



**DALMIA CEMENT (B) LIMITED – CEMENT PLANT
DALMIAPURAM
PRODUCTION DEPARTMENT**



Issue No. 02	Rev. No: 01	Effective Date: 22.05.2015	SOP/PROD/22
Issued By: S & P		Approved By: Head – Production	
SOP FOR CLEANING OF LOOSE MATERIAL FROM AIR SLIDE/ELEVATOR /BH			

SCOPE : This SOP is applicable to safe cleaning of the loose material in elevator, airslide and Bag house.

1. RESPONSIBILITY : HOD – Production.

2. AUTHORITY : Process department

PPE:

1. Safety helmet,
2. Safety shoe,
3. Mask.
4. Asbestos Gloves.

Tools:

1. Hammer
2. Box Spanner set
3. Ring Spanner set
4. Material Cleaning tools

Hazards:

Risks associated

- Injury

Mitigating Measures

Give Tool Box talk before Doing the job.

Training needs:

1. Emergency preparedness



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Procedure:

Air slide cleaning

- Use Proper PPE's.
- Use proper tools.
- Take Proper work permit.
- Before cleaning, material temp should be checked. Material temp should be less than 50 degc.
- Work should be performed under skilled supervision.
- Open the top door of the air slide. Check how much amount jam in air slide. Try to push the material towards next air slide by hammering or by air lancing.
- If there is any coating or lumps formation in the air slide Inform to the concern section head.
- If material enter in to the air chamber, inform to section head for further action.

Bag house Chamber cleaning

- Use Proper PPE's.
- Use proper tools.
- Take Proper work permit.
- Proper ventilation should be there.
- 24 V voltage supply should be used, Proper illumination should be there.
- Before cleaning, material temp should be checked. Material temp should be less than 50 degc.
- Work should be performed under skilled supervision.
- Before opening the compartment door, Inlet and outlet doors of the particular chamber to be Isolated.
- Rotary air lock should be Isolated from the operation.



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Bucket elevator boot cleaning

1. Use Proper PPE's.
2. Use proper tools.
3. Take Proper work permit.
4. Before cleaning, material temp should be checked. Material temp should be less than 50 degc.
5. Work should be performed under skilled supervision.
6. Open the bottom door and clean the material, Check the discharge end chute. If there is any blockage clear it.
7. Cleaned material can be pouring in to the belt reject belt conveyer or Air slide.
8. Before starting the auxiliary drive, close all the Inspection doors.

Emergency / Emergency Shut OFF:

1. If burn injury is there, give First aid and inform to the Safety department or Call Emergency number 233/555/9865125176/9865177444.
2. If any hose pipe got punctured or busted, then stop UT pump with the Emergency switch.

Records/Annexure:

1. Isolation matrix
2. JSA as enclosed below.



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JOB SAFETY ANALYSIS:(JSA)

Job Safety Analysis	Job:	Date: 01.11.2013	Analysis by:Section incharge	Reviewed by: Section head
Title of employee doing job: contract	Supervisor: section incharge	Department: Process	Section: raw mil , flyash, cement	Approved by: Dept Head
Req'd/recommended PPE: Safety helmet, Safety shoe, Mask & Gloves.				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Opening of the Air slide inspection door	Dust may come to eyes	Before opening the Inspection door close the Aeration valve.	Aeration valve may be faulty	Check the aeration valves condition as per suppliers recommendation
Cleaning the air slide jam	Hot material may fall	Check the material temp before doing the job, Use compressor hose pipe for cleaning.	Compressor air pipe burst	Check the compressor pipe condition, Tightness of compressor line with socket.
Bucket elevator bottom door opening	Material may flush	Don't stand in front of the door, Don't open all the bolts keep one or two bolts.	Material may flush	Use Proper PPE's , Tool box talk before doing the job.
Starting the Auxiliary drive	Hand Injury	Don't put hands while running with auxiliary drive.	Persons may put hand while auxiliary running	Keep watch person this type of activity.
Closing the Inlet and Outlet damper for the bag house chamber	Hand Injury	Use proper tools to close the dampers. check the wheel condition before operation	Wheel may fall	Check the wheel condition before operation.
Material cleaning inside the chamber	Dust emission, fall of person	Use proper PPE's before entering in to the chamber, Close the RA fan dampers.	Leakages in the dampers	Check the leakages every shut down.

HOD PRODUCTION

HOD TECHNICAL



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