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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: | PCM Lime tank cleaning  Once in a week/3-4 Hrs. or as and when required |
| 2) | Location (s) where the work is carried out. | PCM area |
| 3) | Who normally/occasionally carried out the task? | Contractors laborers, company employees |
| 4) | Who else may be affected by the work (For example visitors, subcontractors, the public) | Visitors, supervisors |
| 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. | Yes.  VL/IMS/PID1/PROD/WI/14C |
| 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: | Lime slurry, metal chips, |
| 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. | Nil |
| 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): | Solid metal, Water, |
| 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    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 17.11.2020 at around 13:13 hrs after cleaning PCM water tank two workmen belong to Sandesh Naik namely Niraj & Judavan reported that there was abrasion on right legs immediately taken to dispensary for treatment, after treatment from dispensary both are reported to duty

Root cause:

• The incident happened during cleaning activity in PCM tank, wherein they were loosening and collecting the last residue of lime which gets deposited & solidified at the bottom of the tank

• Cleaning activity is done once in a month hence the quantity solidified at the bottom in more and requires more manpower

• Four contractual persons were clearing it as the lime gets hardened at the bottom

• While working the gun boots were covered with water with lime and slag in it.

• Due to rubbing of gun boots with leg skin the injury had happened

• Out of four workmen two were wearing the denim cloth hence there was no effect on their legs however other two with cotton cloths developed abrasion

CAPA:

• Frequency can be increased to twice in a month so that less quantity of handling

• Hand railing shall be there to avoid any unauthorized entry into the PCM tank

**Hazards identified**

1. Impact of running lime stirrer.
2. Contact with stirrer blades
3. Contact with foreign particles
4. Contact with lime Powder solution.
5. Impact with lime tank body as opening for the tank is small.
6. Human Behavior -Non-use of PPE, WI

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