



## DALMIA CEMENT (B) LIMITED – ARIYALUR

### MECHANICAL SOP

Issue No. 02	Rev. No: 00	Effective Date: 01.11.2019	SOP/MEC/079
Issued By: M.R		Approved By: MECHANICAL HOD	
SOP FOR HYDRULIC PUMP/UNIT MAINTENANCE			

**Scope: Replacement of Rail / Roller for the DPC**

**Responsibility: Section Engineer**

**Accountability: Mechanical-Section IN charge**

**PPE:**

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

**TOOLS:**

1. Box spanner set.
2. Ring spanner set.

#### **Hazard Analysis:**

Risks associated	: Mitigating Measures
Body Injury	: Use proper tools and tackles

#### **SOP for Hydraulic Pump Maintenance**

1. Take the line clearance. Use LOTO system
2. The line clearance paper should be with the person who is working in the site.
3. Use ppe's while working
4. Close inlet valve.
5. Remove inlet/out let pipe connections.
6. Remove pump foundation bolts.
7. Remove pump coupling lock grub screw.
8. Remove coupling. Replace new pump.



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9. Fixed the coupling and lock with grub screw.
10. Fix the foundation bolt & align the pump.
11. Connect all pipe line connection and open the in let valve.
12. Take trial in local for building up of pressure.

#### 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			
	<b>Hydraulic Pump Maintenance</b>	Name and Tag for the Equipment	Hydraulic Pump					Oil Pressure to be Made to zero			



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<b>Job Safety Analysis</b>	Job: Hydraulic Pump Unit Maintenance	Date: 01/09/2014	Analysis by: Section Engineer	Reviewed by : Section Head
Title of employee doing job: Engineer	Supervisor: Section IN charge	Department: Mechanical.	Section: Pyro. & Cement Mills	Approved by: HOD Mech.
Required/recommended PPE:				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Remove the safety guards	Leg injury	Use proper tools Lifting tools	Tools / Guard may slip	Ensure proper tools & tackles in usage
Remove inlet/out let pipe connections	Hand Injury	Use proper tools	Tools May slip	Ensure proper tools & tackles in usage with Proper Grip
Coupling Removal by puller	Hand Injury	Use Proper Puller and Proper Hydraulic Jack	Puller May got Broken and jack may fail	Use skilled and Standard Hydraulic Jacks