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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: | Opening of peephole flange & plugging tuyeres  Once in a month in each furnace & 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 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. | VL/IMS/PID1/PROD/WI/06G |
| 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: | Spanner/pipe wrench |
| 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): | Hot gas |
| 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 8/10/10 at 17.55 hrs. BF 2 shutdowns was taken to plug tuyere no. 8. After the shutdown tuyere no. 8 was being plugged while other tuyeres were being checked during which time the cast house in charge was passing in front of the blowpipe no. 5 there was a sudden flame from the blowpipe due to slipping of furnace. No injury occurred to any of the persons.
2. On 21.10.2014 during 1st shift in BF1 cast house Tuyere opening was in progress with the help of sledgehammer. After opening tuyere no 5,6 and while opening tuyere no.4, hammer flew away from handle and fell on right hand of Mr. Cheeranjiv Saroj of Sasteck Associate who was holding the arrow bar. He was taken to PID dispensary for treatment and after the first aid returned to work.
3. At PID 1, on 21/2/20, around 12:30 hrs while clearing blow pipe, Prakash Nayak of Vaman contractor index finger got pressed between crowbar and blow pipe. Minor injury occurred. He had worn all the PPE immediately referred to dispensary, first aid given, and he resumed to duty

**Hazards identified**

1. BF Gas leakage (gas poisoning)
2. Contact with hot gas/metal/slag
3. Human Behavior -Nonuse of PPE
4. Human Behavior -Improper house keeping
5. Inadequate local lighting
6. Opening the peephole flange without knowing coffee pot valve is open.
7. Burns due to contact with hot metal/slag
8. Fire & explosion
9. Impact with tools while opening tuyere and getting injured
10. Pinching between wire rope and pulley
11. Human Behavior -Doing the job in hurry
12. Human Behavior -Inattentiveness

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