



**DEPARTMENT OF RENEWABLE ENERGY ENGINEERING**  
**BIOMASS ENERGY LABORATORY**  
**COLLEGE OF TECHNOLOGY**  
**Sardar Vallabhbhai Patel University of Agriculture & Technology Meerut**  
**250110 (UP)**  
**List of Equipment's**


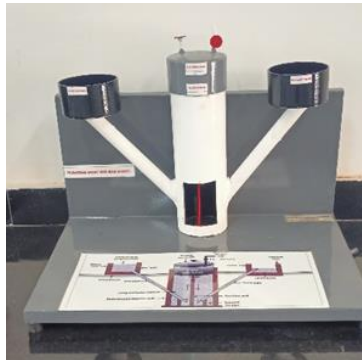

S. No.	Name of Equipment	Technical Specification	Figure of Equipment
01	Hot Air Oven	Capacity- 252 liter, Ambient Temp. Range in °C- Ambient to 250 °C, Temp. Accuracy in °C $\pm 0.5$ °C, Controller- Analog Type, Type of Display- LED, No. of Shelves-3	
02	Muffle Furnace	Temp. Range-900 to 1400 °C, Accuracy-1 °C, Size-30x30x60 cm., Volume – 56 liter, Display-LED	
03	Microprocessor Based Automatic pH Meter	Display- LCD Display, pH Range (pH) - 2.00 to 16.00, Accuracy (pH)- $\pm 0.002$ , Temp. Accuracy- (°C) - $\pm 0.2$ mV or $\pm 0.05\%$ , Temp. Compensation range (°C)-5 to 105 °C	
04	Bacteriological Incubator	Frequency 50HZ, Electrical Operated Temp. Range-5 to 60 °C, Temp. Accuracy-0.5 °C, Material-Stainless Steel	
05	Autoclave	Suitable for General Laboratory Use & Sterilization, Aluminum Vertical Body, Dome cover sealed by joint less gas kit, which is clamped to the vessel by wing nut by hinged bolt, which engaged slotted lugs on rim to the cover, Along with dial pressure gauge & safety valve	
06	Portable Gas Analyzer	No. of Gas examined-5, CO- 0 to 15.5%, Accuracy of CO-1%, Resolution of CO-0.001%, CO <sub>2</sub> - 0 to 21% Accuracy of CO <sub>2</sub> -1%, HC-0 to 20000 ppm, Accuracy of HC-1%, O <sub>2</sub> -0 to 25 %, Accuracy of O <sub>2</sub> -1%, Resolution of O <sub>2</sub> -0.01%	



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List of Equipment's

07	Model & Cut Section of Fixed Dome Type Biogas Plants	Cut Section Model	
08	Model & Cut Section of Floating Drum Type Biogas Plants	Cut Section Model	
09	Bomb Calorimeter	Calorimeter vessel, Thermometer, Pressure Gauge, Safety Feature	
10	Moisture Analyser	Automatic Digital with main Power supply	