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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: | Ladle movement by car  Daily |
| 2) | Location (s) where the work is carried out. | Ladle movement area |
| 3) | Who normally/occasionally carried out the task? | Company’s & contract employees |
| 4) | Who else may be affected by the work (For example visitors, subcontractors? the public) | Visitors & subcontractors |
| 5) | a) Has the personnel trained for performing the task  b) Any special training required | Yes |
| 6) | Is the written systems of work mandatory? If yes state, the procedure no. | Yes.  VL/IMS/PID1/PROD/WI/19, VL/IMS/PID1/PROD/WI/14  for remote crane operation |
| 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: | 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: | Ladle |
| 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 | No |
| 15) | Physical form of substances encountered during the work (For example fume, gas, vapour, liquid, dust/powder, solid): | Solid |
| 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. 27.10.2005, Mr. Gani Naik missed an accident with ladle transfer car as the person operated the ladle car without the knowledge of the person standing nearby
2. On 07.02.06 at 17.00hrs while transporting small ladle on the ladle car, one side of the crane hook touched the ladle car brake assembly & slightly damaged it.
3. On 16.03.2007, Arm of bag house crane got distorted, while shifting ladle from ground to bag house crane. Rajesh Amonkar.
4. On 04.09.2007 at around 4.05 hrs. near PCM discharge end, while placing the empty ladle L30 by 25/12 T crane on the ladle car, the wire rope got snapped when the ladle was approximately 100mm above the ladle car and 25 T hook along with the ladle came down. -Umesh Fadte
5. On 27.10.07, cable holding the wire rope of ladle transfer car fell down by itself. At this time ladle transfer car was not in operation.
6. On 21.09.08, at 7.40 hrs. Mr. Anirudha Survade was operating transfer car with remote control. He went to check the limit switch of transfer car but not realized that his right leg was on the rail and his right leg got trapped between ladle car and mechanical stopper at PCM discharge end.
7. On 08.12.2020 in B shift at 15:50 hrs Mr. Narayan Naik after placing ladle on ladle car he parked bag house crane in parking position at PCM3 discharge end, after this he was moving towards PCM4 pouring platform to assess the ladle status, during this he kept radio remote of bag house crane in PCM4 pouring Cabin and went to check ladle status meanwhile Mr. Shanto Gauns pourer took bag house radio remote thinking it as Hot Metal Crane remote and started operating Hot Metal Crane during this Bag House crane got operated and one hook touched the Truck lift body and other hook damaged the wind shield of truck which was parked at PCM 4 discharge end (Truck bearing no GA07 F-7517). No Injury to any person

**Hazards identified**

1. Impact by ladle on person
2. Impact by ladle car
3. Fall of ladle
4. Damage of equipment by rusting, impact etc.
5. Human Behavior-Nonuse of PPE
6. Human Behavior-Improper house keeping
7. Inadequate local lighting
8. Movement of person by standing on the ladle car
9. Operation of ladle transfer car by standing on rail

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