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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: 18.11.2022** | **Dept: Mechanical** |

Doc: HI/SP/MAINT/06

A. Work activity information

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| **Sr. No.** | **Details** | **Remark** |
| 1) | Task being carried out, their duration and Frequency: | Maintenance of Sinter Machine  6 hrs  Occasionally |
| 2) | Location (s) where the work is carried out. | Main Sinter Building |
| 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/ 06 |
| 7) | Is the work permit required for the task | Yes |
| 8) | Plant and machinery that may be used:  Eg : crusher, conveyor, crane, heavy earthing equipment, Truck etc, | EOT Crane |
| 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 motor and pallet car    Approximately max 4T |
| 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. | 2 kg by hand (tools & tackles)  2 mt height approximately |
| 14) | Services used Eg: 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,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: | 1. On 5.11.14 one of the Workmen Mr. P. Jayaram (MCK) working in Sinter plant had superficial burn injury to his left foot while gas cutting , as cutting spatter entered through his safety shoes. 2. On 9.02.15 at around 12 : 00hrs there was smoke observed on SRC shaft in between the bearing and the machine. Machine was immediately stopped. It was suspected that red hot sinter had fallen on the grease which came out from the bearing. |

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

[**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. CO Concentration, High temperature
9. Human Behaviour

**Electrical hazard**

1. Electric shock on equipment

**Physical Hazard:**

Highly inflammable gas

Fire

**Chemical hazard**:

LPG Gas

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| **Prepared By:**  **Mechanical In charge Sinter Plant** | **Reviewed By:**  **HOD Mechanical Maintenance PID-2** |
| **Signature:** | **Signature:** |
| **Date:08.11.2022** | **Date:18.11.2022** |