

DALMIA CEMENT (B) LIMITED – CEMENT PLANT DALMIAPURAM MECH DEPARTMENT



Issue No. 01 Rev. No: 00 Effective Date: 01.03.2016 SOP/MECH/55

Issued By: S.P Approved By: HOD (MECH)

SOP FOR SCRAPER CONVEYOR TAIL SHAFT REPLACEMENT

Scope/Purpose: This SOP is applicable to Safe working for Scraper conveyor tail shaft replacement

Responsibility : Engineer – Mech

Accountability : Dept.HOD / Site Engineer

PPE:

- 1. Safety helmet,
- 2. Safety shoes,
- 3. Safety Harness
- 4. Goggles

Tools:

- 1. Electrically Operated Trolley Crane
- 2. Wire rope slings
- 3. Chain pulley block
- 4. Spanners of various sizes
- 5. Hammer

6.

Hazard Analysis:

Risks associated Mitigating Measures

Fall from height Use certified scaffold from competent person
Fall of material Use trained workmen and tested tools and tackles

Training needs:

- 1. Usage of tools & PPE
- 2. Heavy lifting
- 3. Hydraulic cylinder usage



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Procedure:

- 1. Use Proper PPE & tools
- 2. Take proper Line clearance of Apron feeder and wobbler from concerned dept. as per the work condition.
- 3. Loosen the tension rod screw of tail shaft making chain loose.
- 4. Remove the shackle from chain making chain into two halves.
- 5. Remove the shaft from the conveyor.
- 6. Hold the existing tail shaft on chain pulley block and remove it from the conveyor
- 7. Insert the new tail shaft assembly and connect the tension screw with the bearing
- 8. Fix the chain and shackle along with chain
- 9. Tighten the tension screw in order to obtain appropriate tension

Emergency / Emergency Shut OFF:

1. If cut or fall injury is there, First aid should be given and Safety department to be informed. Call Emergency number 222/516/523/9865177444/9865195111.

Records/Annexure:

- 1. Refer Scraper conveyor tail shaft replacement schedule
- 2. Hazard identification sheet is enclosed below.



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Hazard Identification:

Hazard Identification	Job: scraper conveyor tail shaft replacement	Date:	Analysis by: Mech dept.	Reviewed by: Safety dept.
Title of employee doing job: Company workmen	Supervisor: Section Engineer	Department: Mech	Section: Plant	Approved by: Unit Head
Req'd/recommended PPE: Safety helmet, Safety shoes, Safety belt, & Goggles				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Erection of scaffolding from conveyor to rotor bottom	Slip / fall	Use proper scaffold approved by competent person	Slip / fall	Trained person to be engaged
Tying the wire rope sling to the grinding path Hydraulic jack usage for	Untested tools taken for usage/damaged tools/failure of lifting material & exceed SWL	Tested tools to be mandatory use at site Physical condition of tools to be verified before taken into use by line engineers Proper fixing of lifting tools with considering load carrying capacity. Check condition of	Fall of material Oil burstage/jack	1. Test certificates of tools to be ensured 2. Validity of test certificate to be verified 3. Trained persons to be engaged Hyd. jack inspection due date to be
removing and inserting the pin	Jack/hose burstage/slipping of jack from position	jack/ensure hose healthiness/tie jack with rigid support before giving load	slip and fall	verified. Ensure workmen not very close to the working area during jack load condition