**WORK INSTRUCTIONS FOR\_SHIFTING HYDRATED LIME/GRAPHITE/RAM COKE FINES.**

**Criteria:** Safe Handling of equipment, safe work practices.

**Responsibility**: PCM Incharge/ Bag House In charge.

**Identified Hazards**:

1. Bursting of wheel loader tyre
2. Impact wheel loader to electric pole
3. Human Behavior -Nonuse of PPE
4. Human Behavior -Improper house keeping
5. Inadequate local lighting
6. Human Behavior -Running in hurry & getting hurt or falling
7. Use of improper mode for transportation
8. Unloading material from wheel loader
9. Impact with consumables
10. Contact flying material (chips, dust)
11. Wheel Loader break failure
12. Bucket cylinder failure
13. Poor coordination between the operator & helper
14. Entanglement
15. Trapping between the bucket & structure
16. Movement of wheel loader in reverse direction
17. Fall of person
18. Hitting of crane

**Significant aspect**

1. Dust generation

**Procedure:**

1. Unauthorized operation or repair of any equipment is a punishable offence
2. Persons involved in this activity should wear safety shoe, helmet, hand gloves, safety spectacle, dust mask.
3. Hydrated lime Mantap key to be checked by PCM staff in BF1 control room keyboard at the start of shift, if not available then to be checked with PCM staff.
4. Hydrated lime stock to use on first in first out basis which is to be ensured by PCM/Bag House staff.
5. Booking of material is to be done on both furnaces 50:50 with proper cost codes.
6. Requisition slip stating item code, cost code, lot number, no. of bags and counter signed by Shift in charge is to be kept in file maintained at mantap and entry of same to be made.
7. Ensure wheel loader is parked and all movement is stopped, and brake is engaged, loading person should be away from the Wheel loader movement inside the mantap.
8. Ensure stopper block is put in front of the rear tyre to avoid forward movement.
9. Inform the wheel loader operator that loading of bucket is going to start.
10. Ensure material loaded in bucket doesn’t protrude out of the bucket so that there is no spillage while the loader is moving and also to have clear vision of road.
11. Two persons will hold the bag and will place it in bucket one above other, maximum 50bags of hydrated lime (25kg each) at a time, Graphite Max.25 bags (50kg each) at a time.
12. While taking wheel loader inside PCM area ensures pathway is clear of hot pigs. PCM should be stopped and stop pig cooling water for PCM 1, 2 and 3. For PCM4 not required.
13. Remove lime platform barricade, place the bucket above platform, place stopper for wheel loader tyre and remove the bags and stock it one above other max.30 no. on one platform.
14. After unloading the bags put the lime platform barricade back, remove wheel loader tyre stopper, stop the PCM as well as pig cooling water and remove the wheel loader out. This is to be followed for PCM 1, 2 and 3.
15. Lime handling person should avoid standing inside the wheel loader bucket.
16. Bags which are not at hands reach can be removed by hooking the same with the help of lancing pipe.

**RAM COKE FINES FOR PCM**

1. Ram coke fines received from Met coke division can be directly unloaded to requirement on PCM 4 lime unit, the van bringing the ram coke fine should be properly guided by means of whistle by Pig Shifting in charge/ Bag House in charge/PCM in charge.
2. The ram coke fine supply van should never be brought between PCM 1, 2 and 3.
3. Excess bags should be unloaded at graphite storage area.
4. In the return trip empty bags should be loaded in supply van.
5. Supply van should never park facing running PCM.

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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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