





DEPARTMENT OF MECHANICAL ENGINEERING
THERMODYNAMICS LABORATORY
COLLEGE OF TECHNOLOGY

Sardar Vallabhbhai Patel University of Agriculture & Technology Meerut 250110 (UP)

List of Equipment's

S. No.	Name of Equipment	List of Item	Figure of Device
01	Single Cylinder Four Stroke Petrol Engines Test Bench	Engine : Bajaj make, developing about 3HP at 3000RPM, Kick start, Lubrication Oil Filter, Fuel Pump, Ignition Coil, Exhaust Silencer Loading Device: Rope Brake Dynamometer Experimental Capabilities:	
02	Single Stage Air Compressor Setup with data Acquisition	Capacity of about 4CFM Maximum Motor 1 HP, 1420 RPM motor 1 phase The unit is supplied with pressure switch, safety valve, pressure gauge, and air delivery valve etc. For Air flow measurement Orifice Plate with U Tube Manometer. Thermocouples with digital temperature indicator are provided for the measurement of different temperature at the inlet and outlet of cylinder.	



DEPARTMENT OF MECHANICAL ENGINEERING
THERMODYNAMICS LABORATORY
COLLEGE OF TECHNOLOGY

Sardar Vallabhbhai Patel University of Agriculture & Technology Meerut 250110 (UP)

List of Equipment's

03	Separating & Throttling Calorimeter with mini boiler	Separating Chamber made of stainless steel with water level indicator and properly insulated with Ceramic wool. Throttling Chamber having compatible capacity and should be provided with Pressure Gauge to measure inlet pressure and pressure after throttling is measure by digital temperature indicator and differential manometer is condensed, Heat Exchanger to condensate steam after throttling by the steam through a Heat Exchanger, Steam Generator material stainless steel, compatible capacity with digital temperature controller to control the temperature inside the steam generator, Ball valves , Separation Chamber & Steam Generator : Material Stainless Steel.	
----	--	--	--