



## DALMIA CEMENT (B) LIMITED – ARIYALUR



### MECHANICAL SOP

Issue No. 01	Rev. No: 02	Effective Date: 17.10.2017	SOP/MEC/112
Issued By: M.R		Approved By: HOD Mechanical	
GYPSUM SCRAPER MAINTENANCE			

**Scope:** Gypsum Scraper Maintenance

**Responsibility:** Shift Fitter

**Accountability:** Mechanical-Section Engineer / Shift Engineer

**PPE:**

1. Safety helmet.
2. Safety shoe.
3. Nose Mask.
4. Hand Gloves.
5. Safety Goggles.

**TOOLS:**

1. Box spanner set
2. Ring spanner set
3. Oil can.
4. Sling & D Shackle.
5. Chain block – 2 Ton

**Hazard Analysis:**

**Risks associated**

Body injury  
Cut injury

**Mitigating Measures**

Safe and health tools and tackles  
Safe and health tools and tackles

**SOP for the Gypsum Scraper Maintenance**

1. Take Line clearance for hydraulic pumps.
2. Use PPE's while working.
3. Provide the safety barrier.
4. Organize all required tools & tackles.
5. Take safety work permit from the safety officer.
6. Drain out oil from the pipe line & refill it into the tank to reduce the oil spill.



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7. Make proper plate form and stopper to hold scraper boom assembly.
8. Any material spillage is there clean & put it inside the circuit.
9. Inspect the hose line s & hydraulic cylinders.
10. While unscrewing the nut of hose pipe cares to be taken for avoid the oil spill.
11. If any damage is their replace the same.
12. After installation please check the tightness.
13. Clear the Line clearance, Return the work permit.
14. Check the truck tippler operation.

#### Emergency / Emergency Shut OFF:

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

#### Records/Annexure:

1. Refer Line clearance in Process department.
2. JSA is enclosed below.

SL No	Activity				Tag / Name of the Equipment						
					Isolation Type						
					Electrical Energy				Other Energy		
1.	Gypsum scraper	Name and Tag for the Equipment	Hydraulic Scraper								



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<b>Job Safety Analysis</b>	Job: Gypsum scraper Maintenance	Date: 01 – 09 - 2014	Analysis by: Section Engineer	Reviewed by: Section Head
Title of employee doing job: Shift fitter	Supervisor: Shift Engineer / Section Engineer	Department: Operation / Mechanical	Section: Gypsum Hydraulic Scraper	Approved by: HOD – Mechanical.

Req'd/recommended PPE: Safety helmet, Safety shoe, Safety goggles & Cotton hand Gloves.

Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Loosening the Hyd. Pipeline joint	Hand injury	Use proper spanners only to avoid slip / shear of bolt and nut during tightening	Spanners may slip and chance to fall bolt may shear / cut during load	Use correct size and condition of spanner
While Changing the Hydraulic pipeline Nipple/Hose	Leg injury / Sprain	Put the Oil can at the bottom of the pipeline	Due to oil spillage, person leg will slip	Clean the spillage oil
Positioning the chain block & sling, While replacing the cylinder	Leg and hand injury	Use correct lifting Tackles Teflon/wire rope slings	Chain block may slip and fall while removing and inserting the belt	1. Check the condition of the ropes and slings 2. Check the correct size of slings to operate/actual capacity and ensure certificate of clearance.
Tightening the Hyd. Pipeline	Hand injury	Use proper spanners only to avoid slip / shear of bolt and nut during tightening	Spanners may slip and chance to fall bolt may shear / cut during load	Use correct size and condition of spanner