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|  | **VEDANTA LIMITED –**  **VALUE ADDED BUSINESS** | **Format No.:** | **FRMT/MR/10** |
| **INTEGRATED MANAGEMENT SYSTEM** | **Revision Date:** | **04.04.2022** |
| **HAZARD IDENTIFICATION** | **Revision No.:** | **02** |
| **Page No.:** | **1 of 1** |

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| **Departmental Use Only** | |
| **Revision No: 03** | **Unit: PID-1** |
| **Revision Date: 10.12.22** | **Dept.: Mechanical** |

1. Work activity information

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| **Sr.No.** | **Details** | **Remark** |
| 1) | Task being carried out, their duration and Frequency: | Fixing of working platform in blast furnace  1 day  Once in 6 yrs/during relining |
| 2) | Location (s) where the work is carried out. | Blast furnace Accessories |
| 3) | Who normally/occasionally carried out the task | Engineer in charge  Mechanical contractor workmen |
| 4) | Who else may be affected by the work (For example visitors, subcontractors, the public) | Production engineers, refractory workmen |
| 5) | a)Has the personnel trained for performing the task  b) Any special training required | Yes  No |
| 6) | Are the written systems of work mandatory. If yes state the procedure no. | [WI/MAINT/35](file:///C:/Users/00007038/departmental%20manual/11%20%20Work%20instruction/WIMAINT35%20FIXING%20OF%20WORKING%20PLATFORM%20INSIDE%20BLAST%20FURNACE.doc) |
| 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, | Hoist, crane, truck. |
| 9) | Any electrically operated hand tools are used | Yes (Grinder, 5 T hoist) |
| 10) | Manufacturer’s or supplier’s instructions for operation and maintenance plant machinery and powered hand tools are available or not: | Yes |
| **Sr.No.** | **Details** | **Remark** |
| 11) | Chain block, tools and shackles such as wire rope, hydraulic jack etc are used. | 2 T chain block |
| 12) | What materials are handled? Size, shape, surface character and weight of materials that may be handled: | Steel structures16 mm plate  Rectangular - Irregular  Approx 50 kg max |
| 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. | 25 kg by hand (tools & tackles)  1 Mt height approximately max |
| 14) | Services used Eg: compressed air, oxygen, acetylene,  LPG gas, hydraulic oil, welding electrode for welding | Oxy Acetylene cutting set  Welding electrode for welding |
| 15) | Physical form of substances encountered during the work (For example fume, gas, vapor, liquid, dust/powder, solid): | Solid & fumes |
| 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 1948 and Goa factory rules 1985 – SRR/16  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: | 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

* Fall of material, hammer, purlin, plate, bolts, sheet, furnace top parts.
* Fall of person.
* Hitting of hammer, plate.
* Entanglement between plates, furnace.
* Wedges coming out.
* Impact.
* Failure of cutting wheel.

Physical hazard

* Temperature from shell, cutting set, welding.
* Dust & Fumes
* Sparks from grinding, cutting, welding.

Electrical hazard - Shock

Chemical Hazards:

* CO poisoning

Human Hazards:

* Alcoholism
* Horseplay
* Non compliance of SOP

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| **Prepared By: Yogesh**  Area Engineer | **Reviewed & Issued By:**  Management Representative | **Approved By:**  Mechanical Head |
| **Signature:** | **Signature:** | **Signature:** |
| **Date:30.05.2022** | **Date: 30.05.2022** | **Date: 30.05.2022** |