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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: 03** | **Unit: SP** |
| **Revision Date: 30.09.2022** | **Dept:Mechanical** |

Doc: HI/SP/MAINT/15

FORMAT FOR HAZARD IDENTIFICATION

A. Work activity information – Sinter Machine Tensioning Device

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| **Sr. No.** | **Details** | **Remark** |
| 1) | Task being carried out, their duration and Frequency: | Maintenance of Sinter machine Tensioning Device  6 hrs  Occasionally |
| 2) | Location (s) where the work is carried out. | Sintering building 18 mtr |
| 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/ 15 |
| 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 |
| 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. | 1 kg by hand (tools & tackles)  2 MT height approximately |
| 14) | Services used E.g., compressed air, oxygen, acetylene,  LPG gas, hydraulic oil, welding electrode for welding | Welding machine & LPG gas for cutting set Hydraulic jack |
| 15) | Physical form of substances encountered during the work (For example fume, gas, vapour, liquid, dust/powder, solid): | Solid & dust |
| 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 * Isolation | * Electrocution * Accident due to improper shutdown |
| Kinetic | * Rotating Sinter Machine * Rotating SRC * Rotating exciter assembly shafts * Rotating counter weights | * Trip over equipment * Entanglement with rotating SRC & Grizzly Bar * Entrapment |
| Mechanical | * Rotating Sinter Machine * counter weights | * Trapping between motor & structure * Entanglement between spring   Impact of counterweight |
| Potential | * Dust on the Tensioning Device | * Slip & trip while walking |
| Thermal | * Hot pallet car from hot sinter Machine | * Burn Injuries |
| Chemical | * NA | * NA |
| Radiation | * NA | * NA |
| Biological | * NA | * NA |
| Bio Mechanical | * NA | * NA |

[**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. Fall of material.
3. Accident due to improper shutdown
4. Flying of Chips during hammering
5. Failure of sling, chain pulley block, hydraulic jack
6. improper hooks welding
7. Slip trip fall
8. Fall of a person

**Electrical hazard**

1. Electric shock on equipment

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| --- | --- | --- |
| Prepared By:  Ass. Manager – Sinter Plant | Reviewed & Issued By:  Management Representative | Approved By:  Head Sinter Plant |
| Signature: | Signature: | Signature: |
| Review Date: 30.09.2022 | Review Date: 30.09.2022 | Review Date: 30.09.2022 |