**WORK INSTRUCTIONS FOR** **OPERATION OF SIZER PLANT**

**Responsibility: Raw material in charge**

**Identified Hazards**: -

1. Falling of material from top.
2. Person getting entangled with the conveyor belt.
3. Shovel colliding with vehicles/people in the area (especially when reversing from the hopper site)
4. Person falling from the top.
5. Electrical shock.
6. Suffocation
7. Cleaning the TRF screen without following the laid down procedure
8. Improper housekeeping
9. Overloading of wheel loader bucket causing imbalancing of wheel loader
10. Collision with other vehicle or HEMM

**Behavioral Hazards:-**

1) Not using P.P.E

2) Not following work instruction

**Aspect**: - Dust Emission

**Procedure:-**

1. Unauthorized operation or repair of any equipment is a punishable offence
2. Guards of conveyer or any other equipment should not be removed
3. Ensure that the wheel loader (W/L) operator has a valid license and is fit to work. Also see that the W/L has a reverse horn, lights and its brakes are sharp.
4. Ensure Wheel loader operator has maintained W/L checklist properly.
5. When Wheel loader is in reverse motion, operator should take due care to see that no other vehicle or HEMM is in close vicinity to avoid any collision.

Before starting the sizer plant, press all the push buttons and ensure that: -

1) People working in the sizer area necessarily wear their helmet, safety shoes, dust mask and white goggles and fluorescent jackets

2) Nobody is working on the sizer plant.

3) The grizzly is clean (if it is not, clean it with the help of a lancing pipe bent at one end)

4) The vibrofeeder discharge chute is clean.

5) The sizer screen is clean (if not stop the push button and put a LOTO lock near the screen and clean the screen by using a hammer).

6) The ore fine bin is clean and not choked.

7) The ore bunkers are barricaded.

8) The trolley belt is placed above the bunker which needs to be charged with the respective ore.

Operation

1) Start the siren.

2) As the siren sound minimizes, start the sizer plant in the following sequence:

a) Trolley belt b) Fines belt c) Vibrating screen d) Main belt e) Vibrofeeder

3) While filling of ore in the hopper ensure that proper ore is fed in the hopper so that proper ore is charged in the respective bunkers.

4) After filling one bunker, shift the trolley to the next bunker which is required to be charged

5) After filling the bunker, stop the sizer plant in the following sequence.

a) Vibrofeeder b) Main belt c) Vibrating screen d) Fines belt e) Trolley belt

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| **Prepared By:**  Head – Production PID I | **Reviewed & Issued By:**  Management Representative | **Approved By:**  Head – Pig Iron Division |
| **Signature:** | **Signature:** | **Signature:** |
| **Date: 10.07.2023** | **Date: 10.07.2023** | **Date: 10.07.2023** |

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| 15.07.2022 | Work instructions for operation of Sizer plant | Point 4 | 04 |
| **29.09.2022** | Work instructions for operation of Sizer plant | **Point 5 added** | **05** |