

Step-by-Step House Construction Guide (English)

Step-by-Step House Construction Guide for First-Time Homeowners

1. Choose the Right Structure:

RCC frame structure is recommended for durability and earthquake resistance.

2. Planning and Design:

Hire an architect or civil engineer to plan layout, ventilation, Vastu (optional), and utility Placements.

3. Contractor Selection:

Choose between with-material or labor-only contractor.

Always sign a written agreement with payment schedule and quality clauses.

4. Site Clearance and Excavation:

Level the plot and perform excavation using JCB or manual labor.

5. Foundation and PCC:

Lay 6-inch thick PCC using M20 grade concrete after soling.

6. Footings and Columns:

Use minimum 12mm steel bars.

Provide cover blocks and use vibrator during casting.

Cure for 10–12 days.

7. Plinth Beam and Backfilling:

Construct plinth beam and backfill the area with compacted soil.

8. Brick Masonry:

Use well-soaked bricks, outer walls 9", inner walls 4".

Mortar ratio 1:5.

Provide concrete bands every 3 ft in partition walls.

9. Lintel and Staircase:

Cast lintels above doors and windows.

Construct staircase in two phases if needed.

10. Roof Slab Casting:

5-inch thick RCC slab using M20 grade concrete.

Install electrical conduits before casting.

Use vibrator and cure slab for 14 days.

11. Parapet Wall and DPC:

Build 3-ft high parapet wall.

Apply DPC to prevent rising dampness.

12. Electrical and Plumbing Lines:

Install wiring and pipes before plastering.

Use mesh at joints to avoid cracks.

13. Wall Plastering:

Ceiling: 6mm, Interior: 12mm, Exterior: 18mm

Cement-sand ratio: 1:4 or 1:6

14. Tiling and Kitchen Work:

Install doors, windows, kitchen counter and tiles.

15. Painting and Final Finishes:

Apply primer, 2 coats of putty, and branded paint.

Fix lights, switches, taps, fans, doors, railings, etc.