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| Logo  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: 03** | **Unit: Power plant 1** |
| **Revision Date: 07/08/2023** | **Dept.: MECHANICAL** |

1. **Work activity information : Welding work at inside of Boiler confined space**

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| **Sr. No.** | **Details** | **Remark** |
| 1) | Task being carried out, their duration and Frequency: | Welding work at inside of Boiler  Duration – 8 to 12 hrs.  Frequency – during tube failure, |
| 2) | Location (s) where the work is carried out. | Boiler 1 & 2. |
| 3) | Who normally/occasionally carried out the task | Company Employees & contractor workmen. |
| 4 | Who else may be affected by the work (For example visitors, subcontractors, the public) | People working inside the boiler |
| 5 | Training, that personnel have received the task; | -Yes, |
| 6 | Written systems of work and/or permit to work procedures prepared for the task: | WI/MECH/09 |
| 7 | Plant and machinery that may be used: | Rectifiers / transformers, |
| 8 | Powered hand tools that may be used: | Grinding machine, |
| 9 | Manufacturer’s or supplier’s instructions for operation and maintenance plant machinery and powered hand tools: | -na |

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| 10 | Size, shape, surface character and weight of materials that may be handled: | , welding cable,tube.cutting set |
| 11 | Distance and heights of the place where materials have to move by hand.: | Upto 30 mts. |
| 12 | Services used (For example compressed air): | - |
| 13 | Substance used or encountered during the work.: | Gases & welding fumes. |
| 14 | Physical form of substances used or encountered (For example fume, gas, vapour, liquid, dust/powder, solid): | , Solid |
| 15 | Content and recommendations of safety data sheets relating to substances used or encountered: | - |
| 16 | Relevant acts, regulations and standards relating to the work being done, the plant and machinery used and the materials used or encountered: | Factories Act |
| 17 | Available monitoring data gained as a result of information from within and outside the organisation, incident, accident and ill health experience associated with the work being done, equipment and substances used: | No near miss & accident cases found |

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

**Hazards Identified**

1. **Mechanical hazard -**

Falling of objects, tools and other material from height

Material handling heavy load and improper posture

Entanglement of material

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, CO monitor to be use while working in BFG system.

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| **Prepared By:** Engineer– MECHANICAL – PP | **Reviewed By:** Head -Power |
| **Signature:** | **Signature:** |
| **Date: 07.08.2023** | **Date: 07.08.2023** |