



G H Patel College of Engineering & Technology, V. V. Nagar

Department of Civil Engineering

Report on

Expert talk on Repairs and Rehabilitation of Concrete Structures

Department of Civil Engineering, GCET organized an expert talk on “**Repairs and Rehabilitation on Concrete Structures**” on Thursday 15th July, 2021 by Mr. Gopal Rai, the CEO of Dhirendra Group of Company, Mumbai, Maharashtra. With vast experience in the field Mr. Gopal Rai enlightened more than 80 participants to the technologies and systems of repairs and rehabilitation in concrete structures.

AIM:

The primary aim of the expert talk is to inform and enlighten the third and final year students concerning conventional techniques and advancements that have been achieved in the field of rehabilitation and repairing of concrete. Through this event it is our goal to expose students to practices that are taking place within the industry.

About the Talk:

The expert talk consisted different sections where the primary section was the introduction of the speaker, and his experience within the field. In this section Mr Gopal Rai, shared the trajectory of his journey from his humble beginnings up to the multi-employing company that he is now leading. The group company is now 11 years old, and it not only focuses on rehabilitation of structures but of humans as well, with its motto being the three F's; Friends Family and Freedom.

Mr. Gopal Rai described the different technologies and procedures that are being utilized in the field of repairing and rehabilitation of concrete structures in order to mitigate the damage and ultimately strengthen the structure after construction. Some of the technologies and procedures that are being implemented are:

Conventional Methods, Fiber Reinforced Polymer Composites, Reinforced woven fiber, Beam-Column Joints Strengthening, Carbon laminated materials and more.

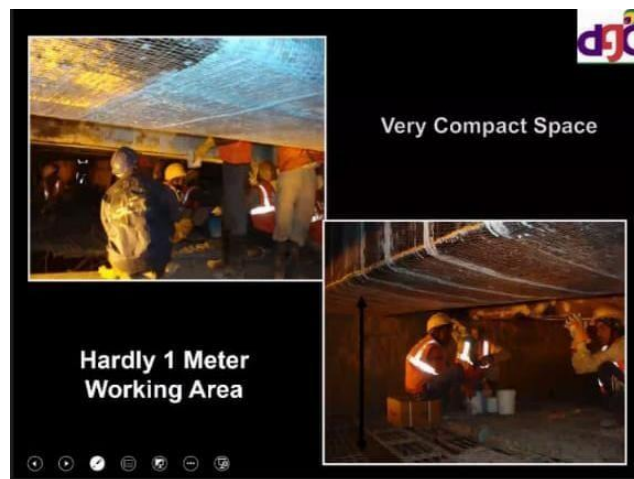
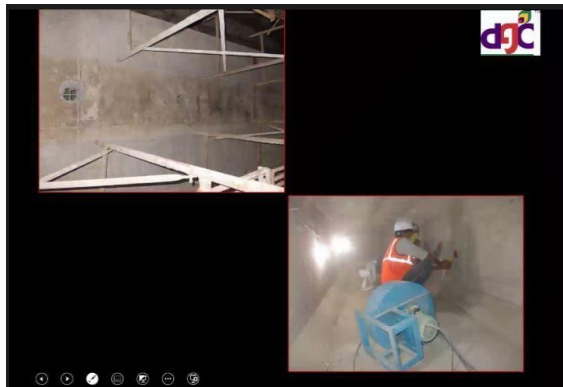
As stated earlier, these technologies are used to strengthen the buildings post degradation. They are methods that are used to mitigate the small-scale failures before they cause complete failure of the structure.

Sir also elaborated on the projects that the company done through the course of the years such as:

- Strengthening of the Narmada Bridge,
- Fiber Wrapping on Structures

- Digital Monitoring of Structure by Civil, Computer and IT engineers
- Indian Railway PSC (Box girder)
- Western Railway Project for ROB

Dr. Gopal mentioned that the project of the Western Railway Project for ROB was his one of his favorite projects to work on, and the different technologies used are displayed below. More images of the process of installing the box girder is shown below.



In conclusion the expert talk was very engaging and it was clear that students learnt a lot as they were actively asking questions and were curious about the topics discussed during the presentation.

Poster of the expert talk:



The poster features a light blue background with a white wave-like pattern at the bottom. At the top, there are three logos: GCET (G H Patel College of Engineering & Technology) on the left, Indian Green Building Council in the center, and CVM University on the right. The main title 'Expert Talk on Repairs and Rehabilitation of Concrete Structures' is centered in bold black text. Below the title is a portrait of Dr. Gopal Rai, a man with glasses wearing a red shirt. Underneath the portrait, his name 'Dr. Gopal Rai' is written in bold red, followed by his title 'CEO, Dhirendra Group of Company, Mumbai, Maharashtra' in black. To the left of the portrait, there are three icons: a calendar, a clock, and a Teams icon, each followed by text: '15th July, 2021', '11:00 am - 12:30 pm', and 'MS Teams'. To the right of the portrait, there is a bulleted list of his qualifications and a link to join the talk. At the bottom, the text 'Organised by Department of Civil Engineering G H Patel College of Engineering & Technology (A Constituent College of CVM University)' is centered.

GCET
G H PATEL COLLEGE OF
ENGINEERING & TECHNOLOGY

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CVM
UNIVERSITY

Expert Talk
on
Repairs and Rehabilitation of Concrete Structures



Dr. Gopal Rai
CEO, Dhirendra Group of
Company, Mumbai, Maharashtra

 15th July, 2021

 11:00 am - 12:30 pm

 MS Teams

- Ph.D (IIT, Bombay), Structural Engineering
- Prominently known as " The Raja of Retrofit"
- LINK OF JOINING :-
<https://bit.ly/EXPERTTALK>

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Department of Civil Engineering
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