**WORK INSTRUCTIONS FOR\_SIZER FEED HOPPER GRIZZLY CLEANING**

**Criteria: Cleaning of Sizer feed hopper grizzly safely**

**Responsibility: Raw Material Incharge**

**Identified Hazards:**

1. Contact with dust
2. Getting hurt while walking on the grizzly
3. Entanglement
4. Wheel loader charging the hopper when a person is cleaning the grizzly
5. Running in panic, and getting hurt
6. Fines going in the eyes
7. Nonuse of PPE &WI
8. Improper house keeping
9. Inadequate local lighting
10. Not stopping the VCs & conveyor belt before starting the cleaning process.
11. Fall of a person
12. Fall of cleaning tools like hammer,pickaxe,lancing pipes in the WB’s

**Significant Aspect:**

1. Emission of dust

Unauthorized operation or repair of any equipment is a punishable offence

**PROCEDURE**

1. Ensure that the sizer plant is not running while cleaning the grizzly.
2. Loader operator should be informed about this activity.
3. Barricade the entrance to the ramp of the sizer hopper, with the chain arrangement.
4. Use only the provided monkey ladder to go to the grizzly.
5. Place a wooden plank on the grizzly, before stepping on it.
6. Ensure that there is nobody below the hopper, before throwing the oversize grizzly material below.
7. After the job is complete, remove the chain barricade.
8. Use all PPE’s before starting the job.
9. Proper housekeeping to be maintain in the area once the job is completed.

# Cleaning Ore / Coke fines bins

(a) Bin choked at the gate

**Identified Hazards:**

i) Material falling from the top.

ii) Fines going in the eyes.

iii) Running in panic and getting hurt.

**Significant Aspect:**

1. Emission of dust

**PROCEDURE**

1. Ensure that the sizer plant is not running before starting the activity.
2. Ensure that the person wears his nose mask and safety goggles, before attempting the job.
3. Open the gate of the bin.
4. Take a lancing pipe, bend 2 meters of its one end to 90 deg., and holding the extreme end of the bend portion, start the probing /prodding activity.
5. Care should be taken to see that the person is not directly under the open gate of the bin, while prodding.
6. If the choking gets cleared, remove the pipe immediately, and vacate the area.
7. Care to be taken that the person walks away carefully, without panicking and hurting himself.
8. If the choking persists, refer to (b)
9. Use all PPE’s before starting the job.
10. Ensure that proper housekeeping is maintained after cleaning the activity. There should be spillages and material dumped in area in haphazard way.

**(b) Bin persistently choked.**

Identified Hazards:

i) Fines going in the eyes.

Significant Aspect:

1. Emission of dust
2. Use of water
3. Generation of slurry

PROCEDURE

1. Ensure that the sizer plant is not running before starting the activity.
2. Keep the bin gate fully open.
3. Ask mech. maintenance people to open the first inspection door. Ensure that the people stay away from the opening while removing the door, as some fines could come out from there.
4. Ensure that all persons engaged on this job wear nose masks and safety goggles.
5. With the help of shovels and hoes, remove fines from the bin, by standing on the outside platform.
6. Once the fines go out of reach, direct a jet of water on the fines for loosening and flushing.
7. Probe and prod, towards the bin gate, through the inspection door.
8. If the choking clears, take out all tools used, close the bin gate and ask mech. maintenance to close the inspection door.
9. If the choking at the gate /side walls persists, refer to (c)
10. Use all PPE’s before starting the job.

**(c) Going inside the bin for cleaning**

Identified Hazards:

i) Collapse of overhead material

ii) Person falling and getting hurt.

iii) Fines going in the eyes

Significant Aspect:

1. Emission of dust

**PROCEDURE**

1. Ensure that the sizer plant is not running before starting the activity.
2. Ensure that there are at least 02 persons to do this job.
3. Procure wooden planks (fallis) and fix them firmly across the inside of the bin, from one end to the other.
4. Before entering the bin, check if fines are accumulated / choked overhead. If so, do not enter the bin through this door, but open the topmost inspection door and clear the fines.
5. Enter the bin only at a level, above the choke up.
6. Ensure that the person entering the bin, has worn the safety harness, duly fastened to a strong & rigid structure. Also ensure that, he is wearing the safety goggles and nose mask.
7. Enter the bin, secure your position firmly on the wooden planks, and with the help of the poking tools provided by the person from outside, clear the choke up. If required, water may be used, taking due precautions.
8. After the choking is cleared, the person should take out all the tools / tackles and wooden planks used, close the bin gate, and ask mech. maintenance to close the inspection doors.
9. Use all PPE’s before starting the job.

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| **Prepared By:**  Head – Production PID I | **Reviewed & Issued By:**  Management Representative | **Approved By:**  Head – Pig Iron Division |
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| **Date: 15.07.2022** | **Date: 15.07.2022** | **Date: 15.07.2022** |

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