

PROKIT STUDIO - 8-STEP CONSTRUCTION ESTIMATION GUIDE

Practical handbook for Indian civil contractors, quantity surveyors, and builders

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1. DRAWING VERIFICATION & SCOPE DEMARCATION

Cross-check architectural and structural drawings. Confirm grid alignments, plinth level benchmarks, and structural notes before measuring a single item.

2. SUBSTRUCTURE QUANTITY TAKEOFF

Calculate pit excavation in cum, adding 300mm working clearance per side.
Determine Plain Cement Concrete (PCC) bed volumes and footing RCC accurately.

3. SUPERSTRUCTURE RCC & REINFORCEMENT

Extract concrete volumes for plinth beams, columns, floor beams, and slabs.
Estimate TMT steel using standard thumb rules (1.5% to 2.5% steel by concrete volume) or precise bar bending schedules (BBS).

4. MASONRY & PLASTER MEASUREMENTS (IS 1200 RULES)

Compute super-structure brick/block work in cum or sqm. Apply IS 1200 deduction rules for openings: no deduction for holes under 0.1 sqm; deduct one face for 0.1 to 0.5 sqm.

5. FLOORING, TILING & WATERPROOFING

Calculate carpet areas and skirting running meters. Add 7-10% allowance for cutting wastage on tiles and granite slabs.

6. DEVELOPING REALISTIC RATE ANALYSIS

Itemize basic raw materials at current landed market prices. Factor prevailing daily wages for head masons, skilled labor, and helpers. Include equipment vibrator/mixer hire.

7. OVERHEADS, WASTAGE & APPLICABLE GST

Add 10% to 15% contractor profit and overheads. Apply 18% GST (or applicable composite rate) to produce client-ready totals.

8. ASSEMBLING THE BILL OF QUANTITIES (BOQ)

Organize the schedule sequentially from earthwork to finishing.
Use the ProKit Studio Construction Estimation Toolkit (.xlsx) for automated calculations.

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