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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: | Furnace top platform cleaning  During planned shutdown. |
| 2) | Location (s) where the work is carried out. | BF 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/47 |
| 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, | NIL |
| 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: | NIL |
| 11) | Chain block, tools and shackles such as wire rope, hydraulic jack etc are used. | NIL |
| 12) | What materials are handled? Size, shape, surface character and weight of materials that may be handled: | Loose coke lumps, iron ore fines, sinter fines |
| 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. | Hand tools.  2 feet |
| 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 & Fumes, dust, steam |
| 16) | Content and recommendations of safety data sheets relating to substances used or encountered:  (This is applicable in case of chemical material) | NIL |
| 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  No |
| 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. On 14.09. 2020 at around 12:30 hrs. one of the Company Inst Engineering while getting down from BF 2 furnace top to cast house staircase got imbalance and while trying to protect himself from falling down, he got minor abrasion to his right-hand forearm. He resumes duty after first aid in dispensary.

Root cause:

1. During shutdown of furnace, cleaning is done in various platforms leading to spillage on staircase steps.

2. Due to raining steps becomes slippery contributing to unsafe condition.

3. IP was holding handrail, help him to hold the grip to avoid major incidence.

CAPA:

1. Spillages to be cleaned in between shutdown hrs. to avoid accumulation of spillages on steps.

2. Possibility of collection of spillages in empty cement bags & same to be brought down manually.

3. SS to be revisit the cleaning area in between shutdown hrs. to avoid creation of unsafe condition.

1. On 15.07.2021 at around 12:30pm one of the company employee who was working on furnace coffee pot in BF 1 after completing the job, near furnace platform mud fell on his righthand wrist area due to the sudden impact his wrist area was swelling, and he was in pain. First aid treatment was given in our dispensary. He resumed duty after visiting the doctor.

Causes: Accumulation of charging material and fines on furnace top platform and cast house sheets.

CAPA:

1. Roof cleaning jobs to be carried out during break hours.

2. Roof cleaning sprays to be fixed to ensure regular cleaning of roof to avoid material accumulation

**Hazards identified**

1. Contact with dust
2. BFG poisoning
3. Human Behavior -Nonuse of PPE
4. Human Behavior -Improper house keeping
5. Inadequate local lighting
6. Human Behavior -Not carrying CO detector
7. Human Behavior -Doing the job in hurry
8. Fall of person
9. Fall of loose material on platform
10. Contact with hot surface
11. Contact with steam
12. Contact with flame

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