

NAME OF LAB. : MATERIALS SC. & METALLURGY
Lab Incharge : Ela Jha
Lab Asst. : Yamnesh Khamar
Room No. : B 307
Total Equipments : 14 NOS.

EXPERIMENTS CAN BE PERFORMED IN LABORATORY

- **Bravais Lattice And Crystal Geometry**
- **Crystal Planes And Directions**
- **Metallurgical Microscope And Microexamination**
- **Preparation Of Specimen For Microexamination**
- **Mounting Techniques**
- **Strain Hardening**
- **Rockwell Hardness Test**
- **Identification Of Materials**
- **Effect Of Quenching Media On Hardness Of Steel**
- **Macroexamination**
- **Liquid Penetrant Test**
- **Magnetic Particle Test**
- **Eddy Current Test**
- **Ultrasonic Test**
- **Carbon Sulphur Determination**
- **Jominy Hardenability Test**
- **Structure Property Relationship Of Hot & Cold Rolled Sheet**
- **Tempering Of Hardened Specimen**

1. BRAVICE LATTICE & CRYSTAL GEOMETRY



2. CRYSTAL PLANES & DIRECTIONS



3. METALLURGICAL MICROSCOPES



4. SPECIMENS USED FOR MICROSCOPIC EXAMINATION



5. WET POSISHING BENCH



6. MOUNTING PRESS



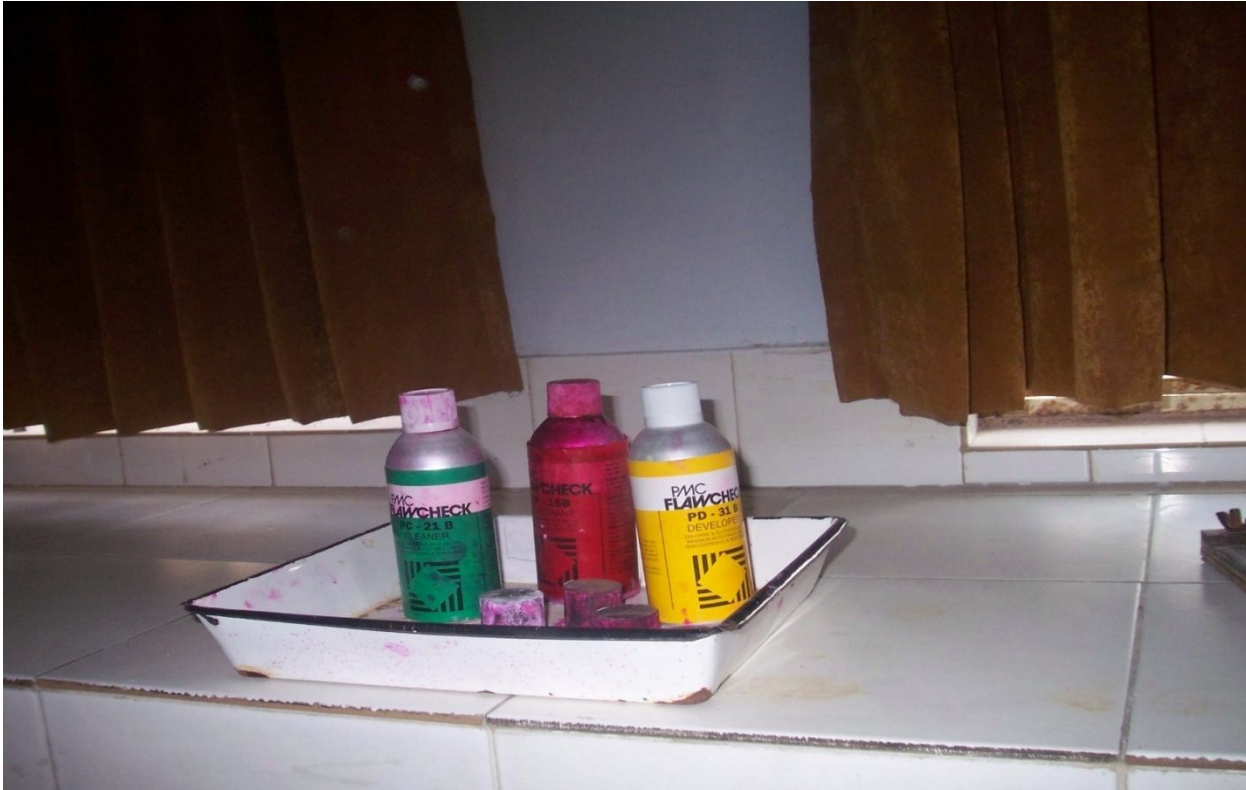
7. ROCKWELL HARDNESS TESTING MACHINE



8. ELECTRIC FURNACE



9. LIQUID PENETRANT TEST SET UP



10. EDDY CURRENT TESTING MACHINE



11. MAGNETIC PARTICLE TESTING MACHINE



12. ULTRASONIC TESTING MACHINE





13. CARBON SULPHUR DETERMINATOR



14. JOMINY HARDENABILITY TEST SET UP

