



DALMIA CEMENT (B) LIMITED – ARIYALUR



MECHANICAL SOP

Issue No. 01	Rev. No: 02	Effective Date: 17.10.2017	SOP/MEC/081
Issued By: M.R		Approved By: HOD Mechanical	
SOP FORMAINTENANCE OF SPILLAGE CONVEYOR			

Scope: Spillage conveyor Maintenance

Responsibility: Shift Fitter

Accountability: Mechanical-Section Engineer / Shift Engineer

PPE:

1. Safety helmet.
2. Safety shoe.
3. Nose Mask.
4. Hand Gloves.
5. Safety Goggles

TOOLS:

1. Box spanner set
2. Ring spanner set
3. Tool Bag
4. Shovel (MANVETTY)
5. Torch light / Hand Lamp.

Hazard Analysis:

Risks associated

Body injury
Cut injury

Mitigating Measures

Safe and health tools and tackles
Safe and health tools and tackles

SOP for maintenance of spillage conveyor

1. Take the line clearance. Use LOTO system
2. The line clearance paper should be with the person who is working in the site.
3. Use ppe's while working



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4. Loose the chain from tail sprocket side.
5. Fix the chain on sprocket if derail it.
6. Remove the bucket if it got bend.
7. Re fix the new bucket.(if bucket replaced)
8. Ensure bucket both end fixed parallel.
9. Tighten the bolt with spanner.
10. Give proper tension to the chain.
11. Remove all scarp or M.S. scrap if generated.
12. Clear the shut down.
13. Take the trial and align the chain.

Emergency / Emergency Shut OFF:

1. If body injury is there, First aid will be given and inform to the Safety department or Call Emergency number 3108/9865152222

Records/Annexure:

1. Refer Line clearance in Process department.
2. JSA is enclosed below.



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SL No	Activity			Tag / Name of the Equipment							
				Isolation Type							
				Electrical Energy				Other Energy			
1.	Additive Apron feeder	Name and Tag for the Equipment		L11 AF1	L11 SX1						
1.	Coal Apron feeder	Name and Tag for the Equipment		321 AF1	321 SX1						

Job Safety Analysis	Job: Spillage conveyor Maintenance	Date: 01 – 09 - 2014	Analysis by: Section Engineer	Reviewed by: Section Head
Title of employee doing job: Shift fitter	Supervisor: Shift Engineer / Section Engineer	Department: Operation / Mechanical	Section: Spillage Conveyor	Approved by: HOD - Mechanical

Req'd/recommended PPE: Safety helmet, Safety shoe, Safety goggles & Cotton hand Gloves.



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Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Remove the safety guards	Leg injury	Use proper tools Lifting tools	Tools / Guard may slip	Ensure proper tools & tackles in usage
Loosening the Take up unit	Hand injury	Use proper spanners only to avoid slip / shear of bolt and nut during tightening	Spanners may slip and chance to fall bolt may shear / cut during load	Use correct size and condition of spanner
Cutting the bolt nut of the chain bucket	Body injury	Use only proper regulators and flashback arrestors to ensure safe operation.	Hose burn cutting torch melting	Check the condition of regulators and flashback arrestors
Changing the bucket	Hand injury	Use Proper tools for changing the bucket	Bucket may slip	Ensure proper tools & tackles in usage
Tightening the Take up unit	Hand injury	Use proper spanners only to avoid slip / shear of bolt and nut during tightening	Spanners may slip and chance to fall bolt may shear / cut during load	Use correct size and condition of spanner
Fixing the safety guard	Leg injury	Use proper tools Lifting tools	Tools / Guard may slip	Ensure proper tools & tackles in usage