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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:**  BF#3 |
| **Revision Date:** 15.05.2022 | **Dept.:**  Mech |

Doc: HI/BF#3/MAINT/93

A. Work activity information

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| **Sr.No.** | **Details** | **Remark** |
| 1) | Task being carried out, their duration and Frequency: | Lubrication  2 hrs  Weekly/Monthly |
| 2) | Location (s) where the work is carried out. | Blast furnace Accessories |
| 3) | Who normally/occasionally carried out the task | Engineer in charge  Maintenance Helper/Rigger on the job  Mechanical contractor workmen |
| 4) | Who else may be affected by the work (For example visitors, subcontractors, the public) | Production engineer /Production workmen |
| 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/BF3/93](file://Jprakash/IMS-mech%20on%20Jprakash/departmental%20manual/11%20%20Work%20instruction/WIMAINT39%20MAINTENANCE%20OF%20HYDRAULIC%20SYSTEM.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, | Nil |
| 9) | Any electrically operated hand tools are used | No |
| 10) | Manufacturer’s 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: | Hydraulic,,Lubrication oils & Grease the component  Irregular  Approx 200 kg 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. | 1 kg by hand (tools & tackles)  1 Mt height approximately max |
| 14) | Services used Eg: compressed air, oxygen, acetylene,  LPG gas, hydraulic oil, welding electrode for welding | Nil |
| 15) | Physical form of substances encountered during the work (For example fume, gas, vapor, liquid, dust/powder, solid): | Solid & liquid |
| 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  Hazardous waste   Yes |
| 18) | What is the data (s) required to be monitored during the activity and the frequency of monitoring. | Return of used oil to store. |
| 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: | Nil |

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

[Hazards identified](file://Jprakash/IMS-mech%20on%20Jprakash/ohsas/5%20hazard%20identifaiction%20and%20risk%20assesment%20master%20list/7%20RISK%20ASSESMENT/RA%20WIMAINT39.xls)

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| **Mechanical hazards** |
| 1. Trapping between the moving parts |
| 2.  Impact of hammer, tools, components. |
| 3.   Fall of materials such as hammer, pipe wrench, bolts, spanners, slinged items. |
| 4.    Entanglement between rotating components. |
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| **Human behavior aspect** : |
| 1. Alcoholism, non usage of PPE's, workmen nature and casual approach |
| **Physical hazards** |
| 1.      Pressure of hydraulic oil. |
| 2.      Temperature of oil. |
| 3.      Fall of oil in eyes, ears, mouth |
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| **Electrical hazards** |
| 1.      Electrical shock |
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| **Chemical Hazard** |
| 1. Fire. |

Human Behaviour - Workmen under influence of alcohol

Violation of procedure

Not wearing PPE’s

Not concentrating while working

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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** |