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|  | **VEDANTA LIMITED –**  **VALUE ADDED BUSINESS** | **Format No.:** | **FRMT/MR/10** |
| **INTEGRATED MANAGEMENT SYSTEM** | **Revision Date:** | **04.04.2023** |
| **HAZARD IDENTIFICATION** | **Revision No.:** | **02** |
| **Page No.:** | **1 of 4** |

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| **Departmental Use Only** | |
| **Revision No: 04** | **Unit: MCD** |
| **Revision Date: 04.04.2023** | **Dept.: MECH** |

**A Work Activity Information**

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| **Sr.No.** | **Details** | **Remark** |
| 1) | Task being carried out, their duration and frequency: | Rail repair and girder alignment work  Duration- 4-8 hrs.  As per requirement. |
| 2) | Location (s) where the work is carried out. | Ram Car, Charge car, Hot Coke Car, Oven top |
| 3) | Who normally/occasionally carries out the task? | Company Technician & Contract workmen |
| 4) | Who else may be affected by the work? (For example visitors, subcontractors , the public) | Nil |
| 5) | a)Has the personnel been trained for performing the task?  b) Any special training required? | Yes  No |
| 6) | Is the written system of work mandatory? If yes, state the procedure no. | Yes. WI/Mech/25 |
| 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, | Nil |
| 9) | Are any electrically operated hand tools used? | Grinding m/c |
| 10) | Are the manufacturer’s or supplier’s instructions for operation and maintenance of plant machinery and powered hand tools, available? | Yes |
| 11) | Are any chain blocks, tools and tackles such as wire ropes, hydraulic jacks etc used? | cutting set, welding machine, Spanner set |
| 12) | What material is normally handled? Size, shape, surface character and weight of materials that may be handled: | Rail, I Beam  13 mt lenght  Weighing ~650 kg |
| 13) | Is the material required to be moved by hand? If yes, distance and heights of the place where materials have to moved, by hand. | Yes, ground level |
| 14) | Services used e.g.: compressed air, oxygen, acetylene,  LPG gas, hydraulic oil, welding electrodes. . | Compressed oxygen, acetylene, welding electrodes |
| 15) | Physical form of substances encountered during the work (For example fumes, gas, vapours, liquid, dust/powder, solid): | Gas, vapours, coal powder, solid |
| 16) | Content and recommendations of safety data sheets relating to substances used or encountered:  ( this is applicable in case of chemical material) | MSDS of coal |
| 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 reviewed for compliance to statutory requirement? | 1. Factory act 2. No |
| 18) | What is the data 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? |  |

**B Hazard Identification**

1. Physical Hazard

* coal dust and fines
* Contact with hot surface
* Electrical shock
* High Temperature

1. Mechanical Hazard

* Impact, Entrapment, Entanglement, Hit, Cut, Slip , trip and fall

1. Chemical Hazard

* Fire and explosion, fumes.

1. Ergonomical Hazard

* Poor workplace design

1. Health Hazard :

* Inhalation of coal dust

1. Human behavior:

* Alcoholism.
* Casual approach.
* Horse play.
* Non usage of PPE’s
* Improper Housekeeping
* Height Phobia

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| **Prepared By:**  **DM MECH MCD** | **Reviewed By:**  **HOD MECH MCD** |
| **Signature:** | **Signature:** |
| **Review Date: 04.04.2023** | **Review Date: 04.04.2023** |