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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 3** |

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| **Departmental Use Only** | |
| **Revision No: 06** | **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:** | Quench pusher blade maintenance (chain link inspection & changing)  Duration - 6 hrs.  Frequency: Monthly/ Quarterly/ H.Yealry/Yearly. |
| 2) | **Location (s) where the work is carried out.** | Quench tower |
| 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?** | No |
| 8) | **Plant and machinery that may be used:**  **Eg : crusher, conveyor, crane, heavy earthing equipment, Truck etc,** | Hot Coke Car, F-15 crane |
| 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?** | Chain block, sling, cutting set, Spanner set |
| 12) | **What material is normally handled? Size, shape, surface character and weight of materials that may be handled:** | Chain links, shaft, tray of irregular size and shape weighing ~6 kg-200 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, about 3 mts |
| 14) | **Services used e.g.: compressed air, oxygen, acetylene,**  **LPG gas, hydraulic oil, welding electrodes. .** | Compressed oxygen, acetylene |
| 15) | **Physical form of substances encountered during the work (For example fumes, gas, vapours, liquid, dust/powder, solid):** | Gas, vapours, coke powder, liquid, 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 coke |
| 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

* flying of coke dust and fines
* Contact with hot structural parts
* Electrical shock
* High Temperature

1. Mechanical Hazard

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

1. Chemical Hazard

* Fire and explosion, fumes.

1. Ergonomical Hazard

* Poor workplace design

1. Human behaviour aspect of operators:

* 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** |