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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.:** | **02** |
| **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: | Acid addition once daily in PCM recirculation water |
| 2) | Location (s) where the work is carried out. | Gutter opposite PCM 1 (Inlet to PCM recirculation tanks) |
| 3) | Who normally/occasionally carried out the task? | Contractor workmen, company employees & supervisors. |
| 4) | Who else may be affected by the work (For example visitors, subcontractors? the public) | Person working nearby |
| 5) | a) Has the personnel trained for performing the task  b) Any special training required | Yes  Yes. Special training given with reference to MSDS. |
| 6) | Is the written systems of work mandatory? If yes state, the procedure no. | Yes,  VL/IMS/PID1/PROD/WI/51 |
| 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) | Manufacturers or supplier’s instructions for operation and maintenance plant machinery and powered hand tools are available or not: | NA |
| 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: | Hydrochloric Acid (Concentrated liquid) |
| 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. | Yes. Distance = approx. 200 meters  Height = approx. 1-foot above ground level |
| 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, fumes |
| 16) | Content and recommendations of safety data sheets relating to substances used or encountered:  (This is applicable in case of chemical material) | YES. MSDS |
| 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? | Chemical details in MSDS, Every day |
| 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**

1. Fire & explosion
2. Fall of a person causing injury
3. Causes burns & irritating to respiratory system
4. Formation of acid odour (Fumes) affecting health
5. Human Behavior Not using PPE
6. Human Behavior Improper house keeping
7. Inadequate local lighting
8. Human Behavior Not being careful while handling the acid
9. Contact with flying metal chips
10. Impact with moving vehicle
11. Spillage of chemical

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