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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: | Supply of consumable to furnace area/from furnace area  Daily |
| 2) | Location (s) where the work is carried out. | Blast furnace area |
| 3) | Who normally/occasionally carried out the task? | Contract labours |
| 4) | Who else may be affected by the work (For example visitors, subcontractors, the public) | Visitors & subcontractors |
| 5) | a) Has the personnel trained for performing the task  b) Any special training required | Yes |
| 6) | Is the written systems of work mandatory? If yes state, the procedure no. | Yes  VL/IMS/PID1/PROD/WI/08P |
| 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 & truck |
| 9) | Any electrically operated hand tools are used | No |
| 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. | No |
| 12) | What materials are handled? Size, shape, surface character and weight of materials that may be handled: | Poking rod, lancing pipe, mudgun clay, drill bits, etc |
| 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. | No |
| 14) | Services used Eg: compressed air, oxygen, acetylene,  LPG gas, hydraulic oil, welding electrode for welding | No |
| 15) | Physical form of substances encountered during the work (For example fume, gas, vapour, liquid, dust/powder, solid): | solid |
| 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 30.07.2005, PP&B Wheel loader tyre got burst while carrying the blast furnace consumable near bag house.
2. On 03.09.2010, at around 4.45pm, two workmen of M/s Mukund Parab (Contractor) were engaged in lancing pipe unloading job. While unloading lancing pipes both were standing in palfinger carrier and throwing the pipe bundles down. While throwing one of the bundles, due to misjudgment, bundle got imbalanced and fell on the edge of the carrier and subsequently hit on the face of one of the workmen resulting in the minor injury to his right eyebrow.
3. On 11.11.2005, PP& B wheel loader damaged the electrical pole while reversing at

mandap after loading salt bags.

1. On 3.09.2010 at around 16.45 hrs, two workmen were engaged in lancing pipe unloading job. While unloading lancing pipes both were standing in pal finger carrier and throwing the pipe bundles down. While throwing one of the bundles, it fell on the edge of the carrier and subsequently hit on the face of one of the workmen resulting in the minor injury to his right eyebrow.
2. On 20/08/2012 at Start of the B shift, in BF2 Cast House, Handle of the valve on fire hydrant line (near sand area) found in broken condition.
3. After unloading sand (In c shift) in Bf-I cast house, the W/L Bucket hit the side gate (While moving backward) and the gate fell down.
4. Today, at around 9:45 hrs; while removing consumable from the container kept near Production Consumable shed, the door the container came out from the hinges and hits to the right hand of Mr. Gangaram belong to M/s Mukund Parab. After applying voloni spray in dispensary He resumed his duty.

CAPA: Locking arrangement to be done for door hinge.

**Hazards identified**

1. Bursting of tyre

2.      Impact wheel loader to electric pole

3.      Human Behavior -Nonuse of PPE

4.      Human Behavior -Improper house keeping

5.      Inadequate local lighting

6.    Human Behavior -Running in panic & getting hurt or falling

7.    Human Behavior -Working hurriedly

8.      Impact with poking rods/lancing pipes while handling

9.      Human Behavior -Use of improper mode for transportation

10.  Unloading material from wheel loader

11. Impact of wheel loader with structure

12. Wheel loader brake failure

13. Bucket cylinder failure

14. Human Behavior -Poor coordination between the operator and helper

15. Entanglement

16. Trapping between bucket and the structure

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