



DALMIA CEMENT (B) LIMITED – ARIYALUR
MECHANICAL SOP



Issue No. 01	Rev. No: 02	Effective Date: 17.10.2017	SOP/MEC/012
Issued By: M.R		Approved By: HOD-Mechanical	

REMOVAL OF BAGS FALLS INTO HOPPER.

Scope: To remove the fallen bags from dust collector hopper

Responsibility: Engineer/SH

PPE:

1. Safety helmet
2. Safety shoe
3. Mask
4. Safety goggles
5. Gloves

TOOLS:

1. spanner set
2. 24v lamp

Hazard Analysis:

Risks associated:

Excessive temperature

Dust emission

Mitigating Measures

Use Apron

control the damper and while fan is running

Procedure:

- a. Stop the RAL and take work permit as per LOTO standard
- b. Use PPE'S while working.
- c. Open the hopper manual door and remove the bag.
- d. If it is not accessible then remove the Rotary air lock.
- e. For removal of RAL remove all the top and bottom flange bolts of rotary air lock.
- f. Then cover the rotary air lock from their sides in order to arrest the spillage and dust.
- g. Offset the rotary air lock and try to remove the bag. If it is struck rotate the motor fan shaft slowly and remove it.
- h. After removing the bag check for its condition. If it is OK then open the top hood cover.
- i. Find out the spot from where the bag fell down.
- j. After spotting, lift the cage and fix the bag on to it and position it inside the hole.
- k. Keep purging air lines in position.



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- l. If it is (bag) damaged then use the spare bag.**
- m. If spare is not available then keep a dummy plate in the bags position do that the bag filter efficiency will not reduce.**
- n. Clear the work permit and inform to the CCR**

Emergency Shut- off:

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

Records/Annexure:

JSA is enclosed below.

Isolation Matrix.



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JOB SAFETY ANALYSIS :(JSA)

Job Safety Analysis	Job: Replacement of Bags fallen into hopper	Date: 01 – 06 - 2012	Analysis by	Reviewed by:
Title of employee doing job : Section engineer	Supervisor: Section In charge	Department: Mech	Section:	Approved by:
Reqd./recommended PPE's : Safety Helmet, Safety shoe, Hand Gloves, Safety goggles. Nose mask.				

Sl.No	Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What could go wrong	Corrective action
1	Opening the manual door	Occupational illness	Ensure that hopper should be empty, If the material full door should open from one side only	Spillage of material	Deploy skilled persons/Confirm to Loto standards
2	Removal of RAL	Injury	RAL all bolts to be removed except two bolts and turn it from one side	Slippage of tools /RAL	Use tested chain blocks and visual inspection of tools before use
3	Removal of Bag	Hand injury	Use proper tools to remove. Do not put hand directly	Hand may injured in between vanes	Deploy skilled persons/Confirm to Loto standards



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Isolation matrix :

S L N o	Activity				Tag / Name of the Equipment	
					Isolation Type	
					Electrical Energy	Other Energy

RAW MILL BAG HOUSE INSPECTION (OFF LINE INSPECTION)	NAME AND TAG FOR THE EQUIPMENT	421FN1 RAW MILL BAG HOUSE FAN	361LD3 BY- PASS DUCT DAMPER IN CLOSED CONDITION	361FN3 RAW MILL FAN	POPPET DAMPERS COMPRESSOR COMMON AIR LINE VALVE TO BE CLOSED
		421FN2 REVERSE AIR FAN	BAG HOUSE BOTTOM ROTARY AIR LOCK		