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|  | **VEDANTA LIMITED –**  **VALUE ADDED BUSINESS** | **Format No.:** | **FRMT/MR/10** |
| **INTEGRATED MANAGEMENT SYSTEM** | **Revision Date:** | **04.04.2022** |
| **HAZARD IDENTIFICATION** | **Revision No.:** | **02** |
| **Page No.:** | **1 of 1** |

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| **Departmental Use Only** | |
| **Revision No: 06** | **Unit: SP** |
| **Revision Date: 22.10.2022** | **Dept:Mechanical** |

Doc: HI/SP/MAINT/21

FORMAT FOR HAZARD IDENTIFICATION

A. Work activity information

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| **Sr. No.** | **Details** | **Remark** |
| 1) | Task being carried out, their duration and Frequency: | Product Bunker Liner replacement |
| 2) | Location (s) where the work is carried out. | Product Bunker |
| 3) | Who normally/occasionally carried out the task | Engineer in charge  Work men on the job |
| 4) | Who else may be affected by the work (For example visitors, subcontractors, the public) | Production Engineer  Contractor workmen taken on labour supply |
| 5) | a) Has the personnel trained for performing the task  b) Any special training required | Yes (Past Experience)  No |
| 6) | Is the written system of work mandatory? If yes state the procedure no. | WI/SP/MAINT/ 21 |
| 7) | Is the work permit required for the task | Yes |
| 8) | Plant and machinery that may be used:  E.g.: crusher, conveyor, crane, heavy earthing equipment, Truck etc, | No |
| 9) | Any electrically operated hand tools are used | Grinder, Welding Machine |
| 10) | Manufacturer’s or supplier’s instructions for operation and maintenance plant machinery and powered hand tools are available or not: | Yes |
| 11) | Chain blocks tools and shackles such as wire rope, hydraulic jack etc are used. | Yes |
| 12) | What materials are handled? Size, shape, surface character and weight of materials that may be handled: | Irregular shape mostly structures, gear box and motor  Approximately max 1T |
| 13) | Is the material is required to be moved by hand. If yes Distance and heights of the place where materials have to move by hand. | No |
| 14) | Services used E.g.: compressed air, oxygen, acetylene,  LPG gas, hydraulic oil, welding electrode for welding | No |
| 15) | Physical form of substances encountered during the work (For example fume, gas, vapour, liquid, dust/powder, solid): | Solid & dust, heat |
| 16) | Content and recommendations of safety data sheets relating to substances used or encountered:  ( this is applicable in case of chemical material) | NA |
| 17) | a) Relevant acts, regulations and standards relating to the work being done, the plant and machinery used and the materials used or encountered:  b) Is the activity is reviewed for compliance to statutory requirement | Factory Act 1948 and Goa factory rules 1985- SRR/16  Yes |
| 18) | What is the data (s) required to be monitored during the activity and the frequency of monitoring. | Nil |
| 19) | Any information available from within and outside the organization on incident, accident and ill health experience associated with the work being done, equipment and substances used: | No |

2. From the above activity information hazards are to be identified and recorded below using Appendix 'A' of SP/41

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| **Energy Sources** | **Potential hazards** | **Consequences** |
| Electrical | * Electrical & Instrumentation cables * Motors | * Electrocution * Entanglement with rotating motor shafts * Dust emission * Electrocution |
| Kinetic | * Rotating Motor coupling * Vibrator motor | * Trip over equipment * Entanglement with rotating machine. * Injury due to vibrator |
| Pneumatic | * Air blasters | * Injury due to air released in pressure |
| Potential | * Dust on the walking platform * All steady structures * Dust on walkway | * Slip & trip while walking * Trip & fall over equipment |
| Thermal | * Overheated motors, bearings * Heat from electrical cables | * Burn Injuries |
| Chemical | * Dust generation | * Unconsciousness * Suffocation |
| Radiation | * NA |  |
| Biological | * NA | * NA |
| Bio mechanical | * Body posture of operator entering the Chambers. | * Body Pains |

[**Hazards identified**](file://Mgr_maint/qehs/ohsas/5%20hazard%20identifaiction%20and%20risk%20assesment%20master%20list/7%20RISK%20ASSESMENT/RA%20WIMAINT08.xls)

**Mechanical hazard**

1. Inhaling of dust.
2. Fire hazard.
3. Fall of material
4. Accident due to improper shutdown
5. Flying of Chips during hammering**.**
6. Failure of sling, chain pulley block, improper hooks welding.
7. Fall of a person.
8. High temperature

**Electrical hazard**

Electric shock on equipment

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| **Prepared By:**  **Mechanical In charge Sinter plant** | **Reviewed By:**  **HOD Mechanical Maintenance PID-2** |
| **Signature:** | **Signature:** |
| **Date: 22.10.2022** | **Date: 22.10.2022** |