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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: | PCI, O2 & N2 Plant  2 to 8 hours |
| 2) | Location (s) where the work is carried out. | PCI |
| 3) | Who normally/occasionally carried out the task | Engineer in charge  Maintenance fitter/welder on the job  Contractor workmen/supervisor on job |
| 4) | Who else may be affected by the work (For example visitors, subcontractors, the public) | Contractor workmen, Production/Electrical Engineers , Visitors |
| 5) | a)Has the personnel trained for performing the task  b) Any special training required | Yes (Past experience)  Yes |
| 6) | Is the written system of work mandatory? If yes state the procedure no. | WIMAINT240 |
| 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 | No |
| 10) | Manufacturer’s or supplier’s instructions for operation and maintenance plant machinery and powered hand tools are available or not: | No |
| 11) | Chain block, tools and shackles such as wire rope, hydraulic jack etc are used. | Chain pulley block of rated capacity, slings, D-shackles, wire ropes |
| 12) | What materials are handled? Size, shape, surface character and weight of materials that may be handled: | No  Approximately max 2T |
| 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. | 15 kgs by hand  1.5 to 3mt height and 1 mt distance. |
| 14) | Services used Eg: compressed air, oxygen, acetylene,  LPG gas, hydraulic oil, welding electrode for welding | Yes. Welding electrode for welding  Compressed air, N2 & O2 |
| 15) | Physical form of substances encountered during the work (For example fume, gas, vapour, liquid, dust/powder, solid): | Solid, liquid(oil), dust |
| 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. | Temperature & pressure before start of work |
| 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**

**Physical Hazard**

1. Back Fire , explosion.
2. Suffocation due to insufficient oxygen.
3. Noise, vibration, pressure, temperature.
4. Slip and fall due to oil spillage
5. Fall of dust in eyes, ears.
6. Bursting of Pressurize air, Coal, N2 & O2

**Mechanical Hazard**

1. Trapping between objects
2. Falling of material from height
3. Falling of person from height
4. Fall of tools and tackles
5. Impact of inspection doors while opening
6. Impact of slinged material
7. Crushing of person while lifting the material & fall
8. Fall while installation of Equipment.
9. Trapping of person during the fall of material from height
10. Failure of lifting machines, handling machines such as chain pulley block, sling, D shackle etc
11. Back Pain due to sudden or heavy load like check valve, motor.
12. Cut from sharp edges of item.
13. Non use of PPE’s while carrying out the activity.

**Chemical Hazard:**

1. Pulverize Coal
2. Carbon Molecular sieve
3. Zeolite Molecular sieve
4. R134a dryer refrigerent

**Electrical hazard**

1. Electric shock while performing welding

**Behavioral Hazards**

1. Alcoholism.
2. Non usage of PPE’s
3. Casual approach while working.
4. Non usage of correct tools.
5. Horse play.

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| **Prepared By:** | **Reviewed By: Nellaiappan** |
| **Signature:** | **Signature:** |
| **Date:10.12.2022** | **Date: 10.12.2022** |