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| **Departmental Use Only** | |
| **Revision No: 03** | **Unit: PID-1** |
| **Revision Date: 10.12.22** | **Dept.: Mechanical** |

1. Work activity information

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| **Sr.No.** | **Details** | **Remark** |
| 1) | Task being carried out, their duration and Frequency: | Spray pipe cleaning  1 hrs to 6 hrs  Daily |
| 2) | Location (s) where the work is carried out. | Blast Furnace accessories |
| 3) | Who normally/occasionally carried out the task | Engineer in charge  Maintenance fitter on job  Contract Labor |
| 4) | Who else may be affected by the work (For example visitors, subcontractors, the public) | Production Engineer  Production workmen |
| 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. | [WI/MAINT/29](file://Mgr_maint/qehs/departmental%20manual/11%20%20Work%20instruction/WIMAINT29%20SHELL%20SPRAY%20PIPE%20CLEANING.doc) |
| 7) | Is the work permit required for the task | No |
| 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 | No |
| 10) | Manufacturer?s or supplier?s instructions for operation and maintenance plant machinery and powered hand tools are available or not: | Nil |
| 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: | Hose pipe  Circular long, irregular  Approximately max 10 kg |
| 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. | 1 kg by hand (tools & tackles)  1 Mt height approximately max |
| 14) | Services used Eg: compressed air, oxygen, acetylene,  LPG gas, hydraulic oil, welding electrode for welding | yes |
| 15) | Physical form of substances encountered during the work (For example fume, gas, vapor, liquid, dust/powder, solid): | Solid, fumes, hot water |
| 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: | Co gas poisoning on 20/05/2011. |

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

###### Hazards identified

**Mechanical Hazard**

* Fall of person from bustle, stack & upper stack platform,
* Fall of material from top like spanners, hammer etc.,
* Backache while suddenly getting up when bend to clean spray
* Slipping of person due to wet ground surface.

**Human behavior**

* alcoholism,
* casual approach
* non usage of PPEs.

**Physical Hazard** - Temperature.

**Chemical Hazard** - CO Gas poisoning

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| **Prepared By: Yogesh Mahale** | **Reviewed By: Nellaiappan** |
| **Signature:** | **Signature:** |
| **Date:10.12.2022** | **Date: 10.12.2022** |