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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 : : Structural bridge replacement.**

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| **Sr. No.** | **Details** | **Remark** |
| 1) | Task being carried out, their duration and Frequency: | Structural repair works-as & when require  Duration24 hrs, occasionally |
| 2) | Location (s) where the work is carried out. | BFG and entire plant system |
| 3) | Who normally/occasionally carried out the task | Company employee operator/contractor |
| 4) | Who else may be affected by the work (For example visitors, subcontractors, the public) | contractor |
| 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. | WI/MAINT/51 |
| 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, | No |
| 9) | Any electrically operated hand tools are used | 24volt supply, grinder machine, certified tools, machineries. |
| 10) | Manufacturer’s or supplier’s instructions for operation and maintenance plant machinery and powered hand tools are available or not: | no |
| 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: | Structural material,  Bridge size 25mtr2.5mt2.5 mtr, 6 to 8 Mt |
| 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): | Gas , dust/powder |
| 16) | Content and recommendations of safety data sheets relating to substances used or encountered:  ( this is applicable in case of chemical material) | nil |
| 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 |
| 18) | What is the data (s) required to be monitored during the activity and the frequency of monitoring. | Welding cable, cutting hose, co level at work area |
| 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: | Yes,  FAI on 03.03.14. Helper of M/S Gurukrupa was shifting scrap economizer tubes from Boiler-2. In the process of shifting his thumb of right hand got impinged between the tubes resulting in a minor cut |

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

**Hazards identified**

**Electrical Hazard: Electric shock,**

**Physical Hazards** : Entanglement, trapping inside pipe.

**Mechanical Hazards :** Contact Material, height work,

**Human error/human behavior**: Non use of PPE,

**Chemical Hazard** – Fire & Explosion, Fumes,

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