DalmiaBHARAT CEMENT

DALMIA CEMENT (B) LIMITED - Ariyalur

MECHANICAL SOP

Issue No. 02 Rev. No: 00 Effective Date: 01.11.2019 SOP/MEC/164

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

SOP-JSA for MAINTENANCE OF GRINIDING AID PUMPS

SCOPE: MAINTENANCE OF GRINDING AID PUMPS

Responsibility: Section Engineer

Accountability: Mechanical - Section In charge

PPE:

1. Safety helmet,

- 2. Safety shoe,
- 3. Mask.
- 4. Gloves Cotton knitted
- 5. Ear Plug
- 6. Goggles

TOOLS:

- 1. Box spanner set.
- 2. Ring spanner set.
- 3. Local stop key.
- 4. Grease gun.

Hazard Analysis:

Risks associated: Mitigating Measures

Water spillage appropriate P P E's.

Tool slip Use appropriate tools

PROCEDURE:

- 1. Take the LOTO for pump and remove the electrical connection.
- 2. Clean the outer surface thoroughly.
- 3. Remove the motor from base frame.

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- 4. Remove the pump casing by unscrewing the casing nut and bolts.
- 5. Remove the gland / mechanical flange
- 6. Check the pump casing visually for any holes/damages.
- 7. Check the impeller, shaft and sleeve if any cracks or damage replace with new one.
- 8. Clean all parts thoroughly with diesel.
- 9. Replace with all new gaskets
- 10. Fit the pump casing to the bearing frame.
- 11 Fit the motor at base and do the realignment of motor and pump.
- 12. Give the electrical connection and clear the line clearance.
- 13. Open the pump inlet and out let valves.

Emergency / Emergency Shut OFF:

1. If any injury takes place, provide First aid and inform to the Safety department or Call Emergency number 3108/9865152222

Records/Annexure:

- 1. Isolation Matrix.
- 2. JSA as enclosed below

Job Safety Analysis:

Job Safety Analysis	Job: Maintenance grinding aid of Pump	Date: 6/05/2019	Analysis by: Section Engineer	Reviewed by: Section Head		
Title of employee doing job: Technician	Supervisor: Section Engineer	Department: Mechanical	Section: Cement Plant	Approved by: HOD Mechanical		
Required/recommended PPF: Safety helmet Safety shoe & Safety helt googles						

Required/recommended PPE: Safety helmet, Safety shoe, & Safety belt, goggles

Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action



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Removal of motor	Motor Slip / Fall	Use proper lifting tools	Failure of lifting tools	Use tested tools Deploy trained manpower.
Assembling of pump & motor	Motor Slip / Fall	Use proper lifting tools	Failure of lifting tools	Use tested tools Deploy trained manpower.

SL No Activity Tag / Name of	Tag / Name of the Equipment				
Isola	Isolation Type				
Electrical					
Energy Energy	Other Energy				

01	Maintenance of Pumps	Name and Tag for the Equipment	561WP4 Grinding aid pump		Inlet & Outlet Valves				
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