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| A picture containing graphics, font, graphic design, 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** |

**Rev No: 2**

Unit: PID 1

Date: 04.04.2022 Dept: ELECTRICAL

ELECT-09

Work activity information : **Lead acid battery maintenance**

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| **Sr.No.** | **Details** | **Remark** |
| 1) | Task being carried out, their duration and Frequency: | Lead acid battery maintenance  Duration: 04 hrs  Frequency: weekly |
| 2) | Location (s) where the work is carried out. | DG house, TG and BF II battery bank |
| 3) | Who normally/occasionally carried out the task | Electrical Engineer, Electrician and contractor employee |
| 4) | Who else may be affected by the work (For example visitors, subcontractors, the public) | Subcontractor and visitors |
| 5) | a)Has the personnel trained for performing the task  b) Any special training required | Yes  Nil |
| 6) | Is the written systems of work mandatory. If yes state the procedure no. | WI/ELECT/18 |
| 7) | Is the work permit required for the task | Not required |
| 8) | Plant and machinery that may be used:  Eg : crusher, conveyor, crane, heavy earthing equipment, Truck etc, | Nil |
| 9) | Any electrically operated hand tools are used | Nil |
| 10) | Manufacturer’s or supplier’s instructions for operation and maintenance plant machinery and powered hand tools are available or not: | NA |
| **Sr.No.** | **Details** |  |
| 11) | Chain block, tools and shackles such as wire rope, hydraulic jack etc are used. | Nil |
| 12) | What materials are handled? Size, shape, surface character and weight of materials that may be handled: | Lead acid Battery |
| 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. | 10 mts distance at a height of 06 mts through staircase |
| 14) | Services used Eg: compressed air, oxygen, acetylene,  LPG gas, hydraulic oil, welding electrode for welding | Compressed air |
| 15) | Physical form of substances encountered during the work (For example fume, gas, vapour, liquid, dust/powder, solid): | Fumes |
| 16) | Content and recommendations of safety data sheets relating to substances used or encountered:  ( this is applicable in case of chemical material) | MSDS for H2SO4 |
| 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 | Indian electricity rule 1956  Not applicable |
| 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: | Near miss case dated 14/02/05:  While carrying TG battery load test, batteries were isolated from the charger and charger only was supplying 110 volts DC to the load utilities. When grid supply failed, blower 5/I did not tripped, as DC supply supplied by the charger was not pure DC. So when grid supply resumed back, since the breaker was already ON, blower stated on load |

**Hazards identified**

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| **Prepared By:**  Senior Elect. Engineer | **Reviewed & Issued By:**  Management Representative | **Approved By:**  Head – Electrical & Instrumentation PID I |
| **Signature** | **Signature:** | **Signature:** |
| **Review Date: 04.03.2023** | **Review Date: 04.03.2023** | **Review Date: 04.03.2023** |