LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

Accredited by NAAC & NBA (Under Tier-I)

ISO 21001:2018, 14001:2015, 50001:2018 Certified Institution

Approved by AICTE, New Delhi & Affiliated to JNTU-Kakinada

L.B. REDDY NAGAR, MYLAVARAM, NTR DIST. A.P.-521230.

Phone:08659-222933, Fax:08659-222931

DEPARTMENT OF CIVIL ENGINEERING

Report on One-Day Guest Lecture on Cement Manufacturing Industries

Event Type	Guest lecture
Date / Duration	8-7-2026
Resource Person	C.Yedukondalu, Manager- Andhra Pradesh, Adani ambuja Cement Ltd
Name of the Coordinator	Sri. Karthik Kumar Malla, Assistant Professor
Target Audience	B Tech Civil 3rd year students
Total no of Participants	43

Objectives

The Department of Civil Engineering conducted a one-day guest lecture on "Cement Manufacturing Industries" with the following objectives: To give student awareness about the process of manufacture of cement from the extraction of the raw materials till the production of cement. To introduce to the students the different types of cement, their properties and their engineering application. To introduce modern technologies and cement equipment used in cement industries. To ensure awareness about Quality control, testing procedure and Indian standards followed in cement production. To bridge the gap between theoretical concepts learnt in classroom and their industrial practice. To encourage the students to look into and come in for industrial training in cement production industry.

Detailed Report

A one-day guest lecture was organized by the Department of Civil Engineering on the topic "Cement Manufacturing Industries" to enhance the knowledge of students about the cement manufacturing and its role in the modern infrastructure development. A seasoned industry expert with a wealth of knowledge on cement manufacturing processes and industrial operations gave the session. The lecture began with an introduction to the role of cement in the construction sector and its impact on the construction of buildings, roads, bridges, dams, airports and other infrastructure.

The resource person gave a detailed explanation about the manufacturing process starting from the raw materials like limestone, clay and gypsum. The expert then explained the process of crushing, raw material blending, grinding, clinker making, clinker cooling, grinding the cement, storage and final packing. Different types of cements, such as Ordinary Portland Cement (OPC), Portland Pozzolana Cement (PPC), Portland Slag Cement (PSC), blended cements and their properties and applications in civil engineering works were discussed. Students were taught about the importance of the correct chemical composition and physical properties for the production of good quality cement. Lab testing of raw materials, clinker and finished cement, quality assurance practices followed in cement industries were also discussed

in the lecture. The resource person shared valuable industrial experiences and encouraged the students to put in efforts in strengthening their technical skills by doing internships, industrial visits and continuous learning.

The guest lecture was a great success, and the students got a good understanding of the technologies used in the cement manufacturing, quality management, sustainability and job opportunities in the field. Finally, the session ended with a vote of thanks, where the students thanked the guest speaker for delivering the valuable technical knowledge and motivating them to excel in their field of civil engineering.

Figure 1 Detailed about the retaining wall structure

Figure 2 Showing the cement behavior in water

Figure 3 Interaction with students

HOD