



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



Issue No. 01	Rev. No: 00	Effective Date: 01.03.2016	SOP/MECH/59
Issued By: S.P		Approved By: HOD (MECH)	
SOP FOR WOBBLER GUIDE ROLLER REPLACEMENT			

Scope/Purpose : This SOP is applicable to Safe working for Wobbler guide roller 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. Hydraulic jack
6. Hammer

Hazard Analysis:

Risks associated

Fall of material
Burstage of hydraulic hose

Mitigating Measures

Use trained workmen and tested tools and tackles
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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 crusher, wobbler and 21NBC1 belt conveyor from concerned dept. as per the work condition.
3. Open the side cover and top cover plate of oil chamber
4. Lock the wobbler shafts by welding MS flat on the face of sprocket.
5. Unscrew the housing bolts of worn out wobbler idler
6. Hang two chain pulley blocks at both ends of shaft inside wobbler casing.
7. Hold the sprocket end of wobbler shaft with EOT crane.
8. With the help of hoist and 2 chain pulley blocks drag the shaft outside.
9. Insert the new shaft in same manner and fix housing bolts.

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. Hazard identification sheet is enclosed below.



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Hazard Identification:

Hazard Identification	Job: wobbler guide roller 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
Tying the wire rope sling to the wobbler shaft	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.	Fall of material	1. Test certificates of tools to be ensured 2. Validity of test certificate to be verified 3. Trained persons to be engaged
Hydraulic jack usage for removing and inserting the roller shaft	Failure of hyd. Jack/hose burstage/slipping of jack from position	Check condition of jack/ensure hose healthiness/tie jack with rigid support before giving load	Oil burstage/jack slip and fall	Hyd. jack inspection due date to be verified. Ensure workmen not very close to the working area during jack load condition