|  |  |  |  |
| --- | --- | --- | --- |
|  | **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** |

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

|  |  |  |
| --- | --- | --- |
| **Sr.No.** | **Details** | **Remark** |
| 1) | Task being carried out, their duration and frequency: | Maintenance of drill machine  30 mins to 8 hrs  Occasionally |
| 2) | Location (s) where the work is carried out. | Caste house |
| 3) | Who normally/occasionally carries 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) | Production Engineer  workmen of production department |
| 5) | a)Has the personnel been trained for performing the task?  b) Any special training required? | Yes  No |
| 6) | Is the written system of work mandatory? If yes, state the procedure no. | WI/BF3/09 |
| 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) | Are any electrically operated hand tools used? | Grinder |
| 10) | Are the manufacturer’s or supplier’s instructions for operation and maintenance of plant machinery and powered hand tools, available? | Yes |
| **Sr.No.** | **Details** | **Remark** |
| 11) | Are any chain blocks, tools and tackles such as wire ropes, hydraulic jacks etc used? | Nil |
| 12) | What material is normally handled? Size, shape, surface character and weight of materials that may be handled: | Irregular – spare parts, cylinder  Approximately max 10 kg |
| 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. | 1 kg by hand (tools & tackles)  1.5 mt height & 2m distance approximately |
| 14) | Services used e.g.: compressed air, oxygen, acetylene,  LPG gas, hydraulic oil, welding electrodes. . | Compress air for cleaning job  Welding machine |
| 15) | Physical form of substances encountered during the work (For example fumes, gas, vapours, liquid, dust/powder, solid): | Solid, liquid & compressed air |
| 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 rules 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? |  |

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

**Mechanical hazard**

1. Trapping in between moving parts
2. Impact of hammer, drill machine, etc
3. Fall of objects such as hammer, bolts, steel items
4. Injection of metal parts
5. Human behavior aspect of operators: nature, alcoholism, casual approach & non usage of PPE’s
6. Back Pain due to sudden or heavy load like gear boxes, drums & motors
7. Non use of PPE’s while carrying out the activity
8. Failure of lifting machines, handling machines such as chain pulley block, sling, D shackle etc

**Physical hazard**

1. Burn injury due to hot metal splashing
2. Burn injury due to slip in launder / runner
3. Gas poisoning from furnace and tap hole.

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

Violation of procedure

Not wearing PPE’s

Not concentrating while working

Horseplay

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