



DALMIA CEMENT (B) LIMITED – DALMIAPURAM



PRODUCTION DEPARTMENT

Issue No. 02	Rev. No: 01	Effective Date: 22.05.2015	SOP/PROD/16
Issued By: S & P		Approved By: Head – Production	
SOP FOR Brick Lining Execution in Preheater, Pre-Calculator- KHD & FLS			

SCOPE : Brick Lining Execution in Preheater, Pre-Calculator- KHD & FLS

RESPONSIBILITY : CCR executive.

Accountability : Section Head – Pyro.

PPE:

1. Safety goggles,
2. Safety helmet,
3. Safety shoe,
4. Mask,
5. Cotton Gloves.

TOOLS:

1. Poking bar,
2. Hammer.
3. Showel

Hazard:

Risks associated:

Mitigating Measures

Fall of tools;

Carry the tools in tool bags

Hit of Hammer in hand;

Trained to be engaged

Procedure:

Only after 24 hours of stopping the kiln for brick lining repair, Inspection will be made After inspection, if brick lining/ castable repair is to be carried out, dummy platform and scaffolding at various junction points will be erected.

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

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

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

Anchors required for castables / brick lining will be welded as required at site. Plates damaged, if any, will be replaced



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

- Looseness in the bricks.
- Deviation of bricks joints in both vertical and horizontal direction.
- If any coating is there in the brick to be laid, they should be thoroughly cleaned.
- 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.
- 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 new bricks for next stoppage.

Job Safety Analysis	Job: brick lining	Date: 01 – 09 - 2013	Analysis by: Section Incharge	Reviewed by: Section Head
Title of employee doing job:	Supervisor: Sec.Incharge	Department: Production	Section: Pyro	Approved by: Department Head
Req'd/recommended PPE:				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action



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Fall of Bricks	Hold the bricks properly while shifting	Transfer the bricks hand to hand not by throwing	Fallen bricks may hit the leg	Wear Safety shoe to avoid injury
Transfer of bricks	Sharp edges around the corner of the brick	Wear cotton gloves while shifting the bricks	Don't throw the bricks during transfer	Give hand to hand.
Mixing of castables	Hit injury while mixing castable with shovel	Wear safety shoe	Leg may slip due to water scattering while mixing with castable	Water to be drained out from the place once job completed

Emergency Shut- off:

1. In case of brick is fallen, the persons to be come out from the place.
2. If body injury is there, First aid will be given and inform to the Safety department or Call Emergency number 233/555/9865125176/9865177444.

Records/Annexure:

1. Refer Line clearance certificates.
2. JSA as enclosed below.

HOD PRODUCTION

HOD TECHNICAL