**WORK INSTRUCTIONS FOR** **CLEANING LIME TANK**

**Responsibility:** PCM in charge

**Criteria:** To avoid damage of lime stirrer blades, choking of line, damage of pump seal.

**Identified Hazards:**

**1**. Impact of running lime stirrer.

**2.** Contact with stirrer blades

**3.** Contact with foreign particles

**4**. Contact with lime Powder solution.

**5.** Impact with lime tank body as opening for the tank is small.

**6.** Nonuse of PPE, WI

**Significant Aspect:**

**1.** Water consumption, depletion of natural resource.

**2.** Generation of chips

**Procedure|:**

1. Unauthorized operation or repair of any equipment is a punishable offence.
2. PCM in charge should ensure that all persons involved in the activity are wearing safety goggles, hand gloves, safety shoes and safety helmet.
3. Before starting activity PCM in charge should ensure that electrical shut down of lime stirrers and lime pump and PCM is taken.
4. Transfer the lime solution from suction tank to other PCM tank with help of a rubber hose pipe provided in discharge line above lime pump and empty the tank
5. Drain the tank by opening flanges with the help of Mech. fitter.
6. Remove lime stirrer covers, gratings above lime tank and clean the thick slurry with the help of water pressure.
7. Stirrer blades to be covered with gunny bag.
8. Enter into the tank carefully and remove the chipping material
9. After removal of slurry and metal chips flush the tank thoroughly with high pressure water
10. After tank cleaning PCM in charge should ensure that stirrer covers, gratings are placed properly. The gunny bags which were used to cover the blades need to be removed.
11. Drain flanges to be tighten properly & check for water leakages, clear shutdown

of lime stirrers & lime pump, make required lime solution.

1. Ensure that area around lime tank is cleaned of lime solution with the help of

water pressure.

1. After ensuring the completion of the above activities PCM in charge should clear all the shut downs which have been taken.

|  |  |  |
| --- | --- | --- |
| **Prepared By:**  Head – | **Reviewed & Issued By:**  Management Representative | **Approved By:**  Head – Pig Iron Division |
| **Signature:** | **Signature:** | **Signature:** |
| **Date: 15.07.2022** | **Date: 15.07.2022** | **Date: 15.07.2022** |

|  |  |  |  |
| --- | --- | --- | --- |
| **Amendment Record** | | | |
| **Revision date** | **Manual Section ref. and para** | **Brief details of revision** | **New Revision No.** |
| 15.07.2022 | Procedure for cleaning of lime tank | Change in format | 04 |
|  |  |  |  |