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| **Departmental Use Only** | |
| **Revision No: 05** | **Unit:**  BF#3 |
| **Revision Date:** 12.04.2022 | **Dept.:**  Mech |

A. Work activity information

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| **Sr. No.** | **Details** | **Remark** |
| 1) | Task being carried out, their duration and Frequency: | Maintenance of GCP, GDC, GAS LINE & FLARESTACK  2 to 16 hours  Monthly or during break down |
| 2) | Location (s) where the work is carried out. | Dry gas bag filters (GCP), Gravity dust catcher, Gas Line, Flare stack |
| 3) | Who normally/occasionally carried out the task | Engineer in charge  Maintenance fitter/welder/workmen on the job  Contractor workmen/supervisor on job |
| 4) | Who else may be affected by the work (For example visitors, sub-contractors, the public) | Contractor workmen, Production/Electrical Engineers, Visitors |
| 5) | a) Has the personnel trained for performing the task  b) Any special training required | Yes (Past experience)  Yes |
| 6) | Is the written system of work mandatory? If yes, state the procedure no. | WI/BF3/22 |
| 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, | Chain pulley block, crane |
| 9) | Any electrically operated hand tools are used | Yes (Grinders for grinding operation, Welding machine for welding operation) |
| 10) | Manufacturer’s or supplier’s instructions for operation and maintenance plant machinery and powered hand tools are available or not: | No |
| 11) | Chain block, tools and shackles such as wire rope, hydraulic jack etc. are used. | Chain pulley block of rated capacity, slings, D-shackles, wire ropes |
| 12) | What materials are handled? Size, shape, surface character and weight of materials that may be handled: | Irregular shape  Approximately max 2T |
| 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. | 25 kgs by hand  1.5mt height and 2 mt distance. |
| 14) | Services used Eg: compressed air, oxygen, acetylene,  LPG gas, hydraulic oil, welding electrode for welding | Yes. Welding electrode for welding  Oxygen, LPG, Acetylene, Compressed air, hydraulic oil |
| 15) | Physical form of substances encountered during the work (For example fume, gas, vapour, liquid, dust/powder, solid): | Solid, liquid(oil), dust |
| 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  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**

**Physical Hazard**

1. Fire, explosion.
2. Suffocation due to insufficient oxygen.
3. Noise, vibration, pressure, temperature.
4. Slip and fall due to oil spillage
5. Fall of dust in eyes, ears.

**Mechanical Hazard**

1. Trapping between objects
2. Falling of material from height
3. Falling of person from height
4. Fall of tools and tackles
5. Impact of inspection doors while opening
6. Impact of slinged material
7. Crushing of person while lifting the material & fall
8. Fall while installation of Equipment.
9. Trapping of person during the fall of material from height
10. Failure of lifting machines, handling machines such as chain pulley block, sling, D shackle etc
11. Back Pain due to sudden or heavy load like check valve, motor.
12. Cut from sharp edges of item.
13. Non use of PPE’s while carrying out the activity.

**Electrical hazard**

1. Electric shock.

**Chemical Hazard**

1. Fire/explosion due to CO gas
2. CO gas poisoning

**Behavioral Hazards**

1. Alcoholism.
2. Non usage of PPE’s
3. Casual approach while working.
4. Non usage of correct tools.

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| **Prepared By:**  **Site Engineer** | **Reviewed By:**  **Mech. Maint. HOD PID2** |
| **Signature:** | **Signature:** |
| **Review Date:03.01.2023** | **Review Date:03.01.2023** |