DALMIA CEMENT (B) LIMITED - Ariyalur MECHANICAL Issue No. 02 Rev. No: 00 Effective Date: 01-11-2019 SOP/MEC/10 Issued By: MR Approved By: HOD-Mechanical. MAINTENANCE OF AIR SLIDE FAN

Scope: Maintenance of airside fan **Responsibility**: Section Engineer

Accountability: Mechanical-Section Incharge

PPE:

1. Safety helmet

2. Safety shoe

3. Hand Gloves

TOOLS:

1. Required Tools

Hazard Analysis:

Risks associated: Mitigating Measures

Rotation of the Equipment Lock the rotation manually & Locally while requairment.

Training needs:

1. Usage of tools and Nature of Hazards

2. Usage of PPEs

Procedure:

- 1. Take LOTO
- 2. Use ppe's while working.
- 3. Coupling guard removed
- 4. Input coupling inspection
- 5. DE & NDE Bearing housing top cover opened for bearing inspection
- 6. Grease removed for checking bearing condition
- 7. Check Bearing clearance with feeler gauge
- 8. Grease applied for bearings

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- 9. Bearing Housing refixed and tightened proper
- 10. Inspection door opened for impeller cleaning
- 11. Lock the impeller rotation
- 12. Impeller coating cleaned fully
- 13. Check cowl gap
- 14. Coupling guard refixed
- 15. LOTO cleared for operation
- 16. Trail run taken

Emergency / Emergency Shut OFF:

1. If any injury is there, and inform to the Security Havildar / safety department or call Emergency number

Records/Annexure:

1. JSA is enclosed below.

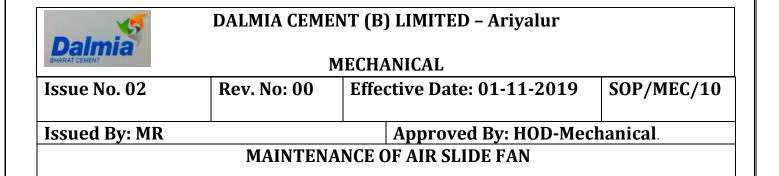
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JOB SAFETY ANALYSIS: (JSA)

| Job Safety Analysis | Job: Main. Of Air slide fan | Date: | Analysis by: | Reviewed by: | | |
|------------------------------|---------------------------------|---------------------------|----------------|--------------|--|--|
| Title of employee doing job: | Supervisor: Section Engineer | Department: Mechanical | Section: Plant | Approved by: | | |

Req'd/recommended PPE: Safety helmet, Safety shoe, & Safety belt.

| Sequence of Basic Job Steps | Potential Hazards | Recommended Safe Job Procedure | What Could Go Wrong | Corrective Action | |
|---|----------------------|--|---|---|--|
| Coupling guard removed | Hand Injury | Use proper spanners to avoid shear of bolt and nut during opening. | Spanners may slip and hit hands while opening. | Check the condition of the bolt ,nut and spanner | |
| Bearing Housing Top cover opened for inspection | Hand Injury | Use proper spanners to avoid slip | Spanners may slip and hit hands while opening. | Check the condition of the bolt ,nut and spanner | |
| Grease removed from Housing | Body injury | Use proper grease drums for put old grease and maintain floor cleaning | Old spillage grease on floor may result slippage | Use proper grease drums for removing grease | |
| Bearing Clearance checked with feeler gauge | Figure Injury | Use Hand Gloves | Feeler gauge may scratch the figure | Use PPE Properly | |
| Grease applied for bearings | Body injury | Applied properly without spillage and maintain floor cleaning | Spillage grease on floor may result slippage | Applied grease Correctly without spillage | |
| Bearing Housing refixed and tightened proper | i fo | | Spanners may slip and hit hands while opening. | Check the condition of the bolt ,nut and spanner | |



| Inspection door opened for impeller cleaning | Hand Injury | Use proper spanners to avoid shear of bolt and nut during opening. | Spanners may slip and hit hands while opening. | Check the condition of the bolt ,nut and spanner | |
|--|----------------|---|--|--|--|
| Lock the impeller rotation | Hand Injury | Use proper tools for arresting impeller rotation | Locking piece may slip and hit on hand | Use Proper Tools | |
| Impeller coating cleaned fully | Hand Injury | Use proper tools and PPEs to avoid scratch on hand | While cleaning impeller rust or cleaning tool scratch the hand | Use Proper Tools and PPEs | |
| Check cowl gap | Figure Injury | Use proper tools and PPEs to avoid scratch on Figure Injured | | Use Proper Tools and PPEs | |
| Coupling guard removed | 1 Hand Inility | | Spanners may slip and hit hands while opening. | Check the condition of the bolt ,nut and spanner | |

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| MAIN I ENANCE OF AIR SLIDE FAN | | | | | | | |

| SL NO | ACTIVITY | | RVRM Isolation matrix Type of isolation | | | | | | | | |
|----------|------------------------------|---|--|--|--|--|--|-----|--|--------|--|
| | | | ELECTRICAL ENERGY | | | | | отн | ER | ENERGY | |
| 6 | Air Slide fan Maintenance | Name and Tag for the Equipment | Isolate Fan Drive | | | | | | Isolate the Outlet throttle valve. | | |