



DALMIA CEMENT (B) LIMITED – DALMIAPURAM



MECHANICAL DEPARTMENT

Issue No. 02	Rev. No: 01	Effective Date: 22.05.2015	SOP/MECH/11
Issued By: S & P		Approved By: Head – Mech	
SOP for Safety Systems			

SCOPE	:	Safety Systems
RESPONSIBILITY	:	Section heads
Accountability	:	Department Heads- Plant maintenance

PPE:

1. Safety goggles,
2. Safety helmet,
3. Safety shoe,
4. Mask,
5. Cotton Gloves.
6. Safety harness(Full body)

TOOLS:

1. Spanners set.
2. Lifting tools & tackles.

Hazard:

Risks associated:

Fall from height,

Fall of tools;

Hit of Hammer in hand;

Mitigating Measures

Use of safety harness

Carry the tools in tool bags

trained to be engaged

Procedure:

1. Calibrate all safety instruments at frequency recommended by the supplier
2. Ensure only trained employees are deployed for job
3. Ensure supplier recommendation is followed for safety instruments specification
4. Ensure LOTO for working on process equipments
5. Ensure confined space work permit is taken when required to work in confined space
6. Follow DCBL standard is followed when work at height
7. Ensure scaffoldings are installed and used as per DCBL standard



DALMIA CEMENT (B) LIMITED – DALMIAPURAM



MECHANICAL DEPARTMENT

Issue No. 02	Rev. No: 01	Effective Date: 22.05.2015	SOP/MECH/11
Issued By: S & P		Approved By: Head – Mech	
SOP for Safety Systems			

8. Check all safety interlocks once in fort night
9. Check over load relay current setting of all motors once in fort night
10. Ensure pull chord switches, belt sway switches, zero speed switches & motor over loads are working properly
11. Ensure proper working of all analyzers and calibrate at frequency recommended by supplier
12. Ensure all fitting tools& tackles are tested and certified by competent person.
13. Ensure all pressure vessels are tested and certified by competent person for use
14. Ensure boot level sensor is working properly in bucket elevators
15. Ensure oil flow /pressure switch is working properly in all critical gearboxes
16. Ensure metal detectors are working properly on belt conveyors by physical y feeding
17. Ensure tramp metal separators are working properly on belt conveyors
18. Ensure all bearing RTD's are calibrated once in six months during shutdown
19. Ensure proper working of on line vibration monitors
20. Ensure proper working of CO analyzers and calibrate once in three months
21. Ensure travel limit switches are working properly
22. Ensure proper working of hopper/ silo level sensors by physical measurement and calibrate if required
23. Ensure passenger lifts are tested and certified for use once in six months
24. Any modification in the plant should have approval of safety department
25. Ensure approved SOP is followed for all the jobs
26. Ensure emergency preparedness plan is available for

Emergency Shut- off:

1. In case of belt is moving, Emergency pull chord switch should be activated by the person.
2. If body injury is there, First aid w0ill be given and inform to the Safety department or Call Emergency number 222/555/9865125176/9865177444.



DALMIA CEMENT (B) LIMITED – DALMIAPURAM



MECHANICAL DEPARTMENT

Issue No. 02	Rev. No: 01	Effective Date: 22.05.2015	SOP/MECH/11
Issued By: S & P		Approved By: Head – Mech	
SOP for Safety Systems			

Records/Annexure:

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

Job Safety Analysis	Job: Belt Discharge chute cleaning	Date: 25 – 01 - 2013	Analysis by: Section Engineer	Reviewed by: Section Head
Title of employee doing job:	Supervisor: Sec.Engr	Department: Mechanical	Section: all sections	Approved by: Department Head
Req'd/recommended PPE:				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Working at Height	Fall from height	Follow work at height SOP	Not following procedure	Ensure SOP is followed before work is started
Working on electrical driven equipment	Electrical shock / accidental start of equipment	Follow LOTO	Not adhering to standard	Ensure LOTO before starting job.
Using lifting tools & tackles	Fall from height/ hit injury to body parts	Ensure certified tools & tackles are used. Don't over load	Overloading	Ensure lifting tools are not overloaded
Usage of hand tools	Injury to fingers / hands	Follow SOP for safe usage of hand tools	Not following SOP	Ensure right tools are used right job in right method

HEAD MECHANICAL

HEAD TECHNICAL