



## DALMIA CEMENT (B) LIMITED – ARIYALUR



### MECHANICAL SOP

Issue No. 01	Rev. No: 02	Effective Date: 17.10.2017	SOP/MEC/029
Issued By: M.R		Approved By: HOD-Mechanical.	
SOP-JSA for Truck Loader Feed Drum Motor Replacement			

**Scope:** Truck loader Feed Drum Motor replacement

**Responsibility:** Engineer

**Accountability:** Mechanical - Section Incharge

**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.
3. Chain pulley block.

**Hazard Analysis:**

Risks associated:

Mitigating Measures

Dust emission

Use Nose Make, Goggles & Ear Plug.

**REPLACEMENT OF TRUCK LOADER FEED BELT DRUM MOTOR:**

1. Position the truck loader Inclined/feed/loading belt as required position.
2. Take the line clearance for the truck loader.
3. The line clearance paper should be with the person who is working in the site.
4. Use PPE'S while working.



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5. Ensure proper uses of PPE'S tools and tackles.
6. Remove the drum motor connections.
7. Remove the locking arrangement of drum motor.
8. Fix the chain block for removing of drum.
9. Fix the new drum motor and align the drum motor with respect to Inclined/feed/loading belt.
10. Fix the locking arrangement of drum motor.
11. Realign and ensure the level in drum motor.
12. Give the electrical connection and clear the line clearance.
13. Take the trial run without load at local mode and take current load.

#### 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:

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

Req'd /recommended PPE:

<b>Sequence of Basic Job Steps</b>	<b>Potential Hazards</b>	<b>Recommended Safe Job Procedure</b>	<b>What Could Go Wrong</b>	<b>Corrective Action</b>
Removing / Fixing the locking arrangement.	Hand injury.	Use appropriate tools.	Worker may use screw wrench spanner to remove the locking arrangement and result in injury.	Use the recommended D – Spanner or Ring spanner.
Make chain block arrangement.	Hand or Leg injury.	Select the appropriate chain block.	Failure of Chain Pulley block.	According to the weight of the drum motor chain block should be select.
1) Removing/Fixing the Drum motor from conveyor belt.	Hand or leg injury.	Use proper removing and lifting technique.	Drum motor may slip from the sling.	1) Job should be done by the trained person. 2) Chain block should be fixed in correct position.