

Lecture 4.24: Nominal Mix and Design Mix.

Concrete Technology (DI04006011)

Civil Engineering Department

Lecture Agenda

- 1. Nominal Mix and Design Mix.
- 2. Summary and Q&A

4.1 Nominal Mix and Design Mix.

- Nominal Mix: Fixed volumetric proportions (e.g., 1:2:4 for M15, 1:1.5:3 for M20).
- Usage: Limited to low-grade concrete (up to M20) and small-scale, non-critical construction.
- Limitations of Nominal Mix: Does not account for aggregate variations or specific strength requirements.
- Design Mix: Proportions determined experimentally in a lab to achieve specified strength and workability.
- Advantages of Design Mix: Economical, accounts for local material properties, ensures guaranteed strength.

Summary

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