



# SPECIAL LECTURE ON

## INTELLECTUAL PROPERTY RIGHTS : CREATING AWARENESS ABOUT PATENT AND COPYRIGHTS



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PRINCIPAL,  
Dhruba Chand Halder College  
P.O.- D. Barasat, P.S.- Jaynagar  
South 24 Parganas, Pin- 743372



**Dr. Rupanwita Sarkar**

ASSISTANT PROFESSOR  
DEPARTMENT OF ZOOLOGY  
DHRUBA CHAND HALDER  
COLLEGE



**Date: 09.03.2021**

**Platform: Online**







*Special Lecture on*  
**INTELLECTUAL PROPERTY  
RIGHTS:**  
**Creating Awareness about  
Patent and Copyrights**

**Speaker**  
**Dr. Rupanwita Sarkar**

Assistant Professor  
Department Of Zoology  
Dhruba Chand Halder College

Date: 09/03/2021  
Tuesday, 11 am

Organised by: IPR Sub-Committee  
Dhruba Chand Halder College

*[Signature]*  
Dr. Rupanwita Sarkar  
Assistant Professor  
Department of Zoology  
Dhruba Chand Halder College

Google Meet Link:  
<https://meet.google.com/xmv-zgew-vzx>

# **Report on**

## **Intellectual Property Rights: Creating Awareness about Patent and Copyrights**

Date: 09.03.2021

Time: Tuesday, 11 am

Speaker: **Dr. Rupanwita sarkar**, Assistant Professor, Department of Zoology, Dhruba Chand Halder College.

Number of participant: 42

Meeting link: <https://meet.google.com/xmv-zgew-vzx>

**Brief details:** In this program our speaker Dr. Rupanwita Sarkar gave a brief introduction on Intellectual property. She explained that Intellectual property is an idea, a design, an invention, a manuscript etc. which can ultimately give rise to a useful product and application. Intellectual property refers to creation of mind that is inventions, industrial design for article, literary and artistic work symbol extra used in commerce. It can be used for protecting different aspect of an inventive worked for multiple protections. This is outlined in the article 27 of universal declaration of human rights.

Later, Dr. Rupanwita discussed two categories of intellectual property. These are industrial and copyright. Trademarks and patents are categorized as




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industrial intellectual property whereas artistic work and library works are categorized as copyright. Intellectual property rights are largely territorial rights except copyright which is global in nature.

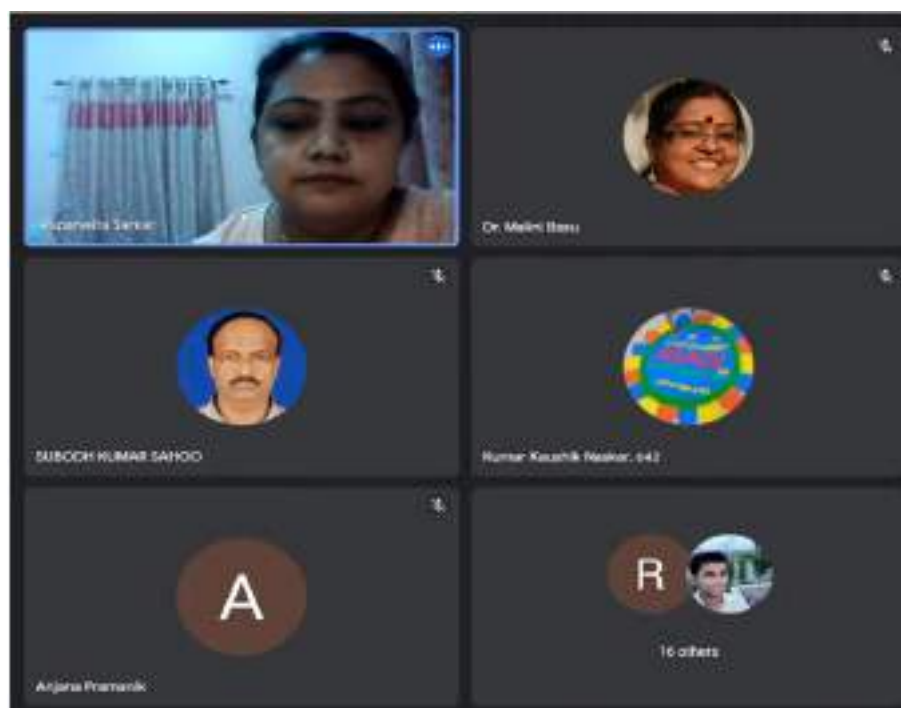
She explained various aspects patent, copyrights and trademarks etc. It was mentioned that patent is an exclusive right granted by a country to the owner of an invention to make use, manufacture and market the invention. The patent right is territorial in nature. It provides incentives to individuals by recognising their creativity and these incentives encourage innovation. To deal with the applications for patent one can visit patent office. Patent offices are located at Kolkata, Mumbai, Chennai and Delhi. Patent offices are under the department of industrial policy and promotion, ministry of commerce and industry. Patent information system and intellectual property training institute is located at Nagpur.


This talk includes brief discussion on industrial design and geographical indication. Geographical indications are intellectual property rights of goods that have a specific geographical origin and positive qualities or reputation or other characteristics that are essentially attributable to its geographical origin. She highlighted the registration process of geographical indication and protection act for better protection of geographical indications relating to goods.

The aim of this seminar was to give the basic idea of intellectual property rights and how this will help the development of new ideas for the betterment of the society.



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# **TOPIC: INTELLECTUAL PROPERTY RIGHTS: CREATING AWARENESS ABOUT PATENT AND COPYRIGHTS**

**2020-2021 (09.03.2021)**

## **STUDENT LIST**

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4	PRITI HALDER
5	SALMA KHATUN
6	ANNAPURNA NASKAR
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12	LABANI GAYEN
13	TUHINA SARDAR
14	SUSMITA SARDAR
15	MOUMITA HALDER
16	RAKHI NASKAR
17	JUKTA MONDAL
18	TANDRA HALDER
19	MOUSUMI ROY
20	MONISHA NASKAR
21	JHILIK DAS
22	ANJALI SARDAR

  
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29	NANDA HALDER
30	DIBAKAR MONDAL
31	RAHUL MONDAL
32	ABHISHEK GAYEN
33	BHASKAR SARDER
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## Report of Workshop

On

**“ Occupational Aspects of Plant Science and Exploitation of Biodiversity in Scientific Way”**

**Nature of activity:** Workshop

**Title of the Activity:** Occupational Aspects of Plant Science and Exploitation of Biodiversity in Scientific Way

**Date:** 26/01/2021

**Venue:** Department of Botany, Dhruba Chand Halder College

**Name of the Speakers:** 1. Professor Krishnendu Acharya, Professor, Department of Botany, University of Calcutta  
2. Dr. Anirban Ray, Sr. Scientist, West Bengal Biodiversity Board

**About The Event:** The programme started at 10.30 am with the introductory speech by Dr. Rupa Acharya, HOD, Department of Botany, DCH College about the speakers and importance of the programme. The first speaker was Prof. Krishnendu Acharya who explained about different occupational aspects of plant sciences. First of all he defined and explained about food security and present status of quality of vegetables. Through this line, he extended his lecture about the present –day agriculture method, its negative impact on food and health and ultimately reached to the biological and ecological significance of organic agriculture process. As agriculture is the main occupation of majority of our students, the lecture was concentrated on this aspect. The lecture was extended on how one could be self sufficient by employing shifting the conventional agriculture process to organic one. He described about a model of low-cost organic agriculture system developed by his team which is available for every interested farmer and supported by proper training and guidance which is adopted by many individual farmers and NGOs. As the audience were the young students of plant science and farmer background,

  
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Dr. RUPA ACHARYA  
Head of The Department  
Department of Botany  
DHRUBA CHAND HALDER COLLEGE  
Dakshin Barasat (W.B.)

the lecture was oriented on the occupational aspects of plant science i.e how they could be self Sustained though applying their bookish knowledge into the field level i.e. practicing most scientific way of agriculture. How they could develop small cooperative to conduct a group agribusiness, what is Polyhouse farming, Hydroponics, Terrace gardening, and how a graduate student could go for an individual or group business through these ventures. He also explained about spawn production and mushroom cultivation in relation with marketing strategy. He mentioned on low cost betel leaf cultivation, preservation of locally available wild fruits, medicinal plants etc.

The second speaker was Dr. Anirban Ray who explained about the Biodiversity of South 24 Parganas and importance of its restoration and proper utilization. He encouraged the students how to watch and read the nature to understand local biodiversity. He explained the importance of restoration of local , wild varieties of plant and animals. What is PBR and what is Its importance.

The programme ended up at 2.30 pm.

The programme was very informative and interactive with the students. **The total number of students participated in the workshop was 17.**



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**Dr. RUPA ACHARYA**  
Head of The Department  
Department of Botany  
DHURUBA CHAND HALDER COLLEGE  
Dakshin Barasat (W.T.)

**Workshop on Occupational Aspects of Plant Science and  
Exploitation of Biodiversity in Scientific Way (Date 26/01/2021)**



*Rupa Acharya*

**DR. RUPA ACHARYA**  
Head of The Department  
Department of Botany  
DHIRUBA CHAND HALDER COLLEGE  
Dakshin Barasat (W.B.)

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Signature Sheet

- 1) Pratham Halder.
- 2) Mitali Hazra.
- 3) Soumyajyoti Basak.
- 4) Suparna Dhal.
- 5) Riya Halder.
- 6) Rajina Sarda.
- 7) Saheli Gizi.
- 8) Soumyadeep Halder.
- 9) Akash Mondal.
- 10) Rajibul Paul.
- 11) Haider Ali Mallik.
- 12) Tananna Halder.
- 13) Rinki Das.
- 14) Monalisa Khatri.
- 15) Wasim Akram Molla.
- 16) Tarek Akter Mistry.
- 17) Sayam Shaikh.

  
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# SUMMARY REPORT ON

## One Day National Level Webinar on

### "Futuristic approach towards Construction of Sustainable

### Structures: Focusing on the Sundarbans"

Date: 16th July, 2021



Dhruba Chand Halder College  
Dakshin Barasat, South 24 Parganas, West Bengal



Jointly Present

ONE DAY NATIONAL LEVEL WEBINAR ON



National Institute of Disaster Management  
Ministry of Home Affairs, Govt. of India, Delhi

FUTURISTIC APPROACH TOWARDS CONSTRUCTION OF SUSTAINABLE STRUCTURES: FOCUSING ON THE SUNDERBANS

টেকসই কাঠামো নির্মাণের ভবিষ্যৎ পদ্ধতি: নজরে সুন্দরবন

**Chief Patrons**

**Coordinators**

**Technical Coordinator**

**Eminent Speakers**

**Register at: <https://training.nidm.gov.in>**

**Click Here to Join:**  
GMeet  
YouTube Live

**Date: 16<sup>th</sup> July, 2021** **Time: 1:30-3:30 P.M.**

Jointly organized by

Dhruba Chand Halder  
College, 24-Parganas  
(South), West Bengal

&

National Institute of Disaster Management (NIDM),

Ministry of Home Affairs, Government of India

"Futuristic approach towards Construction of Sustainable Structures: Focusing on the Sundarbans"

Principal  
Dhruba Chand Halder College  
P.O.-D. Barasat, P.S.-Jaynagar  
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Dr. Chintan Ghosh  
Professor & Head  
Infrastructure Division  
National Institute of Disaster Management  
Ministry of Home Affairs  
Government of India  
Block-29, Indraprastha, Delhi-110072

Date: 16<sup>th</sup> July, 2021

1. National Institute of Disaster Management (NIDM) in collaboration with Dhruba Chand Halder (DCH) College, West Bengal conducted a Webinar on "Futuristic approach towards Construction of Sustainable Structures: Focusing on the Sundarbans" on 16<sup>th</sup> July 2021.
2. The objectives of the Webinar were to:
  - Sensitize people about the importance of constructing various storm surge protection systems, such as dykes, bunds, levees in the Sunderbans area by enthusing with community and local self-help groups.
  - Understand the impact of Cyclones on the mangrove plantations and salination of arable lands caused by storm surge.
  - Estimate the economic losses and appropriate low-cost natural mitigation measures that would help in negating the losses so caused.
  - Encourage local adaptation to livelihood re-generation, including erosion control measures by long rooted Vetiver grasses in the Mangrove forest area.

3. Schedule of the Webinar

FUTURISTIC APPROACH TOWARDS CONSTRUCTION OF SUSTAINABLE STRUCTURES: FOCUSSED ON THE SUNDERBANS		
TIME	SPEAKER(S)	EVENT
1:30PM	Dr. Subhasree Thakur	Welcome Address
1:35PM	Dr. Satyabrata Sahoo	Inaugural Address (on behalf of DCH College)
1:50PM	Maj. Gen. Manoj Kumar Bindal, VSM	Inaugural Address (on behalf of NIDM)
2:00PM	Dr. Garima Aggrawal	Programme Introduction
2:10PM	Dr. Abhijit Mitra	Lecture 1: Role of Coastal Vegetation in Controlling Embankment Breaking Due to Waves and Tides
2:40PM	--	Q&A Session
2:50PM	Sri Kamal Hossain Akhand	Lecture 2: Cyclone Yaas and its Disastrous Effect on Coastal Area Of West Bengal
3:10PM	--	Q&A Session
3:20PM	Md Abdul Gani	Lecture 3: Storm Surges During Oceanic Cyclone Yaas: Possible Adaptive Mitigations and Recovery Approaches
3:50PM	--	Q&A Session
4:00PM	Sri Manik Mandal & Sri Saurav Mandal	Lecture 4: Experience Sharing: Sunderban Rejuvenation by Vetiver Grass & other Local measures
4:30PM	--	Q&A Session
4:40PM	Dr. Chandan Ghosh	Lecture 5: Structural and Non-structural Restoration Measures in Sunderban Area Against Storm Surges
5:10PM	--	Q&A Session
5:20PM	Smt. Sudakshina Sengupta	Vote of Thanks


  
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3. The program was initiated by Dr Subhasree Thakur, Head of the Department of Zoology, who welcomed the dignitaries and participants and gave an overview of the collaborative webinar.
4. Dr. Satyabrata Sahoo, Principal, DCH College delivered the inaugural address on behalf of their college and highlighted the fact that one of the reasons for increasing frequency of these severe cyclones and storm surges are due to change in climate over the years. He insisted that the mangroves are depleting in the Sunderban region due to over exploitation of the resources, changes in habitat patterns, increase in wildlife trafficking and increase in pollution etc. There is a need to develop an approach towards construction of sustainable structures in the Sundarban region. He also highlighted the need to grow healthy mangroves to continue human well being.



*Photo1. Inaugural Address on behalf of DCH College by Dr. Satyabrata Sahoo*


  
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5. Maj. Gen Manoj Kumar Bindal, Executive Director, NIDM delivered the Inaugural Address for the Webinar. He presented a brief analysis about the ecosystem and challenges of the Sundarban region. He emphasized that Sundarban region is one of the richest resource-bases having large mangroves, numerous species, dolphins, Royal Bengal Tigers and so on. The region has been recognised as World heritage by UNESCO. Resilience in Sunderbans has been undermined due to increasing frequency of cyclones and storm surge which is further leading to the problems of floods, soil erosion and loss of biodiversity. He emphasised on the fact that most of the people in Sunderbans are living in poverty as they are engaged in non-sustainable livelihood options. He reiterated the need to practice natural solutions for building sustainable structures and livelihood options in the Sundarban region.



*Photo2. Inaugural Address for the Webinar by Maj .Gen Manoj Kumar Bindal*

  
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- The figure displays a map of the study area, divided into the Western Sector and Central Sector. A table provides the coordinates for various study sites. The map also includes a legend for different types of sampling locations (e.g., surface water, sediment, biota) and a scale bar.

Study site	Longitude (E)	Latitude (N)
Harbour	00°44'22.00"E	04°15'15.00"N
Site 1	00°44'22.00"E	04°15'15.00"N
Site 2	00°44'22.00"E	04°15'15.00"N
Site 3	00°44'22.00"E	04°15'15.00"N
Site 4	00°44'22.00"E	04°15'15.00"N
Site 5	00°44'22.00"E	04°15'15.00"N
Site 6	00°44'22.00"E	04°15'15.00"N
Site 7	00°44'22.00"E	04°15'15.00"N
Site 8	00°44'22.00"E	04°15'15.00"N
Site 9	00°44'22.00"E	04°15'15.00"N
Site 10	00°44'22.00"E	04°15'15.00"N
Site 11	00°44'22.00"E	04°15'15.00"N
Site 12	00°44'22.00"E	04°15'15.00"N
Site 13	00°44'22.00"E	04°15'15.00"N
Site 14	00°44'22.00"E	04°15'15.00"N
Site 15	00°44'22.00"E	04°15'15.00"N
Site 16	00°44'22.00"E	04°15'15.00"N
Site 17	00°44'22.00"E	04°15'15.00"N
Site 18	00°44'22.00"E	04°15'15.00"N
Site 19	00°44'22.00"E	04°15'15.00"N
Site 20	00°44'22.00"E	04°15'15.00"N

  
Principal

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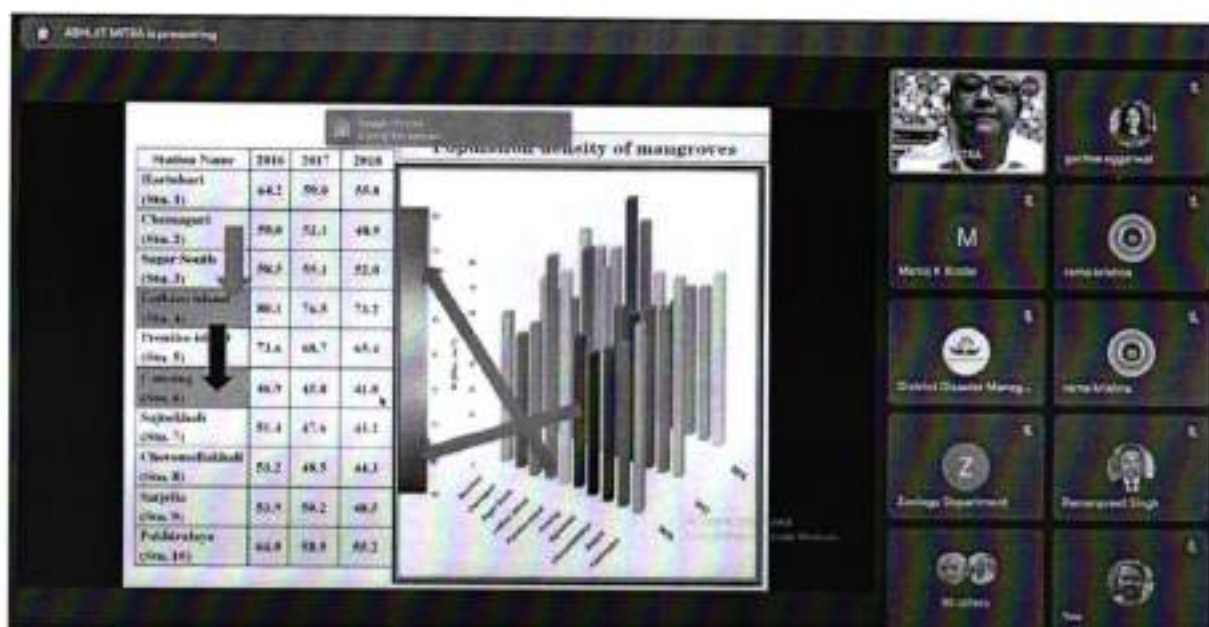


Photo5. Presentation on "Role of Coastal Vegetation in Controlling Embankment Breaking due to Waves and Tides" by Dr. Abhijeet Mitra

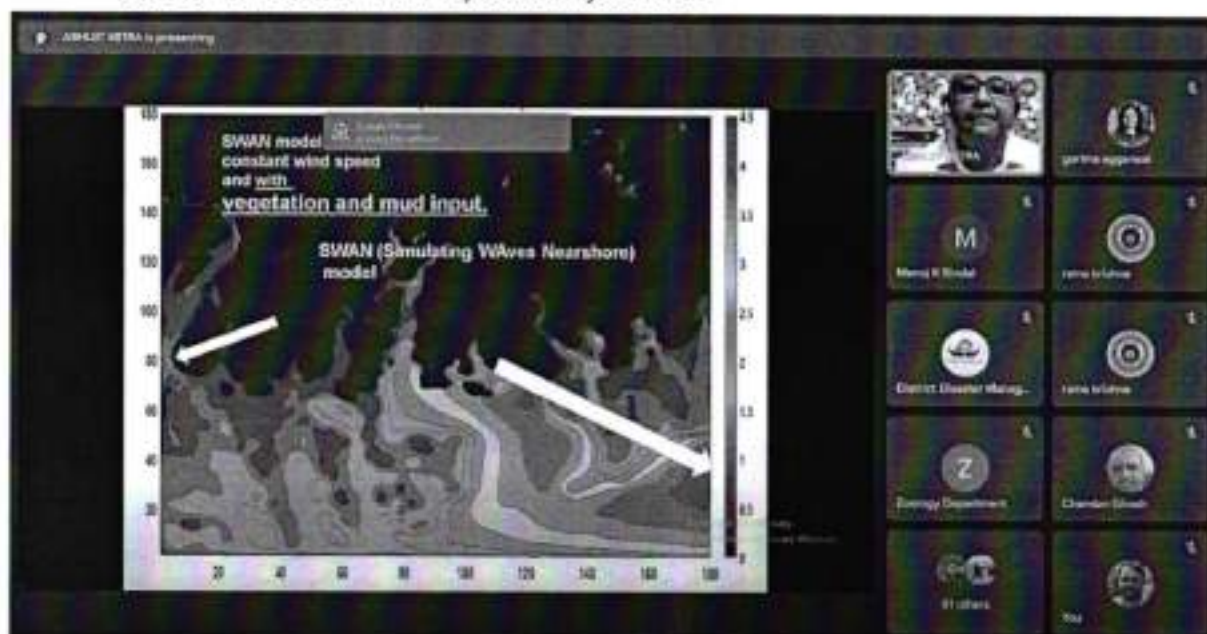



Photo6. Presentation on "Role of Coastal Vegetation in Controlling Embankment Breaking due to Waves and Tides" by Dr. Abhijeet Mitra

8. Mr. Kamal Hossain Akhand, Teacher, Department of Geography, DCH College presented on impacts and destruction caused by the YAAS cyclone. He presented a case study of Ghoramara island, which is submerging and shrinking in size due to erosion and rise in sea levels. He highlighted that damages caused to the houses, vegetation (trees were uprooted), saline water logging, agricultural and livestock, water and food crises after storm surge, how plastic waste such as water bottle, pouches, polythene bags were disposed in the Sundarban

  
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region which cause land pollution. He spoke on the policy on disaster mitigation which include establishment of cyclone shelter, installation of hand pumps, forecasting, rescue operation, afforestation, river embankments, restriction in construction in high tide region and practice salt tolerant cultivation etc. He insisted on the importance of community participation in building community resilience.

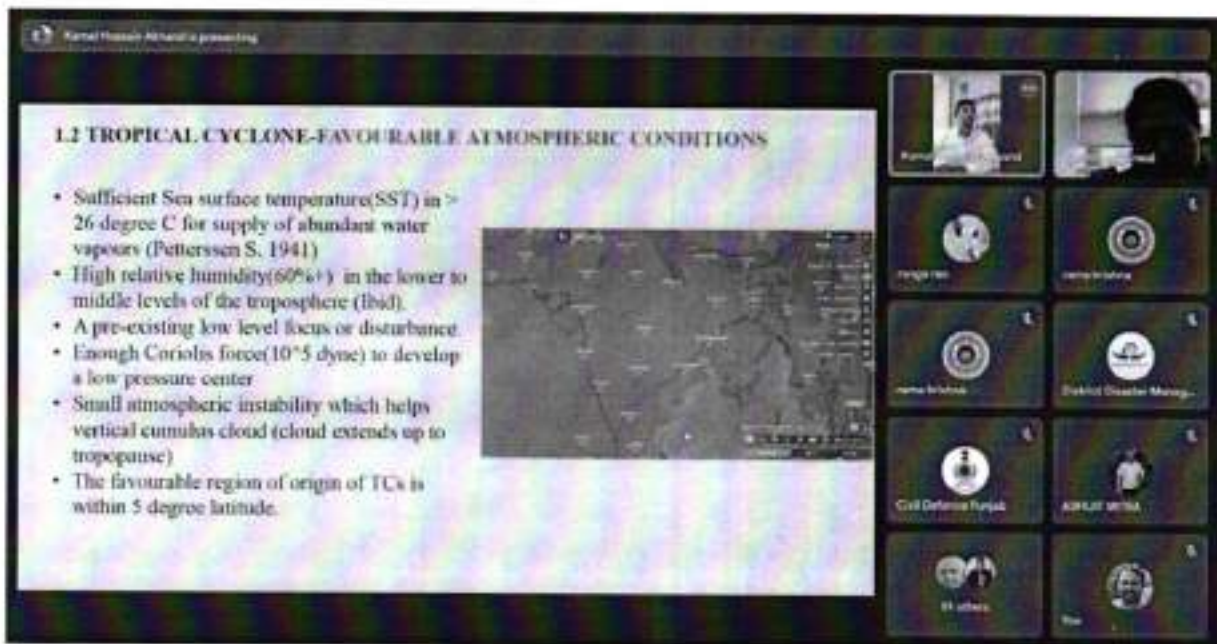


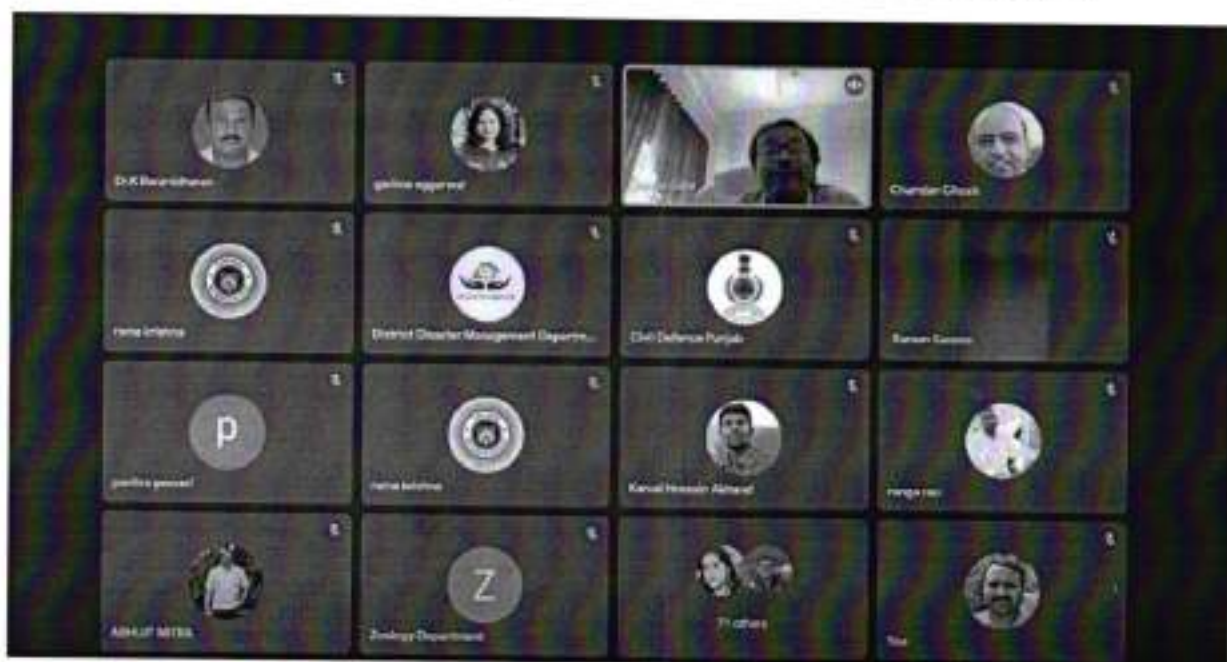
Photo7. Presentation on 'Cyclone Yaas and its Disastrous Effect on Coastal Area of West Bengal' by Sri Kamal Hassain Akhand



Photo8. Presentation on 'Cyclone Yaas and its Disastrous Effect on Coastal Area of West Bengal' by Sri Kamal Hassain Akhand

  
 Dhruba Chatterjee  
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9. Md. Abdul Gani, West Bengal Civil Services (1991 batch) made a presentation on Storm surges during Oceanic Cyclone Yaas: Possible adaptive mitigations and recovery approaches. He spoke about the origin of cyclones, impacts of cyclones - Alia, Yaas and Amphan during the land fall combined with high tide, extreme wind speed, breaches the embankments and destroy secology of the Sundarbans. He presented the measures of mitigating cyclone impacts by construction of embankments away from the tidal areas and plantation of vetiver grass on river side and sea side. He reiterated that there is a need to bring behavior change in the local people through education, skill development – vocational courses and social cohesion, which will lead to promoting sustainable livelihood practices. He highlighted that people need to participate and be involved in local level initiatives.



*Photo 9. Presentation on 'Storm surges during Oceanic Cyclone Yaas: Possible adaptive mitigations and recovery approaches' by Md. Abdul Gani*

  
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10. Mr. Manik Mandal, Secretary of Gram Trust, West Bengal, showcased the use of vetiver grass for mitigating the impacts of cyclones and maintaining the ecology of the Sundarbans. He also presented on the use of local solutions in promoting sustainable livelihood options. He has applied Vetiver grass in the Sunderban where it survived along with traditional mangrove, which is a very promising aspect of checking erosion of the coastal area. His works are mainly with the grass root level farmers, starting from nursery making, tilling, segregating and selling in the open market. His exemplary dedication and working principle along with the poor people of the village would definitely show a light for the sustainable Sundarban islanders.



*Photo10. Presentation on 'Experience Sharing: Sunderban Rejuvenation by Vetiver Grass & other Local measures' by Sri Manik Mandal & Sri Saurav Mandal*


  
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Photo11. Presentation on 'Experience Sharing: Sunderban Rejuvenation by Vetiver Grass & other Local measures 'by Sri Manik Mandal & Sri Saurav Mandal

11. Prof. Chandan Ghosh, Head, Resilient Infrastructure, NIDM presented on structural and non-structural measures in Sundarban Region. He shared the use of vetiver grass in landslide treatment at Coorg and also talked about the use of vetiver grass in more than 130 nations worldwide. He spoke about the importance of dams in holding storm water with the example of Germany and the need of the dams in the vulnerable areas of Sundarban. He highlighted use of soft measures to live with the flood affected areas with preferably local and affordable resilient measures - such as flood routing option, making flood walls, use of smart phone for forecasting, use of geo-synthesis membrane for sweet water pond, replacing bricks by vetiver grass near river, creating fresh water reservoir, use of engineering measures like dikes, flood walls, levee, berms, saline embankments, protection barriers. He also focused on nature based solutions like Bio-shielding effect and quick solutions like use of sandbags. His presentation gives us a perspective for enhancement of local resources and easily adaptable eco-friendly solutions.


  
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Photo12. Presentation on 'Structural and Non-structural Restoration Measures in Sunderban Area against Storm Surges' by Dr. Chandan Ghosh

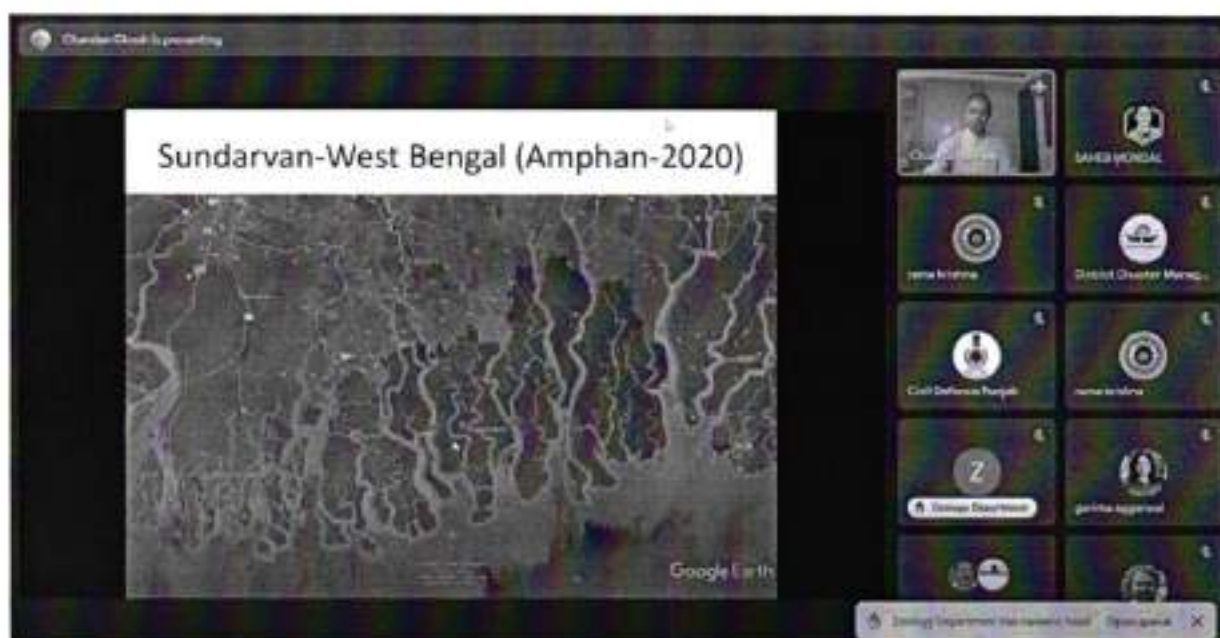



Photo13. Presentation on 'Structural and Non-structural Restoration Measures in Sunderban Area against Storm Surges' by Dr. Chandan Ghosh

  
 Dr. Chandan Ghosh  
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List of the participants who attended and filled up feedback form after the workshop (As per the training portal)		
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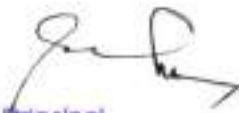
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