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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: 02** | **Unit: PID 1** |
| **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: | Dust catcher cleaning  Once in a month per furnace or as and when required |
| 2) | Location (s) where the work is carried out. | BF Dust catcher area |
| 3) | Who normally/occasionally carried out the task? | company employees, contractor labors & 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/O6E |
| 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, | Wire rope pulley arrangement |
| 9) | Any electrically operated hand tools are used | No |
| 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: | 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. | 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): | Powder, fumes & BFG |
| 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  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. On 21.05.07, during opening of dust catcher inspection door for cleaning, water came out from the dust catcher.
2. On 16/06/10 after taking Bf1 shutdown Production department opened all the relief valves in GCS and started steam purging the entire system. After some time, clearance was taken by Mech (Rushikesh) from Mr. Araujo (SS) to enter in the GCS for blanking of the EV line and the flange opening. After opening only one wedge it was found that the saturator was not drained, Mr. Nazareth also saw the happening and stopped the job further, the wedge was again tightened.
3. On 14.08.2020, at around 09:00 hrs two maintenance personnel went to tighten Inspection flanges at BF#1 GCS – Dust Catcher. After job completion, they both were feeling uneasiness. Hence both were taken to dispensary and given first aid treatment. Later, they resumed their work.

CAPA:

1. SOP to be followed strictly (Work permit to be taken as and when working on gas prone area/equipment).

2. Awareness training to all the workman of Mechanical workman for working in gas prone area.

3. Access control to be in place to avoid unauthorized entry in gas prone area.

4. Work instruction on arresting of gas leakage during furnace operation to be available on internet portal (Mechanical/Production)

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

**Hazards Identified**

1. BF Gas poisoning
2. Fall of a person while cleaning dust catcher
3. Contact with dust
4. Contact with hot water.
5. Human Behavior -Nonuse of PPE’s
6. Human Behavior -Improper house keeping
7. Inadequate local lighting
8. Human Behavior -Forgot to switch off the GCS pump while water sealing saturator
9. Human Behavior -Not carrying CO detector.
10. Dust inhalation
11. Burns due to contact with hot object/ Dust surface

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