|  |  |  |  |
| --- | --- | --- | --- |
|  | **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** |

|  |  |
| --- | --- |
| **Departmental Use Only** | |
| **Revision No: 02** | **Unit: PID1** |
| **Revision Date: 10.07.2023** | **Dept.: Production** |

A. Work activity information

|  |  |  |
| --- | --- | --- |
| **Sr.No.** | **Details** | **Remark** |
| 1) | Task being carried out, their duration and Frequency: | Clearing of Metal Jam/ Slag Coating from inside furnace, Gunning on Refractory/ Shell.  Duration: 3-4 Days  Frequency: One time job |
| 2) | Location (s) where the work is carried out. | Blast Furnace No-2 |
| 3) | Who normally/occasionally carried out the task? | Contractor workmen. |
| 4) | Who else may be affected by the work (For example visitors, subcontractors? the public) | Engineer, Supervisor, Workmen working nearby |
| 5) | a) Has the personnel trained for performing the task  b) Any special training required | Yes  Yes |
| 6) | Is the written systems of work mandatory? If yes state, the procedure no. | Yes  VL/IMS/PID1/PROD/WI/05A |
| 7) | Is the work permit required for the task | Yes |
| 8) | Plant and machinery that may be used:  Eg : crusher, conveyor, crane, heavy earthing equipment, Truck etc, | Pan Mixer, Breaker, Compressor, Booster Pump, Gunning Pod, Winches, Hydra, Trucks |
| 9) | Any electrically operated hand tools are used | Yes |
| 10) | Manufacturers 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. | Yes |
| 12) | What materials are handled? Size, shape, surface character and weight of materials that may be handled: | Monolithics Refractories, Metal Jam/ Slag, Coke, 150 Ton materials |
| 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 | Compressed air, water jet |
| 15) | Physical form of substances encountered during the work (For example fume, gas, vapour, liquid, dust/powder, solid): | Steam, dust, vapour, Solid, Liquid etc. |
| 16) | Content and recommendations of safety data sheets relating to substances used or encountered:  (this is applicable in case of chemical material) | Yes. |
| 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 1948 and Goa factory Act 1985-SRR/16  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: | Nil |

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

**Hazards identified**

**Mechanical Hazard:**

1. Fall of object, tools & tackles, Refractory material from Height.
2. Fall of objects due to Failure of electrical winch, wire rope, slings etc.
3. Trapping/ Entanglement of person in rotating parts, hoses, wire rope, electrical cables & slings etc.
4. Impact of material, machinery, crane hook etc.
5. Fall of hazardous material in eyes / body.
6. Fall of person from height.
7. Hit by material during shifting of materials.

**Physical hazard:**

1. Dust inhalation.
2. Burn injury during welding
3. Splashing of liquid binder, resin in eyes
4. Fire.
5. Slippage of hose from air pressure clamps
6. Noise of compressor, drill machine, vibrator
7. Darkness.
8. Slippage of legs.
9. Congestion.
10. Suffocation.
11. BF Gas poisoning.

**Electrical Hazard:**

1. Electric shock.
2. Shot circuit.

**Behavioral Hazard:**

1. Human Behavior -Workmen under influence of alcohol
2. Human Behavior -Violation of procedure
3. Human Behavior -Not wearing PPE’s
4. Human Behavior -Not concentrating while operating machine
5. Human Behaviour -Ignorance/casual approach

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