



**DALMIA CEMENT (B) LIMITED – CEMENT PLANT
DALMIAPURAM
CIVIL DEPARTMENT**



Issue No. 01	Rev. No: 00	Effective Date: 01.03.2016	SOP/CIVIL/11
Issued By:		Approved By: HOD (CIVIL)	
SOP FOR WEATHERING COURSE WORK			

Scope/Purpose : This SOP is applicable to Safe working for Weathering Course Work with Brick Tile/Pressed Tile.

Responsibility : Engineer – civil

Accountability : Deputy General Manager – civil

PPE:

1. Safety helmet,
2. Safety shoe,
3. Full body harness only while working at the edges of roof

Tools:

1. Masonry tools

Hazard Analysis:

Risks associated

- 1) Fall of a person while working at the edges of roof

Mitigating measures

- 1) Wearing full body harness while working at the edges

Training needs:

1. Safety pep talk for wearing PPE's and how to deploy labour for safe execution

Procedure:

1. Use Proper PPE & tools
2. Take proper work permit from civil dept as per the work condition.



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3. Before starting of work, civil department personnel should ensure that the specific area is safe enough/barricaded if required.
4. Before doing weathering course, the entire surface area shall be hacked, roughed and cleaned of all dust and other foreign matter. It shall then be wetted before applying the mortar.
5. Cement mortar with ratio 1:3 (1 cement : 3 fine sand) shall be spread in 12mm layer over the surface evenly to required slope.
6. Brick tile/pressed tile shall be soaked in water for at least an hour beforehand.
7. Brick tile/pressed tile shall be laid open jointed and flat on the mortar and lightly pressed, and set to plane surface true to required slopes using trowel and wooden straight edge.
8. The tiles shall be laid with their joints not more than 10 mm wide. They shall be laid with their longitudinal lines of joints truly parallel and horizontal and at right angles to the sloping edge of roof.
9. Transverse joints in alternate rows should come directly in line with one another. Transvers joints in adjacent courses shall not have distance by less than 50 mm.
10. As soon as the paving is done, the open joints shall be grouted with cement mortar 1:3 (1 cement : 3 fine sand). Also cement used for grouting mortar shall be mixed with 2% (by unit of cement) water proofing compound confirming to IS2645.
11. Care shall be taken to see that no joints are left unfilled or inadequately filled.
12. The joints shall be finished flush with the tile surface.
13. The tile paving shall be cured for at least 7 days during which period it shall be suitably protected from damage.

Emergency / Emergency Shut OFF:

1. If any leakage of gas or fall injury is there, First aid will be given and inform to the Safety department or Call Emergency number 222/9865155288.

Records/Annexure:

1. JSA is enclosed below.



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JOB SAFETY ANALYSIS:(JSA)

Job Safety Analysis	Job: Weathering Course	Date:	Analysis by:	Reviewed by:
Title of employee doing job: Contract labour	Supervisor: Section Engineer	Department: Civil	Section: Plant	Approved by:
Req'd/recommended PPE: Safety helmet, Safety shoe, full body harness only while working at the roof edge.				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Inspecting the site	Fall injury	Pep talk should be conducted to communicate safe & precautionary procedures	May fall while working along the roof edge	Wear full body harness while working along the roof edges & not to stand unnecessarily near the roof edge without any precaution.