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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: | BF1 Bag House operation.  Daily, during cast opening and pouring. |
| 2) | Location (s) where the work is carried out. | Bf1 furnace side |
| 3) | Who normally/occasionally carried out the task? | Company, contractor employees. |
| 4) | Who else may be affected by the work (For example visitors, subcontractors, the public) | no |
| 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/19C |
| 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, | Wheel loader |
| 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: | yes |
| 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 powder, graphite |
| 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 |
| 14) | Services used Eg: compressed air, oxygen, acetylene,  LPG gas, hydraulic oil, welding electrode for welding | NA |
| 15) | Physical form of substances encountered during the work (For example fume, gas, vapour, liquid, dust/powder, solid): | Lime powder, graphite |
| 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? | Draft, Shit wise |
| 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 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

Cause: Overlook on the part of HMC pouring operator for using bag house crane remote.

Contributory Cause:

1. Negligence on the part of bag house crane operator to leave the remote in pouring cabin
2. Lack of unique identification on each remote because of which the operator could not spot the difference
3. Lack of proper SOP which gives instructions to the operator about the location where the remote is to be kept when not used

CAPA

1. Counselling of both hot metal crane operator and bag house crane operator
2. Proper SOP to be made which should instruct the operators about radio remote custody keeping
3. Explore the possibility of using different size magnetic key for radio remote to prevent usage of remote

**Hazards identified**

1. Contact with lime powder, graphite
2. Contact with hot hood causing burns
3. Contact with dust, lime & fumes
4. Fire & explosion
5. Electric shock
6. Human Behavior-Nonuse of PPE
7. Human Behavior-Improper house keeping
8. Inadequate local lighting
9. Entrapment of person while unloading graphite from bags
10. Human error

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