

Lecture 2.11: Methods of Transportation of fresh concrete - conventional and through pumps ...

Concrete Technology (DI04006011)

Civil Engineering Department

Lecture Agenda

- 1. Methods of Transportation of fresh concrete - conventional and through pumps and pipeline.
- 2. Summary and Q&A

2.4 Methods of Transportation of fresh concr...

- Conventional methods: Wheelbarrows, buckets, dumpers, and transit mixers.
- Chutes: Used for gravity transport; slope should be steep enough to prevent segregation.
- Pumps and Pipelines: Highly efficient for high-rise buildings and large volume placements.
- Pumped concrete requires a cohesive mix with adequate fines and workability (slump 75-100mm).
- Precautions: Prevent segregation, avoid delays, and protect from extreme weather during transport.

Summary

- Recap of the specific material properties and methods discussed.
- Always refer back to the standard IS codes for parameter limits.