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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:** 02 | **Unit: PID-1** |
| **Revision Date: 13.09.2023** | **Dept.: INSTRUMENTATION** |

1. Work activity information Gas Cutting and Electric Arc Welding

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| **Sr.No.** | **Details** | **Remark** |
| 1) | Task being carried out, their duration and Frequency: | Gas cutting and Electric arc welding  8 hrs / As and when required |
| 2) | Location (s) where the work is carried out. | All over the plant |
| 3) | Who normally/occasionally carried out the task | Contractor |
| 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  No |
| 6) | Is the written systems of work mandatory. If yes state the procedure no. | Yes-SP/44 |
| 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, | Dry Acetylene, Oxygen cylinder ,pressure gauges, Hoses ,Welding machine |
| 9) | Any electrically operated hand tools are used | Portable hand grinder |
| 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. | No |
| 12) | What materials are handled? Size, shape, surface character and weight of materials that may be handled: | Long noses containing Oxygen and dry Acetylene and welding cable |
| 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. | Yes-distance=20mtrs  Height-70 mtrs |
| 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): | Gas , Dust, Fumes |
| 16) | Content and recommendations of safety data sheets relating to substances used or encountered:  ( this is applicable in case of chemical material) | N/A |
| 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  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: | Nil |
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2. From the above activity information hazards are to be identified and recorded below using Appendix 'A' of SP/41

[**Hazards identified**](../Risk%20Assessment%20Instrumentation/10R%20Gas%20Cutting%20and%20Electric%20Arc%20welding%20%20.xls)

**Chemical:**

* Fumes

**Physical:**

* Electric shock
* Burn Injuries

**Human behaviour:**

* Not adhering to WI/ PPE
* Alcoholism
* Equipment handling by unskilled person.
* Working under unsafe conditions
* Use of uncertified equipment’s

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| **Prepared By:**  Head Instrumentation PID1 | **Reviewed By:** Head – Electrical & Instrumentation PID1 |
| **Signature:** | **Signature:** |
| **Review Date:13.09.2023** | **Review Date: 13.09.2023** |