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|  | **VEDANTA LIMITED –**  **VALUE ADDED BUSINESS** | **Format No.:** | **FRMT/MR/10** |
| **INTEGRATED MANAGEMENT SYSTEM** | **Revision Date:** | **04.04.2023** |
| **HAZARD IDENTIFICATION** | **Revision No.:** | **02** |
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| **Departmental Use Only** | |
| **Revision No: 07** | **Unit: MCD** |
| **Revision Date: 04.04.2023** | **Dept.: MECH** |

**A. Work activity information**

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| **Sr.No.** | **Details** | **Remark** |
| 1) | Task being carried out, their duration and frequency: | Belt feeder and weigh feeder maintenance,  Time -Sub activity specific  Frequency.   1. PM – Monthly, 2. Other Maintenance jobs – On report |
| 2) | Location (s) where the work is carried out. | Raw material handling area blast furnace 1 & 2, plant No. 5, plant No. 8 and slag dryer plant.   1. Raw Material Handling at CHP, Jetty Unloaders and Bat 2 CSP. |
| 3) | Who normally/occasionally carries out the task? | Company workmen, contract workmen  Maintenance engineers |
| 4) | Who else may be affected by the work? (For example, visitors, subcontractors , the public) | Production, electrical and instrumentation engineers.  Other contract workmen and company workmen |
| 5) | a) Has the personnel been trained for performing the task?  b) Any special training required? | Yes (On the Job training)  No |
| 6) | Is the written system of work mandatory? If yes, state the procedure no. | [WI/MAINT/](../AppData/Local/Microsoft/Windows/departmental%20manual/11%20%20Work%20instruction/WIMAINT50%20RMHS%20%20MAINTENANCE.doc)22 **VL/IMS/MCD/WI/MECH/22** |
| 7) | Is the work permit required for the task? | Yes.  However, no work permit is required for routine inspection / checking |
| 8) | Plant and machinery that may be used:  Eg: crusher, conveyor, crane, heavy earthing equipment, Truck etc, | Hydra, tempo, truck mounted crane, Crane, etc. |
| 9) | Are any electrically operated hand tools used? | Grinder, vulcanizing machine, |
| 10) | Are the manufacturer’s or supplier’s instructions for operation and maintenance of plant machinery and powered hand tools, available? | Yes - grinding machine.  Nil – vulcanizing machine.  Both machines are checked by electrical and certified before usage. |
| 11) | Are any chain blocks, tools and tackles such as wire ropes, hydraulic jacks etc used? | 1. 2 t / 3t chain block is used, if required. 2. Wire ropes as per capacities. 3. Hydraulic Jack up to 50 T Capacity |
| 12) | What material is normally handled? Size, shape, surface character and weight of materials that may be handled: | Irregular shaped. Mostly structures like gear boxes, drums, rollers, bearing, motors, structural members etc  Different weights. |
| 13) | Is the material required to be moved by hand? If yes, distance and heights of the place where materials have to moved, by hand. | 0 - 25 kgs (max)by hand  2 – 50 mtr |
| 14) | Services used eg: compressed air, oxygen, acetylene,  LPG gas, hydraulic oil, welding electrodes.. | Compressed air for cleaning job.  Welding machine  Oxygen / LPG gas, welding electrodes |
| 15) | Physical form of substances encountered during the work (For example fumes, gas, vapors, liquid, dust/powder, solid): | Solid & dust, gas |
| 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 reviewed for compliance to statutory requirement? | Factory Act 1948 and Goa Factory rule 1985 – SRR/16  Yes |
| 18) | What is the data 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? | Nil |

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

**B Hazard Identification**

* **Physical Hazard** Fall of oil in ears, eyes, mouth, Fire.

**Mechanical Hazard**

* Trapping between two objects,
* Fall of material like hammer, tools, slung items, bolts, rollers wedges, etc,
* Fall of person from platform.
* Fall of rotating part like coupling,
* Entanglement in between drums, belts, rollers, etc.
* Impact of moving / slung items
* Failure of welded hooks.
* Cut from tool.
* Flying off of gas cutting and welding sparks.

**Human behaviour aspect of operators**:

* Workmen nature.
* Improper housekeeping.
* Alcoholism.
* Casual approach.
* Back pain.
* Horse play.
* Non usage of PPE,s

Electrical Hazard

* Shock.

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| **Prepared By:**  **DM MECH MCD** | **Reviewed By:**  **HOD MECH MCD** |
| **Signature:** | **Signature:** |
| **Review Date: 04.04.2023** | **Review Date: 04.04.2023** |