# **Dalmia**

# DALMIA CEMENT (B) LIMITED - ARIYALUR



# **MECHANICAL SOP**

SOP/MEC/039 **Rev. No: 02** Issue No. 01 **Effective Date: 17.10.2017 Approved By: HOD-Mechanical Issued By: M.R** 

**PACKER** 

Scope: REPLACEMENT OF PACKER SPOUT IMPELLER

**Responsibility: Engineer** 

Accountability: Section Incharge Mechanical.

PPE:

1. Safety helmet,

2. Safety shoe,

3. Mask.

4. Gloves – Cotton knitted

5. Ear Plug

6. Safety belt

7. Goggles

#### **TOOLS:**

1. Box spanner set.

2. Ring spanner set.

#### **Hazard Analysis:**

Risks associated: **Mitigating Measures** 

**Dust emission** Use Nose Make, Goggles & Ear Plug.

**Tool Slip** Use appropriate tools.

#### REPLACEMENT OF PACKER SPOUT IMPELLER

- 1. Take the packer position at maintenance platform.
- 2. Take the LOTO for the specified packer.
- 3. Ensure to usage of PPE'S tools and tackles and dust mask where ever required.
- 4. Remove the impeller assembly guard and V belts.
- 5. Remove the impeller box cover and clean the cement inside to box.



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- 6. Remove the impeller from casing and check the condition of impeller.
- 7. If any damage or cracks of impeller, Replace the impeller and tight to locking bolts.
- 8. Fix to cover, V- belt and give to belt tension.
- 9. Fix the V belt guard.
- 10. Clear the line clearance and take trail run.

## **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



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# **Job Safety Analysis:**

Job Safety Analysis	Job: Replacement of Packer spouts impeller.	Date: 01/09/2014	Analysis by: Section Engineer	Reviewed by: Section Head
Title of employee doing job: <b>Fitter</b>	Supervisor: Section Engineer (Mech.)	Department:  Mechanical	Section: Packing Plant	Approved by: HOD-Mechanical

# Req'd /recommended PPE:

Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Remove the impeller cover to empty out cement.	Dust emission	Used PPE's	Nose Mask damage.	Periodic replacement.
Remove the belt guard	Body injury	Use proper tools and tackles with certification	Tools may slip	Periodic Inspect the condition of tools.

SL No	Activity		Isolation Matrix for Packing Plant  Isolation Type				
			Electrical Energy			Other Energy	
1	Truck loader maintenance	Name and Tag for the Equipment	Main panel				Air line