



## DALMIA CEMENT (B) LIMITED – ARIYALUR



### MECHANICAL SOP

Issue No. 01	Rev. No: 02	Effective Date: 17.10.2017	SOP/MEC/078
Issued By: M.R		Approved By: MECHANICAL HOD	
SOP FOR MAINTENANCE OF MAGNETIC SEPARATOR			

**Scope: Maintenance of Magnetic Separator**

**Responsibility: Section Engineer**

**Accountability: Mechanical-Section Incharge**

**PPE:**

1. Safety helmet,
2. Safety shoe,
3. Hand gloves.

**TOOLS:**

1. Box spanner set.
2. Ring spanner set.
3. Adjustable Spanner

**Hazard Analysis:**

<b>Risks associated</b>	<b>: Mitigating Measures</b>
<b>Body Injury</b>	<b>: Use proper tools and tackles</b>

### **SOP for Maintenance of Magnetic Separator**

1. Take the line clearance. Use LOTO system
2. The line clearance paper should be with the people who are working in the site.
3. Use ppe's while working
4. Loose pulley tension bolts
5. Check the condition of Aluminum angle and replace if required
6. Grease the pulley bearings based on the condition
7. Check the condition of tyre coupling and change the tyre if required
8. Check the geared motor oil level and open the inspection door , check the condition of gears



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9. Check the condition of belt and change if required
10. Remove old belt manually.
11. Fix the new Belt and Fix the aluminum angle
12. Give proper tension to the pulley.
13. Clear the shutdown.
14. Take trial in local.
15. Take trial by putting metal piece to check the operation efficiency of magnetic separator

### Emergency / Emergency Shut OFF:

1. If any injury takes place, provide First aid and inform to the Safety department or Call Emergency number 3108/9865152222

### Records/Annexure:

1. Refer Line clearance certificates.
2. JSA as enclosed below

SL No	Activity			Isolation Matrix for Utility & General Equipment.						
				Isolation Type						
				Electrical Energy			Other Energy			
7	<b>Magnetic separator Maintenance</b>	Name and Tag for the Equipment		Magnetic separator drive	DC supply for Magnet		Locking of tyre coupling			



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<b>Job Safety Analysis</b>	Job: Maintenance of magnetic separator	Date: 01/09/2014	Analysis by: Section Engineer	Reviewed by : Section Head
Title of employee doing job: Engineer	Supervisor: Section Incharge	Department: Mechanical.	Section: Pyro. & Cement Mills	Approved by: HOD Mech.
Req'd/recommended PPE:				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Loosening of pulley tension bolts	Hand Injury	Use proper Spanners and note the direction for loosening	Tools / Spanners may slip	Ensure proper tools & tackles in usage
Replacement of aluminium angle	Body injury	Remove the angle safely by proper supports	Angle May Fall	Proper Barricading to be done and Watch Persons to be provided
Replacement of Belt	Body injury	Use Proper tools and remove belts by proper nylon ropes	Belt may fall	Stay aside of belt removal area and carry out the job and barricade the area