

**GOVERNMENT INSTITUTE OF CHEMICAL ENGINEERING, VISAKHAPATNAM**  
**Purchase of laboratory equipment / Repair of laboratory equipment by using NBA funds**

**GENERAL CHEMICAL TECHNOLOGY LAB**



ABELS FLASH AND FIRE POINT APPARATUS



PENSKY MARTENS FLASH AND FIRE POINT  
APPARATUS



HEATING MANTELS

## **ENERGY TECHNOLOGY AND REACTION ENGINEERING LAB**



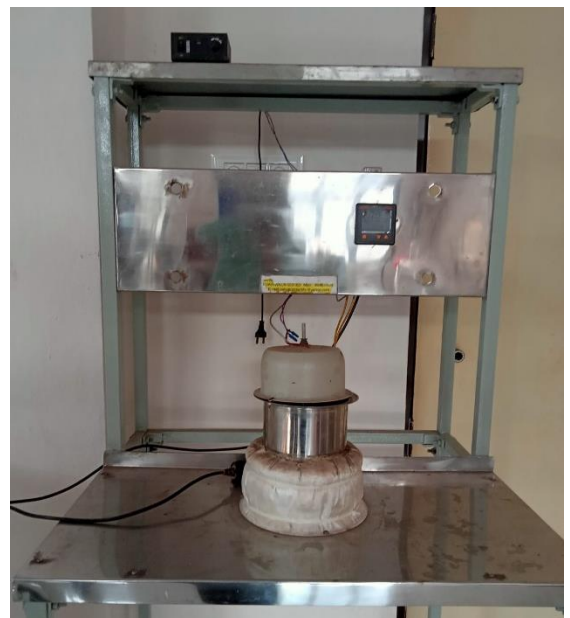
ABELS FLASH AND FIRE POINT APPARATUS



PENSKY MARTENS FLASH AND FIRE POINT APPARATUS



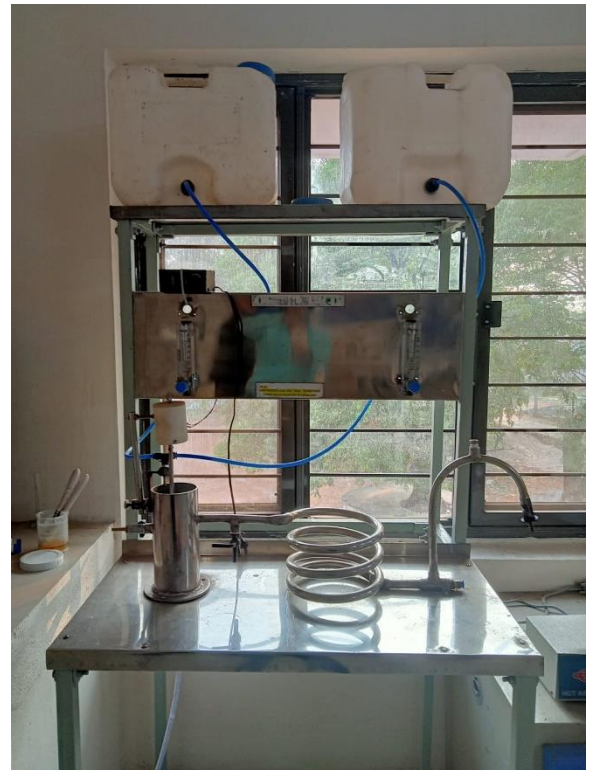
ORSAT FLUE GAS ANALYSIS APPARATUS



BATCH REACTOR



PLUG FLOW REACTOR



CONTINUOUS STIRRED TANK REACTOR

## OIL TECHNOLOGY LAB



ABELS FLASH AND FIRE POINT APPARATUS



PENSKY MARTENS FLASH AND FIRE POINT



HOT AIR OVEN



## **INSTRUMENTATION AND PROCESS CONTROL LAB**



DEAD WEIGHT PISTON GAUGE



ON-OFF CONTROL SYSTEM



THERMOCOUPLE CALIBRATION



RESPONSE OF A THERMOMETER WITH THERMAL WELL



CONTROL VALVE CHARACTERISTICS (AIR TO OPEN AND AIR TO CLOSE VALVE)

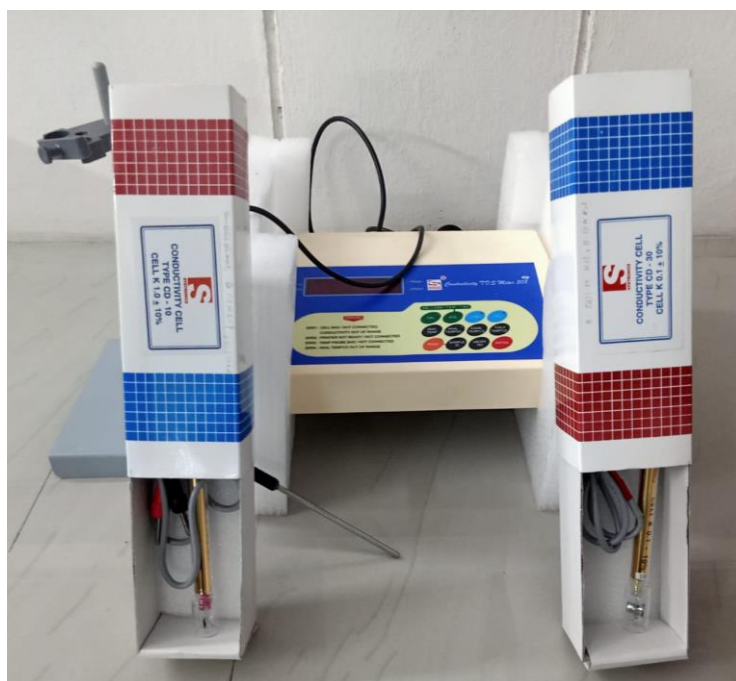
## CHEMISTRY LAB



PH METER



TURBIDITY METER



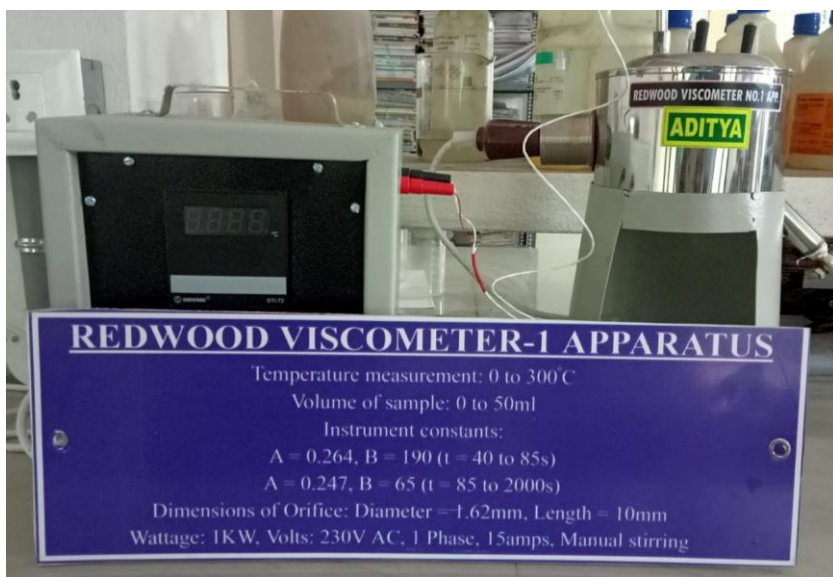
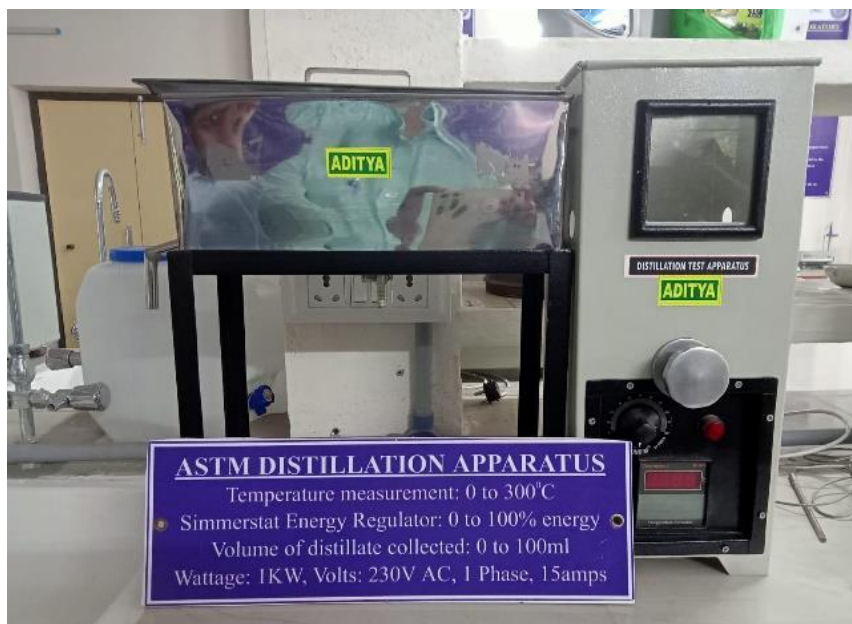
CONDUCTIVITY METER



DIGITAL BALANCE



## PETROLEUM REFINING LAB







SMOKE POINT



COMPRESSOR

## MASS TRANSFER LAB



HOT AIR OVEN



SODIUM VAPOR LAMP



HEATING MANTEL

## FLUID MECHANICS LAB



CENTRIFUGAL PUMP



RECIPROCATING PUMP TEST RIG



PACKED BED COLUMN



FRICTION LOSSES AND BENDS





ORIFICE METER AND VENTURI METER



BERNOULLI'S APPARATUS



REYNOLD'S APPARATUS



ROTAMETER

## PHYSICS LAB



NEWTON'S LAW OF COOLING



PHOTOCELL CHARACTERISTICS APPARATUS

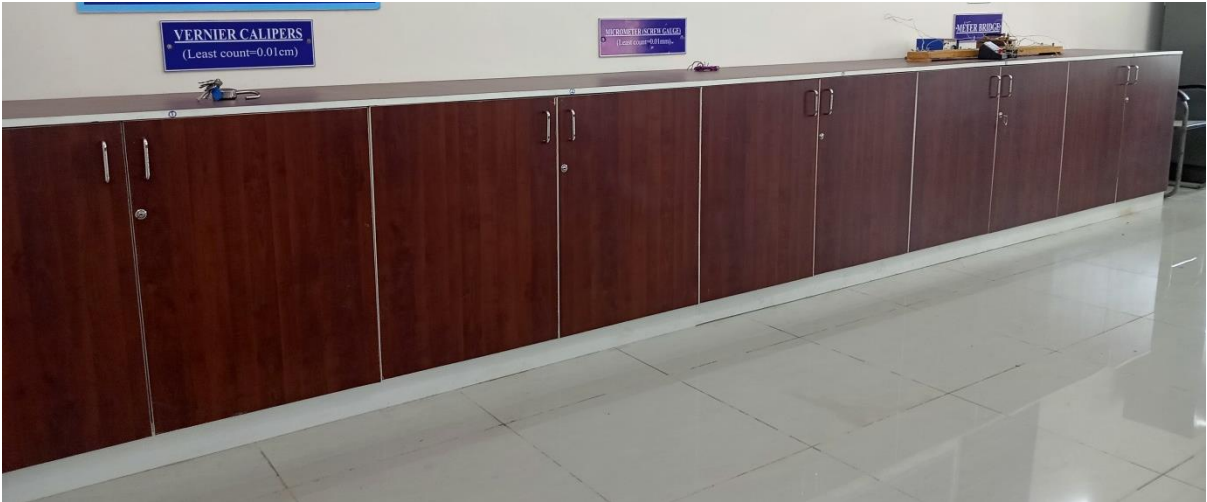


CONCURRENT FORCES



## PHYSICS LAB FURNITURE WORK TO PLACE LAB EQUIPMENT





## MECHANICAL UNIT OPERATIONS LAB



BALL MILL



COMPRESSOR

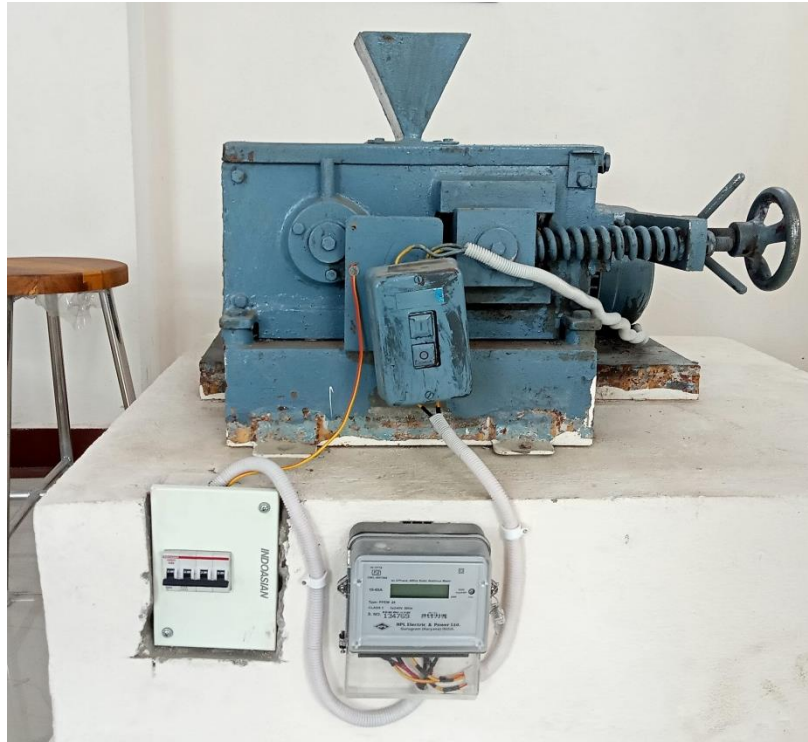




PLATE AND FRAME FILTER PRESS



FROTH FLOATATION CELL UNIT



JAW CRUSHER



ROLL CRUSHER

## HEAT TRANSFER LAB



HEAT TRANSFER THROUGH COMPOSITE WALL



STEFAN BOLTZMAN CONSTANT APPARATUS





COUNTER FLOW HEAT EXCHANGER



EMISSION MEASUREMENT APPARATUS



FORCED CONVECTION APPARATUS



NATURAL CONVECTION APPARATUS



SHELL AND TUBE HEAT EXCHANGER