

## RATE ANALYSIS CIVIL AND MEP

### ANNEXURE

#### TECHNICAL SPECIFICATIONS AND WORK METHODOLOGY

**Work Activity Name**

Fly Ash Brick Masonry – 100mm thick

**Work Specification :**

Providing and constructing 100mm thick Solid Fly Ash Block Masonry with blocks having minimum crushing strength 50Kg/sqcm and maximum 10% water absorption, in cement mortar in ratio 1:4 and reinforced with two bars of 8mm after every 1200mm height with R.C.C. (1:2:4), 75-100mm thick band for the length of wall including all scaffolding, staging, striking and raking out joints at least 10mm depth, etc. complete as per the instructions of EIC.

**Reference:**

1. Approved work BOQ
2. Technical Specifications
3. Material Test Reports
4. IS Code

**EHS and Storage Concerns:**

1. Scaffolding and working platforms for the works at heights.
2. Use of cement.
3. Lifting, shifting of blocks.
4. Stocking of blocks on one place.

**Tools and tackles:**

1. Mason tool kit
2. Measurement tape / line thread
3. Plumb Bob

**PPT requirements:**

1. Hand Gloves
2. Helmets
3. Safety Shoes
4. First AID Facility

**Work Process:-**

- Fly Ash Bricks are procured from approved sources and tested as per frequency.
- The blocks are shifted to location of work and stocked. It is ensured that all blocks are stocked in staggered manner to avoid excess dead load on the slab.
- The floor is cleaned for loose debris, dust and concrete droppings. The layout of the walls are marked and built with one layer of block work.
- The diagonals for room dimensions are checked.
- After necessary approval, the block work is commenced.
- The blocks are wetted but not soaked before commencement of block work.
- The cement mortar of 1:4 ratio is mixed on watertight platform. Initially the dry mix is thoroughly prepared and water is added to required quantity.
- The horizontal and vertical joint thickness is not more than 20mm.
- After every 1200mm, RCC band is casted using 2 – 8/10mm dia bar in concrete 1:2:4. For horizontal joint, tooth is left so that next day, the block work will have good bond with old work.
- The verticality is checked by plumb bobs and horizontal straightness is checked with line thread / aluminium straight edge.
- At the end of the day's work, the joints are raked to 10mm deep on both sides and joint surface is cleaned with broom.
- At the Vertical junctions of the RCC structure, the surface is hacked to 10mm deep to gain

bonding. At horizontal joints, the gap is filled up with cement concrete.

**Inspection Record:**

1. Checklist
2. Material Test Reports.
3. Work Measurements.

RATE ANALYSIS CIVIL AND MEP