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| A picture containing drawing  Description automatically generated | **VEDANTA LIMITED –**  **VALUE ADDED BUSINESS** | **Format No.:** | **FRMT/MR/10** |
| **INTEGRATED MANAGEMENT SYSTEM** | **Revision Date:** | **15.04.2020** |
| **HAZARD IDENTIFICATION** | **Revision No.:** | **01** |
| **Page No.:** | **1 of 1** |

**Rev No:** 05 Unit: PID-1

Date: 05.01.2022 Dept: E&I

1. Work activity information: Flare stack Instruments and Control Circuit Check UP

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| **Sr.No.** | **Details** | **Remark** |
| 1) | Task being carried out, their duration and Frequency: | Flare stack Instruments and control circuit check up  2 hrs |
| 2) | Location (s) where the work is carried out. | Flare stack of Bf1, Bf2 and GEPL. |
| 3) | Who normally/occasionally carried out the task | Instrument engineer and technician |
| 4) | Who else may be affected by the work (For example visitors, subcontractors, the public) | Contractors and Subcontractors |
| 5) | a)Has the personnel trained for performing the task  b) Any special training required | Yes-Working at a height |
| 6) | Are the written systems of work mandatory? If yes state the procedure no. | Working at height  SP/44  Work permit  WI 14 |
| 7) | Is the work permit required for the task | Yes (VL/IMS/VAB/SP45) |
| 8) | Plant and machinery that may be used:  Eg : crusher, conveyor, crane, heavy earthing equipment, Truck etc, | NA |
| 9) | Any electrically operated hand tools are used | N/A |
| 10) | Manufacturer’s or supplier’s instructions for operation and maintenance plant machinery and powered hand tools are available or not: | N/A |
| **Sr.No.** | **Details** | **Remark** |
| 11) | Chain block, tools and shackles such as wire rope, hydraulic jack etc are used. | Wire rope |
| 12) | What materials are handled? Size, shape, surface character and weight of materials that may be handled: | Thermocouple, multimeter, handplier, Adjustable Spanner, CO detector, Ignition electrode  All small and light in weight |
| 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-20-30 meters above ground |
| 14) | Services used Eg: compressed air, oxygen, acetylene,  LPG gas, hydraulic oil, welding electrode for welding | N/A |
| 15) | Physical form of substances encountered during the work (For example fume, gas, vapour, liquid, dust/powder, solid): | CO gas, Dust |
| 16) | Content and recommendations of safety data sheets relating to substances used or encountered:  ( this is applicable in case of chemical material) | Data on toxic effect of CO treatment |
| 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 | N/a  Yes |
| 18) | What is the data (s) required to be monitored during the activity and the frequency of monitoring. | Level of CO gas at all times |
| 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: | CO gas level content should be less than 50ppm |

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/01R%20flarestk%20thermcple%20.xls)

Mechanical Hazard

* Impact
* Falling from height

Physical Hazard

* Temperature
* Electric Shock
* Exposure to high pressure
* Exposure to high noise

Chemical Hazard

* Gas poisoning
* Dust and Fumes
* Steam

Human Behavior

* Not adhering to WI/ PPE
* Alcoholism
* Touching thermocouple tip with bare hands
* Throwing materials from flare stack top
* Improper communication
* Gas line water sealing Lockout tagout not done.
* Use on non-certified tools/equipment

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| **Prepared By:**  Associate Manager– Electrical & Instrumentation PID1 | **Reviewed & Issued By:**  Management Representative | **Approved By:**  Head – Electrical & Instrumentation PID 1 |
| **Signature:** | **Signature:** | **Signature:** |
| **Date:** **05/01/2022** | **Date: 05/01/2022** | **Date: 05/01/2022** |