



DALMIA CEMENT (B) LIMITED –DPM



MECHANICAL SOP

Issue No. 03	Rev. No: 00	Effective Date: 01.08.2016	SOP/MEC/
Issued By: M.R		Approved By: HOD (MECH)	
SOP for Fine coal bin bottom gate closing			

Scope:

This SOP is applicable for Fine coal bin bottom gate closing safely.

Responsibility : Section Engineer – Mech

Accountability : Section head – Mech

PPE:

1. Helmet,
2. Safety shoe,
3. Goggles
4. Gloves.
5. Nose mask

Tools:

1. Spanner set
2. Hammer
3. Chain pulley blocks
4. Hydraulic Jack and accessories

Hazards:

Risks associated

1. Fall of Material from Bin
2. Body injury
3. Leg injury
4. Hand injury

Mitigating Measures

1. Safe and tested tools and tackles
2. On job training



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Isolation matrix:

1. Energy Isolation of bin extraction System –Agitator Drive, screw conveyor etc.,
2. Mechanical Isolation/Closing of Pneumatic Gates of Coal Bin Extraction system.

Procedure:

1. Take proper work permit and Energy Isolation Permit as per work standards.
2. Ensure Energy Lockout, Tag out, Tryout have done properly.
3. Dismantle the belt guard/Cover.
4. Check bin bottom gate position and its screw Jack arrangement (If any) supports for closing.
5. Ensure gate guide ways are clean and no obstacles.
6. Fix chain block/Hydraulic Jack (if necessary) arrangement for closing the gate.
7. Ensure tools are fitted/installed properly.
8. Close the gate by Screw Jack/Chain pulley block / Hydraulic Jack properly.
9. Ensure gate is closed properly.
10. Close the guard/cover.
11. Clear the work permit and inform to section Engineer/Section Head.

Emergency Shut- off:

1. In case of parts are moving, Emergency switch should be activated by the person.
2. If body injury is there, First aid will be given and inform to the Safety department or Call Emergency number 555/222/9865155288.

Records/Annexure:

1. Refer Line clearance/permit in mech department.
2. JSA is enclosed below.



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JOB SAFETY ANALYSIS :(JSA)

Job Safety Analysis	Job:	Date:	Analysis by:	Reviewed by:
Title of employee doing job: Section Engineer	Supervisor: Section Head	Department: Mech	Section: PYRO	Approved by:
Req'd/ recommended PPE: Safety helmet, Safety shoe, Gloves, Goggles, Gloves& Nose mask				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Installation of gate closing tools Chain pulley blocks/Hydraulic jack	Hand, leg injury	Use proper tools and tackles	Person may get Fall/slip of tools From while handling	Ensure job training on tools and tackles usage
Closing bin bottom gate	hand & body injury by loaded chain blocks/hydraulic jack	Ensure tools are fitted properly and not getting over loaded	Slip/Sudden release of Chain blocks /hydraulic jacks getting overloaded.	Ensure Skilled persons/job training on tools and tackles.