Rev No: 3 Unit: BF3

Date: 10.03.2020 Dept.: Maintenance

FORMAT FOR HAZARD IDENTIFICATION

A. Work activity information

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| **Sr.No.** | **Details** | **Remark** |
| 1) | Task being carried out, their duration and frequency: | Maintenance of stock house equipments  30 min to 4 Hrs  Every day. |
| 2) | Location (s) where the work is carried out. | Stock house, T.S.-6, T.S-7, Underground bins, T.S-5 |
| 3) | Who normally/occasionally carries out the task? | Company workmen ,contract workmen  Maintenance engineers |
| 4) | Who else may be affected by the work? (For example visitors, subcontractors , the public) | Production, electrical and instrumentation engineers.  contract workmen and company workmen |
| 5) | A) Has the personnel been trained for performing the task?  B) Any special training required? | YES( On job training)  NO |
| 6) | Is the written system of work mandatory? If yes, state the procedure no. | WI/BF3/13 |
| 7) | Is the work permit required for the task? | YES  However no work permit is required for routine inspection / checking |
| 8) | Plant and machinery that may be used:  Eg : crusher, conveyor, crane, heavy earthing equipment, Truck etc., | Hydra, Tempo |
| 9) | Are any electrically operated hand tools used? | Grinding machine, Vulcanizing machine |
| 10) | Are the manufacturer’s or supplier’s instructions for operation and maintenance of plant machinery and powered hand tools, available? | Yes - grinding machine.  Nil – vulcanizing machine.  Both machines are checked by electrical and certified before usage. |
| **Sr.No.** | **Details** | **Remark** |
| 11) | Are any chain blocks, tools and tackles such as wire ropes, hydraulic jacks etc used? | Chain block, D shackles, Wire rope slings & belt is used, if required. |
| 12) | What material is normally handled? Size, shape, surface character and weight of materials that may be handled: | Irregular shaped. Mostly structures like gear boxes, drums, rollers, bearing, motors, structural members etc  Weights vary from 05 kg to 250 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. | 0 - 25 kgs (max)by hand  2 – 50 mtr |
| 14) | Services used e.g.: compressed air, oxygen, acetylene,  LPG gas, hydraulic oil, welding electrodes. . | Compressed air for cleaning job.  Welding machine  Oxy / LPG gas, welding electrodes |
| 15) | Physical form of substances encountered during the work (For example fumes, gas, vapors, liquid, dust/powder, solid): | Solid & 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 reviewed for compliance to statutory requirement? | Factory Act 1948 and Goa Factory rule 1985 – SRR/16 |
| 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? | 1. On 08.04.13 at around 19:20hrs, it was reported that weighing bin 3 gate is not closing fully. On checking found that inside liner was slightly disengaged & obstructing gate closure. Mechanical fitter after taking conveyor shutdown started cutting the PU liner with gate in open position. While he was working gate slowly closed. The fitter while trying to remove his hand, sustained bruises on his left hand. 2. On 23.08.2015 at around 9:55 am stock house bucket elevator no 6 encasing cover small piece (0.5mm thick)fell down on bucket elevator belt. There were no injury to anybody. 3. On 09.10.2015 at 12.15 pm, during safety round site visit, it is observed that the guard of CB 12 output coupling found in removed condition.  This can cause accident. There was no injury to anyone. |

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

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| **Mechanical Hazard** |
| 1.Getting trapped between two objects |
| 2. Fall of material like hammer, tools, slinged items, bolts, wedges, rollers, etc. |
| 2. Fall of rotating body like coupling |
| 3. Fall of person off the platform |
| 4. Entanglement in between drums, belts, rollers, etc. |
| 5. Impact of moving / slung items. |
| 6. Getting cuts, due to sharp edges, while working. |
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| **Electrical Hazard** |
| 1. Electrical shock |
| **Chemical hazard** |
| 1. Vulcanizing compound splashing onto the eyes |

2. CO poisoning.

**Physical Hazard**

1. Fire

**Human Behavior**

1. Workmen under influence of alcohol
2. Violation of procedure
3. Not wearing PPE’s
4. Not concentrating while working
5. Horseplay