



# A Report of the World Ozone Day, 16<sup>th</sup> September, 2022



**By:**  
**ENVIS RP on Environmental Biotechnology, University of Kalyani**  
**West Bengal, India**  
**Sponsored by: MoEF & CC, Govt. of India**

World Ozone Day has been celebrated since 1994 and was established by the United Nations General Assembly (UNGA) which was initiated in **September 1987, by the international** treaty known as the Montreal Protocol aimed at saving the Earth's ozone layer was signed in Montreal, Canada. World Ozone Day marks the importance and role of the ozone layer in the environment. We all know that the Vienna Convention for the Protection of the Ozone Layer is a multilateral environmental agreement signed in 1985 that provided frameworks for international reductions in the production of CFCs due to their contribution to the destruction of the ozone layer.

The Theme of this year is “**Montreal Protocol@35: global cooperation protecting life on earth**” It, reminds us that ozone is crucial for our life on Earth and we must continue to protect the ozone layer for our future generation.

It reminds us that we must keep up the momentum to ensure healthy people and a healthy planet. The Montreal Protocol has led to the phase-out of 99% of ozone-depleting chemicals in refrigerators, air-conditioners and many other products. The latest Scientific Assessment of Ozone Depletion completed in 2018, showed that, as a result, parts of the ozone layer have recovered at a rate of 1-3% per decade since 2000.

Current year our ENVIS centre is celebrating ozone day through online poster competition among college and university students. A good number of participants were participated in this programme. E-certificates were provided to the all registered candidates. The award certificate (1st, 2nd & 3rd) will also be provided to awardees.

The national webinar on Celebration of “World Ozone Day” was organized on the occasion of World Ozone Day. The Inaugural session was started from 7.00 p.m. At the outset, the Programme Officer, ENVIS-RP of the University of Kalyani, Dr. Anusaya Mallick gave the introductory speech of the Webinar.

Then the webinar was inaugurated by the Hon’ble Vice Chancellor, University of Kalyani Prof. (Dr.) Manas Kumar Sanyal, in the virtual presence of dignitaries and participants. He spoke about ENVIS and current environmental issues. He wished the success of the webinar.

Coordinator, ENVIS-RP of the University of Kalyani, Prof. Kausik Mondal welcomed the dignitaries, the speakers of the webinar and the participants. He mentioned about the ENVIS RP and that theme of the World Ozone Day in 2022.

Then the Technical session was conducted by Prof. Subhas Chandra Santra, retired professor of Department of Environmental Science, University of Kalyani and Ex-coordinator of DESKU ENVIS RP. He described the effect of ozone layer and its effect on plants, animals, human being, environment and climate change also. More than 35 **participants** attended the webinar.

At the end of the webinar Dr. Subhankar Kumar Sarkar, Deputy Coordinator DESKU ENVIS RP and Head Department of Zoology gave the vote of thanks. He gave the special thanks to Hon'ble Vice Chancellor Prof. (Dr.) Manas Kumar Sanyal, ENVIS Coordinator Prof. Kausik Mondal, Resource persons, ENVIS staffs, Students to the ENVIS Secretariat and MoEF & CC for their support.

In the second session the poster competitions were organized by DESKU ENVIS RP. Participants presented their poster.

## Webinar Brochure



### National Webinar and Online Poster Competition For Celebration of "World Ozone Day"-16<sup>th</sup> September, 2022

Theme - Montreal Protocol@35: global cooperation protecting life on earth



Hon'ble Vice Chancellor, K.U



Organised By:

ENVIS RP on Environmental Biotechnology, University of Kalyani  
Under the aegis of University of Kalyani ("A" Grade Accredited by NAAC)  
West Bengal, India,  
Sponsored by: MoEF & CC, Govt. of India

Join us on 16<sup>th</sup> Sept, 2022 for  
Webinar and Poster  
presentation  
Time: 7.00 P.M Onwards on  
Google Meet -  
<https://meet.google.com/ont-bbdx-zbr>

#### Webinar

Chief Patron:

Prof. (Dr.) Manas Kumar Sanyal, Hon'ble Vice Chancellor, K.U

Speaker:

Prof. S. C. Santra, Retired Professor, Dept of Environmental Science, K.U

#### Poster competition

An Online Poster Competition to be organised to celebrate the World Ozone Day on 16th September, 2022. We are inviting entries from Graduate and Postgraduate students for poster competition on the theme of this current year (Montreal Protocol@35: global cooperation protecting life on earth).

#### Rules for participants

##### Webinar

Interested participants should be registered before 14th September, 2022 within 5 p.m through Google form: <https://forms.gle/f7Gdn3d9bp8uu4TG6>

E-certificates shall be provided to all participants

##### Poster participants (Limited entries – in first come, first served)

❑ For poster competition Participants should be registered before 14<sup>th</sup> September, 2022 within 5 p.m through Google form: <https://forms.gle/Zo3MwHKf8erv5T7q8>

❑ Posters should be (1mx1m size) in pdf/jpg format.

❑ An abstract (within 150 words) should be attached along with the poster in pdf format.

❑ Poster presentation will be conducted through online platform on 16<sup>th</sup> September, 2022 at 7.00 p.m and the link will be shared through your given mail.

❑ The poster presentation should be within 05 minutes with self introduction.

E-certificates shall be provided to all candidates who participated. The award certificate (1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup>) will also be provided to awardees.

Last date for submission-14.09. 2022

Interested students please register at the earliest.  
Visit us: <http://deskuervis.nic.in>

For any Queries mail us: [deskuervisrp@gmail.com](mailto:deskuervisrp@gmail.com)

## Webinar Banner



**National Webinar and online poster competition**  
**For Celebration of "World Ozone Day",**

Date: 16th September, 2022  
Time: 7.00pm onwards

**Theme: Montreal Protocol@35: Global cooperation protecting life on earth**

**Organised by:-**  
ENVIS Resource Partner  
on  
Environmental Biotechnology, University of Kalyani  
Sponsored By: MOEF&CC, Govt. of India

.....JOIN.....  
<https://meet.google.com/ont-bbdx-zbr>

## Programme schedule of the webinar



**National Webinar and Online Poster Competition**  
**For Celebration of "World Ozone Day"-16<sup>th</sup> September,2022**  
**Theme - Montreal Protocol@35: global cooperation protecting life on earth**

**Join us on 16<sup>th</sup> Sept, 2022 for Webinar and online poster presentation**  
**Time: 7.00 P.M onwards On Google Meet**

**Organised by:**  
ENVIS Resource Partner on Environmental Biotechnology  
Sponsored by: MoEF & CC, Govt. of India

**"Distinguished Dignitaries"**  
**Chief Patron:**  
Prof. (Dr.) Manas Kumar Sanyal, Hon'ble Vice Chancellor, K.U  
**Welcome address:**  
Prof. (Dr.) Kausik Mondal, DESKU ENVIS RP Coordinator, KU  
**Speaker:**  
Prof. S. C. Santra, Retired Professor, Dept of Environmental Science, University of Kalyani  
**Poster Presentation by Participants**  
Vote of thanks

**Join- <https://meet.google.com/ont-bbdx-zbr>**

# ENVIS Poster



## WORLD OZONE DAY: 16<sup>TH</sup> SEPT, 2022

Theme: "Montreal Protocol@35: global cooperation protecting life on earth"

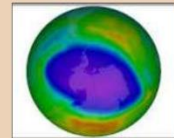
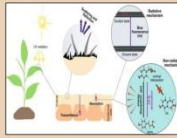
Organised by: ENVIS Resource Partner on Environmental Biotechnology

Hosted by: University of Kalyani, West Bengal

Sponsored by: Ministry of Environment, Forests & Climate Change



- ✓ The UN General Assembly on 23.01.1995 adopted a resolution 49/114 which proclaims 16<sup>th</sup> September as the International Day for the Preservation of the Ozone Layer, to commemorate the signing of the **Montreal Protocol on the Substances that Deplete the Ozone Layer** which was signed on 16<sup>th</sup> September, 1987.
- ✓ In accordance with the UN resolution 49/114, the Ozone Cell, Government of India has been celebrating the International Ozone Day for the Preservation of the Ozone Layer since 1995 at the National and State level.
- ✓ India become party to the Montreal Protocol in June 1992 and prepared the country program in 1993 for phasing out the Ozone Depleting Substances.



### Ozone Depleting Substances (ODS) ?

- Chlorofluorocarbons (CFCs) –12 for Refrigeration, Chillers and Metered Dose Inhalers.
- Hydrochlorofluorocarbons (HCFCs) – 22 for Air Conditioners
- Carbon Tetrachloride (CTCs) for as solvent process agent mainly in the metal cleaning and textile industries.
- It is also used as feedstock in the manufacture of CFCs and DV Acid Chloride.

### Alternatives of ODS

Sub-sector	Application	Alternative Technology
Domestic Refrigeration	Household Refrigerators And Freezers	HFC-134a, HFC-152a, Blends and mixtures, Hydrocarbons (for refrigerants) and HCFC-22, HCFC-22 + 142b, HCFC-141b, Hydrocarbons for foaming)
Commercial Refrigeration	Refrigerated Cabinets Water Coolers	HCFC-134a, HFC-152a, Blends and mixtures, Hydrocarbons (for refrigerants) and HCFC-22, HCFC-22 + 142b, Hydrocarbons (for foaming) HCFC-22, HFC-134a
	Ice-candy machines Walk-in coolers	HCFC-22, HFC-134a (refrigerants) and HCFC-14b (foaming)
Industrial Refrigeration	Cold Storages Process Chillers	HCFC-22, HFC-134a, Ammonia HCFC-22, HFC-134a, Ammonia
Transport Refrigeration	Perishable Transport	HCFC-22, HFC-134a, Blends and mixtures
Air Conditioning	Chillers Automotive-air conditioning	HCFC-123, HFC-134a, HCFC-22 HFC-134a, Blends and mixtures

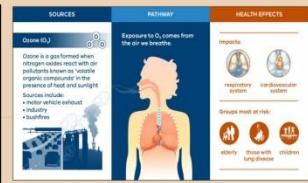
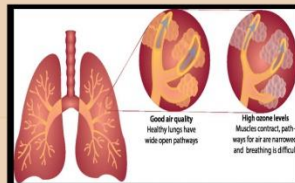
### Effect O<sub>3</sub> on Human Health

Ozone in the air we breathe can harm our health.

- ✓ People most at risk from breathing air containing ozone include people with asthma, children, older adults, and people who are active outdoors, especially outdoor workers.

Depending on the level of exposure, ozone can:

- ✓ Cause coughing and sore or scratchy throat.
- ✓ Make it more difficult to breathe deeply and vigorously and cause pain when taking a deep breath.
- ✓ Inflammation and damage the airways.
- ✓ Make the lungs more susceptible to infection.
- ✓ Aggravate lung diseases such as asthma, emphysema, and chronic bronchitis.
- ✓ Increase the frequency of asthma attacks.



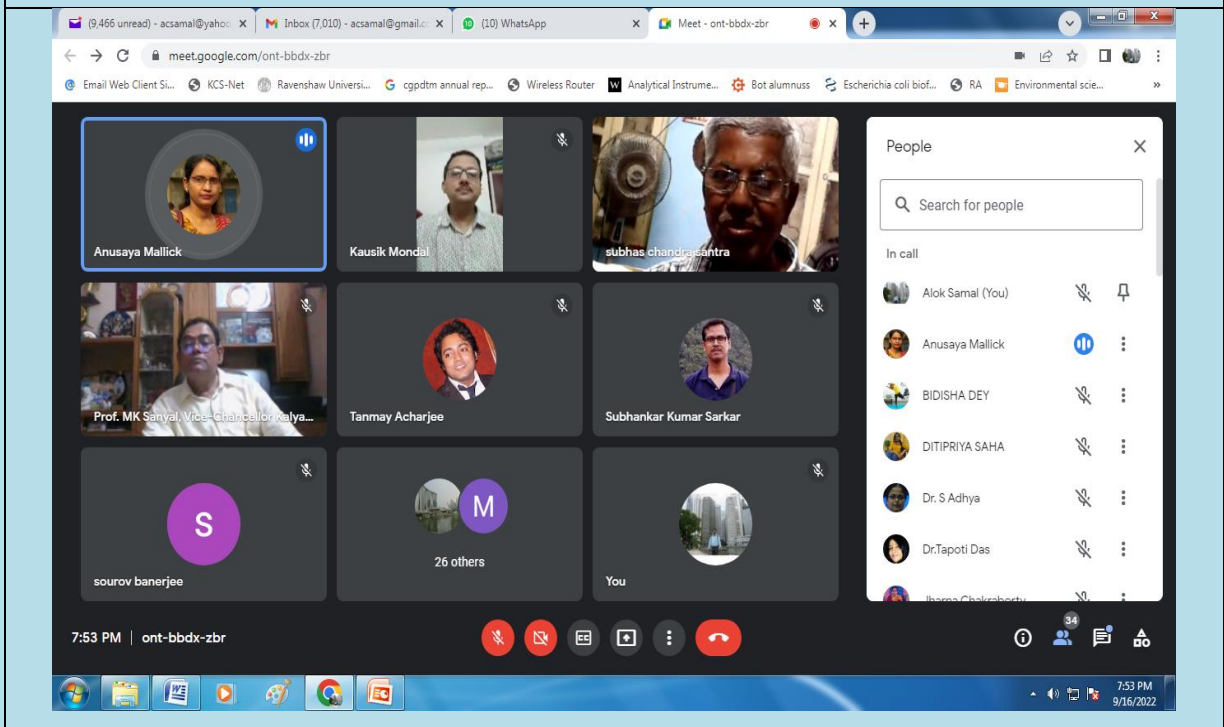
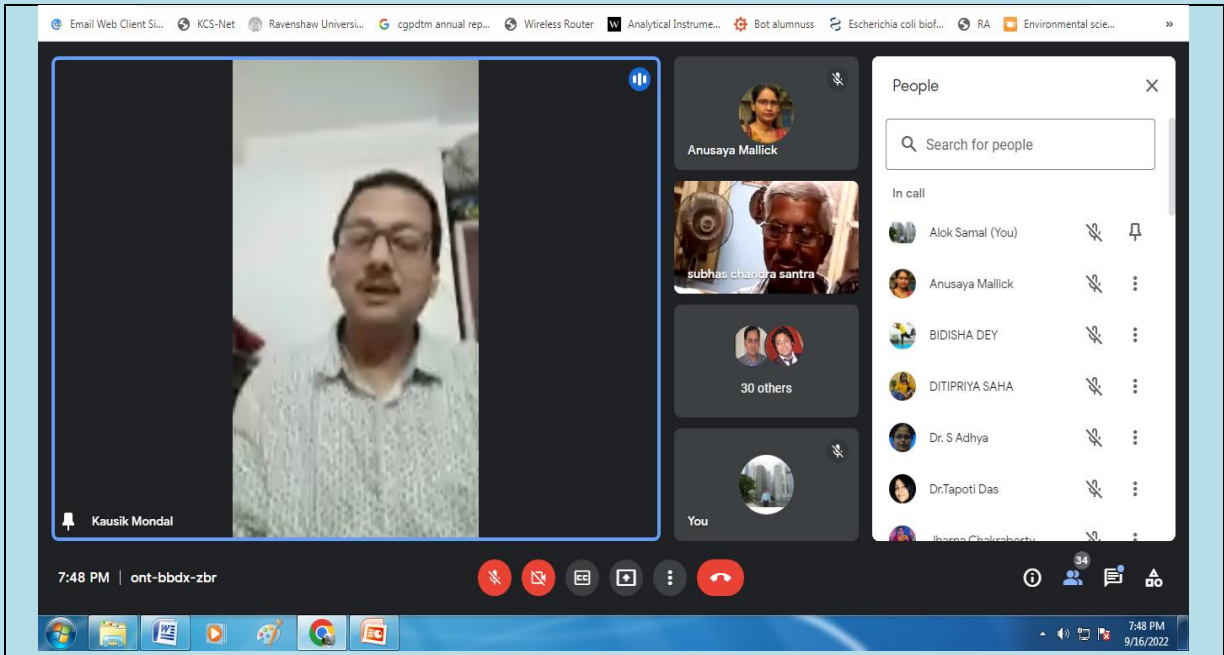
## Photo Gallery of the Plantation programme

### Awareness programme in University Campus



## Photo Gallery of the webinar







meet.google.com/ont-bbdx-zbr

9:466 unread - acsama@yah... | Inbox (7,010) - acsama@gmail... | (12) WhatsApp | Meet - ont-bbdx-zbr | Abstract and poster on ozone

SanDEEPA CHOWDHURY is presenting

ANUSAYA MALICK

21 others

You

People

Search for people

In call

- Alok Samal (You)
- 05. Apeksha Ahire
- Anusaya Mallick
- Arindam Ghosh
- BIDISHA DEY
- Dr. S Adhya
- Dr. Tanvi Das

8:44 PM | ont-bbdx-zbr

Windows taskbar: File Explorer, Microsoft Word, Chrome, etc.

meet.google.com/ont-bbdx-zbr

9:466 unread - acsama@yah... | Inbox (7,010) - acsama@gmail... | (12) WhatsApp | Meet - ont-bbdx-zbr | Abstract and poster on ozone

Grid of participants:

- Anusaya Mallick
- Subhankar Kumar Sarkar
- Kausik Mondal
- sourov banerjee
- SANDEEPA CHOWDHURY
- Arindam Ghosh
- Mrinmoyie Seth
- 14 others
- Roshan Jebin (Feedback link)

People

- puja karmakar
- Rabin Mandi
- Roshan Jebin
- SANDEEPA CHOWDHURY
- sourov banerjee Meeting host
- Subhankar Kumar Sarkar
- Sudipta Hansda
- Tanmay Acharjee

8:54 PM | ont-bbdx-zbr

Windows taskbar: File Explorer, Microsoft Word, Chrome, etc.