

Infrastructure / Facilities

- Renewable Energy Engineering Laboratory

Solar Laboratory



Hot Air Oven used for determining the moisture content and drying purpose



Muffle furnace used for determining the volatile matter and ash content



Digital wind speed and direction sensor



Box type solar cooker used for baking and boiling type of cooking



Solar parabolic concentrator cooker used for cooking (boiling and frying type)



Cabinet solar dryer used for drying of agro products



Solar thermal trainer for demonstration purpose and indoor testing of solar collector



Table top FPC based Solar Water Heater model for demonstration purpose



Table top ETC based Solar Water Heater model for demonstration purpose



ETC based Solar Hot Water System used for generating hot water

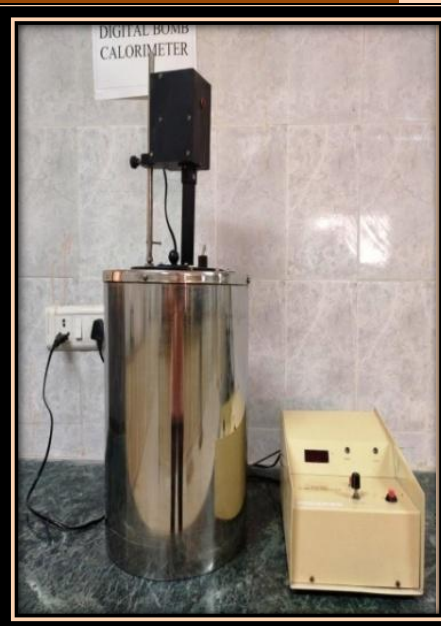


Solar Laboratory

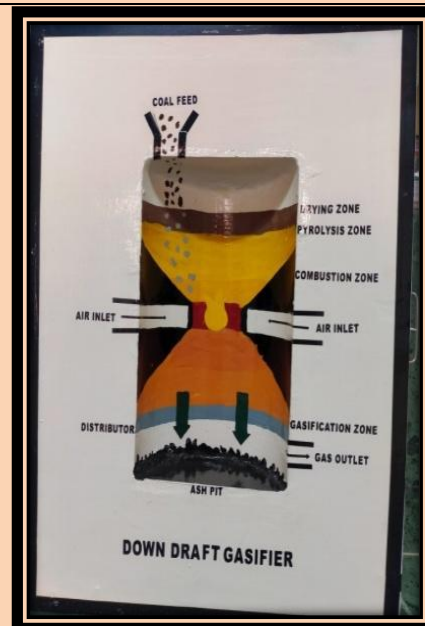
Biomass Laboratory



Improved biomass cookstove used for cooking purpose



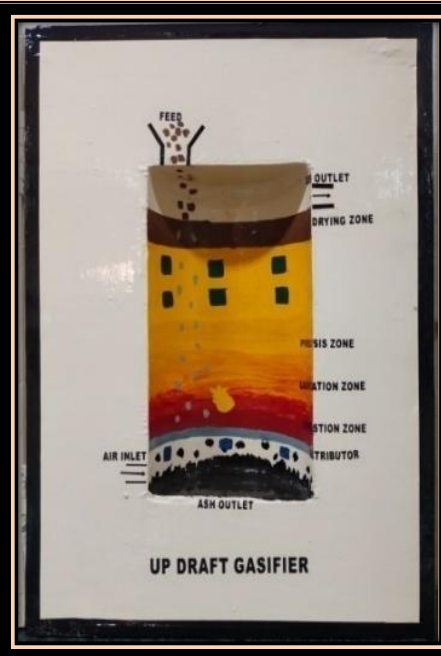
Digital bomb calorimeter used for measuring the calorific value of fuel



Cut section model of down draft gasifier for practical and demonstration purpose



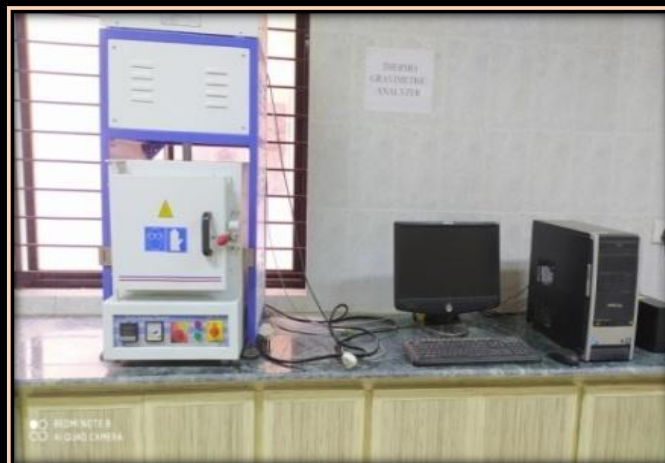
Cut section model of Floating dome biogas plant for practical and demonstration purpose



Cut section model of up draft gasifier for practical and demonstration purpose



Abel flash point apparatus used for determining the close cup flash point of Petroleum



Thermo gravimetric analyzer used for determining a material's thermal stability and its fraction of volatile components



Briquetting machine to produce white coal (small size briquettes)

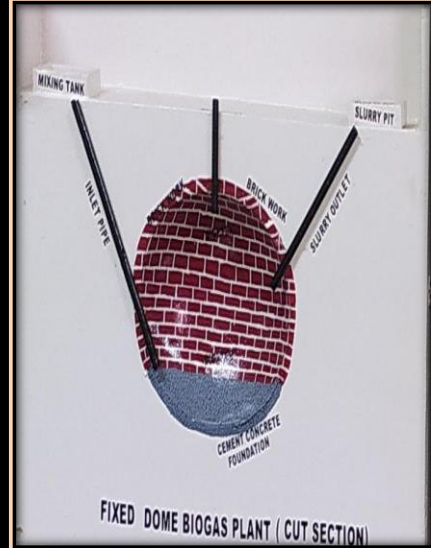


Biomass Laboratory

Instruments/Equipments/Devices at Renewable Energy Engineering Laboratory



Wind Mill for generation of electricity using wind energy



Cut section model of fixed dome biogas plant for practical and demonstration purpose



Abel flash point apparatus used for determining the close cup flash point of Petroleum



Solar powered temperature scanner used for temperature measurement



Improved biomass cookstove used for community cooking purpose



SPV powered baby solar dryer for drying of agro products

- **Soil & Water Conservation Engineering Laboratory**



Different types of Dam Model



Orifice and Venturi Meter



Different types of fumes



Different types of submersible pump rotors



Soil & Water Conservation Engineering Laboratory

Instruments at Soil & Water Conservation Engineering Laboratory



HYDROSTATIC BENCH

For Demonstration Of Various Manometers, Pressure Gauge, Humidity Measurement And Temperature Measurement



FLOAT TYPE RAINUAGE

For Recording Rainfall Data



RAPID MOISTURE METER

For Determining Soil Elastic Limit



LIQUID LIMIT APPARATUS

To Determine Soil Plasticity

- Processing and Food Engineering Laboratory



De-stoner

Destoner is a processing technique machine for removing stones and broken grains to improve the quality of rice by de-chaffing and separation of broken rice particles.



Potato slicing Machine

Potato Slicing Machine can process potatoes in different thickness and shapes to meet various demands of the project work analyze the effect of sliced potatoes.



Specific gravity separator



Tray Dryer



Oil Expeller



Air screen grain cleaner



Ball Mill

A ball mill is a type of grinder used to grind and blend bulk material into nanosize using different sized balls commonly used for crushing and grinding materials into an extremely fine form.



Millet pulverizer

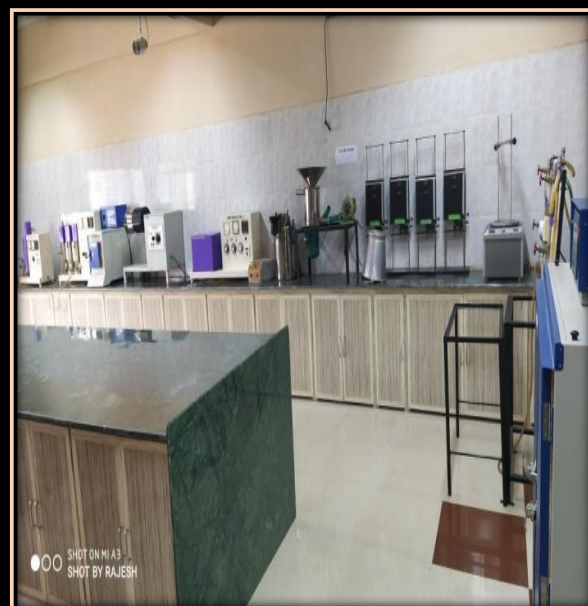
The secondary process of millet processing includes pulverizing or grinding millets into powder form for converting it into a flour for human consumption.



Grain processing and structure Lab

The labs are utilised for to conduct the practicals of Polytechnic, B. Tech, M. Tech and Ph. D students

Grain processing includes dry and wet milling, air scsreen grain clainers, diggerent types of separators, dryers for the processing of primary and secondaryagricultural produce.



Food process engineering Lab

Food process engineering includes boiling, cooking, steaming, baking, frying, extrusion, flaking, roasting, fermentation, malting or sprouting,brewing drying and other important unit operatiois to preparede goog quality process products.



Food analysis Lab

Food analysis lab is used to determine the nutritional and organoleptic qualities of the processed food materials at optimum level



Post Harvest Technology Lab

Post Harvest Technology Lab All the unit operations of agricultural proccsing carrid out.

- Irrigation and Drainage Engineering Laboratory**



Bernoulli's theorem Apparatus

It is used to verify Bernoulli's theorem of fluid flow



Centrifugal pump test rig

It is used to demonstrate working principle of centrifugal pump



Flow measurement device

It is used to study the fluid flow properties



Darcy's law apparatus

It is used to validate Darcy's law for flow through porous media



Irrigation and Drainage Engineering Laboratory

- Department of Basic Engineering and Applied Sciences
Laboratories

Instrument/Equipment at Mechanical Engineering Laboratory



Refrigeration Test Rig

It is used to find actual and theritical coefficient of performance



Window Air Conditioner Test Rig

It is used to find actual and theritical coefficient of performance

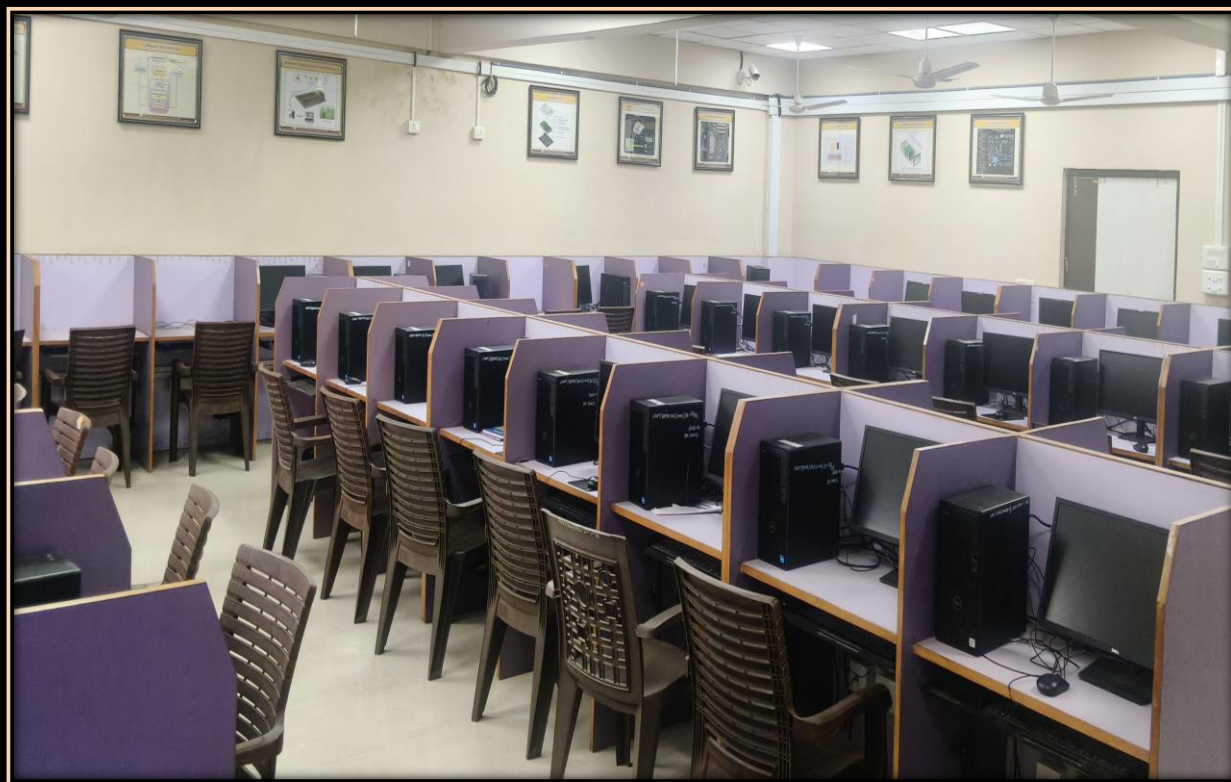


Water Cooler Test Rig



Vapour Absorption Refrigeration System

Department of Basic Engineering and Applied Sciences Laboratories



Computer Laboratory



Chemistry Laboratory

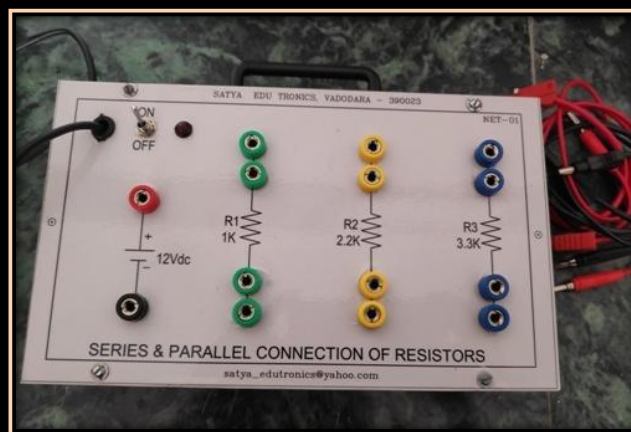
Instruments/Equipments at Electrical and Electronics Engineering laboratory



Single Phase Resistive Load



Energy Meter & Watt Meter



Series and Parallel Connection of Resistors Kit



Single Phase AC Power control using DIAC & TRIAC Kit



Verification of Kirchhoff's laws Kit



Equipment of Physics Laboratory

- Classroom & Hostel



Boys Hostel



Girls Hostel



Conference Room



Class Room