



DALMIA CEMENT (B) LIMITED – ARIYALUR



MECHANICAL SOP

Issue No. 01	Rev. No: 02	Effective Date: 17.10.2017	SOP/MEC/027
Issued By: M.R		Approved By: HOD-Mechanical	
SOP-JSA for Replacement of Truck Loader Extraction and Retraction Drive chain			

Scope: Truck Loader Extraction & Retraction drive chain 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.

Hazard Analysis:

Risks associated:

Mitigating Measures

Dust emission

Use Nose Make, Goggles & Ear Plug.

Tool Slip

Use appropriate tools.

REPLACEMENT OF TRUCK LOADER EXTRACTION AND RETRACTION DRIVE CHAIN:

1. Take the extraction and retraction drive chain position.
2. Take the line clearance of truck loader.
3. Ensure to usage of PPE and dust mask where ever required.
4. Release the tension of chain by loosening the jack bolt.
5. Remove the master link of chain and dismantled the chain from sprocket.



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- Align the gear box sprocket and drive shaft sprocket and fix the new chain to master link...
- Ensure the alignment of both sprockets and give the tensioning chain.
- Clear the line clearance and take trial run.

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 Line clearance certificates.
- Isolation Matrix
- JSA as enclosed below

SL No	Activity		Isolation Matrix for Truck loader							
			Isolation Type							
			Electrical Energy				Other Energy			
1	Truck loader chain replacement	Name and Tag for the Equipment	Truck loader machine drives	Cross conveyor drive						



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Job Safety Analysis:

Job Safety Analysis	Job: Replacement of Truck loader Extraction & retraction drive chain	Date: 01/09/2014	Analysis by: Section Engineer	Reviewed by: Section Head
Title of employee doing job: Fitter	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
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.
Removing/Fixing the chain from conveyor belt.	Hand or leg injury.	Use proper removing and technique.	chain may slip from the sling.	1) Job should be done by the trained person. 2) Chain should be fixed in correct position.
Chain removing / fixing on sprocket	Fingers injury	Ensure the sprocket & chain position	Finger struck between chain & sprocket	Take care of fingers at nip points