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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:3** | **Unit: SP** |
| **Revision Date: 20.01.2023** | **Dept.: Mechanical** |

Doc: HI/SP/MAINT/11

A. Work activity information Maintenance of Head ESP

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| **Sr. No.** | **Details** | **Remark** |
| 1) | Task being carried out, their duration and Frequency: | ESP Maintenance |
| 2) | Location (s) where the work is carried out. | Head ESP |
| 3) | Who normally/occasionally carried out the task | Engineer in charge  Work men on the job |
| 4) | Who else may be affected by the work (For example visitors, subcontractors, the public) | Production Engineer  Contractor workmen taken on labour supply |
| 5) | a)Has the personnel trained for performing the task  b) Any special training required | Yes (Past Experience)  No |
| 6) | Is the written system of work mandatory? If yes state the procedure no. | WI/SP/MAINT/ 11 |
| 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, | Crane hydra |
| 9) | Any electrically operated hand tools are used | Grinder, Welding Machine |
| 10) | Manufacturer’s or supplier’s instructions for operation and maintenance plant machinery and powered hand tools are available or not: | Yes |
| 11) | Chain blocks 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: | Irregular shape mostly structures, gear box and motor  Approximately max 1T |
| 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): | Solid & dust, heat |
| 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  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 12.08.2014 at around 09.45 hrs one of the MCK rigger (Mr. Birendher Sen, G.P..no: 1576)  while walking towards tail end ESP area his leg got twisted and got sprain in his left leg. Returned duty after first aid. |

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

**Hazards identified**

1. Physical Hazard - Fire

Mechanical Hazard

1. Trapping / entanglement between two objects.
2. Fall of material like hammer, tools, slung items, bolts, rollers bracket, wedges, etc,
3. Fall of person from platform due to removal of grating / net, hand railing, corroded structure, keeping platform open
4. Impact of moving / slung items
5. Inhaling of dust.
6. Hazards related to grinding activity
7. Hazards related to gas cutting and welding
8. Hazards related to poor illuminations (fall hazard / tripping/ etc)

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| **Prepared By:** | **Reviewed By:** |
| **Signature:** | **Signature:** |
| **Review Date:20.01.2023** | **Review Date:20.01.2023** |