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

A. Work activity information

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| **Sr.No.** | **Details** | **Remark** |
| 1) | Task being carried out, their duration and Frequency: | Slag pit maintenance  2 - 12 hours  Monthly |
| 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 the job  Mechanical contractor workmen |
| 4) | Who else may be affected by the work (For example visitors, subcontractors, the public) | Production engineer |
| 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/36](../../departmental%20manual/11%20%20Work%20instruction/WIMAINT36%20WORKING%20ON%20SCREENS%20OR%20SPRAY%20BOX%20INSIDE%20SLAG%20PIT.doc) |
| 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, | Hydra  Wheel loader |
| 9) | Any electrically operated hand tools are used | Yes (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. | 2 T chain block |
| 12) | What materials are handled? Size, shape, surface character and weight of materials that may be handled: | Steel structures & screen  Irregular  Approx 25 kg max |
| 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)  2 Mt height approximately max |
| 14) | Services used Eg: compressed air, oxygen, acetylene,  LPG gas, hydraulic oil, welding electrode for welding | Oxygen LPG cutting set  welding electrode for welding |
| 15) | Physical form of substances encountered during the work (For example fume, gas, vapor, liquid, dust/powder, solid): | Solid , liquid & fumes |
| 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: | Nil |

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

[**Hazards identified**](../4%20RISK%20ASSESMENT/WIMAINT36%20SLAG%20PIT%20MAINTENANCE.xls)

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| **Mechanical Hazard** | | |
| 1.Fall of person in hot water, slag pit. | | |
| 2.Fall of objects from launder, roof, crane, and tools. | | |
| 3. Grab crane hitting. | | |
| 4.Trapping in between objects. | | |
| 5.Impact. | | |
| 6. Fall in pits. | | |
| **Physical hazard** | | |
| 1.      Pressure from water. | | |
| 2.      Temperature. | | |
| 3.      Submerge in hot water. | | |
| 4. Hot metal & slag. | | |
| **Electrical hazard** | | |
| 1. Electric shock | | |
| **Human behavior:**   * Non usage of PPE’s * Person working under the influence of alcohol. * Person by passing work instruction. * Horse play. | | |
| **Prepared By:Siddharth Naik** | **Reviewed By: Nellaiappan** | |
| **Signature:** | **Signature:** | |
| **Date:10.12.2022** | **Date:10.12.2022** | |