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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.:** | **03** |
| **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: | DS dedusting operation and cleaning  During DS |
| 2) | Location (s) where the work is carried out. | PCM 4 |
| 3) | Who normally/occasionally carried out the task? | Company employees & supervisors, contractors |
| 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/13A |
| 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, | Dedusting hood, ID fan |
| 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: | No |
| 11) | Chain block, tools and shackles such as wire rope, hydraulic jack etc are used. | Wire rope |
| 12) | What materials are handled? Size, shape, surface character and weight of materials that may be handled: | Burnt lime powder. |
| 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. | Yes. 2m distance, height= 3 m. |
| 14) | Services used Eg: compressed air, oxygen, acetylene,  LPG gas, hydraulic oil, welding electrode for welding | Air (Solenoid valve) |
| 15) | Physical form of substances encountered during the work (For example fume, gas, vapour, liquid, dust/powder, solid): | Flame, fumes, dust /lime powder |
| 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  Yes |
| 18) | What is the data (s) required to be monitored during the activity and the frequency of monitoring? | Draft |
| 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. On 10/10/2015 at 15:30hrs person responsible for cleaning jam of dedusting unit (DS Area) was standing next to hood . At that time jam weighing about 50kg which was stuck on the top of the hood fell on ground of its own. This could have hit on person if he was engaged in any activity such as removing the jam of side wall, cleaning jam of ladle hood, lance clearing, rail cleaning etc.

Causes: Accumulation of spilled metal on the DS hood.

CAPA: Exploring the possibility of engineering control to eliminate the accumulation of metal on hood.

**Hazards identified**

1. Contact with hot DS hood causing burns
2. Contact with dust & fumes
3. Fire explosion in the dedusting system due to gases generated during desulphurization
4. Human Behavior -Nonuse of PPE
5. Human Behavior -Improper house keeping
6. Inadequate local lighting
7. Injuries due to fall
8. Electric shock
9. BF Gas presence
10. Inspection door of the ID fan opening during gas cutting
11. Contact with burnt lime powder
12. Contact with splashing metal
13. Fall from height
14. ID tripping.
15. Water pump tripping

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