

Estimation & Costing (DI04006021)

Lecture 18: Longwall and Short Wall Method

Introduction to the Method

- Also known as the **Out-to-Out and In-to-In method** or the **Separate Wall method**.
- Typically, walls running in the longitudinal direction are termed **Long Walls**.
- Walls running in the transverse direction are termed **Short Walls**.

Basic Principle

Measure the external (out-to-out) length of the long walls and the internal (in-to-in) length of the short walls.

Formulas for Calculation

To find lengths at any construction level (like earthwork, concrete, brickwork):

- **Length of Long Wall (Out-to-Out)**

$L = \text{Centre-to-Centre length} + \text{Width of item at that level}$

- **Length of Short Wall (In-to-In)**

$L = \text{Centre-to-Centre length} - \text{Width of item at that level}$

Important Note

The length of a long wall *decreases* as we move from foundation to superstructure, whereas the length of a short wall *increases*.

Schematic Diagram

