



MECHANICAL SOP

Issue No. 01	Rev. No: 02	Effective Date:17.10.2017	SOP/MEC/045
Issued By: M.R		Approved By: HOD-Mechanical	

SOP FOR REPLACEMENT OF FLUID COUPLING (PEMBRIL MAKE

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.
- k. Lift the new coupling & fix it.



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- 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 / Emergency Shut OFF:

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

Records/Annexure:

Refer LOTO standards/permit & JSA is enclosed below.

JOB SAFETY ANALYSIS :(JSA)

Job Safety Analysis		Job: Cooler water spray nozzle cleaning	Date: 01/09/2014	Analysis by: Section Engineer	Analysis by: Section Engineer
Title of employee doing job : Section engineer		Supervisor: Section Engineer	Department: Mechanical	Section: All	Approved by: HOD-Mechanical
Reqd./recommended PPE's : Safety Helmet, Safety 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.



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SL No	Activity			Tag / Name of the Equipment				Isolation Type			
				Electrical Energy				Other Energy			
1	Fluid coupling replacement - SILO FEED BE	Name and Tag for the Equipment	391MD1 SILO FEED BELT ELEVATOR DRIVE	391FN4 AIRSLIDE BLOWER							
2	Fluid coupling replacement - REJECT BE	Name and Tag for the Equipment	361MD1 REJECT CHAIN ELEVATOR DRIVE	361BC1 -MILL REJECT BELT	331BC1-MILL FEED BELT						