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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: | PCM runner Preparation  Continuous |
| 2) | Location (s) where the work is carried out. | PCM area |
| 3) | Who normally/occasionally carried out the task? | Contractor`s labourers, company employees & supervisors. |
| 4) | Who else may be affected by the work (For example visitors, subcontractors? the public) | Visitors |
| 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/14K |
| 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, | Monorail crane |
| 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: | NIL |
| 11) | Chain block, tools and shackles such as wire rope, hydraulic jack etc are used. | Hand tools |
| 12) | What materials are handled? Size, shape, surface character and weight of materials that may be handled: | Solid metal jam, solid runner mass, Hydrous clay |
| 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 jam |
| 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. While removing the jam from the PCM 3 runner, the monorail crane hook got entangled with the nearby platform (platform on ladle transfer car side) due to which the platform got slightly lifted upwards. The welding of the supporting structure has cracked, and the bricks have come out.
2. On 03/04/05 at PCM 2 while the tilter runner jam was being removed by the launder crane, the injured person tried to put the crowbar under the jam, just then the chain slipped, and the crowbar hit him on his right jaw.
3. On 21.04.2010 at around 12:30 hrs while preparing PCM 3 spout the PCM operator was standing on the stationary PCM and was preparing the spout. Although the isolator switch was operated in ‘OFF ‘position the ‘LOTO LOCK’ system was not implemented.
4. On 07.06.11 at around 09.10 am, the PCM operator was scooping the debris into the ladle. While doing so metal spark fell on his left leg shoe, resulting in small blister on his foot. He took first Aid and resumed on his duty.
5. On 10.03.2019 At 11:45 hrs Mr. Ramesh from Hofincon was clearing jam from runner of PCM 4. 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.
6. On 10.05.2021 At 08:00 hrs it was observed that the pedestrian fan additional safety mesh provided 2 days back was found removed. Mesh replaced by electrical immediately. The fan is being used by employees of Vaman in BF 2 behind BF 2 control room area. All concerned were made aware about the hazard.

Cause: From site condition it was observed that as area is congested (Block from 2 side) and there is no Natural fresh air flow and also installed fan was of lower capacity, hence in frustration of this cast house worker may have removed fan safety mesh.

CAPA: 1. Pedestal fan to be changed by higher capacity.

2. Production department to give list of location where high capacity of Pedestal/wall mounted fan is required to Electrical department for indenting the fan.

3. Proper rest room to be made available for Cast house workmen.

4. Behavioral and Guarding safety standard training of Do’s and Don’ts to be imparted to Cast house area worker.

**Hazards identified**

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