



DALMIA CEMENT (B) LIMITED – DPM



MECHANICAL SOP

Issue No. 02	Rev. No: 01	Effective Date: 22.05.2015	SOP/MEC/44
Issued By: S & P		Approved By: Head- Mech	

CIRCULAR / COAL / ADDITIVE RECLAIMER CHAIN CONVEYOR LINK / CHAIN / BUCKET REPLACEMENT.

Scope: To replace chain bucket of Reclaimer

Responsibility: Engineer/SH

PPE:

1. Safety helmet
2. Safety shoe
3. Mask
4. Safety goggles
5. Gloves

TOOLS:

1. spanner set
2. Tensioning tool
3. Crowbar
4. Lamp
5. Hydraulic pusher

Hazard Analysis:

Risks associated:

Mitigating Measures

Fall of material

lock the chain with chain block/ turn buckle

Procedure:

- a. Position the damaged portion of the link/chain/bucket.
- b. Stop the Reclaimer chain drive and take the work permit as per LOTO standards.
- c. Use PPE'S while working.
- d. Loose the tensioning arrangement of the conveyor.
- e. Fix and hold the scraper bucket with chain block before dismantling.
- f. Dismantle the damaged bucket / pin / chain with hydraulic pusher & chain block.
- g. Fix the new pins / chain / bucket with the hydraulic pusher & chain block.
- h. Tension the chain as per the requirement.
- i. Check & tight all the fasteners with lock nut to the specified torque level.
- j. Tack weld the bucket fasteners and ensure that the locking 'G' clips are intact.
- k. Direct earth cable is to be fixed with job while doing welding any parts.



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- l. Fix and ensure all the safety guards are fixed before taking trail run.
- m. Clear LOTO & permit
- n. Lubricate the chain & Ensure all links & buckets are in condition.

Emergency Shut- off:

1. In case of belt is moving, Emergency pull chord switch should be activated by the person.
2. If body injury is there, First aid will be given and inform to the Safety department or Call Emergency number 233/555/9865125176/9865177444.

Records/Annexure:

JOB SAFETY ANALYSIS :(JSA)

Job Safety Analysis		Job: Reclaimer chain bucket replacement.	Date: 01/01/2013	Analysis by: SECTION ENGINEER	Reviewed by: SECTION HEAD
Title of employee doing job : Section engineer		Supervisor: Section Engineer	Department: Mechanical	Section:	Approved by: GM-MECH
Reqd./recommended PPE's : Safety Helmet, Safety shoe, Hand Gloves, Safety goggles. Nose mask.					
Sl. No	Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What could go wrong	Corrective action
1	Removal of Bucket	Hand Injury	Ensure equipment not in tension.	Slip/fall of bucket	Hold with proper arrangement.
2	Removal of Pin	Hand injury	Use proper tools	Struck of hand	Competent person to perform.
3	Tensioning of chain	Injury	Release tension & apply LOTO	Mechanically may struck up /tension	Release the same with proper tools before start.
4	Tack weld the bucket fasteners	Electrocution	Proper direct earthing to the equipment Use of leather hand gloves		



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BUCKET REPLACEMENT.**

RMH Isolation Matrix								
SL No	Activity		Isolation Type					
			Electrical Energy			Other Energy		
1	Circular reclaimer maintenance	Name and Tag for the Equipment	reclaimer harrow drive	scraper chain drive	circular traveling drive	chain tensioning device pump pressure to be made zero and pump to be locked		

HEAD MECHANICAL

HEAD TECHNICAL