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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: 03** | **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: | Slag drier operation  Continuous |
| 2) | Location (s) where the work is carried out. | Slag drier area |
| 3) | Who normally/occasionally carried out the task? | Company employees, Contractor 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/16 |
| 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 | Wheel loader, burner arrangement, motors, pumps, magnet & conveyors |
| 9) | Any electrically operated hand tools are used | NIL |
| 10) | Manufacturers or supplier’s instructions for operation and maintenance plant machinery and powered hand tools are available or not: | Available |
| 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: | Granular |
| 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): | Gas, 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  Yes |
| 18) | What is the data (s) required to be monitored during the activity and the frequency of monitoring? | Stack emission is monitored once in quarter year |
| 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. 15.09.2003 Diesel tank found leaking
2. Explosion while firing the burner.
3. 22.06.2006 Explosion after firing the burner.
4. On 28.07.07 slag dryer W/L operator lifted and carried the person loading the metal chipping, in the W/L bucket.
5. On 15/12/2010 at around 09:30 hrs., one of the Helper of Contractor M/S. Mukund Parab, was operating water hose valve by the left hand, since his other hand was dirty. As the valve was hard to operate, he lost his balance and injured his left side eyebrow.
6. VI) On 25.05.2021 at around 01:30 hrs. Bhavana earthmovers Truck no GA-04-T 8584 went into the gutter while reversing at slag yard (Slag dryer plant). Truck driver Mr. Babajan sent to the dispensary for alcohol test and test found negative. No injury to anyone.
7. Cause: Slag heap at slag drier area is piled up to huge extent due to which turning radius is insufficient to move the truck out with cabin in front position after unloading and hence moving out is only possible by reversing the truck.

CAPA: 1. Solid hard barrication required on both sides of the drain.

2. Timely evacuation of granulated slag from site to avoid stock piling. This will help in sufficient space for truck moving out without reversing after unloading slag.

3. Consequence management in view of the drivers’ negligence to be initiated.

**Hazards identified**

1. Mech Falling /impact
2. Fire & explosion
3. BF Gas poisoning
4. Contact with dust
5. Electric shock
6. Human Behavior -Nonuse of PPE
7. Human Behavior -Improper house keeping
8. Inadequate local lighting
9. Human error, Human behavior
10. Inhalation of dust
11. Injury while operating equipment (Valves)
12. Impact of magnet to person
13. Diesel Spillage from tank

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