



## DALMIA CEMENT (B) LIMITED – ARIYALUR



### MECHANICAL SOP

Issue No. 01	Rev. No: 02	Effective Date: 17.10.2017	SOP/MEC/092
Issued By: M.R		Approved By: HOD Mechanical	
KILN HOOD Maintenance			

#### Scope:

This SOP is applicable for kiln hood maintenance safely.

**Responsibility** : Section Engineer – Mech

**Accountability** : Section head – Mech.

#### PPE:

1. Helmet,
2. Safety shoe,
3. Goggles
4. Gloves.
5. Nose mask
6. Full body harness.

#### Tools:

1. Spanner set
2. Hammer
3. Feeler gauge
4. Wire or nylon rope

#### Hazards:

##### Risks associated

1. Body injury
2. Leg injury
3. Hand injury

##### Mitigating Measures

1. Safe and tested tools and tackles
2. On job training



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#### Isolation matrix:

Sl: No	Activity	Description	Electrical Energy			Other Energy	
1	kiln hood maintenance	Name and Tag for the Equipment	Cooler all four drives	Cooler all fans (471FN1 to 471FN7)	(471CC1) Hammer crusher	Inlet air blasters Compressor air Valve to be Closed & locked	Air in the Header to be released
			Primary Air fan 481FN2&3	(461KL1) Kiln main drive	(461AD1) Kiln aux	Hydraulic line pressure to be made zero	
			(431MD1& MD2) Ph bucket elevator	Kiln (481BL1) and pc (451BL1) & Standby blowers	Preheater (441FN1) and ESP fan (471FN8)	Take out DG ISOLATION OR PROVIDE STOPPERS IN BETWEEN TYRE AND ROLLER	

### SOP FOR Maintenance of Kiln Hood

1. Take the line clearance with LOTO system
2. The line clearance paper should be with the person who is working in the site.
3. Take the confined work area with the relevant department and allow the people to work.
4. Use ppe's while working.
5. Open the hood door for checking the condition of the Hood roof.



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6. Provide staging arrangement for checking the hood roof.
7. Check the condition of the Roof joints for any welding crack. If so weld properly.
8. Check the condition of roof beams for any damage.
9. Check Hood condition for any castable damage. If so replace the castable.
10. Check sealing joints condition for proper functioning if not adjusts / replace the sealing joints.
11. After completion of all the maintenance activities take out all unwanted and scrap material from the area.
12. Clear the line clearance

#### **Emergency / Emergency Shut OFF:**

If any injury takes place, provide First aid and inform to the Safety department or Call Emergency number 3108/9865152222

#### **Records/Annexure:**

1. Refer Line clearance/permit in mech department.
2. JSA is enclosed below.

#### **JOB SAFETY ANALYSIS :( JSA)**



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<b>Job Safety Analysis</b>	Job: Kiln Hood Maintenance	Date: 1/09/2014	Analysis by: Section Engineer	Reviewed by: Section Head
Title of employee doing job: Section Engineer	Supervisor: Section Head	Department: Mech	Section: PYRO	Approved by: HOD-Mechanical

Req'd/ recommended PPE: Safety helmet, Safety shoe, Gloves, Goggles, Gloves, Nose mask & Full body harness

Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Opening of the kiln hood door & disconnection of coal & air pipe line.	Leg and hand injury	Use proper tools and tackles so that fasteners will not slip	Fasteners may slip and tools may hit to the hand and leg	Ensure Use/working condition of TOOLS AND TACKLES.
Taken out the kiln burner pipe outside & Provide walkway to kiln Outlet from kiln burner platform.	Leg, hand & body injury	Use proper tools and tackles so that fasteners will not slip	Fasteners may slip and tools may hit to the hand and leg & negligence or improper using of full body harness may lead to accident	Ensure Use/working condition of TOOLS AND TACKLES. Use full body harness with proper training.
Scaffolding for checking of roof if any replacement require do it.	Leg, hand & body injury	Use full body harness & Use proper tools and tackles so that fasteners will not slip	Fasteners may slip and tools may hit to the hand and leg & negligence or improper using of full body harness may lead to accident	Ensure Use/working condition of TOOLS AND TACKLES. Use full body harness with proper training.
Scaffolding for checking of roof if any replacement require do it.	Health injury & hand injury	Use goggles, nose mask & proper tools	Fines may injure the eye Sharp edges in the fastener may injure the fingers	Ensure Use of goggles & proper chipping tools or wire brush
Remove the platform & place the burner in position & connect the coal & air line connection	Leg, hand & body injury	Use proper tools and tackles so that fasteners will not slip	Fasteners may slip and tools may hit to the hand and leg & negligence or improper using of full body harness may lead to accident	Ensure Use/working condition of TOOLS AND TACKLES. Use full body harness with proper training.
Close the kiln hood door	Leg and hand injury	Use proper tools and tackles so that fasteners will not slip	Fasteners may slip and tools may hit to the hand and leg	Ensure Use/working condition of TOOLS AND TACKLES.