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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: 02** | **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: | Isolation of GEPL line  As and when required |
| 2) | Location (s) where the work is carried out. | GEPL line water seal |
| 3) | Who normally/occasionally carried out the task? | Company 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/06 L |
| 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 |
| 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: | Water, BFG |
| 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 | Nil |
| 15) | Physical form of substances encountered during the work (For example fume, gas, vapour, liquid, dust/powder, solid): | Liquid water, Gaseous (Blast furnace 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 06.06.2010GEPL gas line was isolated on their request for blower balancing job. At around 15.45 hr abnormal sound was heard at GEPL water seal and continuous blowing was seen from relief valve before MOV. GEPL water seal and additional GEPL Water seal which were kept water sealed and over flow maintained got partially drained. Same were immediately water sealed as we couldn’t understand the reason for pressuring and draining of the seal.

**Hazards identified**

1. BF Gas inhalation
2. Failure to keep relief valves open
3. Water seal failure due to pressurizing of line.
4. Human Behavior -Unintentional dropping of water seal due to human error.
5. Human Behavior -Miscommunication between engineers
6. Fall of person and getting hurt while running in hurry
7. Fire & explosion
8. Human Behavior -Not adhering to work instruction/use of PPE
9. Human Behavior -LOTO system not being followed
10. Human Behavior -Improper house keeping
11. Inadequate local lighting

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