

Overview

It has been observed that quite often Highway pavements constructed over weak foundations/sub soil/ fill material conditions miserably fail due to settlement and shear failure under heavy structural loads. In such situations, soil needs to be improved for overall safety and stability of Highway. Different techniques of ground improvement are used to modify and achieve the different geotechnical characteristics i.e. Increase in Bearing capacity; Increase in shear strength; Reduction in total and differential settlements; decrease in liquefaction potential of soil, reduction of swelling and cracking of soils; Improvement in drainage etc. Choice of a ground improvement technique depend on in situ geotechnical characteristics of sub soil, fill material; Drainage conditions and most importantly, the cost and time available to complete the project. This webinar focusses on different types of Ground improvement techniques viz. Stone columns; Prefabricated Vertical Drains, vacuum consolidation; and TAM Grouting. It also covers ground stabilization with soil nailing and Reinforced Earth Wall techniques.

Registration

Registration is free but limited to 500 participants only. Visit <https://forms.gle/nRy4wGov7EcVvbDt5> to fill up the form for registration. You may also get the link for this form by scanning the adjacent QR code.



In case of any technical difficulty, the details for registration can be send to gtwebinar@gmail.com for completing the registration. Certificate of Participation will be issued to all the attendees.

INTERNATIONAL WEBINAR

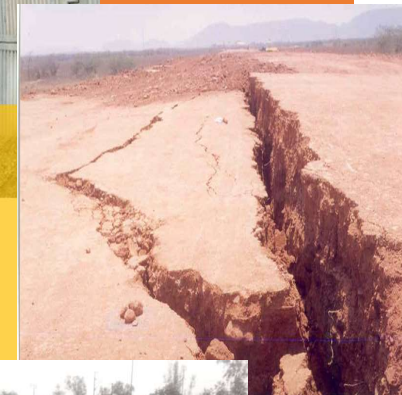
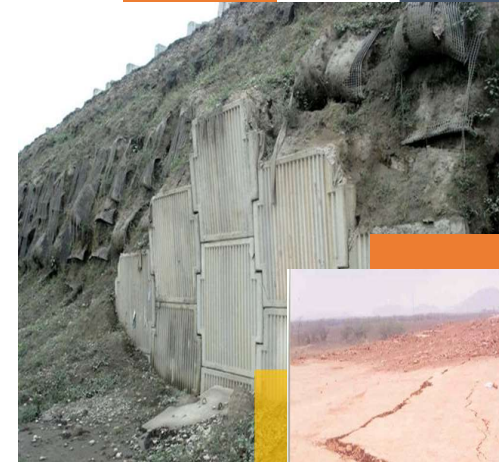
Ground Improvement Techniques for Highway Construction

MAY 29 – 30, 2020
10.00 -14.00 (IST)



Organized by
Geotechnical Engineering Division
CSIR-Central Road Research Institute
New Delhi, India

Supporters



CONTACT DETAILS

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Lecture Schedule

29th
May
2020

Time (IST)	SESSION 1 <i>Panelists</i>
10.00-10.05	Welcome address - Prof. Satish Chandra, Director, CSIR-CRRI
10.05-10.10	Introduction - Shri. U. K. Guru Vittal, Chief Scientist, CSIR-CRRI
10.10-10.55	Road/Rail Underpass Construction by Box Jacking with Soil Nailing - Dr. Kanwar Singh, Senior Principal Scientist, CSIR-CRRI
10.55-11.05	Panel discussion & Q&A
11.05-11.50	Construction and monitoring of PVD installed high embankment on soft sub soil - Dr. A.K. Sinha, Principal Scientist, CSIR-CRRI
11.50-12.00	Panel discussion & Q&A
12.00-12.45	Vacuum consolidation: Design and case studies - Er. Jerome Racinais, Engineering Director, Menard, Nozay, France
12.45-12.55	Panel discussion & Q&A
12.55- 13.40	Design, construction and specifications for stone columns – Er. Vetriselvan Arumugam, Chief Engineering Manager, L&T GeoStructure, Chennai, India
13.40 -13.50	Panel discussion & Q&A

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May
2020

Time (IST)	SESSION 2 <i>Panelists</i>
10.00-10.05	Introduction - Dr Vasant G Havanagi, Chief Scientist, CSIR-CRRI
10.05-10.45	Analysis and design of remedial measures for distressed Reinforced earth Wall: Case studies - Smt. Parvathi G.S., Senior Scientist, CSIR-CRRI
10.45 -10.55	Panel discussion & Q&A
10.55-11.40	Challenges in Design and Construction of Tam Grouted Micropile Bridge - Shri. Nitin Goyal, Managing director, Spar Geo infra Pvt. Ltd., New Delhi, India
11.40 -11.50	Panel discussion & Q&A
11.50-12.35	Case Studies of Ground Improvement –CRRI’s Experiences- Dr. P. S. Prasad, Senior Principal Scientist, CSIR-CRRI
12.35- 12.45	Panel discussion & Q&A
12.45- 12.50	Vote of thanks: Dr Pankaj Gupta, HOD (Geotechnical Division), CSIR-CRRI



Organizing Committee

Patron & Chairman	Prof. Satish Chandra Director, CRRI
Organizing Secretary	Dr. Vasant Havanagi Chief Scientist, CRRI
Co-Organizing Secretary	Smt. Parvathi G. S. Sr. Scientist, CRRI
HOD (GE Division)	Dr. Pankaj Gupta Sr. Pr. Scientist, CRRI
Members	Shri. U. K. Guru Vittal, Chief Scientist, CRRI Dr. Kanwar Singh, Sr. Pr. Scientist, CRRI Dr. P. S. Prasad, Sr. Pr. Scientist, CRRI Dr. Ambrish Saurikhia, Pr. Scientist, CRRI Dr. A.K. Sinha, Pr. Scientist, CRRI Shri. Mariyappan, Sr. T.O. HOD (CCN), CRRI