



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 Coriolis System Multicore Drive belt Inspection and Changing			

Scope:

This SOP is applicable for Coriolis System Agitator Hopper Internal Inspection 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. Torch light

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 Coriolis System –Agitator Drive, Multicore, Multi Cell
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 Multicore above feeding system/Gate is closed/OFF.
3. Dismantle the belt guard/Cover.
4. Inspect belt condition as per OEM/suppliers catalogue instructions.
5. If required replace the belt by releasing belt tension.
6. Install new belt and check proper tension by OEM/supplier catalogue instructions.
7. Ensure Tension bolts are tightened properly.
8. Close the guard/cover.
9. 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.

JOB SAFETY ANALYSIS :(JSA)



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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
Dismantling Of Inspection Door.	Sudden Fall of Material From Bin	Ensure Inlet/Feed Gates are in closed condition	Surge of material from bin and falling on working personnel	Ensure EIP and feeding systems are off/closed.
Replacing Belt	hand & body injury	Ensure LOTO before doing Inspection	If Multicore getting ON and Rotate, injury will Happen to person.	Ensure Proper Energy Isolation Matrix followed.
Tensioning of belt	hand & body injury	Use proper tensioning tools as per suppliers catalogue	Tools/Spanners may get slip and injure the body	Ensure proper PPE's