



DHRUBA CHAND HALDER COLLEGE

(FORMERLY DAKSHIN BARASAT COLLEGE)

ESTD. – 1965

A NAAC Accredited Degree College Affiliated to University of Calcutta

P. O. Dakshin Barasat • Dist. South 24-Parganas • West Bengal • Pin 743372

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Ref. No. DCHC/700/05/21

02/07/21
Date20

NOTICE

All are hereby informed that a One- day National Level Webinar on, ' **Futuristic Approach Towards Construction of Sustainable Structures: Focussing on The Sundarbans** ' will be conducted by the Department of Zoology & IQAC Dhruba Chand Halder College in collaboration with National Institute of Disaster Management (NIDM), GoI.

Date of Webinar: **16th July, 2021**

Name of Eminent Speakers: **Dr. Abhijit Mitra**, Department of Marine Science, Calcutta University

Dr. Chandan Ghosh, Head of the Dept, NIDM, GoI.

Mr. Md. Abdul Gani, Former Special Secretary, Sundarban Affairs Dept., GoWB

Mr. Kamal Hossain Akhand, Faculty, Dept. of Geography, DCH College

Sri Manik Mandal, Secretary, Gram Trust, West Bengal

Chief Patrons: **Maj. Gen. Manoj Kumar Bindal**, Executive Director, NIDM, GoI

Dr. Satyabrata Sahoo, Principal, Dhruba Chand Halder College

Coordinator IQAC: **Prof. Sudakshina Sengupta**, HOD of Dept. of English, DCH College

Technical Coordinator: **Mr. Rasidul Karim**, HOD of Dept. of Computer Science, DCH College

Convenors: **Dr. Garima Aggarwal**, Sr. Consultant, NIDM and

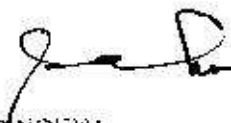
Dr. Subhasree Thakur, HOD of Dept. of Zoology, DCH College

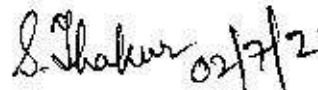
G Meet: <https://meet.google.com/xfh-pmcq-ynz>

You Tube Live; <https://youtu.be/oAbFZkmDNM0>

All are invited to register and join the programme.

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


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Dakshin Barasat
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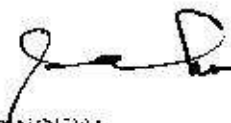
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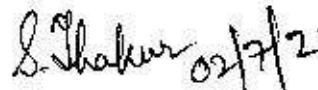
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SUMMARY REPORT ON

One Day National Level Webinar on “Futuristic approach towards Construction of Sustainable Structures: Focusing on the Sundarbans”

Date: 16th July, 2021



Dhruva 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



Maj. Gen. Manoj Kumar Bindal
Executive Director, NIDM, Govt.



Dr. Satyabrata Sahon
Principal, DCH College

Coordinator, IQAC



Smt. Sudakshina Sen Gupta
Head of the Dept. of English,
DCH College

Technical Coordinator



Sri Rashidul Karim
Head of the Dept. of
Computer Science,
DCH College

Convenors



Dr. Garima Aggarwal
Sr. Consultant, NIDM



Dr. Subhasree Thakur
Head of the Dept. of Zoology,
DCH College

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

Click Here to Join:
GMeet:
YouTube Live:

Date: 16th July, 2021

Time: 1:30-5:30 P.M.



Dr. Abhijit Mitra
Department of Marine Science,
University of Calcutta, WB



Sri Kamal Hossain Akbar
Faculty, Dept. of Geography,
UCH College

Eminent Speakers



Dr. Chandan Ghosh
Head of the Dept., NIDM,
Govt.



Sr. Manik Mondal
Secretary, Gram Trust, WB
(with Sri Saugan Mondal)



Mr. Abdul Gani
Former Special Secretary, Sundarban
Affairs Dept., Govt. of India

Jointly organised by

Dhruva Chand Halder College
24, Parganas, West Bengal

&

National Institute of Disaster Management (NIDM),
Ministry of Home Affairs, Government of India



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Resilient India - Disaster Free India

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Dist.-South 24 Parganas

Date: 16th 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 Sunderbans" on 16th 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 : FOCUSING 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

4. The program was initiated by Dr Subhashree Thakur, Head of the Department, Zoology, who welcomed the dignitaries and participants and gave an overview of the collaborative webinar.
5. 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 the 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 wellbeing.



Photos 1 Inaugural Address on behalf of DCH College by Dr. Satyabrata Sahoo


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6. 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.



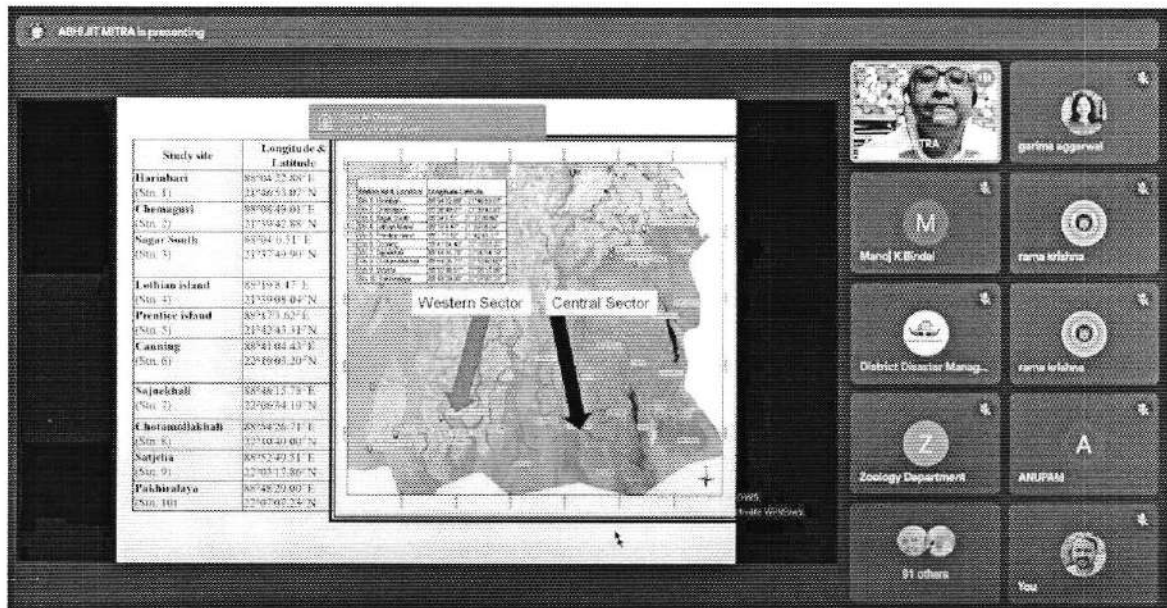
Photos 2 Inaugural Address for the Webinar by Maj. Gen Manoj Kumar Bindal

7. Dr. Garima Aggarwal, Senior Consultant, Resilient Infrastructure, NIDM while introducing the topic of webinar's program, restated that the cyclones 'Amphan' in 2020 and 'Yaas' 2021 have not only affected the lives of the millions of the people in the Sundarban region but also badly destructed that houses, roads, social amenities, earthen dams and embankments along with river-banks. The situation has adversely impacted the livelihood activities in the region. The decline of mangroves in the region has further encouraged soil erosion and salinity issues. Dr. Aggarwal indicated that there is a need to strengthen community and infrastructure resilience against the cyclones through restoration of affected areas by adoption of various structural and non-structural measures with special focus towards use of local solutions.




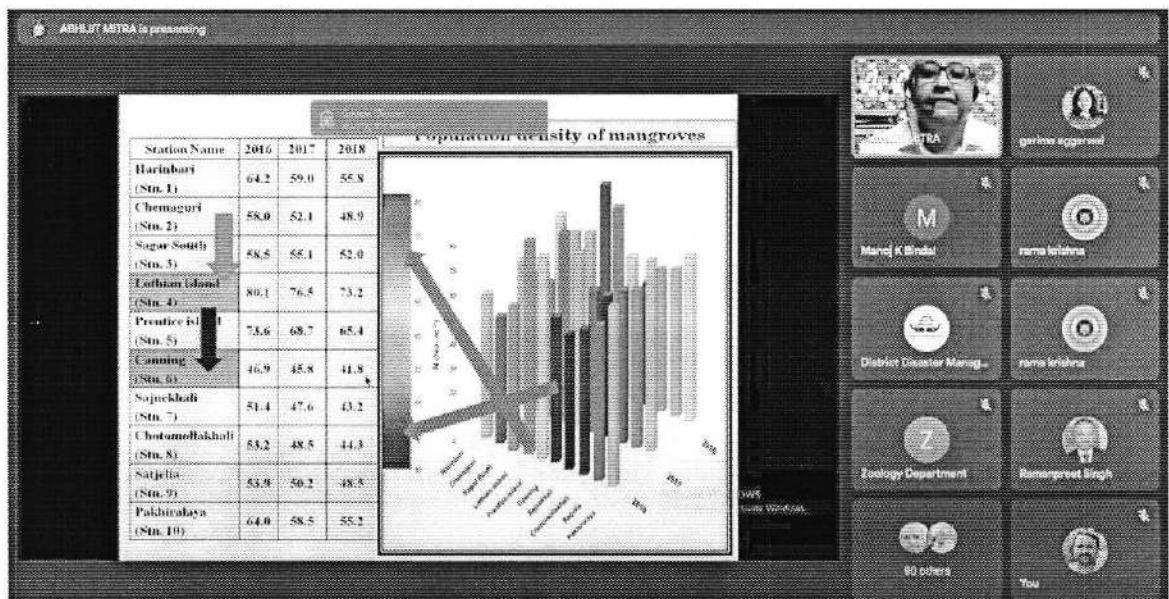
Photos 3 Introduction of the topics for the webinar program by Dr. Garima Aggarwal

8. Dr. Abhijit Mitra, former Head of the Department of Marine Science, University of Calcutta during his presentation on "Role of Coastal Vegetation in Controlling Embankment Breaking due to Waves and Tides" highlighted that depletion of mangroves has resulted increase in intensity and frequency of the salinity particularly in the central Sundarbans Region. He presented many local solutions such as growing low saline plantations and site-specific plantations near embankments. He also presented the importance of vegetation during tidal waves which increases with decreasing densities of mangrove plantation. He highlighted the use of technology and artificial intelligence in oceanography and disaster management.

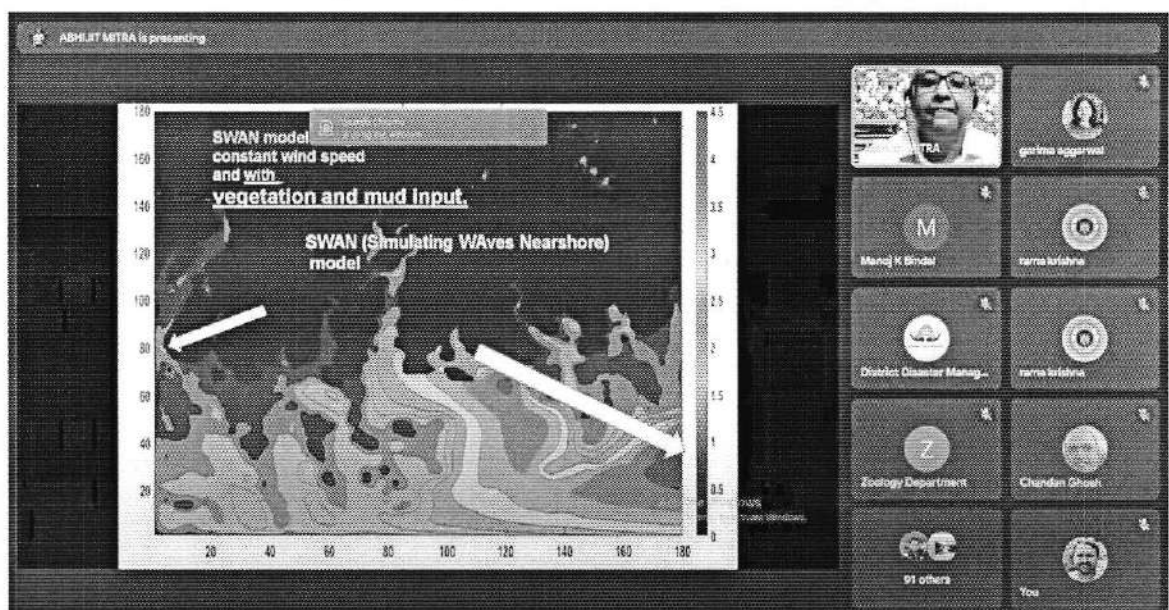


Photos 4 Presentation on "Role of Coastal Vegetation in Controlling Embankment Breaking due to Waves and Tides" by Dr. Abhijit Mitra


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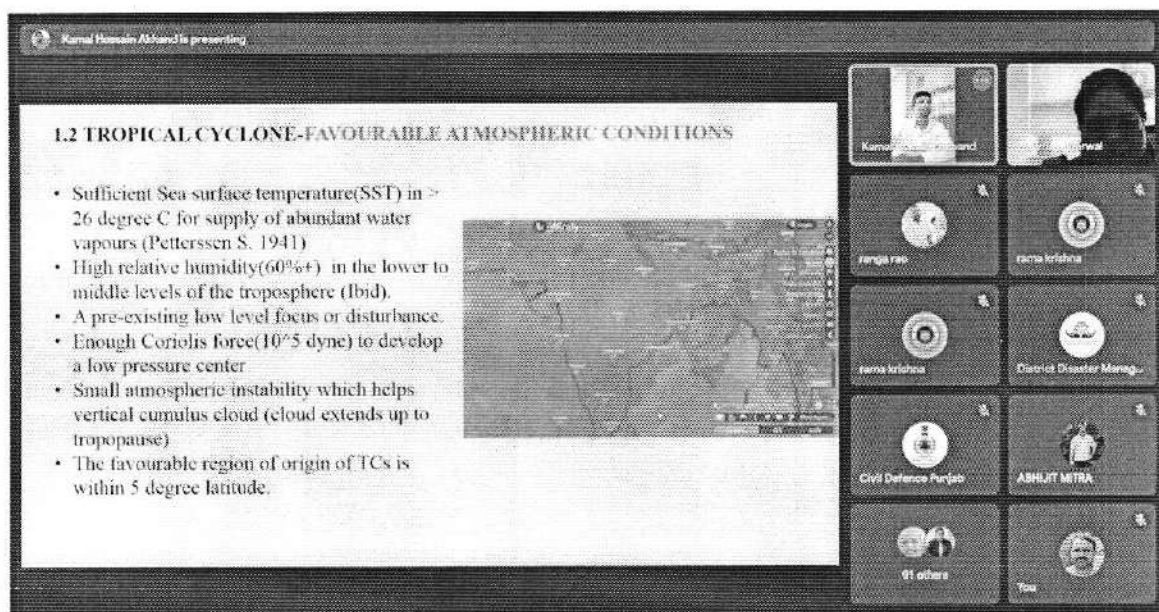
Photos 5 Presentation on "Role of Coastal Vegetation in Controlling Embankment Breaking due to Waves and Tides" by Dr. Abhijeet Mitra



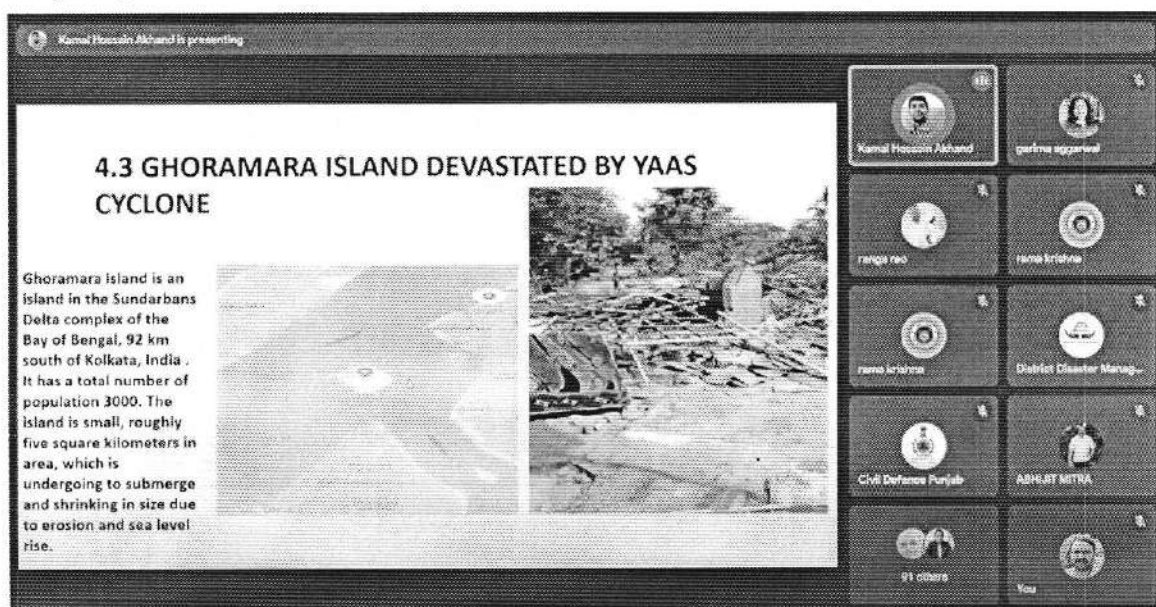
Photos 6 Presentation on "Role of Coastal Vegetation in Controlling Embankment Breaking due to Waves and Tides" by Dr. Abhijit Mitra

9. 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

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.

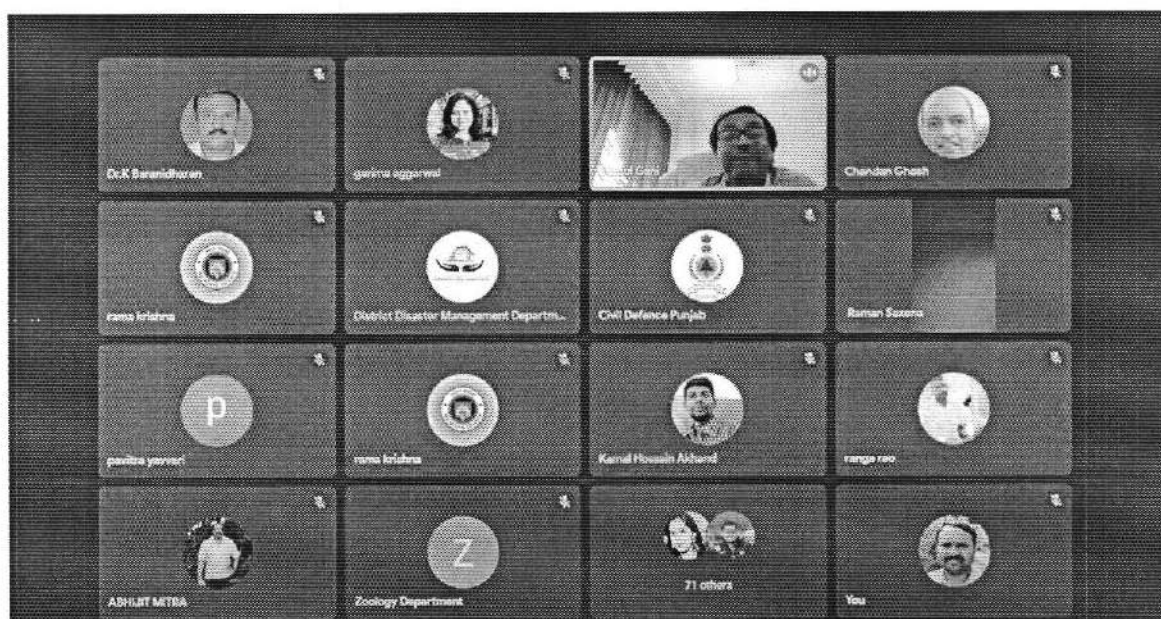


Photos 7 Presentation on ' Cyclone Yaas and its Disastrous Effect on Coastal Area of West Bengal' by Sri Kamal Hossain Akhand



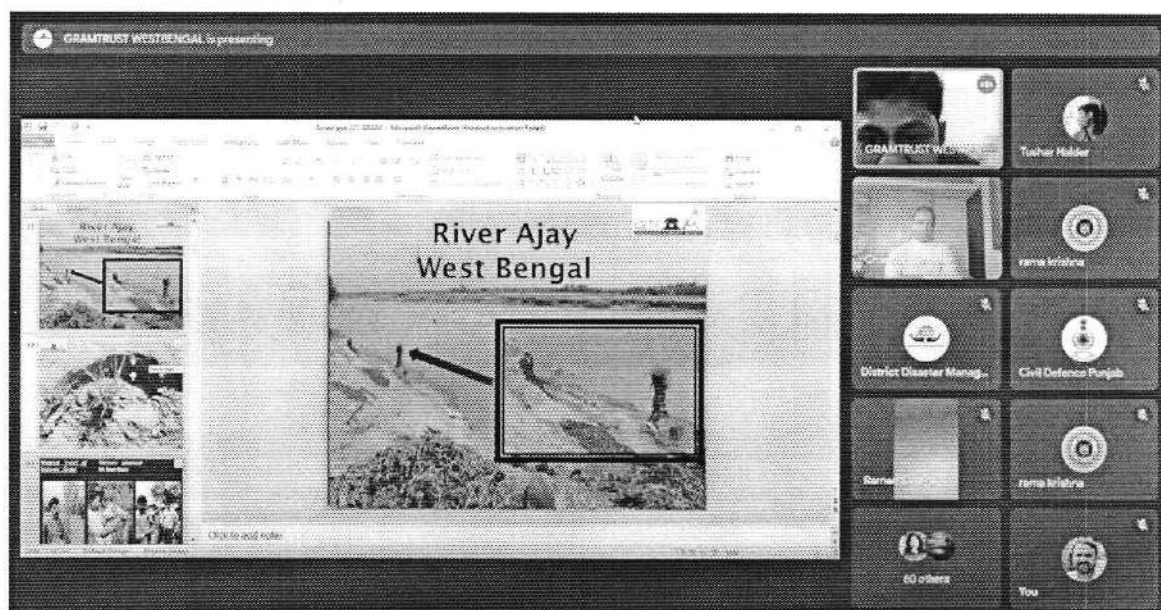
Photos 8 Presentation on ' Cyclone Yaas and its Disastrous Effect on Coastal Area of West Bengal' by Sri Kamal Hossain Akhand

10. 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 destroys ecology of the Sundarbans. He presented the measures of mitigating cyclone impacts by construction 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.

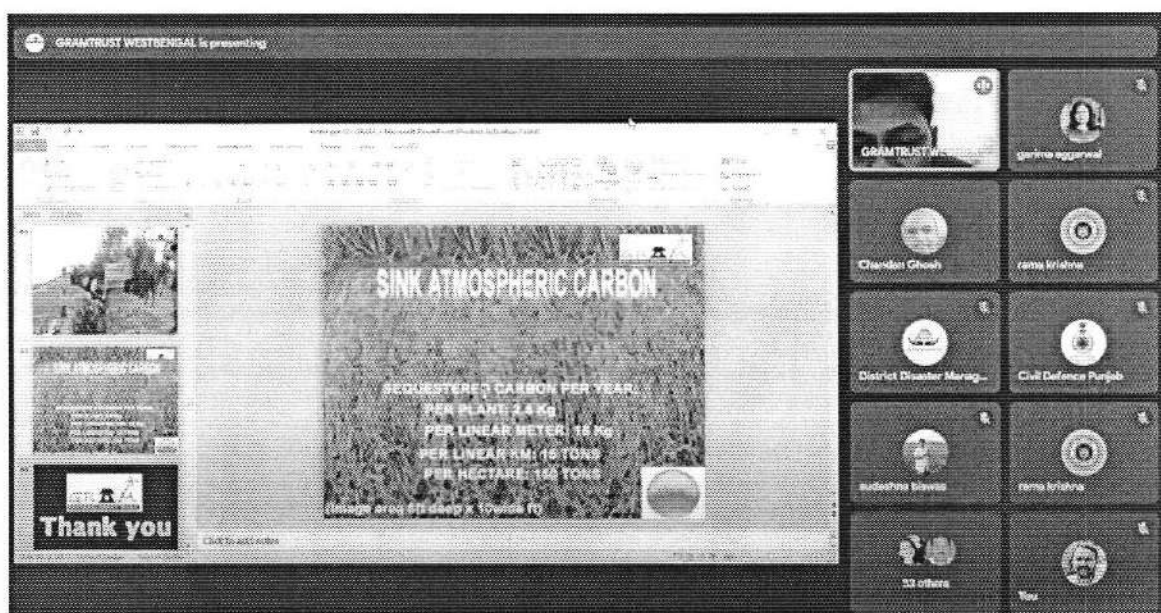


Photos 9 Presentation on 'Storm surges during Oceanic Cyclone Yaas : Possible adaptive mitigations and recovery approaches' by Md. Abdul Gani

11. 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.

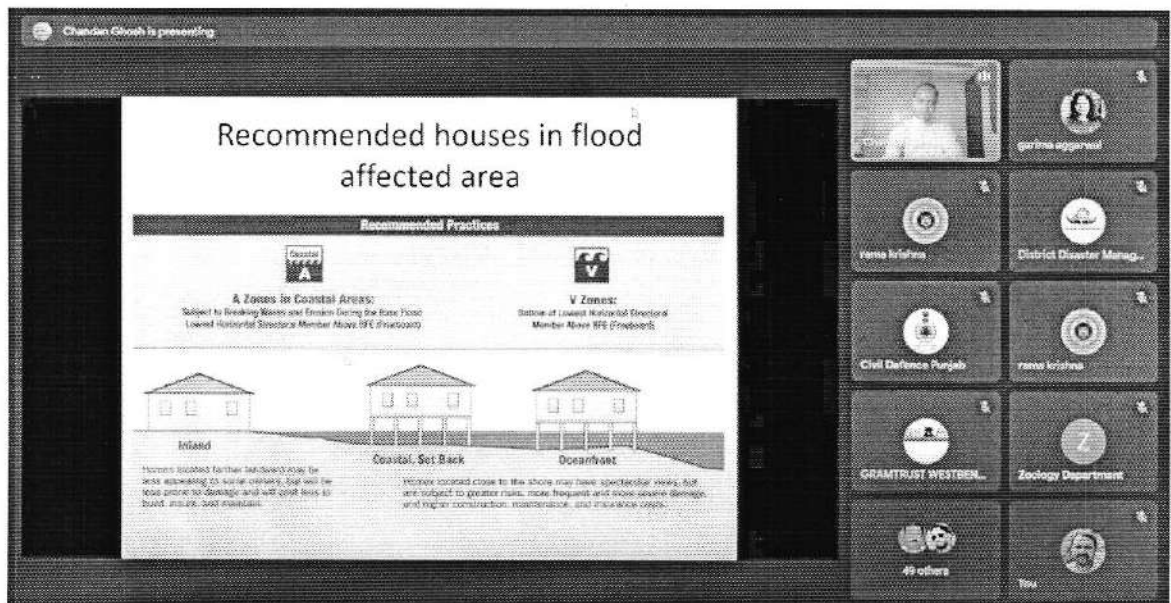


Photos 10 Presentation on ' Experience Sharing: Sunderban Rejuvenation by Vetiver Grass & other Local measures' by Sri Manik Mandal & Sri Saurav Mandal

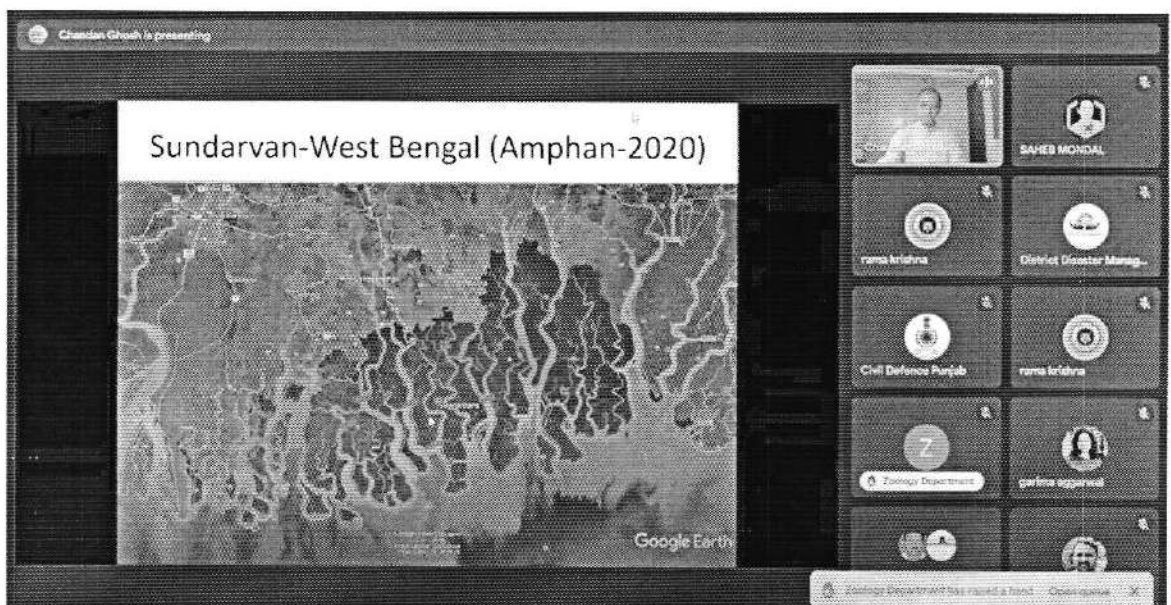


Photos 11 Presentation on ' Experience Sharing: Sunderban Rejuvenation by Vetiver Grass & other Local measures' by Sri Manik Mandal & Sri Saurav Mandal

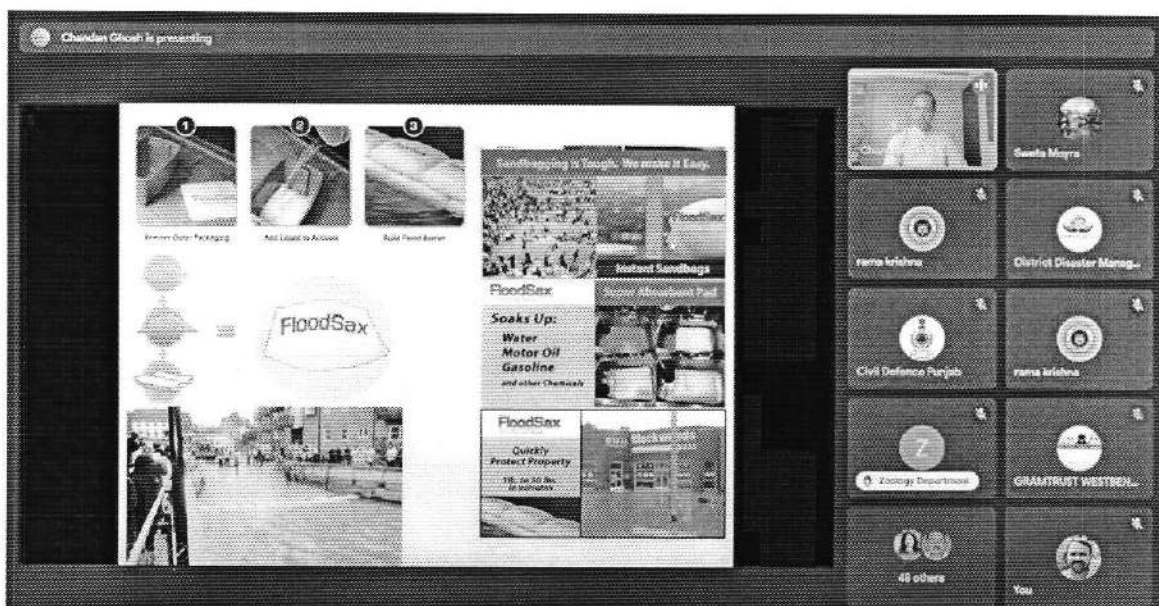
12. Prof. Chandan Ghosh, Head, Resilient Infrastructure, NIDM presented on structural and non-structural measures in Sundarban Region. He shared the use of vetiver grass in landslide treatment at Coorg and also talked about the use of vetiver grass in more than 130 nations worldwide. He spoke about the importance of dams in holding stormwater 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.



Photos 12 Presentation on ' Structural and Non-structural Restoration Measures in Sunderban Area against Storm Surges' by Dr. Chandan Ghosh



Photos 13 Presentation on ' Structural and Non-structural Restoration Measures in Sunderban Area against Storm Surges' by Dr. Chandan Ghosh



Photos 14 Presentation on 'Structural and Non-structural Restoration Measures in Sunderban Area against Storm Surges' by Dr. Chandan Ghosh


13. Key Takeaway:

- Depletion of mangroves has resulted in an increase in intensity and frequency of the salinity particularly in the central Sundarbans region.
- Mitigation measures are potentially more efficient and are long-term sustainable solutions for creating safer communities and reducing loss of lives and properties. There is a need to reduce risk and increase capacities of the Sundarban region.
- There is a need to discourage development from river corridors, adopt low-cost local solutions like use of Vetiver grass for river bank protection, which can trap sediments and reduce soil erosion.
- We need to learn to live in flood affected areas with affordable resilient measures. The use of vetiver grass does not mitigate the impacts of cyclones in Sundarban Region but also provides a livelihood opportunity in the local region.
- There is a need to ensure sustainable livelihood solutions for the villagers of Sunderbans, generating employment through other livelihood options which may require skill development activities.
- 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. Community people need to participate and be involved in local level initiatives.

14. The YouTube link of the Webinar is mentioned below -

<https://www.youtube.com/watch?v=oAbFZkmDNM0&t=2654s>


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