



**DALMIA CEMENT (B) LIMITED – CEMENT PLANT
DALMIAPURAM
Production Department**



Issue No. 02	Rev. No: 01	Effective Date: 22.05.2015	SOP/Prod/25
Issued By: S & P		Approved By: Head – Production	
Procedure for Refractory work execution in Cooler			

Scope/Purpose : This procedure applicable for Refractory work execution in Cooler

Responsibility : Section Head (Production)

Accountability : HOD - Production

PPE:

1. Nose mask
2. Safety Shoes
3. Helmet
4. Goggles
5. Cotton gloves

Tools:

1. Wooden Hammer
2. Vibrating Machine
3. Trowel

Hazard Analysis:

Risks associated

Fall Injury due to brick

Mitigating Measures

Provided cotton gloves

Training needs:

1. Handling of bricks / Castables

Procedure

Only after 8 to 10 hours of stopping the kiln for brick lining repair, cleaning of clinker in the grates will be carried out.

After cleaning the clinker coating, inspection will be made by Section Head (Production) to assess the extent of brick lining damage.

The amount of damage will be assessed and then proposal for laying brick lining will be decided. Then the breaking of damaged brick lining will be started.

After estimating the quantum lining work, the respective quantity and quality of refractory bricks / castables required for new lining will be shifted from stack yard to the cooler premises.



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The broken bricks / castables from damaged lining will be cleared and transported to the directed place.

During the progress of lining, utmost care will be taken to avoid the following discrepancies.

- a) Looseness in the bricks.
- b) Deviation of bricks joints in both vertical and horizontal direction.
- c) If any coating is there in the brick to be laid, they should be thoroughly cleaned.
- d) For any slight deviation in the brick alignment in both the directions, the refractory mortar will be applied on the brick top to correct the same.
- e) For laying of castables instructions and procedures by the supplier will be followed

Material requisition will be sent to stores department, for the bricks that are used in the particular stoppage to update the stock position.

After verifying the stock position, new purchase request shall be raised for procuring the new bricks for next stoppage.

Emergency / Emergency Shut OFF:

1. If there is any emergency Call Emergency number 9865155664/ 9865155144/ 984243544/ 9842994072/9865165001/ 555/233

Records/Annexure:

1. Refer Log book.
2. JSA is enclosed below.

JOB SAFETY ANALYSIS: (JSA)

Job Safety Analysis	Job: Brick lining in Cooler	Date: 06.10.12	Analysis by:	Reviewed by:
Title of employee doing job: contract labour	Supervisor: Production incharge	Department: Production	Section:	Approved by:



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Req'd/recommended PPE: Safety shoes, goggles, ear plug, nose mask , Cotton gloves

Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Transporting of bricks from winch to platform	Hit Injury	Placing the bricks in pallet orderly in order avoid collapse of bricks while transporting using Hydraulic jack	Brick fell down may hit the person who is standing near by.	Walkway should not be block while brick transporting happen by hydraulic jack
Shuttering for Castable laying	Hit Injury	Proper Gap to be maintained bet. Old and new castings area.	Hand scratch while laying castable inside the shutter.	Cotton gloves to be wear before proceeding the castable work.

HOD PRODUCTION

HOD TECHNICAL