



DALMIA CEMENT (B) LIMITED – ARIYALUR



MECHANICAL

Issue No. 02	Rev. No: 00	Effective Date: 01.11.2019	SOP/MEC/174
Issued By: M.R		Approved By: HOD-Mechanical	
SOP-Circular reclaimerscraper chain gear box output seal replacement work			

Scope: Circular reclaimer scrapper Chain gear box Output seal replacement work

Responsibility: Section Engineer

Accountability: Mechanical-Section In charge

PPE:

1. Safety helmet.
2. Safety shoe.
3. Hand gloves.
4. Nose Mask.
5. Safety goggles.

TOOLS:

1. Box spanner set.
2. Ring spanner set.
3. Hammer.

Hazard Analysis:

Risks associated:

: Mitigating Measures

Body injury

: Safe and health tools and tackles

Cut injury

: Safe and health tools and tackles



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SOP FOR Circular reclaimerscraper chain gear box output seal replacement work

1. Take the line clearance with LOTO system
2. The work Permit and line clearance paper should be with the person who is working in the site.
3. Ensure cleanliness of the equipment before taking the job
4. Use proper personal protective equipment's
5. Ensure proper tools and tackles
6. Check the condition of gearbox seal and Visual inspection for general physical condition for wear and tear.
7. The remove the oil from the gearbox.
8. The remove the motor from its existing location by using Hydra.
9. The gear box hold by using chain block
10. The shrink disk remove from its position
11. The gearbox removes from its position by using 50MT jockey puller and shifting the gear box by using hydra.
12. The gearbox flange remove then old oil seal remove its position.
13. The new oil seal fitting its position
14. The flange fitting in gear box its position.
15. The gear box and motor fix it position and shrink disk fixed.
16. The oil filling the gear box for Servo mesh 460 oil
17. Clear the work permit and the Line clearance and take trial.



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Emergency / Emergency Shut OFF:

1. If body injury is there, First aid will be given and inform to the Safety department or Call Emergency number 3108/9865152222

Records/Annexure:

1. Refer Circular reclaimer scrapper chain gear box output seal replacement work
2. JSA is enclosed below.

Emergency / Emergency Shut OFF:

SL No	Activity			Isolation Matrix for Utility & General Equipment.							
				Isolation Type							
				Electrical Energy				Other Energy			
1	Circular reclaimer	Name and Tag for the Equipment	Drive for the Equipment								



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Job Safety Analysis	Job:	Date: 15.03.2016	Analysis by: Section Engineer	Reviewed by : Section Head
Title of employee doing job: Engineer	Supervisor: Section Incharge	Department: Mechanical.	Section: RMH	Approved by: HOD Mech.

Req'd/recommended PPE:

Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Removal of gearbox locking pin,motor while Changing the oil seal	Body injury	Use proper spanners only to avoid slip	Spanners may slip and chance to fall	Use correct size and condition of spanner
Removing the old oil seal	Body injury	Use hand gloves & shoes to avoid the injuries	Material may slip and chance to fall	Use Correct PPE'S
Fixing the gear box locking pin,motor while Changing the oil seal	Body injury	Use proper spanners only to avoid slip	Spanners may slip and chance to fall	Use correct size and condition of spanner