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|  | **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: PID-1** |
| **Revision Date: 10.12.22** | **Dept.: Mechanical** |

1. Work activity information

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| **Sr.No.** | **Details** | **Remark** |
| 1) | Task being carried out, their duration and Frequency: | Erection, dismantling and hook changing of roof sheets  8 hrs  Occasionally as per schedule |
| 2) | Location (s) where the work is carried out. | Blast Furnace and accessories , Administrative building , Canteen etc. |
| 3) | Who normally/occasionally carried out the task | Engineer in charge  Contractor workmen on job |
| 4) | Who else may be affected by the work (For example visitors, subcontractors, the public) | Production Department  Workmen working below nearby area |
| 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/24](..\..\..\departmental%20manual\11%20%20Work%20instruction\WIMAINT24%20CHANGING%20OF%20ROOF%20SHEETS.doc) |
| 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, | Hydra, truck |
| 9) | Any electrically operated hand tools are used | Drill machine |
| 10) | Manufacturer’s or supplier’s instructions for operation and maintenance plant machinery and powered hand tools are available or not: | Yes |
| **Sr.No.** | **Details** | **Remark** |
| 11) | Chain block, tools and shackles such as wire rope, hydraulic jack etc are used. | 1” manilla rope, D-shackle, slings |
| 12) | What materials are handled? Size, shape, surface character and weight of materials that may be handled: | Irregular  Approximately max 20 kg |
| 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. | 20 kg by hand – pulley arrangement (tools & tackles)  25 mt height approximately |
| 14) | Services used Eg: compressed air, oxygen, acetylene,  LPG gas, hydraulic oil, welding electrode for welding | Oxygen, Welding electrode for welding |
| 15) | Physical form of substances encountered during the work (For example fume, gas, vapor, liquid, dust/powder, solid): | Solid & gases |
| 16) | Content and recommendations of safety data sheets relating to substances used or encountered:  ( this is applicable in case of chemical material) | NA |
| 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 1948 and Goa Factory rules 1985-SRR/16  Hazardous waste Amendment Rules 2003  Yes |
| 18) | What is the data (s) 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 24.01.2020 at around 6.30 p.m. at Hot Metal Crane area while lifting the sheets for changing the side sheets one of the sheet fell down from the lifting hook due to obstruction with the structure while lifting. There was no injury to anyone.  Proper Barricading was done on the ground and also two standby person were kept to alert people moving around.  -on 21.3.2018, at MCD  While replacing roof sheets of old coal shed in bay 18 one contractor workmen Mr. Sarfaraz Mohammad Sheikh of M/s Jayanthy Construction fell from approximately 7.0 mtr height. He was referred to dispensary & later shifted to hospital for further treatment.  Incident 24/MECH/MAR/07 fall of sheet from height  Accident in Met coke due to failure of translucent sheet.  Incident 04/MECH/MAR/08 for fall of sheet in PCM |

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

[**Hazards identified**](..\7%20RISK%20ASSESMENT\RA%20WIMAINT24.xls)

**Mechanical Hazard**

1. Fall of person from height
2. Collapsing of scaffolding
3. Slipping of person.
4. Fall of material. (roof sheet, tools, J- hooks)
5. Drowning of person while working on roof above open water tanks.

**Chemical Hazard**

1. Inhalation of Toxic chemicals.
2. CO gas poisoning while doing sheeting job near gas line.
3. Asbestos dust while replacing old asbestos sheets

**Physical Hazard –**

1. Fall of objects in eyes
2. Storm, rainfall

**Electric hazard**

1. Electric shock while use of portable drill machine.

**Human Behavioral hazards**

1. Casual approach of person
2. Horse play
3. working under the influence of alcohol
4. Not using

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| **Prepared By: Siddharth Naik** | **Reviewed By: Nellaiappan** |
| **Signature:** | **Signature:** |
| **Date:10.12.2022** | **Date: 10.012.2022** |