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| Logo  Description automatically generated | **VEDANTA LIMITED –**  **VALUE ADDED BUSINESS** | **Format No.:** | **FRMT/MR/10** |
| **INTEGRATED MANAGEMENT SYSTEM** | **Revision Date:** | **04.04.2022** |
| **HAZARD IDENTIFICATION** | **Revision No.:** | **02** |
| **Page No.:** | **1 of 1** |

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| **Departmental Use Only** | |
| **Revision No: 03** | **Unit: Power plant 1** |
| **Revision Date: 07/08/2023** | **Dept.: MECHANICAL** |

1. **Work activity information : BFG Blower cleaning**

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| **Sr. No.** | **Details** | **Remark** |
| 1) | Task being carried out, their duration and Frequency: | Bfg blower cleaning  Frequency-monthly  Duration-20hrs |
| 2) | Location (s) where the work is carried out. | Blower area |
| 3) | Who normally/occasionally carried out the task | Contractor workmen/employee |
| 4) | Who else may be affected by the work (For example visitors, subcontractors, the public) | none |
| 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/10 |
| 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 |
| 9) | Any electrically operated hand tools are used | Grinding machine/welding machine |
| 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 block, wire rope, hydrolic jack |
| 12) | What materials are handled? Size, shape, surface character and weight of materials that may be handled: | Chain block,belts, hydrolic jack |
| 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  50 mtrs |
| 14) | Services used Eg: compressed air, oxygen, acetylene,  LPG gas, hydraulic oil, welding electrode for welding | Welding electrode |
| 15) | Physical form of substances encountered during the work (For example fume, gas, vapour, liquid, dust/powder, solid): | Solid, dust/powder |
| 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 | no |
| 18) | What is the data (s) required to be monitored during the activity and the frequency of monitoring. | Co leakage-continuous |
| 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**](http://sgl-panj-sp-01:8080/shama/INTIGRATED%20SYSTEM-SIL/QEHS%20SYSTEM/ALL%20DEPT%20MANUAL/MECH%20DM/qehs/ohsas/5%20hazard%20identifaiction%20and%20risk%20assesment%20master%20list/4%20RISK%20ASSESMENT/WIMAINT44%20MAINTENANCE%20OF%20PUMP.xls)

A. Mechanical Hazard: Fall of object, man and material

B. Physical Hazard: Impact, Trapping in between two object, like coupling, impeller, shaft assembly,

C. Electrical Hazard: Electric shock.

D. Chemical Hazard: CO gas, dust,

E. Human behavioural: Non use of PPE, improper housekeeping,

**Physical isolation/blanking to be provided to carry any activity inside the boiler or BFG gas line system by isolating complete BF gas sources from Pig iron Plant.**

**LTI - On 06/02/2022 at 12:00 PM 3 Anish Scaffolding workmen Mr. Manu Nag, Mr. Kunjay Naik, Mr. Lambodhar Naik, Mr. Sri ram (supervisor) who were engaged in scaffold erection as a part of boiler 1 tube replacement job became victim of gas leak. While, Mr. Manu Nag and Mr. Kunjay Naik resumed duty post observation at dispensary. Mr. Lambodhar Naik was referred to GMC Bambolim for further medical care where he was kept under observation for 24 Hrs and he joined duties next day**

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| **Prepared By:** Engineer– MECHANICAL – PP | **Reviewed By:** Head -Power |
| **Signature:** | **Signature:** |
| **Date: 07.08.2023** | **Date: 07.08.2023** |