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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:07** | **Unit: PID II** |
| **Revision Date: 01.07.2022** | **Dept.: Mechanical** |

A. Work activity information

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| **Sr.No.** | **Details** | **Remark** |
| 1) | Task being carried out, their duration and Frequency: | Stock rod heavy bob replacement job  Stock rod wire rope changing  2 to 10 hrs  Monthly /6 months/yearly |
| 2) | Location (s) where the work is carried out. | Blast furnace Accessories |
| 3) | Who normally/occasionally carried out the task | Engineer in charge  Maintenance fitter on the job  Mechanical contractor workmen |
| 4) | Who else may be affected by the work (For example visitors, subcontractors, the public) | Production engineer |
| 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/BF3/05 |
| 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, | Nil |
| 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 |
| **Sr.No.** | **Details** | nil |
| 11) | Chain block, tools and shackles such as wire rope, hydraulic jack etc are used. | Stock rod  Wire rope 12mm and 8mm  Round  Approx 250 kg max |
| 12) | What materials are handled? Size, shape, surface character and weight of materials that may be handled: | 1 kg by hand (tools & tackles)  1 Mt height approximately max |
| 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. | Compressed air, oxygen,  LPG gas ,welding electrode for welding |
| 14) | Services used Eg: compressed air, oxygen, acetylene,  LPG gas, hydraulic oil, welding electrode for welding | Solid ,dust & fumes |
| 15) | Physical form of substances encountered during the work (For example fume, gas, vapour, liquid, dust/powder, solid): | NA |
| 16) | Content and recommendations of safety data sheets relating to substances used or encountered:  ( this is applicable in case of chemical material) | Factory Act 1948 and Goa factory rules 1985 ? SRR/16  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 | Nil |
| 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**

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| Trapping between two objects, |
| Fall of material, hammer, tools, slinged items, |
| bolts, wedges, stock rod, pulley |
| Cut on hand / leg due to damaged wire rope stands during shifting / removing |
| Fall of equipment / person from platform |
| Entanglement |
| Impact of moving / slinged items |
| **Human behavior**- alcoholism, back pain, casual approach |
| **Physical hazard**: Pressure , Temperature, Impact of nitrogen |
| **Chemical hazard** - Gas poisoning, Fire |
| **Electrical hazard** - Electrical shock  **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** |