



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

Accredited by NAAC & NBA (CSE, IT, ECE, EEE & ME)

Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada

L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India

DEPARTMENT OF CIVIL ENGINEERING

REPORT ON ONLINE WEBINAR

ON

“RECENT ADVANCES IN CEMENT MANUFACTURING INDUSTRIES”

Event Type	Webinar
Date / Duration	13-03-2026
Resource Person	Dr. UMESH SONI , National Head for Technical Services, Adani Group of Industries.
Name of Coordinator	Dr C Rajamallu, Senior Assistant Professor
Target Audience	III B. Tech students
Total no of Participants	48
Objective of the event	➤ Recent advances in cement manufacturing industries are largely driven by sustainability, digitalization, and efficiency improvements. ➤ The industry is undergoing a major transformation from traditional, energy-intensive processes to low-carbon and smart manufacturing systems.
Outcome of event	➤ Students will get updated with the latest trends in cement manufacturing, especially sustainable industry practices ➤ Students get familiar the latest technology that is being used in India, such as Low-Carbon & Green Cement Technologies, Cement production contributes 8–9% of global CO₂ emissions, so reducing emissions is a top priority. etc. ➤ The lecture also provides insights into science vs. engineering and career advice – industry, higher education, and government.
Feedback / Suggestions	• Students gave positive feedback on the webinar and requested to conduct more webinars and workshops.

Photographs :



Dr. V. Presentation of Resource Person



Presentation of Resource Person



Presentation of Resource Person



Presentation of Resource Person

Press Clippings: Nil

REPORT

A one day webinar on “Recent Advances in Cement Manufacturing Industries” is organized in Civil Engineering Department on 13-03-2026 with **Dr. UMESH SONI**, National Head for Technical Services, Adani Group of Industries., acting as Resource Person.

Dr. UMESH SONI dealt with fundamental aspects of cement manufacturing such as **sustainability, digitalization, and efficiency improvements** of materials, mix design approaches. He discussed the various methods of cement manufacturing such as wet state, dry state. He stressed the importance of industrial by products where PPC is more suitable. He deliberated on the material that are being carried out in cement characterization such as

Decarbonization (green cement, CCUS), Digital transformation (AI, automation), Resource efficiency (waste utilization), Energy optimization, Rapid infrastructure-driven demand. He highlighted with case studies the importance of Future advancements like Net-zero cement production, Smart and autonomous plants, Greater use of alternative materials.

In the end, **Dr. UMESH SONI** appraised the various opportunities available in cement manufacturing industries. There are a lot of opportunities in the cement manufacturing industries. The major categories are Quality control engineer, Mining engineer, Quarry supervisor, Lab technician, automation engineer, SCADA/PLC specialist, Data analyst and Sophisticated Technology Advances. The webinar is highly informative and interactive which was very well received by the target audience.