



MECHANICAL SOP

Issue No. 02	Rev. No: 01	Effective Date: 22.05.2015	SOP/MEC/20
Issued By: S & P		Approved By: Head – Mech	
ROTARY AIR LOCK Maintenance			

ROTARY AIR LOCK MAINTENANCE

Scope: To repair the Rotary Air Lock of Bag filter

Responsibility: Maintenance Technician

Accountability: Mechanical-Section Engineer

PPE:

1. Safety helmet
2. Safety shoe
3. Mask

TOOLS:

1. Required Tools

Hazard Analysis:

Risks associated:

Mitigating Measures

Rotation of the Equipment

Electrical Hazard;

Can be operated from remote

Engagement of clutch:

Inter lock to be ensured

Training needs:

1. Usage of tools and Nature of Hazards
2. Usage of PPEs

Procedure:

1. Emptying the bag filter bottom conical hopper and stopping the bag filter fan
2. Line clearance to be taken for main Drive bag filter fan.
3. Disengagement of drive coupling and switch off the power.
4. Dismantling of the end covers.
5. Dismantling of the rotor with vanes and shaft.
6. Repair of the rotor impeller and vanes adjustment and replacement of bearings.
7. Lubrication of the shaft bearings.
8. Sealing of the end covers with appropriate with proper packing's.
9. Engaging the coupling and lubricating the geared unit.
10. Reposition of the Rotary air lock and returning the line clearance.



DALMIA CEMENT (B) LIMITED – Dalmiapuram



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Emergency / Emergency Shut OFF:

1. If any injury is there, and inform to the Security Havildar / safety department or call Emergency number 555 / 222 / 523/9865177444

Records/Annexure:

1. Rotary Air lock maintenance procedure
2. JSA is enclosed below.

JOB SAFETY ANALYSIS:(JSA)

Job Safety Analysis	Job: Rotary Air lock maint.	Date: 01.01.2013	Analysis by: SECTION ENGINEER	Reviewed by: SECTION HEAD
Title of employee doing job:	Supervisor: Section Supervisor	Department: Mechanical	Section: Plant	Approved by: HOD
Req'd/recommended PPE: Safety helmet, Safety shoe, & Safety belt.				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Emptying the hopper	Burn injury	With suction fan run the airlock and confirm the empty hopper	Material spread out	To ensure the empty hopper visually
Remove rotor with vans	Hit injury	Proper chain block arrangements	Usage of Improper arrangements	Ensure the proper arrangements

HEAD MECHANICAL

HEAD TECHNICAL