

1. Determination of Volume of Excavation (Centre Line Method)

Objective: To calculate the volume of earth excavation using centre line method.

Method: Measure the total centre line length of the structure and multiply by breadth and depth of trench.

Formula: $\text{Volume} = \text{Centre line length} \times \text{Breadth} \times \text{Depth}$

2. Estimation for Concrete

Objective: To estimate quantities of cement, sand, and aggregate for given concrete work.

Concrete mix ratio assumed: 1:2:4 or M15/M20 as needed.

Volume = $\text{Length} \times \text{Breadth} \times \text{Height}$; Add 50% for dry volume.

3. Formwork Required for Footings

Objective: To estimate the quantity of formwork required.

Formwork Area = $\text{Perimeter} \times \text{Height of footing} + \text{bottom area}$.

Consider formwork reuse factors if needed.

4. Estimation of Building (Long Wall and Short Wall Method)

Objective: Estimate building quantities using long wall-short wall method.

Method: Calculate long and short wall lengths separately for each layer of work.

Volume = $\text{Length} \times \text{Breadth} \times \text{Height}$ (for each wall).

5. Studies of PWD and CPWD

Objective: Understand the structure and practices of PWD and CPWD.

Includes schedule of rates, specification formats, estimate formats and tender procedures.

6. Bar Bending Schedule

Objective: Prepare bar bending schedule for structural members like slabs, beams, columns.

Civil Engineering Lab Manuals

JS Bruner



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