



# DALMIA CEMENT (B) LIMITED – ARIYALUR



## MECHANICAL SOP

Issue No. 01	Rev. No: 02	Effective Date:17/10/2017	SOP/MEC/088
Issued By: M.R		Approved By: HOD Mechanical.	
KILN SUPPORTING ROLLER MAINTENANCE			

### Scope:

This SOP is applicable for KILN SUPPORTING ROLLER MAINTENANCE

**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

### 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

### Isolation matrix:

Sl: No	Activity	Description	Electrical Energy			Other Energy	
1	kiln supporting roller check	Name and Tag for the Equipment					
				(461KL1 ) Kiln main drive	(461AD1 ) Kiln aux	Take out DG ISOLATION OR PROVIDE STOPPERS IN BETWEEN TYRE AND ROLLER	

### Procedure:



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**SOP for the Maintenance of Kiln supporting roller**

1. Take the line clearance with LOTO system
2. The line clearance paper should be with the people who is working in the site
3. Ensure cleanliness of the equipment and stoppers between tyre and roller before taking the job
4. Use proper personal protective equipments
5. Ensure proper tools and tackles
6. Remove top cover for the inspection of the buckets for oil flow.
7. Check the gap between the collar and liner.
8. Check all the internal fasteners for proper tightening.
9. Check the recirculation of the oil flow as well as leakages.
10. Check the water circulation of the system for any leakages.
11. Check and adjust the roller graphite block if need.
12. Check and replace end covers sealing if required.
13. Apply grease for the seals through grease nipples for better sealing.
14. Check oil sump if found sediments change total oil by thorough cleaning of the sump and bearing area.
15. Remove all unwanted scrap and spillage material from the area.
16. Cancel the line clearance for operation.

**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:**



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

#### JOB SAFETY ANALYSIS :( JSA)

<b>Job Safety Analysis</b>	Job: Kiln Support Roller Maintenance	Date: 20/07/2014	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 inspection door	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.
Internal check	Caught between	Use proper tools to avoid slip and caught.	Fingers may intact in between buckets, collar and cover	Ensure utmost care while checking the gap.
Close the door	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.