## SRI VENKATEWSARA COLLEGE OF ENGINEERING & TECHNOLOGY (Autonomous)

## R.V.S. NAGAR, CHITTOOR-517127 Department of Mechanical Engineering Thermal Engineering Lab Equipment Details \*\*\*\*\*\*

Name of the Equipment	Specifications	Equipment Image
Sectional model of 2- stroke petrol engine.		The Nor Indian and The Nor India
Sectional model of 4- stroke single cylinder diesel engine		

Two stroke two cylinder air compressor test Rig.

Four stroke single cylinder water

cooled vertical diesel engine test rig.

Power: 2 HP Speed: 720 RPM Pressure:175 lbs

=12.3 kgf/cm2

Gauge pressure: 1–14 kgf/cm2

No. of Cylinders :2

Energy meter constant:300

Rev/kwh

Make

BHP : 5 Bore :80mm

Stroke : 110 mm No. of cylinders: 1

Compression ratio:16.5:1

RPM :1500,

Loading : Mechanical brake

: Kirloskar



Four stroke four cylinder petrol engine test Rig.	Make: premier BHP: 10 Bore: 68mm Stroke: 75mm No. of cylinders: 4 Compression ratio:7.8:1 RPM :1500 Loading: Hydraulic dynamometer	
Vapour compression refrigeration test rig.	Make: AL Tech Compressor capacity: 1.5 TR Condenser: Air cooled Expansion devices: 1. Capillary tube 2. Solenoid valve 3. Thermostatic Expansion valve Refrigerant: Freon 22 Duct cross section: 0.17x0.2 sq-m	

Variable compression ratio petrol engine test rig.

Power: 2.5 Kw Fuel: Petrol Speed: 2800 RPM Torque: 1.4 Kg-m Lubricating oil: SAE 40

Loading: Eddy current Dynamometer



Computerized VCR Diesel engine test rig.

Make : Kirloskar

BHP: 5 Bore: 80mm Stroke: 110 mm No. of cylinders: 1

Compression ratio:12:1 to 20:1

RPM :1500

Loading :Eddy current Dynamometer



Computerized Air- Condition Test Rig		
Two stroke single cylinder air cooled petrol engine test Rig	Make : Bajaj BHP : 3 Bore :57 mm Stroke :57 mm No. of cylinders: 1 Compression ratio:7.4:1 RPM :3000 Loading : DC Generator/water Rheostat :Resistance load bank	