

METHOD STATEMENT FOR A.A.C. BLOCKWORK

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1. PURPOSE

The purpose of this procedure is to follow proper activities to carry out A.A.C. BLOCKWORK work in **PALAVA – II Project** as per the approved SOP, Drawings, Technical Specification and I.S. Standards & Company Quality Policy.

2. SCOPE:

It includes Surface Preparation, Waterproofing Coating Application, Setting Out, Preparation of Sand Mortar for Layout, Cutting, Laying & Fixing Blocks , Joint Filling, Curing , Transom & Mullions, Groove Cutting / Chasing , Etc...

3. REFERENCES:

1. Contract / Tender documents / Technical Specifications / Drawings / SOP.
2. Relevant standards for Grey & White Cement :- I.S. 2185 Part 3.

4. RESPONSIBILITIES:

- | | |
|-------------------|--|
| A. SITE IN-CHARGE | Shall report to the Construction Manager.
Shall be responsible for Control, Supervision and Direction for Implementation of this procedure. |
| B. SITE ENGINEER | Shall report to the Site in Charge.
Shall carry out the work as per SOP ,Drawings and Specifications |
| C. QA ENGINEER | Shall report to the QA In-charge.
QA Engineer shall carry out Lab / Field test / Field inspection. |

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5. TOOLS AND TACKLES

1. Water Storage Drum.
2. Tray
3. Mixing Pans & Trowel
4. HOE (Phowdah)
5. Chisel & Hammer
6. Mechanical Agitator
7. Aluminum Straight Edge Trowel (Patra)
8. Block Cutting Machine
9. Grinding Machine
10. Leveling Machine / Spirit Level
11. Mason Square (Right angle / Katkona)
12. Measuring Tape, Plumb bob, LineDori etc
13. Rubber Hammer / Mallet
14. **P.U.FOAM**

6. PREPARATORY WORKS:

The following points shall be inspected before clearance for A.A.C. BLOCKWORKS :

1. Confirm completion of **Post Concrete Works, WALL TIE FILLING Works**, MEP Conduit Clearance, **Temporary Electrical Connections to be removed** etc...
2. Check cleaning of complete floor area where Blockwork has to commence.
3. Check availability of all Tools Tackles & Raw Materials.
4. Confirmation: Approvals of Block Brands & Block Jointing Mortar Brands.
5. **Block Stacking** should **NOT** be done for more than a height of 750 mm / 5 Blocks and should be nearer to the Columns / Walls. Stacking should **NOT** be done in Centre of the Room.
6. **Hack all RCC & apply a Dash coat for Layout where Mortar is to be used.**

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7. METHODOLOGY

A : MANUFACTURING TOLERANCE

1. The Tolerance of Block is ± 3 mm in Thickness & Height.
2. The Tolerance of Blocks in Length is ± 5 mm

B : LAYOUT

1. According to Reference Levels marked on all Walls / Columns Lay 150mm height Concrete Bund of M20 grade.
2. **WETTING of all Block faces is Mandatory to remove loose dust particles & for effective spread ability of Jointing Mortar.**
3. Lay the End Blocks of each wall first ensuring it in Level / Line / Plumb with itself.
4. Subsequently Complete the Layout Course in Level & Line.
5. Check Room Dimensions / Right Angle / Opening Dimension / Location of Mullion (if any)

C : BLOCK WALL ERECTION

1. Prepare Block Jointing Mortar with 25 % Water admixed to form Consistent Paste.
2. **Block jointing Mortar needs to be applied to both Faces in Contact.**
Adjoining faces of Both Blocks / Over RCC & Adjoining Block face.
3. **JOINTING MORTAR should be applied over complete area & NO AIR Pocket should be left within.** This AIR pocket later will cause SEPERATION CRACK in BLOCKWORK, subsequently Cracking Internal GYPSUM Plaster & also Cement Plaster + Ceramic Tiles Placed over it.
4. Blockwork should be done for a height of 1200 mm in a Day.
5. Cutting of Blocks should be done with Block Cutting Machine only.

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- 6. Blocks lesser than 100 mm WIDTH should not be used in Permanent works.**
7. Blockwork should be done in the pattern: STRETCHER Bond.
8. Cast Transom / Bond Beam / Patli Beam above 1000 / 1200 mm.
9. Reinforcement 2 Nos to be embedded 75 mm in Adjoining RCC member by drilling Holes.
10. Beam to be casted in Concrete with M20 grade concrete.
11. Bond Beam Dimension: Width of Wall **X** min 100 mm height.
12. Apply Curing Compound to the Bond beam.
13. Further Blockwork shall be done again with jointing Mortar above Bond Beam.
14. Lintels should be casted at appropriate Levels with M20 Concrete Mix & 4 Rebars properly anchored in adjoining RCC wherever required.
- 15. Minimum Bearing of DOOR LINTEL / WINDOW SILL on BLOCKWORK should be 150 mm.**
16. Horizontal Cut Block should be avoided by modifying Height of Bond Beam economically.
17. Horizontal Cut blocks if needed to be placed should form the **SECOND LAST Layer** of the Blockwork.
- 18. Finally a Gap of 10 mm exact to be maintained at TOP in Between the RCC BEAM / RCC SLAB & the Blockwork.**
19. This Gap should be filled with **P.U. Foam**.
- 20. 2 Days Later the Foam should be CUT to a Depth of 20 mm from Both Sides and the Gap should be filled with 1 : 12 LEAN MORTAR.**
21. This Lean Mix & Foam shall facilitate movement in case of Beam Movement.
22. Prior to subsequent (Internal Gypsum / Cement Plaster) OR (External Plaster) all walls should be inspected for any Defects / Gaps Leftovers. The same should be rectified and then progressed for Next Activity.

8. QA-QC

1. QA Checklist has to be filled Flat Wise & maintained by respective Team / Contractors.
2. Approval Documents shall be maintained with the DMS dept.

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