



## DALMIA CEMENT (B) LIMITED – ARIYALUR



### MECHANICAL SOP

Issue No. 01	Rev. No: 00	Effective Date: 06.04.2018	SOP/MEC/153
Issued By: M.R		Approved By: HOD Mechanical	
SOP - JSA for Installation of Standby pump for Tension Hydraulic System			

**Scope: Installation of Standby pump for Tension Hydraulic System**

**Responsibility: Section Engineer**

**Accountability: Mechanical-Section In charge.**

**PPE:**

1. Safety helmet,
2. Safety shoe,
3. Hand glove
4. Goggles

**TOOLS:**

1. Box spanner set.
2. Ring spanner set.
3. Sponge or Cotton waste to clean the spillage oil.

**Hazard Analysis:**

**Risks associated: : Mitigating Measures**

**Oil Splash : Normalize (Zero) the line pressure of the Hydraulic System**

### **SOP for Standby pump for Tension Hydraulic System**

- a. Attain & ensure EIP for Tension Hydraulic Main Pump
- b. Empty out the Hydraulic Line pressure & Tank of the system
- c. Disconnect the Existing Pump & pipe lines
- d. Clean the Tank Thoroughly.
- e. Pour some water in tank to avoid fire during cutting operation for making provision to connect the new pump.
- f. Fix the tank with Pipe & flange.
- g. Clean the tank free from Debris.
- h. Drain out the water poured for safety purpose.



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- i. Clean the tank with Oil (with Same grade oil for operation).
- j. Fix the Valve at Tank for Pump inlet. ( new pump erection & commission activity can be taken during Mill operation with Main pump.
- k. Pump outlet one NRV installed, for avoiding the back pressure of any pump running condition
- l. Fill the oil in the system Clear for mill operation.
- m. Fix the Pump & Motor Take trail in Mil stop condition.
- n. While operation mill trip on hydraulic pump issue , option provided IN CCR operator select the pump .

#### 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 N O	Activity	Isolation Matrix for Utility & General Equipment.		
		Isolation Type		
			Electrical Energy	Other Energy



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7	Changeover of Standby pump for Tension Hydraulic System	Name and Tag for the Equipment	Tension Hydraulic Pump. 561HP1	De- Pressurize the Line pressure & Empty out the Oil Tank before start the work.
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Job Safety Analysis	Job: Standby Pump installation for Tension Hydraulic System	Date: 06/04/2018	Analysis by: Section Engineer	Reviewed by : Section Head
Title of employee doing job: Engineer	Supervisor:	Department: Mechanical.	Section: 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
Disconnect the Exiting Pump.	Oil Splash	Ensure De-pressurize the system before start the work.	Oil Leakage	Ensure / Avoid spillage. If oil spillage Clean with sponge or Cloth.
Empty pout the Tank	Oil spillage	Use Proper Tools, Like pump, Tray & Cans Etc	Spillage on floor	Take Esteem care to avoid Oil spill, If spills Clean it with Sponge or Cloth immediately & dispose in proper way @ Scrap



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Gas cutting @ Tank to make provision for pump	Fire Hazard	Clean the tank after Empty out & fill some water before start Gas / any Cutting process	Ignition of fire	Keep the "B"Type Fire Extinguisher near by & at easy accessible are
Debris in Tank	Contaminate the oil for operation	Clean it with Magnet & ensure totally cleared	Fine debris & other contaminates in the tank	Clean the tank with new oil will be use for operation.