



MECHANICAL

Issue No. 02 Rev. No: 00 Effective Date: 01.11.2019 SOP/MEC/183

Issued By: M.R Approved By: HOD-Mechanical

SOP FOR REPLACEMENT OF MILL MAIN GEAR BOX LUB PUMP

Scope : This SOP is applicable to Safe replacement of mill main gear box lub

pump

Responsibility : Section Engineer - Mech
Accountability : Section Manager - Mech

PPE:

1. Safety Helmet,

2. Safety steel toe shoe,

3. Hand Gloves Cotton/Leather

4. Safety goggles.

5. Nose mask.

Tools:

1. Spanner set

2. Nylon rope

Hazards:

Risks associated Mitigating Measures

Body injury Safe and health tools and tackles Cut injury Safe and health tools and tackles Caught in-between Safe and health tools and tackles

Training needs:

- 1. Emergency preparedness
- 2. work procedure
- 3. Dismantling & Assembly procedure

Isolation Required:

- LOTO for Main drive and lub pump
- Local valve isolation for oil inlet and outlet

Procedure:





MECHANICAL

Issue No. 02 Rev. No: 00 Effective Date: 01.11.2019 SOP/MEC/183

Issued By: M.R Approved By: HOD-Mechanical

SOP FOR REPLACEMENT OF MILL MAIN GEAR BOX LUB PUMP

- 1. Attain General work permit.
- 2. Use LOTO system
- 3. Permits and line clearance paper should be with the people who are working in the site.
- 4. Use PPE's while working
- 5. Take the LOTO for main drive / lub pump/ local isolation for oil inlet and outlet
- 6. Drain the oil and water on the pipe line
- 7. Remove the inlet and outlet pipe flange on the pump
- 8. Dismantle the motor and pump
- 9. Check the condition for spider
- 10. Replace the old pump with new one
- 11. Fix the inlet and outlet pipe flange with the pump
- 12. Fix the pump with motor and the tight the base bolt
- 13. Remove the LOTO and remove the valve lock
- 14. Take trail and check the pump out let pressure below 4 bar

Emergency / Emergency Shut OFF:

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

Records/Annexure:





MECHANICAL

Issued By: M.R Approved By: HOD-Mechanical

SOP FOR REPLACEMENT OF MILL MAIN GEAR BOX LUB PUMP

1. JSA is enclosed below.

2. Isolation Matrix.

Caught in between

JOB SAFETY ANALYSIS: (JSA)

Job Safety Analysis	Job: REPLACEM ENT OF MILL MAIN GEAR BOX LUB PUMP	Date: 08 – 04 - 2020	Analysis by Section Engineer	Reviewed by: Section Head
Title of employee doing job : Section engineer	Supervisor: Section Engineer	Department: Mech	Section: KVRM	Approved by: HOD-Mechanical
Reqd./recommended PPE's: Safety Helmet, Safety shoe, Hand Gloves, Safety goggles. Nose mask.				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action

Leg injury

First lock the two

rotors with

stoppers

Stoppers may be

in damage

condition.

Check the

stoppers

condition of





MECHANICAL

Issued By: M.R Approved By: HOD-Mechanical

SOP FOR REPLACEMENT OF MILL MAIN GEAR BOX LUB PUMP

SL No	Activity	Isolation Type					
				Other Energy			
		Electr	rical Er				
1		Tag /Name	Mill main drive L41MD1	LUB PUMP L21LP1	OIL INLET VALVE	OIL OUT LET VALVE	
		of the Equipment					