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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: 3** | **Unit: SP** |
| **Revision Date: 29.01.2023** | **Dept.: MECHANICAL** |

Doc: HI/SP/MAINT/02

A. Work activity information Maintenance of Conveyors

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| **Sr.No.** | **Details** | **Remark** |
| 1) | Task being carried out, their duration and Frequency: | Maintenance of Conveyors  4hrs  Daily |
| 2) | Location (s) where the work is carried out. | Maintenance of Conveyors  Sinter plant |
| 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) | Production Engineer  Contractor workmen taken on labour supply |
| 5) | a)Has the personnel trained for performing the task  b) Any special training required | Yes (Past Experience)  No |
| 6) | Is the written systems of work mandatory. If yes state the procedure no. | VL IMS SP MECH SP WI 02 |
| 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, | Crane, Hydra |
| 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: | Yes |
| **Sr.No.** | **Details** |  |
| 11) | Chain block, tools and shackles such as wire rope, hydraulic jack etc are used. | Yes |
| 12) | What materials are handled? Size, shape, surface character and weight of materials that may be handled: | Irregular shape mostly structures, gear box and motor  Approximately max 1T |
| 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)  2 mt height approximately |
| 14) | Services used Eg: compressed air, oxygen, acetylene,  LPG gas, hydraulic oil, welding electrode for welding | Welding machine & LPG gas for cutting set |
| 15) | Physical form of substances encountered during the work (For example fume, gas, vapour, liquid, dust/powder, solid): | Solid & dust |
| 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: | No |

**Hazards identified**

1. Physical Hazard - Fire

Mechanical Hazard

1. Trapping / entanglement between two objects, drums, rollers, coupling, gravity movement, chute and drum
2. Fall of material like hammer, tools, slung items, bolts, rollers bracket, wedges, etc,
3. Fall of person from platform due to removal of grating / net, hand railing, corroded structure, keeping platform open
4. Impact of moving / slung items
5. Roll back of belt while laying due to failure of rope, clamp, lack of co-ordination, drive failure
6. Roll back of belt due to hold back / brake not holding
7. Trapping between drives / v- belt
8. Fingers get entangled in V belt / rollers
9. Trapping / entanglement due to removal of guards / while working in running conveyer
10. Trapping of loose clothes
11. Failure of counter weight and related structure
12. Failure of conveyer belt and resulting in fall with counter weight
13. Fall of vulcanising chemicals in eyes / ear
14. Drinking chemicals/ vulcanising compound by mistake / thinking it as drinking water
15. Hazards related to grinding activity
16. Hazards related to drilling activity
17. Hazards related to chisel usage
18. Hazards related to usage of wrong tools
19. Failure of sling / chain block / hoist / hydra etc
20. Failure of hoist including rope failure, hoist coming out from beam etc
21. Hazards related to poor illuminations (fall hazard / tripping/ etc)
22. Tripping due to poor house keeping
23. Fall of tools, metal pieces through grating
24. Hazards related to erection and dismantling
25. Hazards related to gas cutting and welding
26. Hazards related to material handling
27. Hazards related to improper electrical shutdown and non compliance of PTW.

**Electrical hazard**

1. Electric shock on equipment

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| **Prepared By:** | **Reviewed By:** |
| **Signature:** | **Signature:** |
| **Review Date: 29.01.2023** | **Review Date: 29.01.2023** |