



SurTech

# Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex

(Formerly Known as Dr. Sudhir Chandra Sur Degree Engineering College)

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## Report of Seminar session on Sustainable Ground Improvement Techniques by Adopting Ecofriendly Natural Geotextiles with Some Case Studies

Organized by

Department of Civil Engineering of Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex

**Title:** Seminar session on “Sustainable Ground Improvement Techniques by Adopting Ecofriendly Natural Geotextiles with Some Case Studies”

**Speaker:** Mr. Pradip Kr. Choudhury, FIE

**About the Speaker:** Principal Scientist/Technologist, IJIRA & Former Technical Advisor, National Jute Board, Ministry of Textiles, Govt. of India, Kolkata

**Date and Time:** 13/09/2024, 2.30 PM Onwards

**Venue:** Room 122

**Number of Participants:** 45

**Objective:** The objective of this seminar was to educate and raise awareness among participants about sustainable ground improvement techniques using eco-friendly natural geotextiles. With the growing concern for environmental sustainability in civil engineering, the seminar aimed to present practical solutions through case studies, highlighting the benefits of natural materials such as jute in ground reinforcement and stabilization projects.

The seminar was held on 13th September 2024 at 2:30 PM in Room 122, with 45 participants in attendance. The speaker, Mr. Pradip Kr. Choudhury, a Fellow of the Institution of Engineers (FIE), is a highly experienced principal scientist and technologist at IJIRA. He also served as a former technical advisor for the National Jute Board under the Ministry of Textiles, Government of India. Mr. Choudhury's extensive knowledge of natural geotextiles made him an ideal expert to lead the session.

Mr. Choudhury focused on sustainable ground improvement techniques, emphasizing the role of eco-friendly geotextiles, particularly jute, in modern civil engineering. He provided an overview of natural geotextiles, their advantages over synthetic materials, and their applications in slope stabilization, erosion control, and soil reinforcement. The session was supplemented with case studies showcasing real-life projects where natural geotextiles were successfully utilized. These case studies offered practical insights into how these materials help reduce environmental impacts while maintaining structural integrity in various engineering applications.



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**Outcome:** The seminar successfully enhanced the participants' understanding of sustainable ground improvement methods using eco-friendly natural geotextiles. The participants gained valuable insights into the technical benefits of using natural materials like jute in civil engineering projects. They were made aware of the growing importance of adopting sustainable practices in the construction industry to mitigate environmental degradation. The session also provided participants with knowledge of real-life applications of natural geotextiles, which can be incorporated into their future projects

Few glimpses of the seminar-



**Seminar session on “Sustainable Ground Improvement Techniques by Adopting Ecofriendly Natural Geotextiles with Some Case Studies” on 13/09/2024**



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