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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: 06** | **Unit: SP** |
| **Revision Date: 20.12.2022** | **Dept.: Mechanical** |

A. Work activity information

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| **Sr.No.** | **Details** | **Remark** |
| 1) | Task being carried out, their duration and Frequency: | Maintenance of LPG System  6hrs  Monthly |
| 2) | Location (s) where the work is carried out. | LPG Bank (HESP GF), Sinter machine (18mtrs) |
| 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. | WI/SP/MAINT/23 |
| 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: | No |
| 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. | No |
| 14) | Services used Eg: compressed air, oxygen, acetylene,  LPG gas, hydraulic oil, welding electrode for welding | No |
| 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 |

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

Hazards identified

1. Physical Hazard - Fire

Mechanical Hazard

1. Trapping / entanglement between two objects.
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. Inhaling of dust.
6. Hazards related to grinding activity
7. Hazards related to chisel usage
8. Hazards related to usage of wrong tools
9. Failure of sling / chain block / hoist / hydra etc
10. Failure of hoist including rope failure, hoist coming out from beam etc
11. Hazards related to poor illuminations (fall hazard / tripping/ etc)
12. Tripping due to poor hose keeping
13. Fall of tools
14. Hazards related to erection and dismantling
15. Hazards related to gas cutting and welding
16. Hazards related to material handling
17. Hazards related to improper shutdown and non compliance of PTW.

**Electrical hazard**

1. Electric shock on equipment

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| **Prepared By:**  **Mechanical In charge Sinter plant** | **Reviewed By:**  **HOD Mechanical Maintenance PID-2** |
| **Signature:** | **Signature:** |
| **Review Date: 20.12.2022** | **Review Date: 20.12.2022** |