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| **Departmental Use Only** | |
| **Revision No: 02** | **Unit: MCD** |
| **Revision Date: 15.09.2023** | **Dept.: MECH** |

**A Work Activity Information**

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| Sr.No. | **Details** | Remark |
| 1) | **Task being carried out, their duration and frequency:** | Routine Maintenance of hydraulic power pack system  Duration: 4-12 hrs.  Frequency: Monthly/ Quarterly/ H.Yealry/Yearly or need basis |
| 2) | **Location (s) where the work is carried out.** | Battery machines 1& 2, Compacting station, Plate-handler and Power pack room |
| 3) | **Who normally/occasionally carries out the task?** | Company Technician & Contract workmen |
| 4) | **Who else may be affected by the work? (For example visitors, subcontractors , the public)** | Nil |
| 5) | **a)Has the personnel been trained for performing the task?**  **b) Any special training required?** | Yes  No |
| 6) | **Is the written system of work mandatory? If yes, state the procedure no.** | Yes.  **VL/IMS/MCD/WI/MECH/35** |
| 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,** | F-15 crane, 80T crane |
| 9) | **Are any electrically operated hand tools used?** | Welding machine, Grinding m/c |
| 10) | **Are the manufacturer’s or supplier’s instructions for operation and maintenance of plant machinery and powered hand tools, available?** | Nil |
| 11) | **Are any chain blocks, tools and tackles such as wire ropes, hydraulic jacks etc used?** | Chain blocks, Spanner set, cutting set |
| 12) | **What material is normally handled? Size, shape, surface character and weight of materials that may be handled:** | Spares like hoses, fittings, filters and valves weighing 2-10 kg |
| 13) | **Is the material required to be moved by hand? If yes, distance and heights of the place where materials have to moved, by hand.** | Yes, 1-2 mts |
| 14) | **Services used e.g.: compressed air, oxygen, acetylene,**  **LPG gas, hydraulic oil, welding electrodes. .** | hydraulic oil |
| 15) | **Physical form of substances encountered during the work (For example fumes, gas, vapours, liquid, dust/powder, solid):** | Coal/ coke powder, liquid, solid |
| 16) | **Content and recommendations of safety data sheets relating to substances used or encountered:**  **( this is applicable in case of chemical material)** | MSDS of coke, coal & oil |
| 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 reviewed for compliance to statutory requirement?** | 1. Factory act 2. No |
| 18) | **What is the data 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?** | On 27.06.2023 at around 17:35 hrs. BF2 Blowers tripped, and wind was Zero after some time. On checking at blower house, it was found that there was fire on power cable at trench near OCS system. Fire was extinguished by using fire extinguishers, sand and it was brought under control. No injury to any person. |

**B Hazard Identification**

1. Physical Hazard

* Pressure of oil
* Fall of Hot coke , flying of coke dust and fines
* Slip due to Oil
* Dripping hot water from tray
* Contact with hot structural parts
* Electrical shock
* High Temperature

1. Mechanical Hazard

* Impact, Entrapment, Entanglement, Slip , trip and fall

1. Chemical Hazard

* Fire and explosion, fumes.

1. Ergonomical Hazard

* Poor workplace design

1. Health Hazard :

* Inhalation of coal dust
* Exposure/ contact of oil to eye, ear & mouth

1. Human behaviour aspect of operators:

* Alcoholism.
* Casual approach.
* Horse play.
* Non usage of PPE’s
* Improper Housekeeping
* Height Phobia

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| **Prepared By:**  Incharge Battery 1 Machine Mechanical Maintenance MCD | **Reviewed By:**  Head Mechanical Maintenance MCD |
| **Signature:** | **Signature:** |
| **Review Date:15.09.2023** | **Review Date:15.09.2023** |