**ACTIVITY: FIXING OF CYLINDER IN THE NITROGEN/OXYGEN/D.A CYLINDER BANK.**

**Objective : -** Safe procedure for fixing of cylinder in bank.

**Scope : -** Blast Furnace Accessories

**Ref. : -** SP 44

**Responsibility : -** Engineer In charge & workmen on the job

**PPE –s to be used :**

* Helmet, dust mask, sealed goggles, hand gloves and Safety shoes

**Aspect – Impact**

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| Dust Generation | Air pollution |

**Hazards identified**

**Mechanical hazard** - Trapping between cylinders, impact against cylinder & falling of cylinder

**Chemical Hazard** - Fire and explosion

**Human Hazard:**Non usage of PPE,Not following SOP,Horseplay,Alcoholism

**Procedure:**

1. Take clearance from the production department.
2. Close the main valve of bank.
3. Remove the fittings of pig tail pipe using proper tools.
4. Unlock the chain of the cylinder, which need to be changed.
5. Move the new cylinder in proper orientation to the bank. Check the color-coding and hydraulic/pressure testing validity mark on the cylinder.
6. Lock the cylinder with chain.
7. Shift the cylinder with care.
8. Check the end fittings of pig tail pipe for any damage.
9. Connect to the oxygen / nitrogen bank.
10. Open slowly the valve of cylinder and check for any leakage.
11. Give clearance for the operation.
12. Check for any leakage at different joints in the system.

**DO :**

* Lock the individual cylinders.
* Check leakage thoroughly when the cylinder in operation & if leakage observes attend the same immediately.

**DO NOT :**

* Roll the cylinder while handling
* Hammer the cylinders any part to connect or open the fitting.

**Amendement Record**

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