**WORK INSTRUCTIONS FOR DRAWING AN ORE/SINTER SAMPLE, FROM THE FREE FLOW OFF THE VIBRATING SCREENS, FOR SEIVE ANALYSIS**

**Responsibility:** Raw material in charge

**IDENTIFIED HAZARDS**:-

**1.** Person getting entangled with the conveyor belt.

2) Contact with dust

2) Rupture of compressed air hose pipe

3) Wearing loose clothes

**Significant Aspects:**

1. Generation of dust

2. Generation of noise

**FREQUENCY AND PATTERN**

**Samples have to be drawn daily**

Ore samples are sent for coated fines analysis of alternate furnace daily in first shift of all the VC’s which is having ore batching in it. Sinter is sent for sieve analysis of both the furnace daily in each shift.

**PROCEDURE:** Unauthorized operation or repair of any equipment is a punishable offence

1. Ensure that people working in the area should wear Helmet, dust mask, hand gloves, safety goggles and ear plugs.
2. The sample of a particular VC is to be drawn only when the bunker is 75% full (or more)
3. When the required VC batching is on and ore is falling freely into the weighing bin, the sampling spoon is to be held in the path of the free flow so as to fill and draw about 3 kgs of ore. This ore is to be transferred to a gunny bag.
4. After some time, repeat this to collect a second spoonful from the same batch.
5. Continue drawing spoon full as explained, from 3 to 4 batches so that we have about 25 kgs ore in the bag.
6. Mix this ore or sinter sample thoroughly, so as to make it homogenous, insert a tag inside with proper identification, and send to the lab for analysis.

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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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| 12.07.2021 | Procedure for drawing ore/sinter from free flow off vibrating screens for sieve analysis | Point no 6 | 03 |
| 15.07.2022 | Procedure for Drawing ore/sinter from free flow off vibrating screens for sieve analysis | Change in format | 04 |