|  |  |  |  |
| --- | --- | --- | --- |
|  | **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** |

|  |  |
| --- | --- |
| **Departmental Use Only** | |
| **Revision No: 06** | **Unit: MCD** |
| **Revision Date: 04.04.2023** | **Dept.: MECH** |

***A Work Activity Information***

|  |  |  |
| --- | --- | --- |
| Sr.No. | **Details** | Remark |
| 1) | **Task being carried out, their duration and frequency:** | Dismantling & Fixing of Sheets  Duration: varies with area and location  Frequency: need basis |
| 2) | **Location (s) where the work is carried out.** | Coal sheds, office, store, workshop, Screening towers, Conveyor towers, Battery machines, oven-top |
| 3) | **Who normally/occasionally carries out the task?** | 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/52 |
| 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?** | Drilling machine, Angle grinder |
| 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?** | Spanner set, manila rope, pulley, hook |
| 12) | **What material is normally handled? Size, shape, surface character and weight of materials that may be handled:** | Corrugate AC and Metallic sheet in rectangular shape and in various sizes  5-15 kgs |
| 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 by hand-pulley, GL to 25 mts |
| 14) | **Services used e.g.: compressed air, oxygen, acetylene,**  **LPG gas, hydraulic oil, welding electrodes. .** | Nil |
| 15) | **Physical form of substances encountered during the work (For example fumes, gas, vapours, liquid, dust/powder, solid):** | Coal/ coke powder, asbestos 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 coke, coal & asbestos |
| 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?** | * On 05.12.2018 MCD senior leader team was on site round to check the preparation for VSAP Audit. During our round at Shubham yard, it was found that one of the Shubham engg. groups were involved in sheet cutting job. They were cutting the sheets by using portable grinder machine instead of cutting wheels. * On 01.10.2018 at around 20.30 hrs, during heavy rains and winds coal shed asbestos roof sheets at bay no.26 fly off and fallen down and brushed against the rear side of wheel loader. * On 21.03.2018 While replacing roof sheets of old coal shed in bay 18 one contractor workmen fell from approximately 7.0 mtr height. * On 27/01/2017 at 14:30 hrs 3 nos cement roof sheets slided from the roof of bay no 13 in coal shed. * Incident04/MECH/MAR/08 for fall of sheet in PCM Incident24/MECH/MAR/07 fall of sheet from height * Accident in Met coke due to failure of translucent sheet. |

**B Hazard Identification**

1. Physical Hazard

* Flying of coke dust and fines
* Contact with hot structural parts
* Electrical shock
* High Temperature
* High velocity Wind
* Rain or thunderstorm
* Dew
* Poor visibility

1. Mechanical Hazard

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

1. Chemical Hazard: NIL
2. Ergonomical Hazard

* Poor workplace design

1. Health Hazard :

* Inhalation of coal dust
* Inhalation/ exposure to asbestos

1. Human behaviour aspect of operators:

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

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