ACTIVITY:  FIXING OF WORKING PLATFORM INSIDE BLAST FURNACE (DURING FURNACE RELINING)

* Objective : - Safe fixing of working platform inside blast furnace
* Scope : - Blast furnace Accessories
* Ref. : -SP44
* Responsibility : - Engineer In charge & workmen on job

PPEs to be usedHelmet, Safety shoes, Hand gloves, Cotton cloth and complete sealed goggle

Aspect – impact :

|  |  |
| --- | --- |
| Scrap generation | Resource Depletion |

Hazards identified :

Mechanical hazard

* Fall of material, hammer, purlin, plate, bolts, sheet, furnace top parts.
* Fall of person.
* Hitting of hammer, plate.
* Entanglement between plates, furnace.
* Wedges coming out.
* Impact.
* Failure of cutting wheel.

Physical hazard

* Temperature from shell, cutting set, welding.
* Dust & Fumes
* Sparks from grinding, cutting, welding.

Electrical hazard - Shock

Chemical Hazards:

* CO poisoning

Human Hazards:

* Alcoholism
* Horseplay
* Non compliance of SOP

1. Take clearance to start the job from concerned area in charge as per work permit procedure.
2. Construct necessary platform to carry out the job. Follow procedure SP 44 for gas cutting & welding job.
3. Use CO monitor initially to check the presence of CO prior to starting the job.
4. Remove all other workmen working inside the furnace.
5. Ensure safe working of 5-ton hoist mounted on furnace top.
6. While shifting plate inside the furnace, remove all workmen falling in the line.
7. Care to be taken while fixing the plates, hammering wedges, to avoid injury/flying off of objects.
8. Do not grind with extreme load.
9. Ensure adequate lighting and ventilation. Provide exhaust fans for ventilation.
10. Seal the platform to avoid fall of sparks from cutting, welding, grinding & fall of objects.
11. After proper positioning of plates weld it.
12. Keep a manhole at the center.
13. For grinding, welding, gas cutting, Procedure SP 44 to be followed.
14. Only one trained rigger/foreman should give the signal for crane operation.
15. Chain pulley block, slings, D-shackles should be tested and of adequate capacity.
16. Trained operator and brakes should operate 5T hoist. Condition of rope and brake should be checked by operator.
17. Follow the house keeping as per procedure [WI/MAINT/91](file:///C:\Users\00007038\AppData\Local\Temp\Temp3_wi%20new.zip\New%20folder\WIMAINT91%20HOUSE%20KEEPING.doc)
18. After completion of job, give clearance to concerned area engineer.
19. Remove all temporary scaffolding after finishing the work.

DO NOT

* Keep cylinders in cast house platforms.
* Take cutting hose on the stair cases or walkways

**Amendement Record**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Manual Section Ref. & Para** | **Brief details of Revision** | **New Rev.** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Prepared By:**  Area Engineer | **Reviewed & Issued By:**  Management Representative | **Approved By:**  Mechanical Head |
| **Signature** | **Signature:** | **Signature:** |
| **Review Date: 12.12.22** | **Review Date: 12.12.22** | **Review Date: 12.12.22** |