



ASSOCIATION OF CONSULTING CIVIL ENGINEERS (INDIA)

KAKINADA CENTRE

**CORDIALLY INVITES YOU TO ATTEND THE
WEBINAR ON**

PRECAST CONSTRUCTION JOINTS AND CONNECTIONS

BY



Prof. C.B. Kameswara Rao (CBKR)

ON SUNDAY 25TH AUGUST 2024, 11.00AM - 12.30PM

MANAGING COMMITTEE

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PRAGATI ENGINEERING COLLEGE (Autonomous)

1-378, ADB Road, Surampalem, E. G. District, A.P. - 533 437
(Approved by AICTE & Permanently Affiliated to JNTUK, Kakinada & Accredited by NAAC with 'A' Grade)
(Recognised by UGC Under Sections 2 (f) and 12 (b) of UGC act, 1956)
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PEC/CE/Circular

Date: 20-08-2024

CIRCULAR

This is to inform that Association of Consulting Civil Engineers (India), Kakinada centre cordially organizing an online Lecture on **“PRECAST CONSTRUCTION JOINTS AND CONNECTIONS”** by **“Prof. C.B. KAMESWARA RAO (CBKR)”** on Sunday 25th AUG, 11Am (IST) Onwards. The respective online link will be shared as follows.

<https://acceindia.webex.com/acceindia/j.php?MTID=m5fbd74e192d3df9b8fd713c4698e82fd>

Sunday, AUGUST 25, 2024 11:00 am | 2 hours | (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi

Meeting number: 25157190790

Password: 12345

All the students and faculty members are requested to utilize this opportunity with your presence.

Copy to...,

Dept. Notice Board.

Circulate among Faculty,

Class Rooms of II, III & IV years





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DEPARTMENT OF CIVIL ENGINEERING

WEBINAR Report

PRECAST CONSTRUCTION JOINTS AND CONNECTIONS

- “Prof. C.B. KAMESWARA RAO (CBKR)”

Date: 26th AUG, 2024

Association of Consulting Civil Engineers (India), Kakinada centre organized a webinar on “**PRECAST CONSTRUCTION JOINTS AND CONNECTIONS**” by “**Prof. C.B. KAMESWARA RAO (CBKR)**” on Sunday 25th AUG, 11Am (IST) Onwards “**Prof. C.B. KAMESWARA RAO (CBKR)**” explains about overview of SUSTAINABILITY and PRECAST CONCRETE, He also explained that Precast concrete construction has gained significant attention as a sustainable building solution in recent years. This approach involves manufacturing concrete components in a controlled environment before transporting them to the construction site for assembly.

Difference between joints and connections

- A joint is a meeting point of elements / members of a structure.
- Action of forces takes place at the joint (such as compression, tension, shear etc).
- A joint may be horizontal, vertical, or inclined.
- A connection is an assembly of adjoining elements/members of the components of a joint.
- A connection is designed to resist the action of forces or moments.

Purpose of joints and connections in precast construction

- To transmit forces between structural components
- To provide overall stability
- To provide strength to the structure

- To prevent external leakages
- To resist unpredictable loads due to fire, impact & explosion

Connections have to satisfy the following requirements

- **Strength:** the connection must resist the forces to which it is subjected during its lifetime. Forces such as those caused by dead and live gravity loads, wind, earth, water pressure, etc.
- **Ductility:** The ability of the connection to undergo large deformations without failure.
- **Change in volume:** Combined shortening due to creep, shrinkage and temperature reduction induces tensile stresses in precast components.
- **Durability:** An exposed section in a connection should be periodically inspected and maintained.
- **Fire resistance:** A connection which may be weakened by exposure to fire should be protected by concrete or grout, enclosed or sprayed with fire resistance materials.

Dry and Wet Joints

Joints can broadly be classified as dry and wet joints based on the method of connection of precast members at the site.

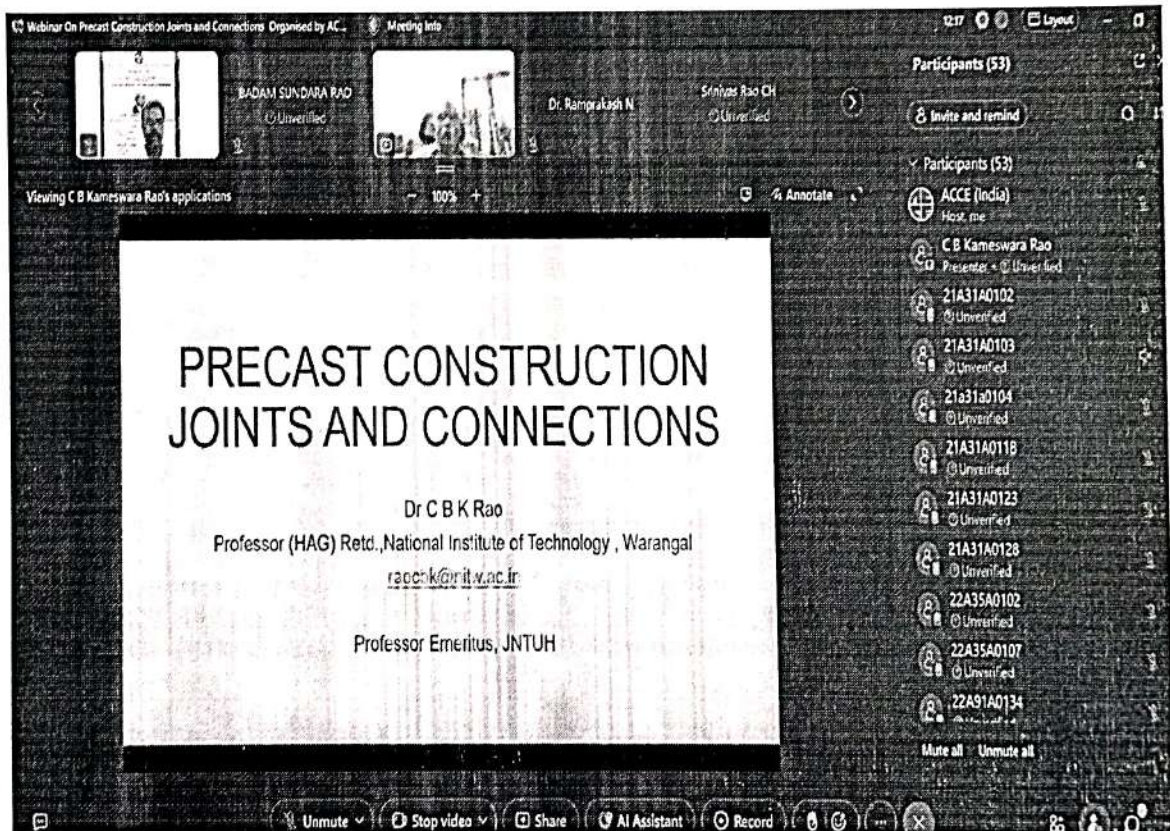
- **Dry joint:** Joint accomplished by simple placing of two members by means of fastening.
- **Wet joint:** Joint that requires not only casting with cement but also concreting and grouting material.

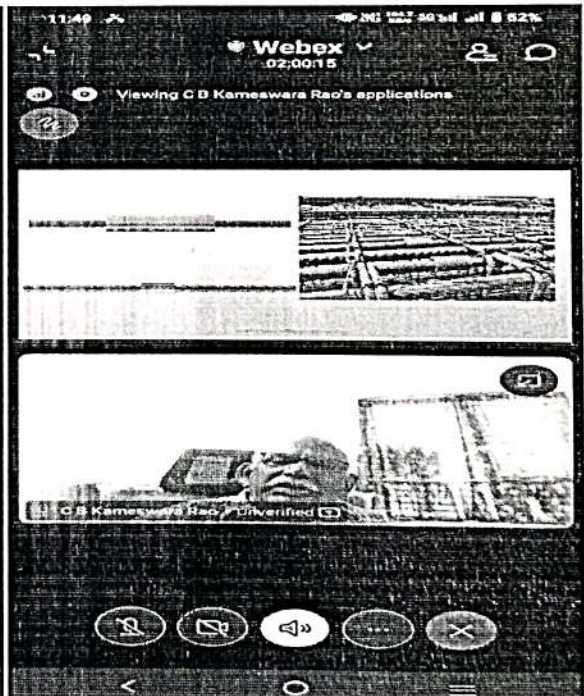
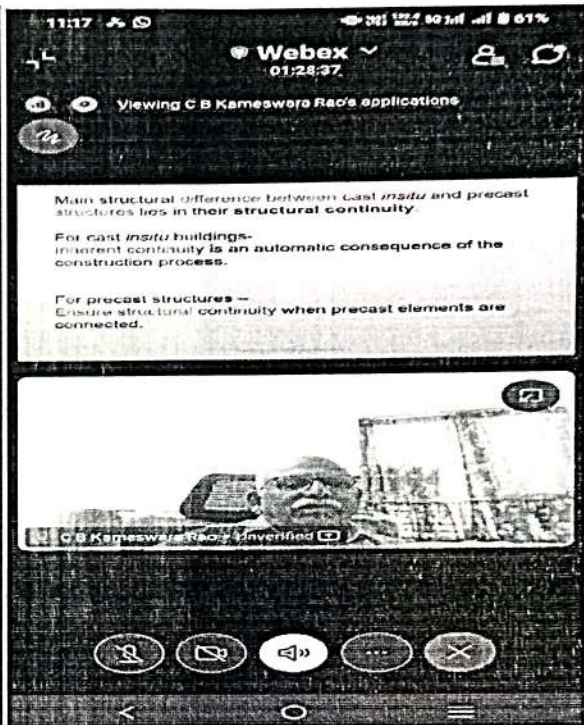
Types of connections

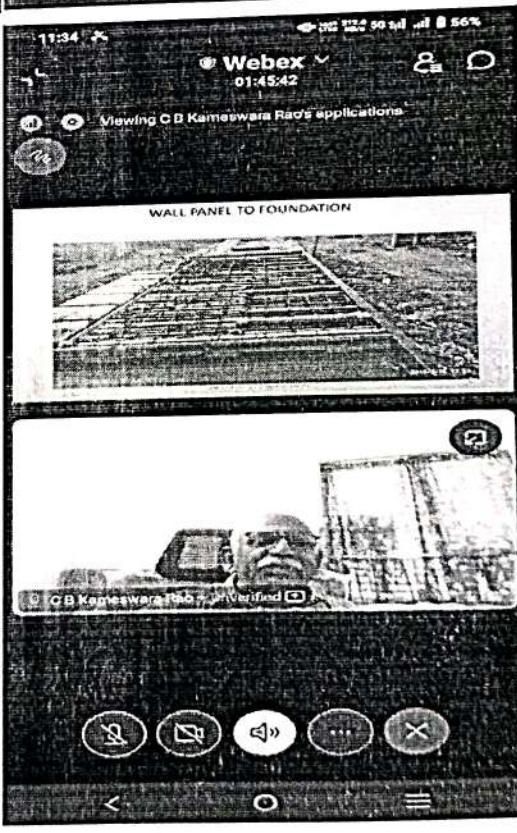
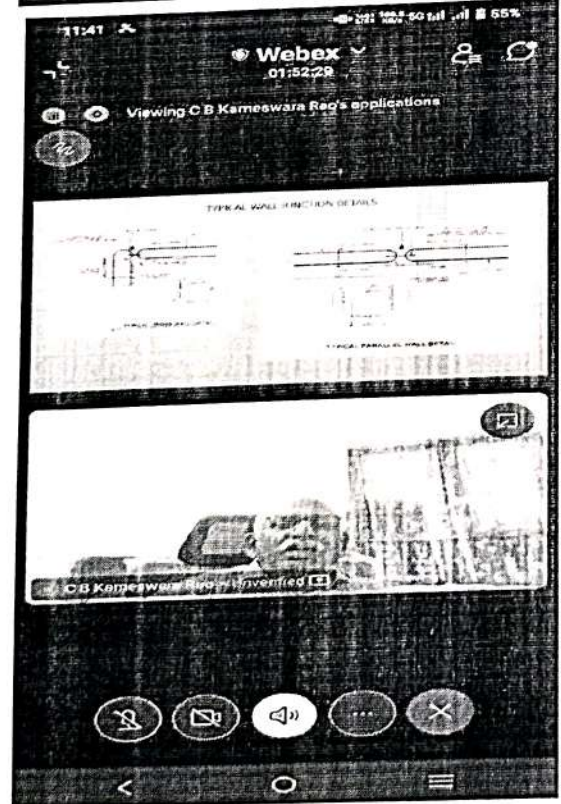
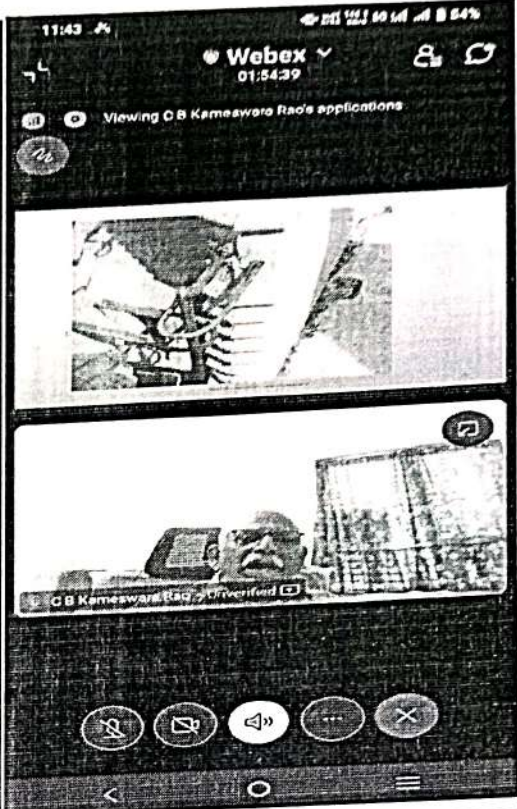
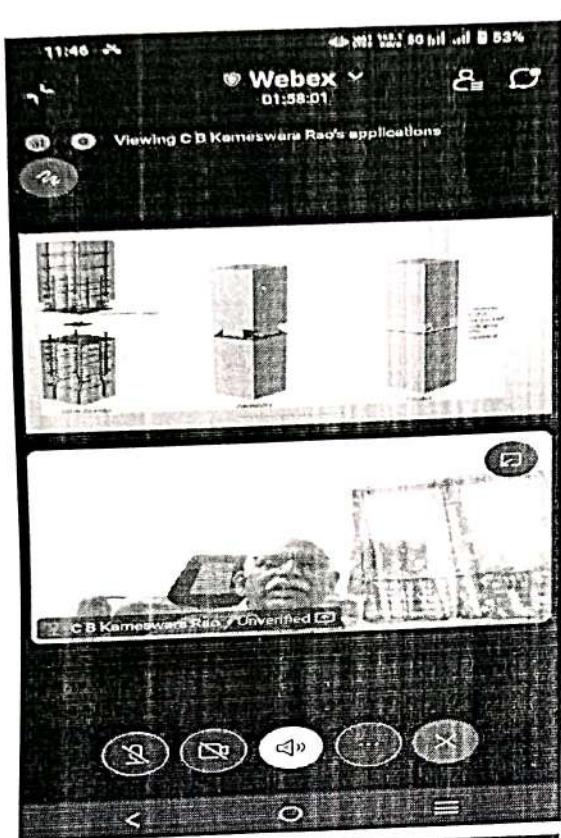
- Column to foundation
- Wall to foundation
- Wall to wall
- Wall to column
- Wall to beam
- Column to column
- Beam to column
- Beam to slab

- Wall to slab
- Stairs to wall

The programme was attended by Students, Faculty members, Civil Engineers from various places, private stake holders, policy makers and research scholars. The programme was well received and attended by 66 participants. Participation of 34 students from Pragati Engineering College is so thoughtful and informative. The pictures of the event and glimpses of slides presented were mentioned in the report stated.







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B - COM
BRAHMI ENGINEERING COLLEGE (A) * KAPPALE

DEPARTMENT OF CIVIL ENGINEERING
ACCE (I) STUDENT CHAPTER
LIST OF STUDENTS ATTENDED

Event: PRECAST CONSTRUCTION JOINTS AND CONNECTIONS

Date: 26-08-2024

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HOD-CE

