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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: | Dismantling of Refractory inside the furnace 20 days  As & when capital repair require |
| 2) | Location (s) where the work is carried out. | In BF1 & BF2. |
| 3) | Who normally/occasionally carried out the task? | Contractor men. |
| 4) | Who else may be affected by the work (For example visitors, subcontractors, the public) | Workmen working nearby |
| 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/05 |
| 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, | No |
| 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: | No |
| 11) | Chain block, tools and shackles such as wire rope, hydraulic jack etc are used. | Yes |
| 12) | What materials are handled? Size, shape, surface character and weight of materials that may be handled: | Bricks, Metal skull, riggers and coke |
| 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  10 mts distance, one meters. |
| 14) | Services used E.g.: compressed air, oxygen, acetylene,  LPG gas, hydraulic oil, welding electrode for welding | Compressed air, acetylene, LPG gas, Hydraulic equipment, welding electrode for welding. |
| 15) | Physical form of substances encountered during the work (For example fume, gas, vapor, liquid, dust/powder, solid): | Steam, dust etc. |
| 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 1948 and Goa factory Act 1985-SRR/16  No |
| 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: | No |

2. From the above activity information hazards are to be identified and recorded below using Appendix 'A' of SP/41

**Hazards identified**

1. Fall of parts during maintenance

2.      Entanglement in between blades, coupling, screws, moving wheels, etc.

3.      Entanglement of refractory bag in moving blades

4.      Fall / slip / overturning of mixer from unleveled area

5.     Fall of refractory bag, ghameela, tools, hammer, and blades.

6. Fall of castable in eyes

7. Chemical fumes may inhale

8. Fire, explosion.

9. Dust inhalation from castable powder.

10. Electrical Shock

11. Fall of refractory bricks on leg during shifting and relining

12. Fall of person from platform during dismantling

13. Cut injury due to sharpness of brick in corner areas.

***Human Hazards:***

1. Nonadherence to WI
2. Nonuse of PPE
3. Under alcohol
4. Not concentrating while work

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