**WORK INSTRUCTIONS FOR** **LADLE PRE-HEATING WITH FIREWOOD**

**Criteria:** Safe ladle preheating

**Responsibility**: PCM IN CHARGE Engineer & Responsible Person

**Identified Hazards:**

1. Fire & Explosion
2. Electric shock
3. Fall of a person causing injuries
4. Vehicle movement
5. Non use of PPE
6. Improper house keeping
7. Running in panic & getting hurt
8. Initial igniting by going closer to the ladle
9. Inexperience in the job
10. Contact with hot ladle

Significant aspect

1. Diesel spillage
2. Heat generation

**Firing of ladle pre heating burner**

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

1. Ensure that the all the people working in the area are wearing PPEs viz safety helmet shoes safety goggle hand gloves
2. Remove all the people from the ladle placement area.
3. Nobody should be allowed to stand near ladle preheating area nor work on the roof or the hot metal crane while the ladle heating process is going on in that location.
4. Place the ladle below the swing area of the burner hood.
5. Put one bucket of dry firewood and cotton jute if available, put furnace oil and some diesel and light it.
6. Add more firewood (4-5 buckets) in a span of three to four subsequent shifts.
7. Monitoring to be done with Reytek Gun till minimum temperature of 100⁰C is achieved

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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: 15.07.2022** | **Date: 15.07.2022** | **Date: 15.07.2022** |

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| **Amendment Record** | | | |
| **Revision date** | **Manual Section ref. and para** | **Brief details of revision** | **New Revision No.** |
| 15.07.2022 | Procedure for LADLE PRE-HEATING WITH FIRE WOOD | Point 5 | 05 |
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