

Lecture 4.29: Concrete Mix Design as per IS 10262.

Concrete Technology (DI04006011)

Civil Engineering Department

Lecture Agenda

- 1. Concrete Mix Design as per IS 10262.
- 2. Summary and Q&A

4.4 Concrete Mix Design as per IS 10262.

- Step 1: Determine target mean strength ($f_{ck}' = f_{ck} + 1.65*s$).
- Step 2: Select water-cement ratio based on target strength and durability requirements (IS 456).
- Step 3: Estimate water content based on aggregate size and required slump.
- Step 4: Calculate cement content (Water content / w/c ratio) and check against minimum requirements.
- Step 5: Estimate proportion of coarse and fine aggregate volumes, then calculate absolute weights.

Summary

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