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| A picture containing drawing  Description automatically generated | **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: PP2** |
| **Revision Date: 05.08.2023** | **Dept.: MECHANICAL** |

A. Work activity information : Chimney Repair

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| **Sr.No.** | **Details** | **Remark** |
| 1) | Task being carried out, their duration and Frequency: | Fabrication Dismantling and erection of Structural jobs  Occasionally |
| 2) | Location (s) where the work is carried out. | Boiler, STG, other plant area |
| 3) | Who normally/occasionally carried out the task | Engineer in charge  Maintenance fitter/welder on the job  Contractor workmen on job |
| 4) | Who else may be affected by the work (For example visitors, subcontractors, the public) | Contractor work |
| 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. | **VL/IMS/PP2/MECH/WI/25** |
| 7) | Is the work permit required for the task | Yes as per the area of the Job |
| 8) | Plant and machinery that may be used:  Eg : crusher, conveyor, crane, heavy earthing equipment, Truck etc, | Crane, Truck, Hydra |
| 9) | Any electrically operated hand tools are used | Grinder, drilling machine. |
| 10) | Manufacturer’s or supplier’s instructions for operation and maintenance plant machinery and powered hand tools are available or not: | Yes |
| 11) | Chain block, tools and shackles such as wire rope, hydraulic jack etc are used. | Certified Chain pulley block of rated capacity, slings, D-shackles |
| 12) | What materials are handled? Size, shape, surface character and weight of materials that may be handled: | Structural members  Cylindrical  Approx 10MT max depending on capacity of crane |
| 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. | 5 kg by hand (tools & tackles)  10 to 30 Mt height approximately max |
| 14) | Services used Eg: compressed air, oxygen, acetylene,  LPG gas, hydraulic oil, welding electrode for welding | Yes – Welding electrode for welding  Oxygen, Acetylene |
| 15) | Physical form of substances encountered during the work (For example fume, gas, vapor, liquid, dust/powder, solid): | Solid ,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 is reviewed for compliance to statutory requirement | Gas Cylinder rule 1981  Yes |
| 18) | What is the data (s) required to be monitored during the activity and the frequency of monitoring. |  |
| 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: | . |

**Hazards identified**

1. **Mechanical hazard -**

Failure of sling, D shackle, chain pulley block, body harness due to improper clamping,

Falling of objects, tools and other material from height

Fall of person from height above 10 to 40 material handling heavy load and improper posture

Slipping/Rolling of trolley while loading/unloading, Sliding/rolling of the material from vehicle.

1. **Electrical hazard**

Electric shock from overhead lines or welding

Short circuit due to failure of electrical system

Electric shock from battery terminal

1. **Physical hazard**

Contact, Impact, trapping between two object,

1. **Human behaviours**

Non usage of PPE, hydra ooperator nature, alcoholism, casual approach.

Fire due to fall of sparks welding / gas cutting

Human behavior aspect of operators : Operator nature, alcoholism, casual approach & non usage of PPEs.

1. **Chemical hazard** - Fire & Explosion

Hydra, Vehicle emission, Pressure due to failure of air /hydraulic system.

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| **Prepared By:** Engineer– Operation – PP | **Reviewed By: Head - Power** |
| **Signature:** | **Signature:** |
| **Date: 05.08.2023** | **Date: 05.08.2023** |