



## DALMIA CEMENT (B) LIMITED – ARIYALUR



### MECHANICAL SOP

Issue No. 01	Rev. No: 02	Effective Date: 17.10.2017	SOP/MEC/087
Issued By: M.R		Approved By: HOD Mechanical	
PREHEATER			

#### Scope:

This SOP is applicable for Maintenance of Kiln inlet pneumatic air assembly.

**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



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#### Isolation matrix:

Sl: No	Activity	Description	Electrical Energy	Other Energy	
1	Kiln inlet pneumatic air assemble	Name and Tag for the Equipment	461KL1 Kiln main drive	Inlet Compressor air Valve to be Closed & locked	Air in the Header to be released
			461AD1 Kiln aux drive	Kiln DG clutch to be locked	

### SOP

1. Take the energy isolation permit as per the isolation matrix.
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. Close air line supply before taking the job. .
6. Ensure proper tools and tackles.



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7. Check coating material if any at inlet area to avoid flushing/dust emission.
8. Check all the cylinders carefully including air hoses for any problem if so change or overhaul the cylinders for better functioning.
9. Rotate the kiln in auxiliary drive/DG for position of the cylinder.
10. Ensure proper tightness of all the cylinders and its accessories.
11. Remove all unwanted scrap from the area.
12. After completion clear the line clearance.

### Emergency / Emergency Shut OFF:

1. If body injury is there, First aid will be given and inform to the Safety department or Call Emergency number 3108/9865152222.

### Records/Annexure:

1. Refer Line clearance/permit in mech department.

JSA is enclosed below



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### JOB SAFETY ANALYSIS :( JSA)

<b>Job Safety Analysis</b>	Job:	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
Removing of the pneumatic cylinder	Body injury	Compressor pressure to be made zero	With pressure if it open, Chance to hit the person and will be result in the injury where it hit	Ensure the pressure in the system is zero before start the work
Removing & assembly of the pneumatic cylinder	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.
Removing & fixing of the cylinder in the top	Leg and hand injury	Use full body harness in the height job	Person may fall from height	Ensure certified full body harness use