



**MECHANICAL SOP**

Issue No. 02	Rev. No: 01	Effective Date: 22.05.2015	SOP/MEC/36
Issued By: S & P		Approved By: Head - Mech	
REPLACEMENT OF FLUID COUPLING			

**Scope:** To replace the fluid coupling

**Responsibility:** Engineer/SH

**PPE:**

1. Safety helmet
2. Safety shoe
3. Safety goggles
4. Gloves

**TOOLS:**

- 1 Spanner set
- 2 Sling
- 3 Hand gloves
- 4 Oil can

**Hazard Analysis:**

**Risks associated:**

**Fall of Coupling**

**Fall of tools,**

**Mitigating Measures**

**Use correct methods to remove**

**Carry the tools in tool bags**

**Procedure:-**

- a. Take LOTO permit
- b. The LOTO Permit should be with the person who is working in the site
- c. Use PPE'S while working.
- d. Open the coupling guard.
- e. Provide the required packing support to coupling.
- f. Tie the coupling with Sling.
- g. Open the Multidisc assembly bolts.
- h. Take out the multidisc along with bushes.
- i. Open the bolts of resilient disc.
- j. Take out the fluid coupling.



## DALMIA CEMENT (B) LIMITED – Dalmiapuram



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- k. Lift the new coupling & fix it.
- l. Fix the Resilient disc bolts.
- m. Fix the Multidisc along with bolts & bushes.
- n. Tighten bolts of resilient disc & Multidisc.
- o. Rotate coupling to ensure free movement.
- p. Open the oil filling plug ( any one of 2nos).
- q. Fill the oil with recommended grade
- r. Check the oil level
- s. Tighten the oil filling plug with "O" ring.
- t. Fix the coupling guard & ensure guard should not touch to shafts.
- u. Return the LOTO Permit

#### **Emergency Shut- off:**

If body injury is there, First aid will be given and inform to the Safety department or Call Emergency number - 222/9865125176/9865177444.

#### **Records/Annexure:**

Refer LOTO standards/permit & JSA is enclosed below.



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### JOB SAFETY ANALYSIS :( JSA)

<b>Job Safety Analysis</b>		Job: Cooler water spray nozzle cleaning	Date: 01 – 06 - 2012	Analysis by SECTION ENGINEER	Reviewed by: SECTION HEAD
Title of employee doing job : Section engineer		Supervisor: Section Engineer	Department: Mechanical	Section:	Approved by: HOD
Reqd./recommended PPE’s : Safety Helmet, Safet shoe, Hand Gloves, Safety goggles. Nose mask.					
Sl. No	Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What could go wrong	Corrective action
1	Removal of Drive guard	Major Injury	Use proper PPE	Slip/fall of guard	Allot trained workers
2	Removal of Coupling	Major Injury	Make proper arrangement & Use proper tools	Slip/fall	Allot trained workers.
3	Fixing of new coupling	Major Injury	Use proper tools	Slip/fall	Allot trained workers.

HEAD MECHANICAL

HEAD TECHNICAL