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| Logo  Description automatically generated | **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: Power plant 1** |
| **Revision Date: 07/08/2023** | **Dept.: MECHANICAL** |

A.  **Work activity information : Cooling tower & its accessories maintenance**

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| Sr.No. | Details | Remark |
| 1) | Tasks being carried out, their duration and frequency: | Cooling tower & its accessories maintenance  8 – 12 hrs  During shutdown |
| 2) | Location (s) where the work is carried out. | Cooling tower |
| 3) | Who normally/occasionally carries out the task? | Engineers, workmen/contractors |
| 4) | Who else may be affected by the work? (For example visitors, subcontractors , the public) | Production |
| 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. | WI/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 earth moving equipment, Truck etc, | Nil |
| 9) | Are any electrically operated hand tools used? | Grinding machine ( depending upon the job) |
| 10) | Are the manufacturer’s or supplier’s instructions for operation and maintenance of plant machinery and powered hand tools, available? | no |
| 11) | Are any chain blocks, tools and tackles such as wire ropes, hydraulic jacks etc used? | Yes |
| 12) | What is the material normally handled? Size, shape, surface character and weight of materials that may be handled: | Chain block, lifting stand |
| 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. | 25 kg by hand (tools & tackles, small structures)  20 Mt heights approximately max. |
| 14) | Services used eg: compressed air, oxygen, acetylene,  LPG gas, hydraulic oil, welding electrodes. . | Compress air |
| 15) | Physical form of substances encountered during the work (For example fumes, gas, vapors, liquid, dust/powder, solid): | Solid, liquid,gas |
| 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 reviewed for compliance to statutory requirement? | na |
| 18) | What is the data required to be monitored during the activity and the frequency of monitoring? | NA |
| 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? | nil |

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

[**Hazards identified**](http://sgl-panj-sp-01:8080/shama/INTIGRATED%20SYSTEM-SIL/QEHS%20SYSTEM/ALL%20DEPT%20MANUAL/MECH%20DM/qehs/ohsas/5%20hazard%20identifaiction%20and%20risk%20assesment%20master%20list/4%20RISK%20ASSESMENT/WIMAINT44%20MAINTENANCE%20OF%20PUMP.xls)

A. Mechanical Hazard: Fall of object, man and material

B. Physical Hazard: Impact, trapping,

C. Electrical Hazard: Electric shock.

D. Human behavioural: Non use of PPE, improper housekeeping,

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| **Prepared By:** Engineer– MECHANICAL – PP | **Reviewed By:** Head -Power |
| **Signature:** | **Signature:** |
| **Date: 07.08.2023** | **Date: 07.08.2023** |