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|  | **VEDANTA LIMITED –**  **VALUE ADDED BUSINESS** | **Format No.:** | **FRMT/MR/10** |
| **INTEGRATED MANAGEMENT SYSTEM** | **Revision Date:** | **10.07.2023** |
| **HAZARD IDENTIFICATION** | **Revision No.:** | **02** |
| **Page No.:** | **1 of 1** |

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| **Departmental Use Only** | |
| **Revision No: 01** | **Unit: PID1** |
| **Revision Date: 10.07.2023** | **Dept.: Production** |

A. Work activity information

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| **Sr.No.** | **Details** | **Remark** |
| 1) | Task being carried out, their duration and Frequency: | Cleaning EL with backhoe  As per requirement/1 Hr. |
| 2) | Location (s) where the work is carried out. | EL area BF1/BF2 |
| 3) | Who normally/occasionally carried out the task? | Contractor employee/company employee |
| 4) | Who else may be affected by the work (For example visitors, subcontractors, the public) | Visitors, supervisors |
| 5) | a) Has the personnel trained for performing the task  b) Any special training required | Yes  No |
| 6) | Is the written systems of work mandatory? If yes state, the procedure no. | Yes.  VL/IMS/PID1/PROD/WI/15B |
| 7) | Is the work permit required for the task? | No |
| 8) | Plant and machinery that may be used:  Eg : crusher, conveyor, crane, heavy earthing equipment, Truck etc, | Backhoe |
| 9) | Any electrically operated hand tools are used | No |
| 10) | Manufacturers or supplier’s instructions for operation and maintenance plant machinery and powered hand tools are available or not: | Yes |
| 11) | Chain block, tools and shackles such as wire rope, hydraulic jack etc are used. | No |
| 12) | What materials are handled? Size, shape, surface character and weight of materials that may be handled: | Solid/ liquid hot metal/slag |
| 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. | Nil |
| 14) | Services used Eg: compressed air, oxygen, acetylene,  LPG gas, hydraulic oil, welding electrode for welding | NIL |
| 15) | Physical form of substances encountered during the work (For example fume, gas, vapour, liquid, dust/powder, solid): | Solid, semi solid, liquid |
| 16) | Content and recommendations of safety data sheets relating to substances used or encountered:  (This is applicable in case of chemical material) | No |
| 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  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: | yes |

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

1. At around 00:15hrs while removing EL metal by Hitachi minor boiling occurred and metal fell on Hitachi glass. Due to this Hitachi glass broke and caught fire to spilled oil on Hitachi same was immediately extinguish by fire extinguisher. While taking Hitachi reverse slag pit hand railing was damage. No injury to operator.

Causes: Possibility of dampness of ground due to cooling of previous removed skull.

CAPA: 1. Training & Awareness to be given for operator working at EL removing metal by Hitachi to take additional precautions.

2. Cooling of removed skull may be slightly away from the EL Cleaning area.

1. On 10.03.2019 At 11:45 hrs. Mr. Ramesh from hofincons was clearing jam from runner of PCM4. During running tapping eruption at slag pit (EL) took place and some hot material entered in his shoes. He was wearing all PPE including woolen Patti and safety shoes. In spite of this some hot material sparks flew in shoes causing superficial injuries to his left leg. First aid was given, and he then resume to work for pouring.

**Hazards identified**

1. Fire explosion
2. Contact with dust particle
3. Breaking of Hitachi glass due to heat
4. Breaking of Hitachi glass due to hot metal falling onto glass
5. Impact of moving machinery
6. Contact with hot metal/slag, hot water and steam.
7. Nonuse of PPE/Nonadherence to WI

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| **Prepared By:** | **Reviewed By:** |
| **Signature:** | **Signature:** |
| **Review Date: 10.07.2023** | **Review Date: 10.07.2023** |