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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: 1** | **Unit: PID I** |
| **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: | Blowing In operation, depends on the furnace condition may go up to 24 hr. or beyond that, as and when required |
| 2) | Location (s) where the work is carried out. | BF Area |
| 3) | Who normally/occasionally carried out the task | Company Employees, Contractor’s lab ours & 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. | VL/IMS/PID1/PROD/WI/02 |
| 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, | All BF Accessories |
| 9) | Any electrically operated hand tools are used | No |
| 10) | Manufacturer’s or supplier’s instructions for operation and maintenance plant machinery and powered hand tools are available or not: | Yes |
| 11) | Chain block, tools and shackles such as wire rope, hydraulic jack etc are used. | Chain block,tools,hydraulic jack etc. |
| 12) | What materials are handled? Size, shape, surface character and weight of materials that may be handled: | Coke  20-60 mm |
| 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 | Compressed air, Oxygen cylinder,LPG gas, welding electrode for welding etc. |
| 15) | Physical form of substances encountered during the work (For example fume, gas, vapour, liquid, dust/powder, solid): | Gas & solid particle |
| 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. | 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: | On 20/06/2012 1st shift it was observed that at 8:40hrs F/C was hanging. As hot blast pressure was rising and wind volume was decreasing, F/C snort checked and pressure was brought down to 0.60- 0.58 kg/cm2. F/C took slip and suddenly huge flame noticed in blow pipe no. 4&5. Water was sprayed on blow pipe but flame was increasing. F/C shut down taken as per procedure & blow pipe flanges were opened. Within 2 min. of time, water started coming out from blow pipe no. 7, |

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

Identified Hazards:

1. Contact with hot material
2. BF Gas leakage
3. Fire & explosion the furnace area & in the oxygen line
4. Contact with hot water
5. Contact with hot pieces of coke
6. Fall of person
7. Impact by mechanical machineries
8. Entanglement/trapping/slipping
9. Human Behavior -Not shifting people from the PCM platform or PCM tail end before starting the activity.
10. Human Behavior -Nonuse of PPE
11. Human Behavior - Improper house keeping
12. Inadequate local lighting
13. Human Behavior -Running in hurry to attend to the problem soon but getting hurt
14. Dust
15. Noise
16. heat
17. Furnace chilling leading to flame and hot water coming out of blow pipe
18. Mild eruption in E.L due to metal entry
19. Mild explosion in main runner due to insufficient heating.

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