



DALMIA CEMENT (B) LIMITED – Dalmiapuram



MECHANICAL SOP

Issue No. 02

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Effective Date: 22.05.2015

SOP/MEC/13

Issued By: S & P

Approved By: Head – Mech

Inspection of the kiln and cooler during shutdown

SAFETY STANDARDS

On

Inspection of the kiln and cooler during shutdown

PREPARED BY

DCBL - DALMIAPURAM

Scope : This SOP is applicable to Safe Inspection of the kiln and cooler during Shut down

Responsibility : CCR executive & section engineer

Accountability : Section Head – Pyro.

PPE:

1. Goggles
2. Nose mask,
3. Helmet
4. Safety Shoe
5. Safety belt

Tools:

1. Box Spanner set
2. Ring Spanner set
3. Walk platform
4. Scaffolding pipes, clamps and scaffolding grits
5. Crow bars or Sharp edge pipes.
6. 24v halogen lamp.

Hazards:

Risks associated

Fall from height

Scaffolding pipe may slip

Scaffolding may collapse

Scaffolding clamp, grit may slip from hand

Mitigating Measures

Use Proper PPE's

Tie with rope.

Use proper clamps and check the tightness.

don't allow any person in downstream.

Training needs:

1. Fire fighting
2. Emergency preparedness
3. Air blaster operation
4. Confined space entry

Procedure:

1. Take proper work permit from the department.
2. Keep all the feed pipe flaps closed condition.
3. All Air blasters should be de-energized and residual air must be vent out and all airline valves must be closed fully without leakage.
4. Before entering in to the kiln, check all the cyclones. If there is any coating formation in any cyclone, remove the coating.
5. Check the oxygen level in the Kiln and cooler
6. Person who is going to inspect the cooler and kiln should be authorized from process dept.
7. If any abnormal coating inside the kiln, the coating to be removed before kiln inspection.
8. First-aid box should be available.
9. All first-aid medicines are to be readily available in the box.

Emergency / Emergency Shut OFF:

1. If burn injury is there, give First aid and inform to the Safety department or Call Emergency number 222/9865125176/9865177444. If any hose pipe got punctured or busted, then stop UT pump with the Emergency switch.

Records/Annexure:

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

JOB SAFETY ANALYSIS:(JSA)

Job Safety Analysis	Job: Inspection of kiln and cooler during shutdown	Date: 25 – 02 - 2013	Analysis by: Section Engineer	Reviewed by: Section Head
Title of employee doing job: Excutives, attendants.	Supervisor: Section Engineer	Department: Production	Section: PYRO	Approved by: Department Head

Req'd/recommended PPE: Safety helmet, Safety shoe, Mask, safety goggles & Asbestos Gloves.

Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Put on PPE	Dust emission	Check the cyclones before entering.	Coating may collapse from cyclones.	Inspect all cyclones before entering in to kiln, if there is any coating remove the coating.
Close the Feed pipe flap	Failure of feed pipe hanging.	Ensure the feed pipe flap closed properly.	When flap hanging failure Material accumulation on flap will fall.	Close the flap properly.
Entering in to the kiln	Material may flush from cyclones	Check all pre heater cyclones and raiser ducts before entering in to the kiln.	If there is any coating accumulation in the cyclone, it may collapse.	Clear the coating or accumulation before entering in to the kiln.
Approach for kiln	Scaffolding may collapse	Make scaffolding as per DCBL standard.	Scaffolding may collapse	Cross check the scaffolding as per the standard.
	Scaffolding pipe may slip	Tie the pipe with nylon rope to avoid the pipe fall	Scaffolding pipe may hit the person	Hazards to be explain to the workers through PEP talk.
Inspection of the kiln	Coating may collapse inside the kiln	If the coating is abnormal, remove the coating with experts then only inspect.	Coating may fall on the person	Check the coating thickness, how strong it is. if it is weak, remove the coating and check the kiln.

HEAD MECHANICAL

HEAD TECHNICAL