**WORK INSTRUCTIONS FOR\_** **EMPTYING/CLEANING THE BUNKERS & HOPPERS**

**Responsibility: Raw-material Engineer**

**Identified Hazards:**

1. Fall of person in the bunkers/hopper
2. Contact with dust
3. Getting hurt while walking on the grizzly
4. Wheel loader charging the hopper when a person is cleaning the grizzly
5. Material falling from the top
6. Fines going in the eyes
7. Running in panic and getting hurt
8. Nonuse of PPE & WI
9. Improper house keeping
10. Inadequate local lighting

**Significant Aspect:**

1. Generation of dust

Unauthorized operation or repair of any equipment is a punishable offence

1. Ensure that the grizzly provided above the bunker to be cleaned, is cleared off all oversize material, before a person descends in the bunker.
2. The supervisor should ensure that that the personnel involved in the activity is wearing all the needed PPE. This job should not be carried out without the presence of the supervisor or a fellow worker standing at the top of bunker.
3. Personnel should descend inside the bunker only with the help of ladder
4. Person descending the bunker should be strapped with a safety belt.
5. Person should place a plank or screen on the old dryer pipes running inside the bunker, so as to stand firmly on it.
6. Ensure that the sizer plant is under shutdown, before sending a person inside the bunker.
7. With the help of a pickaxe/arrow (bhalla)/pipe/pawda or any other suitable tool, the stuck and hardened material from the sides of the bunker, has to be loosened and released. If needed, a water jet has to be kept continuously on, from the top.

|  |  |  |
| --- | --- | --- |
| **Prepared By:**  Head – Production PID I | **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 Emptying/cleaning of Iron ore bunkers | Change in format | 03 |
|  |  |  |  |