



DALMIA CEMENT (B) LIMITED – ARIYALUR



MECHANICAL SOP

Issue No. 01	Rev. No: 02	Effective Date: 17.10.2017	SOP/MEC/028
Issued By: M.R		Approved By: HOD-Mechanical.	
SOP-JSA for Replacement of Bucket, Bush, Roller in Apron Conveyor			

Scope: Replacement of Bucket, Bush, Roller in apron conveyor

Responsibility: Mechanical-Section Engineer

Accountability: Mechanical-Section Head

PPE:

1. Safety helmet.
2. Safety shoe.

TOOLS:

1. Box spanner set.
2. Ring spanner set.
3. Allen key set.
4. Wire rope slings.
5. Chain block.
6. Manila / Nylon rope.
7. Pipe.
8. Local stop Key.

Hazard Analysis:

Risks associated:

Mitigating Measures

Heavy Material

: Use of Chain blocks & Ropes

SOP FOR REPLACEMENT OF BUCKET, BUSH, ROLLER FOR APRON CONVEYOR

- a. Take line clearance of the equipment.
- b. The line clearance paper should be with person who is working in site.
- c. Use PPE'S while working.
- d. Clearing / emptying the apron conveyor.
- e. Clearing the material from the buckets, Roller and other parts of the conveyor.
- f. Locking the chain from top and bottom to arresting the movement of the chain.
- g. Inspect the conveyor buckets, bushes and rollers for the area of damage.



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- h. Release the locking after making the arrangement to positioning the buckets to the
- i. Top area.
- j. Lock the chain at approachable location.
- k. Dismantle the damaged buckets/rollers/bushes.
- l. Replace the new rollers/bushes/buckets.
- m. Release the tensioning arrangement of the chain.
- n. Check the tightness of the new /old buckets.
- o. Tension/ tightness of the chain as per the requirement.
- p. Clear the line clearance and trial to be take local mode without load, check the current load.
- q. System can be restart through sequence mode.

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

Job Safety Analysis	Job: Replacement of Bucket, Bush, Roller in apron	Date: 01/09/2014	Analysis by: Section Engineer.	Reviewed by: Section Head.
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	conveyor			
Title of employee doing job: Section Engineer (Mech.)	Supervisor: Section Head (Mech.)	Department: Mechanical	Section: Crusher ; RMH	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
Loosening of chain	Spanner may slip	Ensure the proper spanner to be used.	Person may injured (Hand injury).	Use suitable spanner and fixed properly and ensure hand not slippery.
Locking of the chain	Chain block may fall down	Rope Sling should be in good condition.	Person may injured	Use proper tools & skilled manpower
Bucket , Bush, Roller replacement	Material may fall down	Use Suitable tools to handle (Chain Block, slings, etc...)	Fingers trap	Take care of fingers at nip points
Release the Tension of chain	Chain may fall down suddenly	Release chain block slowly.	Person may injured (Hand injury)	Release chain block safely
Tensioning of chain	Spanner may slip	Ensure the proper spanner to be used.	Person may injured (Hand injury).	Use suitable spanner and fixed properly and ensure hand not slippery.