

NAME OF WORK: - SR TO REST HOUSE BILIMORA, DIST.: - NAVSARI (REPAIRS TO PROVIDING GROUND FLOOR'S SLAB IN FABRICATION WORK, FIRST FLOOR CEILING WORK AND FALSE CEILING)

ITEM WISE SPECIFICATION

Item No:- 1

Providing and fixing wooden planks ceiling with tongued and grooved jointing and wood screws (frame work and cover fillings to be measured and laid for separately) (A) Indian Teak wood (iii) 25mm thick

The item shall be executed as per the relevant specification of General Technical Specification for Building Works It. No.16.3. (A) (iii), P.no 116

The rate shall be for a unit of one Sq.mt.

Item No:- 2

Steel work, welded in built up sections framed work including cutting, hoisting, fixing in position and applying a priming coat of red lead paint. (A) In beams and joists, channels angles Tees, flats, with connecting plates or angle cleats as in main and cross beams. Hip and jack rafters, purlins conneted to common rafters and the like

The item shall be executed as per the relevant specification of General Technical Specification for Building Works It. No.11.4.(D) P.no 81+ It. No.19.7 P.no 138

The rate shall before a unit of one Quintal.

Item No:- 3

The provision and installation of a Cement Sheet(90% Area) + veneer(10% Area)-based false ceiling involve using 1220 x 2440 x 6mm thick Cement Sheet (M1) combined with 4mm thick veneer sheets (M23). The framing can be either a teak wood frame with cross runners tongued and grooved or a 50x50mm GI section frame, featuring vertical support and horizontal grid at 450mm c/c spacing, anchored securely to the RCC ceiling. Joints must be treated to ensure they are not easily visible, meeting the satisfaction of the Architect. Finishing involves applying a Matt Melamine Polish (M29), with additional paint or patterns as required by the design. Necessary hardware includes SDST screws for fixing the sheets onto the framing, PVC wall plugs, and pipe clamps for hanging the framework, along with all essential fixtures and fasteners (M14). Rates encompass the provision of necessary cutouts for fittings such as lights, speakers, or AC outlets, and cover installation at various heights and levels on both ceiling and walls, inclusive of all associated hardware. Completion must adhere strictly to provided drawings or instructions from the Architect and Engineer-in-Charge, with reference to the False Ceiling Detail Drawings.

Materials

1. Cement Sheets

- 6 mm thick fibre cement board/cement sheet of size 1220 mm × 2440 mm conforming to relevant provisions of IS 14862 and manufacturer's specifications.
- Boards shall be moisture resistant, termite resistant, dimensionally stable and free from cracks, warping or manufacturing defects.

2. Veneer Finish

- Approved quality natural decorative veneer of 4 mm thickness or as specified in approved sample.

- Veneer shall be free from knots, stains, cracks, insect attack and other defects.

3. Framework

- Framework shall consist of either:
 - Seasoned teak wood sections, treated against termite and fungal attack, tongued and grooved where required; or
 - GI hollow sections of size 50 mm × 50 mm, minimum 1.6 mm thick, zinc coated and corrosion resistant.
- Main runners and cross runners shall be provided at maximum 450 mm c/c both ways.

4. Suspension System

- GI hangers, cleats, pipe clamps, dash fasteners, anchor fasteners, expansion bolts, threaded rods and brackets as required.
- Suspension members shall be adequately designed to carry dead load and service load without sagging.

5. Fasteners

- Self-drilling self-tapping (SDST) screws of approved make.
- PVC wall plugs, anchor bolts, metal inserts, clips and fixing accessories.

6. Jointing Materials

- Approved fibre mesh tape, jointing compound, fillers, sealants and finishing compounds for obtaining smooth and invisible joints.

7. Polish and Finish

- Matt Melamine Polish on veneer surfaces.
- Primer, putty and paint on cement sheet portions wherever specified in drawings.
- Finishing materials shall be of approved brand and shade.

8. Accessories

- Edge trims, mouldings, decorative bands, grooves, reveal sections and other architectural features as shown in drawings.
- Provision for light fixtures, speakers, AC grills, diffusers, detectors and similar services.

Labour

The item shall include skilled and unskilled labour required for:

- Marking and setting out.
- Fabrication and installation of framework.
- Cutting, handling and fixing of cement sheets and veneer panels.
- Installation of hangers, supports and anchoring systems.
- Joint treatment and finishing.
- Surface preparation and polishing.
- Formation of openings and cut-outs.
- Cleaning and protection of completed work.
- Scaffolding, lifting, staging and all temporary arrangements.

Workmanship

1. Ceiling layout shall be established as per approved architectural drawings.
2. Framework shall be rigidly fixed to RCC slab, beams or structural members using approved anchors and suspension arrangements.
3. Main framing and cross framing shall be installed accurately maintaining alignment, levels and spacing not exceeding 450 mm c/c.
4. Cement sheets shall be cut accurately and fixed using approved SDST screws at recommended spacing.
5. Veneer finished portions shall be installed strictly as per design pattern and approved mock-up.
6. All joints shall be reinforced with fibre tape and finished with suitable jointing compound to produce a smooth, crack-free surface.

7. Finished ceiling shall be perfectly level, true to line and free from undulations, sagging, waviness or visible fixing marks.
8. Openings for recessed light fittings, speakers, AC diffusers, access panels, detectors and other services shall be neatly formed without additional payment.
9. Matt Melamine Polish shall be applied in required coats after proper sanding and preparation of veneer surfaces to achieve uniform finish.
10. Exposed surfaces shall be free from stains, scratches, dents, visible joints and other imperfections.
11. Completed work shall comply with relevant provisions of:
 - IS 14862 – Fibre Cement Flat Sheets.
 - IS 2095 – Gypsum and Ceiling Practices (where applicable for workmanship).
 - IS 800 and IS 875 for structural support considerations.
 - CPWD Specifications latest edition.
 - Approved architectural details and false ceiling drawings.

Mode of Measurement

1. Measurement shall be taken in square metres (Sq.m.) of finished false ceiling area.
2. Length and breadth shall be measured to the nearest centimetre.
3. No deduction shall be made for openings up to 0.50 sq.m. each.
4. Openings exceeding 0.50 sq.m. shall be deducted and jambs, soffits and returns shall be measured separately if specified.

Item No:- 4

Providing corrugated G.I. sheet of class-3 roofing fixed with galvanized iron J or L Hooks, Bolts and nuts 8mm diameter with bitumen and G.I. limpet washer or G.I. limpet washer. filled with white lead complete excluding the cost of purlins, Rafters and Trusses.(1) 0.80 mm thick sheet.

The item shall be executed as per the relevant specification of General Technical Specification for Building Works It. No.15.1. P.no 104 + It. No.19.7 P.no 138

The rate shall be for a unit of one Sq.mt.

Signature of Contractor

**Deputy Executive Engineer
Navsari (R&B) Sub Division
Navsari**