



# DALMIA CEMENT (B) LIMITED – ARIYALUR



## MECHANICAL SOP

Issue No. 01	Rev. No: 02	Effective Date: 17/10/2017	SOP/MEC/090
Issued By: M.R		Approved By: HOD Mechanical	
KILN TYRE MAINTENANCE			

### Scope:

This SOP is applicable for KILN TYRE 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
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

### Isolation matrix:

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



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**Procedure:**

**SOP FOR The Maintenance of Kiln Tyre**

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 work Permit with the relevant departments and allow the people to work.
4. Use ppe's while working.
5. Use stopper blocks between tyre and roller before taking the job.
6. Use scaffolding around the tyre for safe working.
7. After proper staging check all the chair plates of the tyre for wear and damage
8. Check the air gap of the tire and shell for maintaining allowable slip.
9. Check all the cylinders carefully including air hoses for any problem if so change or overhaul the cylinders for better functioning.
10. Arrange statging material if required or rotate the kiln in auxiliary drive for position of the cylinder.
11. Ensure proper tightness of all the cylinders and its accessories.
12. Remove all unwanted scrap from the area.
13. After completion clear the line clearance.



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### 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)

<b>Job Safety Analysis</b>	Job: KILN TYRE MAINTENANCE	Date: 01/09/2014	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
Providing life line over the tyre	Body and hand injury	Use proper tools and tackles so that person will not slip	person may slip and fall	Ensure Use/working condition of TOOLS AND TACKLES.
Tyre gap and condition of chair pads check	Head and body injury	Use proper protection of ppe to avoid direct fall	Person may slip and fall	Ensure utmost care while checking the tyre internals.
Removal of the life line	Body and hand injury	Use proper tools and tackles so that person will not slip	person may slip and fall	Ensure Use/working condition of TOOLS AND TACKLES.