



DALMIA CEMENT (B) LIMITED – ARIYALUR

MECHANICAL SOP

Issue No. 02	Rev. No: 00	Effective Date: 1.11.2019	SOP/MEC/026
Issued By: M.R		Approved By: HOD-Mechanical	
SOP-JSA for Empty Bag Conveyor Chain Link Replacement			

Scope: Replacement of Chain Link of Empty Bag Conveyor

Responsibility: Section 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. Local stop key.
4. Grease gun.

Hazard Analysis:

Risks associated:

Mitigating Measures

Dust emission

Use Nose Make, Goggles & Ear Plug.

Tool slip

Use appropriate tools

REPLACEMENT OF CHAIN LINK OF EMPTY BAG CONVEYOR

- a) Line clearance of empty bag conveyor to be taken.
- b) Inspect the conveyor chain, where it has been disconnected.
- c) Loosen the tensioning screw of the chain.
- d) Inspect all the turning points of the conveyor for jamming.



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- e) Disconnect one link where it has broken.
- f) Pull the broken area of chain to one junction point with manila rope / wire rope.
- g) Join the new link at the broken area and connect with the other end of the chain.
- h) Tighten the tensioning screw as per the requirement.
- i) Check the sprocket and chain in tacking at the drive unit.
- j) Lubricate all the bearings of the chain and apply grease at the turning point to avoid friction at turning points.
- k) Line clearance to be cleared and trial to be taken.
- l) Check the load of the motor. If found O.K system can be started.

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: Empty Bag Conveyor Chain Link Replacement.	Date: 01/09/2014	Analysis by: Section Engineer	Reviewed by: Section Head
Title of employee doing job: Engineer	Supervisor: Section Incharge (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
Tension screw loosen	Tools Slip / Hand injury	Loosen all the 4 tension Screws with appropriate tools	Spring may fail	Loosen gradually.
Disconnect the broken link.	Hand injury	Use correct tool to disconnect the link	Fingers may get trapped	Worker must work with caution
Pull the broken area to one junction	Hand Injury	Tight the rope to the broken side and pull	Rope may fail	Use standard ropes
Replace the new chain link.	Hand Injury	Fix the new link and tighten it	Fingers may get trapped	Worker must work with caution