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|  | **VEDANTA LIMITED –**  **VALUE ADDED BUSINESS** | **Format No.:** | **FRMT/MR/10** |
| **INTEGRATED MANAGEMENT SYSTEM** | **Revision Date:** | **04.04.2022** |
| **HAZARD IDENTIFICATION** | **Revision No.:** | **02** |
| **Page No.:** | **1 of 1** |

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| **Departmental Use Only** | |
| **Revision No:05** | **Unit: PID II** |
| **Revision Date: 22.08.2022** | **Dept.: Mechanical** |

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| **Sr.No.** | **Details** | **Remark** |
| 1) | Task being carried out, their duration and Frequency: | Maintenance of Mudgun  1-8 hrs  Occasionally |
| 2) | Location (s) where the work is carried out. | Cast house Blast furnace 3 |
| 3) | Who normally/occasionally carried out the task | Engineer in charge  Work men on the job |
| 4) | Who else may be affected by the work (For example visitors, subcontractors, the public) | Sub contractors  Workmen of production department |
| 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. | [WI/BF3/07](file://Mgr_maint/qehs/departmental%20manual/11%20%20Work%20instruction/WIMAINT19%20MAINTENANCE%20OF%20MUDGUN.doc) |
| 7) | Is the work permit required for the task | Yes |
| 8) | Plant and machinery that may be used:  Eg : crusher, conveyor, crane, heavy earthing equipment, Truck etc, | 16T crane |
| 9) | Any electrically operated hand tools are used | Grinder |
| 10) | Manufacturer’s 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. | 16T crane, 10T chain pulley block, slings, D-shackles, etc. |
| 12) | What materials are handled? Size, shape, surface character and weight of materials that may be handled: | Irregular – spare parts machine cylindrical  Approximately max 2T |
| 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. | 10 kg by hand (tools & tackles)  2 mt height approximately |
| 14) | Services used Eg: compressed air, oxygen, acetylene,  LPG gas, hydraulic oil, welding electrode for welding | Compress air for cleaning job  Welding electrode for welding |
| 15) | Physical form of substances encountered during the work (For example fume, gas, vapour, liquid, dust/powder, solid): | 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) | 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 1948 and Goa factory rules 1985-SRR/16  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: |  |

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

[Hazards identified](file://Mgr_maint/qehs/ohsas/5%20hazard%20identifaiction%20and%20risk%20assesment%20master%20list/7%20RISK%20ASSESMENT/RA%20WIMAINT19.xls)

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| **Mechanical Hazard** |
| 1. Trapping in between parts, weights, moving components. |
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| 2. Impact of hammer, weights, mudgun, etc. |
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| 3. Fall of objects such as hammer, barrel, piston, nozzle, etc. |
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| 4. Fall of person from height. |
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| 5.Entanglement while replacing the hose |
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| 6.Pressure of oil during sudden removal of hose in pressurized condition |
| 7.Hitting of mudgun due to failure of direction contro valve |
| **Physical Hazard** |
| 1. Burn injury from metal, hot mudgun clay, runner, furnace. |
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| 2. Pressure from hydraulic system, barrel clay pressure, furnace, etc. |
| Non use of PPE’s while carrying out the activity |
| Failure of lifting machines, handling machines such as chain pulley block, sling, D shackle etc |

**Human Behaviour -** Workmen under influence of alcohol

Violation of procedure

Not wearing PPE’s

Not concentrating while working

Horseplay

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| **Prepared By:**  **Site Engineer** | **Reviewed By:**  **Mech. Maint. HOD PID2** |
| **Signature:** | **Signature:** |
| **Review Date:03.01.2023** | **Review Date:03.01.2023** |

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