

	METHOD STATEMENT			Page 1 of 9
	Department Civil	Document Ref. No.	Issue Date	Revision 00

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METHOD STATEMENT FOR PLASTERING WORK

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	METHOD STATEMENT			Page 2 of 9
	Department Civil	Document Ref. No.	Issue Date	Revision 00

Table of Contents

1.0.	SCOPE	3
2.0.	SITE SUPERVISION	3
3.0.	REFERENCE	3
3.1.	DOCUMENTATIONS	3
4.0.	RESOURCES	3
4.1.	PERSONNEL	3
4.2.	RESPONSIBILITIES	3
4.3.	EQUIPMENT	4
4.4.	WORKFORCES	4
5.0.	PERMIT TO WORK	4
6.0.	SAFETY REQUIREMENT	4
7.0.	DESCRIPTION OF THE PLASTERING WORK AND PROCEDURE	5
8.0.	Methodology	6
9.0.	Hand Application	6
9.15.	Working in higher levels	7
9.16.	Curing	8
9.17.	Safety	8
9.17.1.	Safety Training	8
9.17.2.	Emergency Procedure & Communication at Site	8
9.17.3.	Area Lighting	8
10.0.	COMPLETION OF THE WORKS	8
11.0.	QUALITY ASSURANCE AND QUALITY CONTROL	8
12.0.	APPENDICES	9

	METHOD STATEMENT			Page 3 of 9
	Department Civil	Document Ref. No.	Issue Date	Revision 00

1.0. SCOPE

The Scope of Work (SOW) for this technical documentation consists of the following work:

- 1.1. Surface Preparation
- 1.2. Establishing plaster thickness
- 1.3. Fixation of plastering accessories
- 1.4. Plaster mix preparation & application
- 1.5. Finishing and curing works

2.0. SITE SUPERVISION

The Construction Manager shall have overall responsibility for the completion of the work.

3.0. REFERENCE

3.1. DOCUMENTATIONS

- 3.1.1. Approved Shop Drawings
- 3.1.2. Project Specification
- 3.1.3. Project Quality Plan
- 3.1.4. Project HSE Plan
- 3.1.5. Risk Assessment
- 3.1.6. Material Submittals

4.0. RESOURCES

4.1. PERSONNEL

- 4.1.1. Construction Manager
- 4.1.2. Site Engineer
- 4.1.3. QA/QC Engineer
- 4.1.4. HSE Officer
- 4.1.5. Surveyor
- 4.1.6. Foreman
- 4.1.7. Labours

4.2. RESPONSIBILITIES

Position	Responsibilities
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	METHOD STATEMENT			Page 4 of 9
	Department Civil	Document Ref. No.	Issue Date	Revision 00

Project Manager	The PM makes sure that the work is proceeding as per the approved Plan, schedule, and contractual requirements.
Project Engineer /Construction Manager	Responsible for carrying out the work following IFC Drawings, Approved Shop drawings and project specifications.
QA/QC Engineer	The QAQC Engr. makes sure that the quality requirements as highlighted and described in the quality plan are being achieved as per the expectations.
HSE Officer	The HSE officer closely looks at and implements the health & safety aspects of the job, advice and remedial initiatives and oversees the implementation of these measures.
Surveyors	The Surveyors develop and establish lines and levels as per the approved drawings and make sure these are maintained accordingly.
Foreman	The Foreman oversee, monitor, and supervise the work as directed by the Project Engineer (PE).
Labours	Conduct and carry out the work as directed by the foreman.

4.3. EQUIPMENT

- 4.3.1. Hacking tools, Hand trowel
- 4.3.2. Mechanical mixer Drum
- 4.3.3. Volumetric Weigh Box
- 4.3.4. Plumb bob, Aluminum Straight edge
- 4.3.5. Mortar mixing pan
- 4.3.6. Tyrolean/Spatter dash equipment.

4.4. WORKFORCES

Sr. No:	Required	Numbers
1.0.	Project Manager	As Site Required
2.0.	Project Engineer/Construction Manager	As Site Required
3.0.	QA/QC Engineer	As Site Required
4.0.	HSE Officer	As Site Required
5.0.	Surveyors	As Site Required
6.0.	Foreman	As Site Required
7.0.	Labours	As Site Required

5.0. PERMIT TO WORK

Required Work permits shall be get and shall be readily available on-worksites.

6.0. SAFETY REQUIREMENT

	METHOD STATEMENT			Page 5 of 9
	Department Civil	Document Ref. No.	Issue Date	Revision 00

- 6.1. Safety requirements for plastering works shall be following the Occupational health and safety standards of the GCC [or as per your business located state or country] HSE plan and [or as per your business located state or country] Occupational health safety management system.
- 6.2. All Workers involved in the project shall be inducted on the safety, health and
- 6.3. Environmental issues before allowing working at the site.

Personal Protective Equipment

- 6.4. All required mandatory PPE like safety helmet, safety shoes, and hand gloves shall be used during the execution of the work
- 6.5. Specific Safety Requirement
- 6.6. Personnel working at height shall wear Full Body Harness

7.0. DESCRIPTION OF THE PLASTERING WORK AND PROCEDURE

- 7.1. Surfaces to receive the plaster coat shall be thoroughly cleaned of any loose dust, particles, wood pieces, nails, mould oil, binding wires etc. and neutralized by applying potable/ Treated water.
- 7.2. All MEP embedment work & Plastering accessories fixation works shall be completed, inspected & Approved by the consultant before proceeding with the plastering works.
- 7.3. Levelling pad shall be made on the surfaces to the specified thickness of the plaster requirement as indicated in the Shop Drawings.

The below highlighted and described Volumetric Mix (VM) shall be used for the plastering work.

- a. Dash coat (Under Coat) /Spatter coat: 1(Cement): 4 1/2 (Sand)
- b. Topcoat /Final coat: 1(Cement): 6 (Sand)
- 7.4. The Plaster mix is prepared by mechanical mixer drum with ingredients measured volumetric with constructed Gauge box.
- 7.5. The undercoat plaster thickness will not be more than 13mm thick or less than 8mm. Plaster thickness exceedingly more than 10mm or less than 5mm, shall be done in 2 coats.
- 7.6. Approved Expanded Metal lath shall be fixed at the junction of different Backgrounds and all over the electrical conduits and other service pipe works.
- 7.7. Approved Angle / Corner Beads (AB 48X 48mm -EXMET) & Stop beads (PS13 & PS16 -EXMET) shall be fixed by mortar dab on the surface to the plumb, by using G.I Nails. It shall comply with BS 14 49 Part 2.
- 7.8. The spatter dash coat (1st coat) shall be applied to the prepared Block masonry surface using a Tyrolean box to achieve a rough surface to ensure good key for subsequent plaster coats
- 7.9. The applied spatter dash coat shall be cured for a minimum period of 2 days (water spraying 3-4 times a day) before the start of the undercoat/1st coat plaster coat.
- 7.10. Before applying the next /final coat the preceding coat is to be brushed down to remove any loose particles and is to be dampened sufficiently to ensure uniform absorption.
- 7.11. The second / Final Plaster coat shall be built up and finished to the required thickness by felting or floating. For Tiling, finishing work needs to keep an unsmooth surface.

	METHOD STATEMENT			Page 6 of 9
	Department Civil	Document Ref. No.	Issue Date	Revision 00

- 7.12. A neat 5mm wide 'V' joint shall be prepared where plaster finishes flush against the door & window frames.
- 7.13. The finished plaster surface shall be water cured for 2 days.
- 7.14. All adjacent finishes, and materials during plastering works shall be protected by temporary coverings like polythene sheets.
- 7.15. The finished surface shall be smooth, free from waviness, irregularities and in the true plane to correct line and level.
- 7.16. The concrete surface should be clean, free of loose debris, porous, chipped, scarified, etched, or otherwise roughened to ensure good mechanical bond
- 7.17. Materials: - According to the Project specification materials such as corner beads, edge trim, angle beads and stops for render shall be of stainless steel and shall comply with BS 1449 Part 2.
- 7.18. All plaster work involved in accessories and other gears shall be epitomized to suit the depth of plaster to be applied.
- 7.19. Render grooves shall be fabricated from stainless steel.

8.0. Methodology

- 8.1. All works shall be following Project Technical Specification
- 8.2. All MEP services shall be installed before starting plastering work.
- 8.3. Clearance shall be taken from each discipline before starting plastering work.
- 8.4. The site Engineer and Consultant must check all the supports/levels of plastering work before starting work.
- 8.5. Metal lath shall be used in all the joints between the block and Concrete columns and beams. Also, metal laths shall be used above the MEP services to control cracks.
- 8.6. Solid-plaster bases that are smooth or that do not have the suction capability is prepared by the installation of accessories such as:
 - a. Corner beads as outside corner reinforcements
 - b. Inside corner, accessory for the provision of stress relief at internal angles.
 - c. Casing beads when plaster abuts dissimilar material/objects.
 - d. Plaster screeds to establish plaster thickness.
 - e. Control joints to relieve stress in areas prone to cracking.
- 8.7. Fasteners are used to attach the metal lath to the concrete surface. A minimum of 3/4 in (19 mm) length is required to make sure structural integrity. The size and type of fastener selected will be based on the type of substrate, the weight of the metal lath, and the thickness and weight of any additional materials.
- 8.8. The concrete surface should be clean, free of loose debris, porous, chipped, scarified, etched, or otherwise roughened to ensure a good mechanical bond.
- 8.9. A chip or roughen the solid surface substrate using a wire brush, hammers, chisels, scabbers or other hand or power tools.
- 8.10. Care should be taken to avoid the removal of the solid substrate structure beyond the amount necessary to ensure a proper bond of plaster to the substrate.

	METHOD STATEMENT			Page 7 of 9
	Department Civil	Document Ref. No.	Issue Date	Revision 00

- 8.11. Apply the approved bonding agent (NITOBOND SBR) to the concrete surface by brush, roller, or spray.
- 8.12. The room temperature should be greater than 4.4°C for at least 48 hours before the application of plaster and continuously during and after the application
- 8.13. Once a control sample of any in situ finish has been approved, do not change the constituents or proportions without approval. Ensure that supplies are obtained from one source to give uniform colour and texture throughout the whole of the Work.
- 8.14. Application of plaster can be done by hand or machine application.
- 8.15. The Hand application will be used in this plasterwork project.

9.0. Hand Application

- 9.1. Hand application is typically performed by the plasterer using a hawk and trowel.
- 9.2. The plasterer scoops the plaster from the hawk with various tools and applies it to the plaster base.
- 9.3. Before starting the rush coat/first coat, all the MEP services shall be installed and take clearance from each discipline.
- 9.4. The first coat or scratch coat on a metal-lath base should be thick enough to fully key into and embed the lath. The scratch coat on a solid substrate base should be sufficiently trowel-forced into the solid substrate to promote a good mechanical bond.
- 9.5. Excessive troweling during scratch coat application should be avoided.
- 9.6. The scratch coat surface should rot to a level plane.
- 9.7. Application of curing on the external wall will be required to stop plaster from drying out too quickly. If necessary, then a single Hessian and single polyethylene sheet will be hung against the wall to protect the plaster from the drying effects of the wind in hot weather. On internal walls, there shall be adequate ventilation to allow the plaster to dry.
- 9.8. Before applying the finish coat/rush coat, moisture should be applied to the scratch coat to begin the absorption process and if necessary, to satisfy the anticipated absorptive capacity of the scratch coat during application and tooling of the finish coat.
- 9.9. The second coat/final coat should be applied as soon as the first coat is sufficiently rigid to resist cracking, the pressures of the second coat application, and the levelling process.
- 9.10. Screeds (pegging) shall be used to ensure a flat surface within the project specification. A tolerance of plus or minus 6.4mm in 3.0m from the true plane in the finished plaster surface is allowed.
- 9.11. Finish plaster-flush with metal frames and other built-in metal items or accessories that act as plaster ground.
- 9.12. Where the casing bead does not terminate plaster at the metal frame cut the base coat free from the metal frame before the plaster sets and groove the finish coat at junctures with metal.
- 9.13. Cut, patch, replace and repair plaster as necessary to accommodate other work and to restore cracks, dents, and imperfections. Repair or replace work to eliminate blisters, buckles, and crazing and check cracking, dry outs, efflorescence, sweat outs and similar defects that were bonded to the substrate have failed.

	METHOD STATEMENT			Page 8 of 9
	Department Civil	Document Ref. No.	Issue Date	Revision 00

9.14. Remove temporary protection and enclosure of other work. Promptly dispose of plaster from doorframes, home windows and other surfaces no longer indicated to be plastered

9.15. Working in higher levels

- The work with the use of scaffolding will comply with safety requirements.
- An access ladder permitting safe access shall be available.
- Climbing off the end frames is prohibited unless their design incorporates an approved ladder.
- To permit get right of entry to the working platform on this manner, the ladder constructed into the give up frames can be used if uniform rung spacing among frames may be done.
- Tube frames that don't offer uniform rung spacing must be equipped with offset ladders for platform access.
- On scaffolds 6 feet (1.8 m) above the ground or floor, handrails, mid-rails, and toe-boards are to be installed and scaffolds completely decked.
- A safety net or safety harness shall be provided.

9.16. Curing

Curing for Plastering shall be done a minimum of 3 days with Potable water in each coat, Rush coat and final coat.

9.17. Safety

- A strict HSE policy will be implemented throughout the work duration.
- PAT Engineering recognizes the importance of safety on site and will strictly adhere to the approved safety requirements for working at the site.
- The risk assessment is attached herewith experienced and well-qualified safety personnel will be assigned to implement and control site Safety.

9.17.1. Safety Training

- Daily toolbox meetings will be held at the site.
- Work-specific training will be given to the personnel.
- All workmen will be informed about the nature and hazards involved in the complete scope of the job.
- Emergency drills will be conducted to test preparedness and response every six months.

9.17.2. Emergency Procedure & Communication at Site

- In the event of an accident, the incident alarm is activated.
- Alarm points are notified using various authentic methods such as runner messenger, mobile or telephone.
- These details will be communicated - the location of the incident, and the nature of the incident.
- On hearing the emergency alarm, all people shall vacate the workplace.
- Before leaving each person shall ensure that the area is as safe as possible by switching off the welding machine, gas cylinders, running machines etc.

	METHOD STATEMENT			Page 9 of 9
	Department Civil	Document Ref. No.	Issue Date	Revision 00

9.17.3. Area Lighting

- Area lighting aims to provide sufficient lighting for the personnel and equipment to move around and complete the work safely.
- The type of work to be carried out will determine the lighting requirements.

10.0. COMPLETION OF THE WORKS

The completed activity shall be raised with Request for Information (RFI) and Approved.

11.0. QUALITY ASSURANCE AND QUALITY CONTROL

- 11.1. Ensure that all materials to be used are approved materials.
- 11.2. Ensure that the required materials are approved by the consultant before the execution of work.
- 11.3. All work shall be carried out following the related method statement and approved by the consultant.
- 11.4. All manpower carrying out the works shall be adequately trained and equipped with the required PPE against the work hazards.
- 11.5. Required maintenance shall be done frequently to the works-related equipment.
- 11.6. All the formworks, reinforcement and embedded items shall be inspected and approved by the consultant.

12.0. APPENDICES

- 12.1. Appendix 1 -- Risk Assessment
- 12.2. 11.0 Bonding Agent (Rush Coat)
- 12.3. 12.0 Plastering Accessories