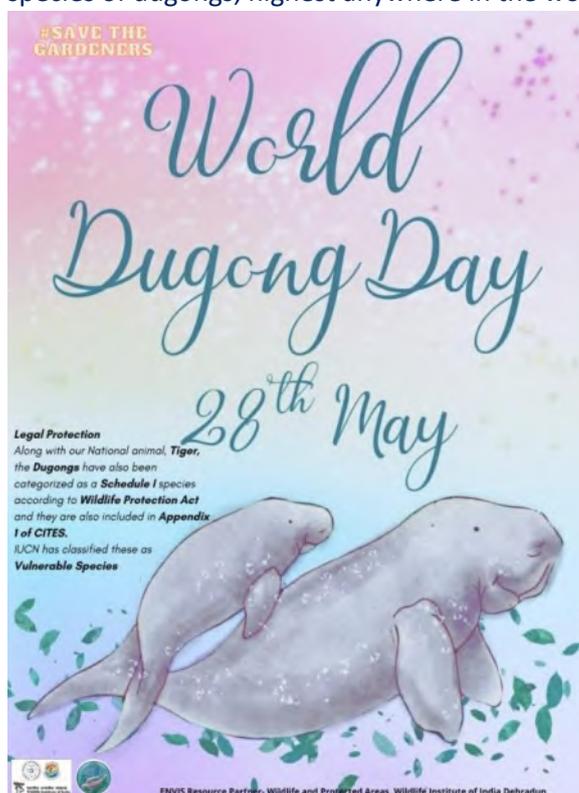
**Resource Persons:** ENVIS Team WII

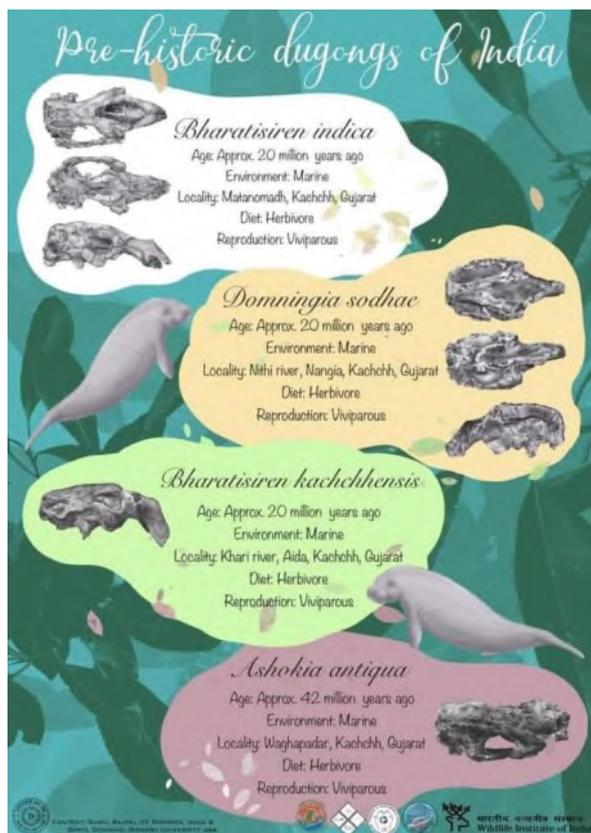
**Target Groups:** Students, Researchers and General Public

**Attendees/ Participants:** 5653

**Outcome of the Activity/**

**Achievements:** The main aim is to aware people about Dugongs. The E-poster includes the few facts of Dugongs (sea cows) and their habitat. They live only in coastal waters of the Pacific and Indian Oceans and graze on seagrasses. Their lives is upto 70 years. The Dugongs have also been categorized as a Schedule I species according to Wildlife Protection Act and are also included in Appendix 1 of CITES. IUCN has classified these as vulnerable species. The E-poster also includes Prehistoric Dugongs of India. Ancient India had four species of dugongs, highest anywhere in the world .





## 5. Celebration of World Environment Day, 05 June 2021

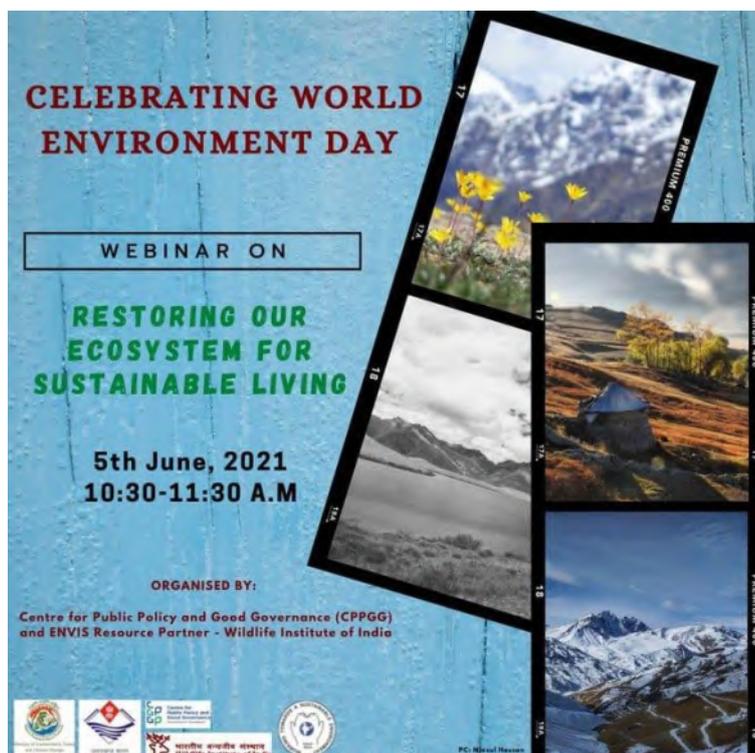
a. **Activity:** Webinar on Restoring Our Ecosystem For Sustainable Living on 05 June 2021

**Venue:** Online

**Resource Persons:** ENVIS Team WII, CPPGG, Dr. K.Sivakumar, Dr. Nasim Ansari, Dr. Nihal Siddiqui

**Target Groups:** Students, Researchers and General Public

**Attendees/ Participants: 207**



**Outcome of the Activity/Achievements:** officials, field level staff including student community, general public, so that they play an important role and contribute towards ecosystem restoration for enhancing people's livelihood, immediate steps towards climate change mitigation and biodiversity conservations. The target group was from the Forest and Environment Department, Panchayati Raj Department, and also student community.



Webinar includes the talk on different topics-  
 1) Restoring eco systems and livelihoods and Nature based solutions for Ecosystem Restoration by Dr. K.Sivakumar  
 2) Strengthening Governance for Restoring Ecosystems by Dr. Nasim Ahmad Ansari  
 3) Nature based solutions for Ecosystem Restorations by Dr. Nihal Anwar Siddiqui



**Ministry of Environment, Forest & Climate Change, Government of India**

1 h • 🌐

Envis RP Wildlife Institute of India (WII) and Centre for Public Policy and Good Governance (CPPGG), Uttarakhand\* is jointly organizing a Webinar on "\_Restoring our ecosystem for sustainable living\_" on 5th June to celebrate #WorldEnvironmentDay

For more details see the attached flyer.

For more information please visit the link given below:

<https://www.facebook.com/1543299422552695/posts/3030185403864082/>



3

1 share

Like Comment Share



**MoEF&CC** @moefcc · 48m

ENVIS RP @Wiofficial1 and CPPGG, #UTTARAKHAND jointly celebrate #WorldEnvironmentDay with @MoEFCC. The theme of the Webinar is Habitat Restoration for better livelihood.



Prakash Javadekar and 3 others

5 18

# WORLD ENVIRONMENT DAY

## 05 JUNE 2021

A Joint Webinar  
organized by  
**ENVIS Resource Partner- Wildlife Institute of India (WII), Dehradun**  
&  
**Centre for Public Policy and Good Governance (CPPGG), Uttarakhand**

### 'Restoring Our Ecosystem For Sustainable Living'

JUNE 5TH, 2021  
10:30 AM - 11:30 AM

WEBINAR LINK: [HTTPS://UNDP.ZOOM.US/J/83663507397](https://undp.zoom.us/j/83663507397)

## SPEAKERS

**Dr. K. Sivakumar- Scientist -F & ENVIS Coordinator WII**  
**Dr. Nasim Ahmad Ansari- Project Scientist (MEE) WII**  
**Dr. Nihal Anwar Siddiqui, Professor UPES Dehradun**

## Agenda

#WED2021

Theme	Time Slot	Organization	Key Resource Persons/ Panelist
Brief introduction of panelist	3 Minutes (10.30 am- 10.33am)	CPPGG	Sharon Jacob, Communication & Training Specialist
Welcome Address & Objective of the webinar	5 Minutes (10.33- 10.38 am)	CPPGG, Planning Department	Dr Manoj Pant, Addl. Chief Executive Officer, CPPGG
Inaugural Speech	5 Minutes (10.38 am- 10.43 am)	Wildlife Institute of India (WII), Dehradun	Dr. Dhananjai Mohan, IFS Director, Wildlife Institute of India, Dehradun
<i>Technical Presentations</i>			
Invasive Species Management in Wildlife Habitat Restoration and Livelihood Generation	(10.43 am- 11.00 am)	ENVIS Centre, Wildlife Institute of India (WII), Dehradun	Dr. K. Sivakumar Scientist -F & WII-ENVIS Coordinator
Strengthening Governance for Restoring Ecosystems	(11.00 am- 11.15 am)	Wildlife Institute of India (WII), Dehradun	Dr. Nasim Ahmad Ansari-Project Scientist (MEE) Wildlife Institute of India, Dehradun
Nature based solutions for Ecosystem Restorations	(11.15am-11.30 am)	UPES University, Dehradun	Dr. Nihal Anwar Siddiqui, Professor and Program Director, Health Safety and Environmental Engineering Department, UPES University
Q & A Session & Vote of Thanks	(11.30am-11. 35am)	WII- ENVIS/ CPPGG	Dr. Anju Baroth, Scientist C-WI & ENVIS Co- Coordinator, Ranjan Kumar Borah, CPPGG/ Mr. Amir M. Lone, ENVIS Centre, WII

CPPGG: Centre for Public Policy and Good Governance  
 WII: Wildlife Institute of India  
 ENVIS: Environment Information System  
 UPES: University of Petroleum and Energy Studies

**REIMAGINE  
RECREATE  
RESTORE**

#GenerationRestoration

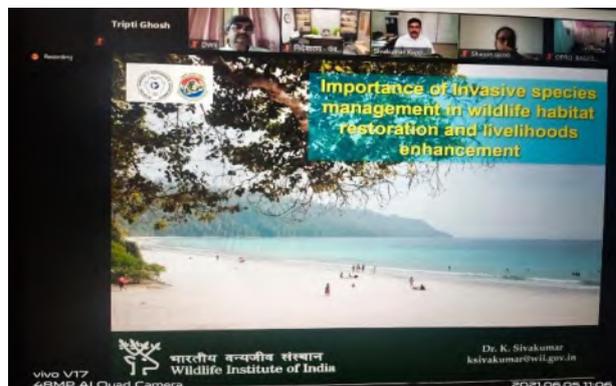
ENVIS India: Working Towards a Sustainable Environment

**REIMAGINE  
RECREATE  
RESTORE**

#GenerationRestoration

ENVIS India: Working Towards a Sustainable Environment

### GLIMPSES of the Event



**b. Activity:** Online Photography Contest to celebrate World Environment Day on 05 June 2021

**Venue:** Online

**Resource Persons:** ENVIS Team WII, UPCCB Dehradun

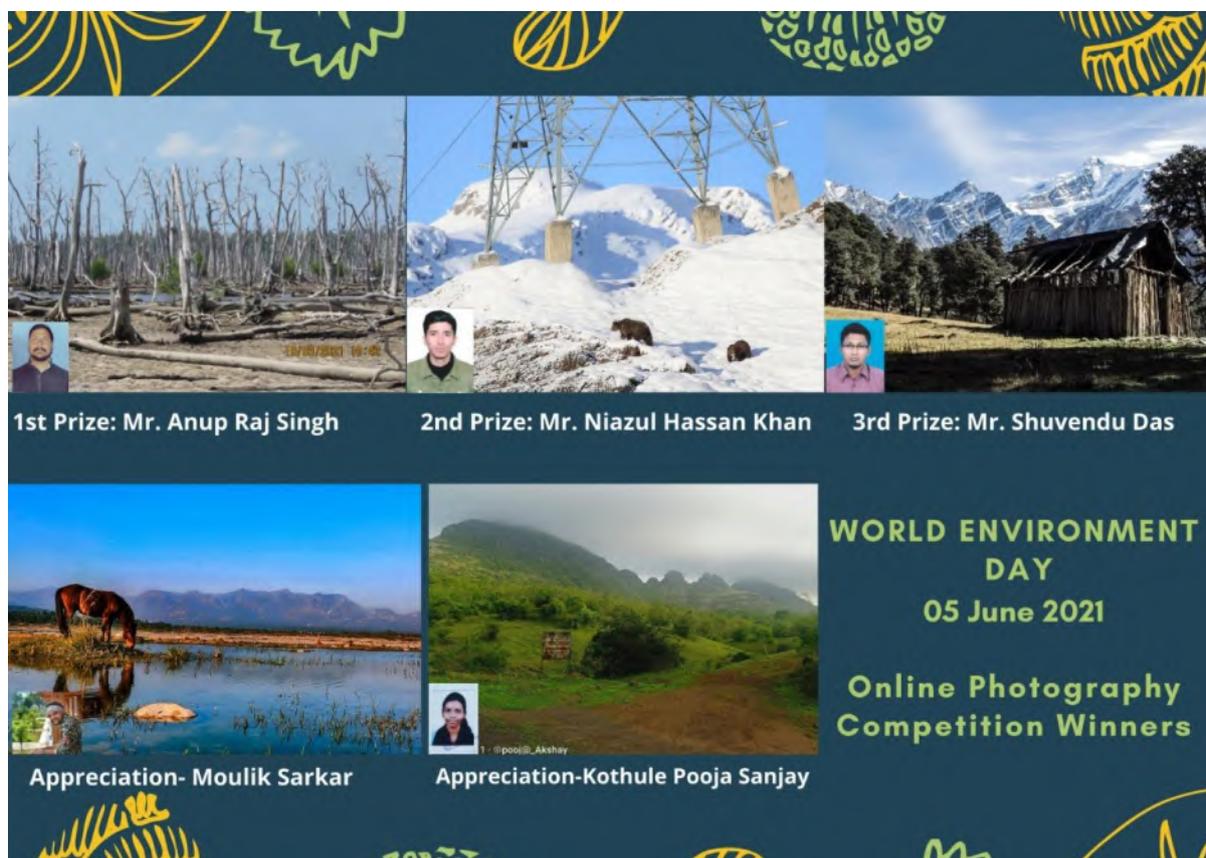
**Target Groups:** Students, Researchers and General Public

**Attendees/ Participants:** 524

**Outcome of the Activity/ Achievements:** 'Online Photography Competition' organized by MOEF&CC's ENVIS Hub and Resource Partner, at Uttarakhand Pollution Control Board, Dehradun and Wildlife Institute of India, Dehradun under Ek Bharat Shrestha Bharat Programme to celebrate World Environment Day on 05 June 2021. Total 53 entries were received for the contest. **Theme "Ecosystem Restoration"**



**Winners for the Online Photography competition:**



c. **Activity:** Online Poster Making Contest to celebrate World Environment Day on 05 June 2021

**Venue:** Online

**Resource Persons:** ENVIS Team WII, UPCC Dehradun

**Target Groups:** Students, Researchers and General Public

**Attendees/ Participants:** 330

**Outcome of the Activity/ Achievements:** 'Online Poster Making Competition' organized by MOEF&CC's ENVIS Hub and Resource Partner, at Uttarakhand Pollution Control Board and Wildlife Institute of India, Dehradun under Ek Bharat Shrestha Bharat programme to celebrate World Environment Day on 5th June 2021. Total 47 entries were received for the contest.

**Theme:** Ecosystem Restoration is a natural solution for climate change



**Winners for the Online Poster Making Competition**



**WORLD ENVIRONMENT DAY**  
**05 June 2021**  
**Online Poster Making Competition Winners**

**d. Activity:** Online Slogan Writing Contest to celebrate World Environment Day on 05 June 2021

**Venue:** Online

**Resource Persons:** ENVIS Team WII, UPCC Dehradun

**Target Groups:** Students, Researchers and General Public

**Attendees/ Participants:** 743

**Outcome of the Activity/ Achievements:** 'Online Slogan Writing Competition' organized by MOEF&CC's ENVIS Hub and Resource Partner, at Uttarakhand Pollution Control Board and Wildlife Institute of India, Dehradun under Ek Bharat Shrestha Bharat programme to celebrate World Environment Day on 5th June 2021. Total 67 entries were received for the contest.

**Theme:** Ecosystem Restoration for better life



**Winners for the Online Slogan Writing competition:**

 <b>Pooja Bansal</b> 1st Prize:	प्राणवायु के दाता हैं हम, हम ही से है ये रत्नगर्भा, तो करो धरा को हरा भरा, ताकि पुनर्जीवित हो उठे हमारी वसुंधरा।  Don't make trees rare, keep them with care. Otherwise be ready to pay fare, for a world with everything rare	 <b>Prashant Raj</b> 2nd Prize:
 <b>Akshay Ishwar Mankar</b> 2nd Prize:	संवर्धन प्रकृति का, अंकुर नवनिर्माण का !	
 <b>Kota Mahidhar</b> 3rd Prize:	Save the green & blue before our future generation has to paint everything black	
 <b>Chandresh Bansal</b> Appreciation	Society establishment minus ecosystem restoration is equal to chaos and destruction  कभी ना होगा मानव जाति का मंगल, काट दिये यदि इसने जंगल।	 <b>Aryan Yadav</b> 3rd Prize:
 <b>Priyanjali Pokhariya</b> Appreciation	पर्यावरण संरक्षण के कागज़ी घोड़े मत दौड़ाओ, हे! मनुष्य, अगर सच में हिम्मत रखते हो, तो घर-घर में तुम वृक्ष लगाओ।	 <b>VAISHNAVI M. SAXENA</b> Appreciation

**WORLD ENVIRONMENT DAY**  
05 June 2021  
**Slogan Writing Competition Winners**

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# QUARTERLY REPORT

(APRIL - JUNE 2021)

ON THE WORK DONE BY

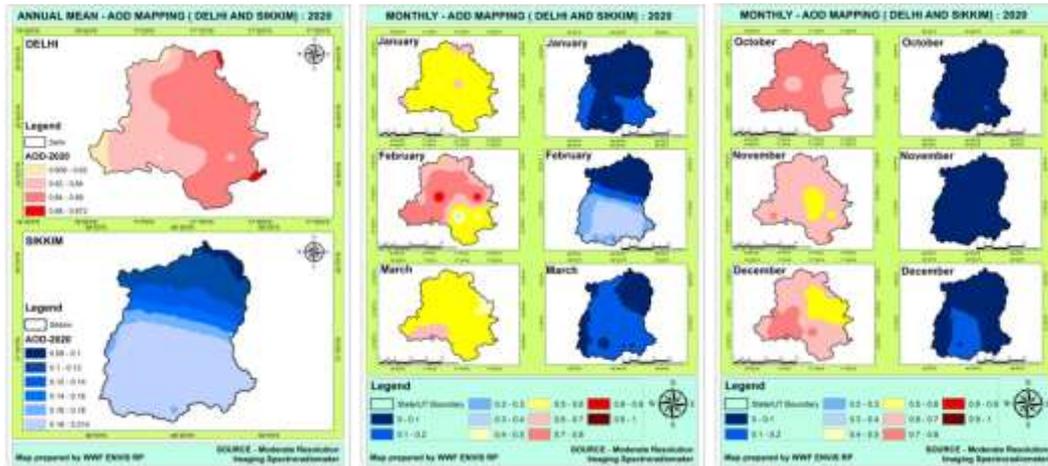
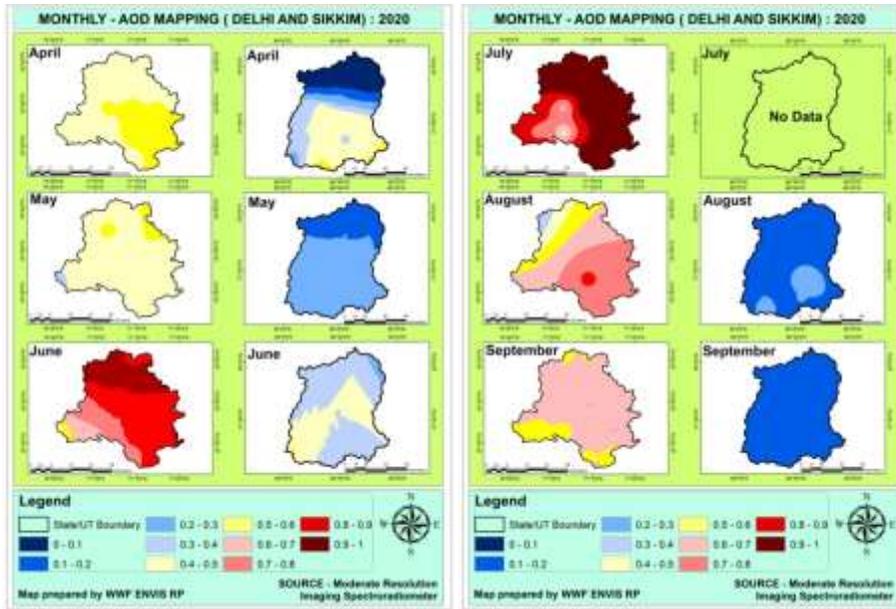
**WWF ENVIS RP**

ON

**“EK BHARATH SHRESTHA BHARATH SCHEME”**

## **AIR POLLUTION MAPPING FOR DELHI AND SIKKIM**

The study of aerosol concentration or load in the atmosphere can easily determine the air quality of an area and Aerosol Optical Depth mapping can easily show the aerosol concentration in the atmosphere. **Its value ranges from 0 to 1.** Values near to 0 or less than 0.1 indicate clear sky and maximum visibility. On the other hand, value near to 1 indicates the maximum concentration of aerosols in the atmosphere and thus low visibility. They originate either from anthropogenic sources (like fire) or from natural sources (like dust, volcanic etc.). Because of their high temporal variation and optical properties, they are one of the major factor of climate change which is caused by human activities (IPCC, 2007). In the present analysis, monthly MODIS data were processed for Delhi and Sikkim and annual AOD mapping has also been done.



## EARTH DAY CELEBERATION (22<sup>nd</sup> April,2021)

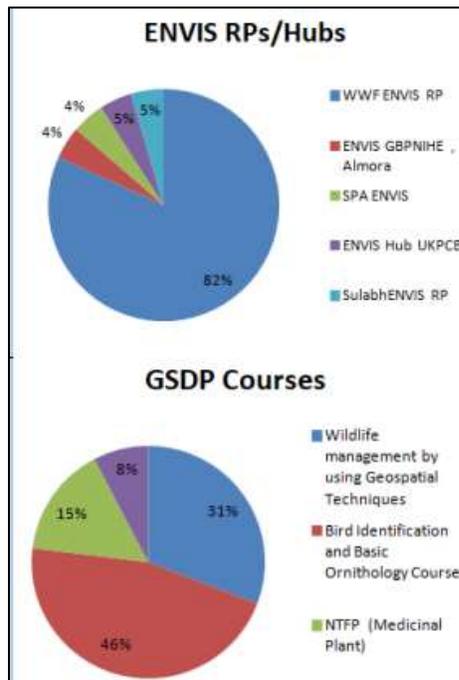
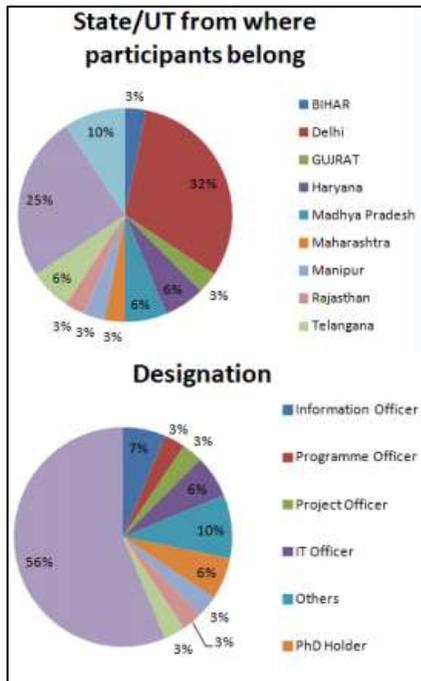
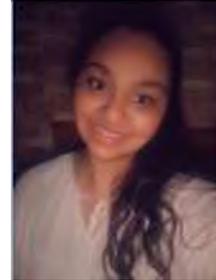
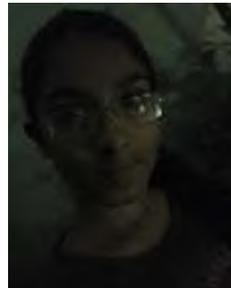
We conducted an activity called “#RestoreOurNature #SwitchOffLightsforHalfAnHour”, where the general public was requested to switch off the electricity at their homes as a sign to conserve energy on this auspicious day.

A Google form was generated to gather information about the participants such the State/UT from they belong and many other details. They were asked to upload a selfie that depicts that they participated in the activity and were asked to write a message related to Earth Day based on their understanding about the importance of the day.

A total of 32 responses were received, participants from Bihar, Delhi, Gujarat, Maharashtra, Telangana, Uttar Pradesh took part in the event.

This small act was organized to raise awareness and inspire people to take concrete action on environmental

issues and to spread a message that even a small action of the mankind can create larger impacts and it should be considered as each and everyone's duty to speak up for the nature and help in protecting the environment from any kind of harmful consequences.



**Pie-charts showing percentage of participation across PAN-India**  
**VIRTUAL INTERACTIVE MEET OF SCHOOL ECO CLUBS**

An event titled “Virtual Interactive Meet of School Eco-Clubs” was conducted on 18th May, 2021 from 4 to 5 pm under the Ek Bharat Shreshtha Bharat Scheme. The organizers for the event were WWF ENVIS RP, Sikkim ENVIS Centre and SPA ENVIS RP.

A webinar was held on “Culture and Heritage Legacy of Delhi and Sikkim” where over 500 students and teachers from Delhi and Sikkim actively participated. Ms. KeziaChettri (Student from Sikkim) and Mr. Raunak Raj (Student from Delhi) gave a talk on the cultural heritage of Delhi and Sikkim. Dr. MehebutSahana gave a very interactive and enlightening talk on Geography and Earth Systems. Poster making competition was also conducted and the best posters were showcased during the webinar.

**History of Sikkim**

- Sikkim was ruled by Chogyals (Bhutcha great kings) of the Namgyal Dynasty for over 300 years from 1642 to 1975.
- Phyrenok Namgyal, the first Chogyal and he ruled over a vast territory, many times the size of present Sikkim.
- Sikkim became a princely state of British India in 1890 continued its princely status with the Union of India in 1975.
- On 16<sup>th</sup> May 1975 it became the 22<sup>nd</sup> State of India.

*Portrait of Palden Thondup Namgyal was the last king of Sikkim.*

**Earth System: complex interrelation**

Earth as a Complex Interrelated System

**CULTURE & TRADITIONS OF DELHI**

- Delhi shares a border with Punjab, Rajasthan, Uttar Pradesh, and Haryana. Thus, the tradition and lifestyle of Delhi is very much influenced by the culture of these neighboring regions.
- It has been a migration spot for those who are looking for a better job or a better standard of living. Delhi is also very welcoming for these new communities, who brought in new traditions and rituals.
- When it comes to religious traditions, the locals have held on to their religious values, practice their religion and celebrate festivals together.
- The rich heritage and culture can be seen in the lifestyle, demography, art, crafts and music. Delhi being the capital of India has many art and craft galleries along with auditoriums that host regular cultural events.

**Culture and Tradition of Sikkim**

- Total Population : 6,10,577 (2011 Census)
- Population density is 86 per sq km
- Literacy rate: 81.42%
- Climate: Sub-Tropical, Temperate, Alpine
- Annual Rainfall: Avg 1200mm
- Economy: Tourism, Agriculture, Pharma Industries, Hydro Power
- Per capita Income: Rs 4.25 lakh
- Income Tax Exemption

**Culture and Tradition of Sikkim**

- Ethnic Community: Nepal, Bhotia and Lepcha
- Nepali is the predominant language spoken in Sikkim.
- Religion: Hindu, Buddhism
- Some common costumes of our state are called 'Dziru Sural', 'Bheku' & 'Dumpra'.
- All three major ethnic community in Sikkim have their unique dance forms.



## CELEBRATION OF “INTERNATIONAL DAY OF BIOLOGICAL DIVERSITY”

WWF ENVIS in collaboration with WII ENVIS organized a webinar today for the celebration of “International Day of Biological Diversity”. The eminent speakers for the webinar were Dr. ErachBharucha - Director, BhartiyaVidyapeeth Institute of Environmental Education and Research (BVIEER) and Dr. K. Sivakumar - Scientist F, Department of Endangered Species Management and Coordinator, Environment Information System (ENVIS) Centre at Wildlife Institute of India, Dehradun, India. The sessions were indeed very fruitful and had imparted a message that biodiversity conservation is very much important to sustain ecological balance in our environment.

Dr. ErachBharucha had shed light on the topic “Biodiversity Conservation in Formal Education in India” that enlightened the participants about the importance of inclusion of aspects related to biodiversity and its conservation into the formal education system.

Dr. K. Sivakumar gave a very informative talk on “People and Marine Biodiversity of India”, in which he had covered topics related to the importance of coastal and marine ecosystems of India and the initiative taken up by him and his team for conservation of Dugongs in India where communities also became part of the solution through their participation. Many participants from across the country became a part of the webinar which included UG and PG students, PhD scholars, Professors from different universities across India.



### MILESTONES IN EDUCATION AND TRAINING

**The Indian Context**

Nature Education 1930 - 1980	Environment Education 1980 - 2000	ESD 2000 - 2021	Reorienting Nature Education The new face
Salim Ali INDIS WWF- Nature clubs	Environmental Degradation M.C. Mehta (1991)	Donohad Report On common future - 1987	Connectors to nature Local specificity
Focus - Taxonomy Field watching	NCEERT - Textbooks Textbook Analysis BVIIEP Curriculum course	CEE CPE-GEC BVIIEP	Linkages of curricula to nature
Nature exposure Tutu on	Trends Tutu-off	Complexity Tutu-off	Experiential learning Tutu-on

### COLLEGE EDUCATION

- Focus on youth
- It is part of interdisciplinary studies
- Core content-  
Natural Resources, Ecosystems, Biodiversity, Energy, Climate Change, Pollution, Social issues of environment, environment law
- From conservation education to conservation action

**Ability Enhancement Compulsory Course for all UG students**

**Field Guide to Seagrasses of India in Five Indian Languages**  
My Friend Dugong

Comic Books & Field Guides in 5 Indian Languages

**MoEF&CC**  
@moefcc

WWF ENVIS RP is conducting a webinar in collaboration with WII ENVIS RP for celebration of [International Day for Biological Diversity](#) on 22nd May 2021 at 12:00 to 13:00 PM (IST). The theme the theme for this year is "We're part of the solution" [#ForNature](#).

Prakash Javadekar and 3 others  
16:43 · 17 May 21 from New Delhi, India  
Twitter for iPhone

7 Retweets 20 Likes

## WORLD ENVIRONMENT DAY (5<sup>TH</sup> JUNE, 2021)

WWF ENVIS RP Celebrated the World environment day 2021 with the support of MoEF&CC and under the guidance of Dr. G. Areendran, Coordinator, WWF ENVIS RP. The event titled #LetsHelpOurPlanetBreathe was organized, in which the participants registering for the event were asked to upload their video messages pertaining to the theme through the Google form that was created and circulated.



Questions Responses 143

5th June  
World  
Environment  
Day

**#LetsHelpOurPlanetBreathe -Celebration of World Environment Day 2021 with WWF ENVIS RP (Webinar cum Video Presentation Event)**

Join us this week to observe World Environment Day and show us your perspective to help and restore our Planet 🌍🌱

WWF ENVIS RP is providing an opportunity to all school and college students and general public to take a step ahead and speak up for the environment conservation to mark the celebration of the auspicious "World Environment Day" through the event titled #LetsHelpOurPlanetBreathe.

This time we are celebrating this event with webinar and participants short videos for awareness generation. The eminent panelists for the webinar are:

1. Shri Nishant Verma, (Indian Forest Service Officer, OCF/GM Forest department, Govt. of Uttarakhand)
2. Dr. Sandeep Chauhan (Scientist in-Charge, BGR, Ministry of Environment, Forest and Climate Change)
3. Prof. Benidhar Deshmukh (School of Sciences, Indira Gandhi National Open University, New Delhi)
4. Dr. Pamposh (Assistant Professor, University School of Environment Management, Guru Gobind Singh Indraprastha University)

Webinar was also organized that was hosted on Zoom as well as live streamed on the YouTube channel. As the theme for the year has been ecosystem restoration various esteemed panelists joined WWF ENVIS RP to celebrate and educate about the world environment day. The day was kicked off by Dr. G. Areendran, Coordinator ENVIS & Director IGCMC. He welcomed all the panelists and attendees for the event. He gave a brief about each of the panelists.

### **Panelists**

- Shri Nishant Verma, IFS- Chief Conservator of Forests/General Manager, Forest Department, Government of Uttarakhand.
- Dr. Sandeep Chauhan- Scientist In-Charge, Botanic Garden of Indian Republic, Ministry of Environment, Forest and Climate Change.
- Prof. Benidhar Deshmukh, School of Sciences, Indira Gandhi National Open University, New Delhi.
- Dr. Pamposh- Assistant Professor, University School of Environment Management, Guru Gobind Singh Indraprastha University.
- Dr. Susmita Shukla- Associate Professor, Centre for Plant and Environmental Biotechnology, Amity Institute of Biotechnology, Amity University.

**WORLD ENVIRONMENT DAY-5<sup>TH</sup>**  
**JUNE, 2021**

**WWF**    

**Theme for this year: "Ecosystem Restoration"**  
Ecosystem restoration means assisting in the recovery of ecosystems that have been degraded or destroyed, as well as conserving the ecosystems that are still intact. Healthier ecosystems, with richer biodiversity, yield greater benefits such as more fertile soils, bigger yields of timber and fish, and larger stores of greenhouse gases

**Topics that could be included in the video messages**

- Forest loss and habitat alteration
- Restoration of ecosystem
- Threats to native species and their habitat
- Impact of COVID on environment
- Implications of pollution on environment
- Application of 'greenprint' techniques in environment conservation

WWF ENVIS RP is providing an opportunity to all school and college students and general public to take a step ahead and speak up for environment conservation to mark the celebration of the auspicious "World Environment Day" through the event titled *Let's Walk Our Planet through*. We are also conducting a webinar in which panel discussions will be held.

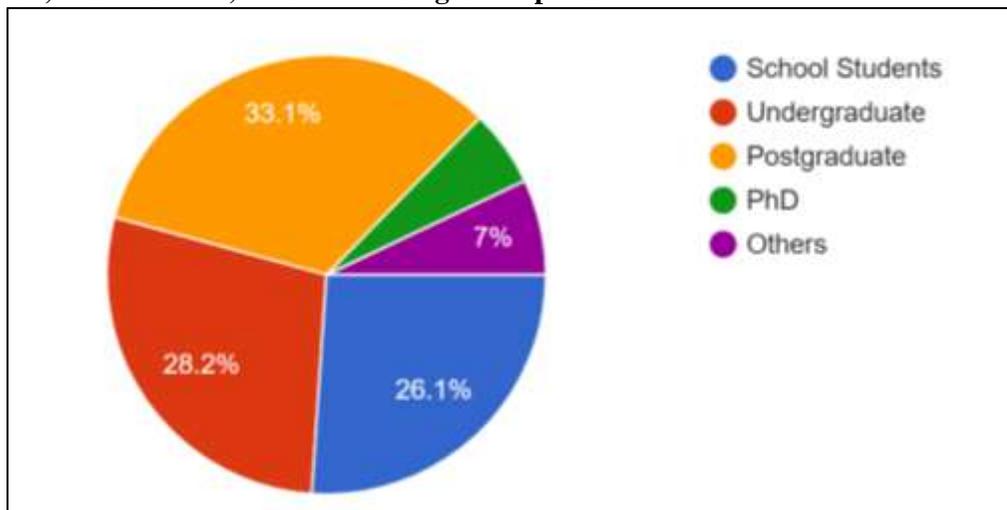
**Rules for creation of the short video messages**

- Participants are requested to first register themselves and upload your videos through this Google Form: <https://forms.gle/9m9w1h11F1AgpQ3ooz>
- You have to create a video message of 2-4 minutes.
- In the video message, please mention your name, state and qualifications.
- You are free to talk about any topic related to spreading awareness about environmental conservation (as per your creativity).
- The video message should reflect your feelings and emotions towards nature conservation or you could also suggest a solution as per your knowledge and understanding.
- The registered participants who have submitted their videos will be awarded a certificate.
- Send in your video messages latest by 6<sup>th</sup> June till 3 am.
- After submission of the Google form you will get a WhatsApp link. Kindly join as an WhatsApp platform for updates, information and future seminars and other events. If you don't have WhatsApp, let us know through email.

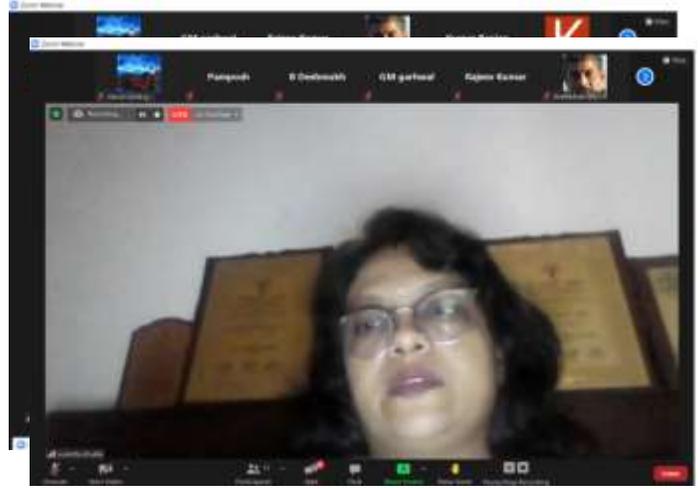
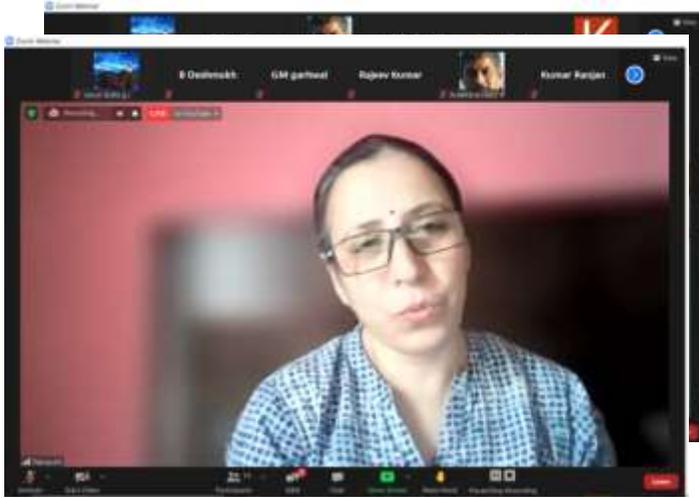
**Eminent Panelists for the webinar**

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Chief Conservator of Forests/General Manager, Forest Department, Government of Uttarakhand
- Dr. Sandeep Chauhan**  
Scientist In-Charge, Botanic Garden of Indian Republic, Ministry of Environment, Forest and Climate Change
- Prof. Banihar Dashmukh**  
School of Sciences, Indira Gandhi National Open University New Delhi
- Dr. Pamposh**  
Assistant Professor, University School of Environment Management, Guru Gobind Singh Indraprastha University
- Dr. Susmita Shukla**  
Associate Professor, Centre for Plant and Environmental Biotechnology, Amity Institute of Biotechnology, Amity University

Total no. of participants registered for the event: 142  
 Participants registered for the event include: School students, Undergraduate students, PhD Scholars, Professors and general public.



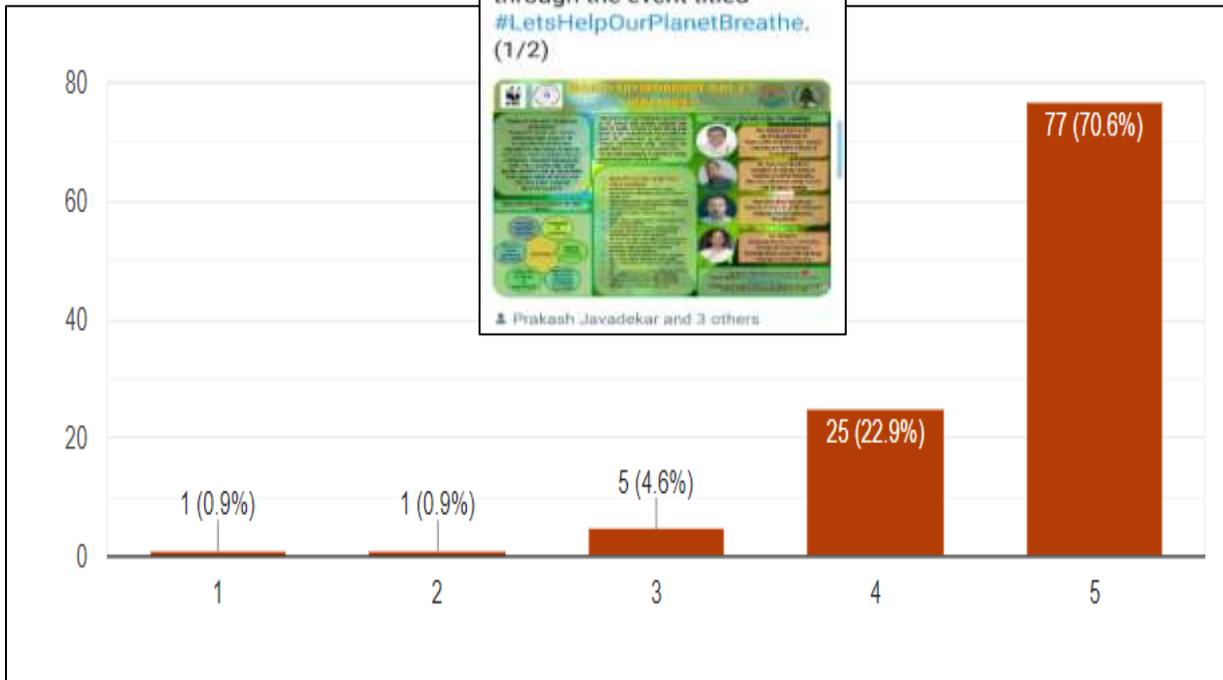
Pie chart depicting the proportion of qualification of the participants registered for the event



A total of 109 participants through Zoom and 167 people YouTube.



attended the event hosted viewed the session through



According to the statistics, 70.6% of the participants mentioned that they were very much benefitted from

the webinar

**Few videos that we received as part of the event conducted were displayed during the webinar and all the other videos were uploaded in our YouTube channel.**



**Display of selected videos received by WWF ENVIS RP on the occasion of World environment day 2021**