

Bio-Diesel Production & Testing Facility

Sl. No.	Item	Quantity	Specifications
1.	Ultrasonicator	01	Ultrasonic processor with generator of 1000W having special titanium horn of 25 mm dia.
2.	Flash & fire points by Cleveland Open Cup	01	ASTM D92-78
3.	Kinematic Viscometer	01	ASTM D445-83
4.	Research Engine	01	Single Cylinder, 4-stroke, 110 mm stroke, 87.5 mm bore, capacity diesel mode- 661 cc, power 3.5 Kw, speed 1500 rpm Petrol mode- 4.5 Kw @ 1800 rpm, CR: 12-18 for diesel, 06-10 for petrol
5.	Gas Chromatogram	01	Microprocessor based with FID, PTV Injector HT-5 column for bio-diesel analysis. Max temperature: 500°C.
6.	Mechanical Oil Extractor Assembly	01	5HP Micropulverizer, Dust collector, Zero hold up Filter press
7.	Centrifugal Hydro Extractor	01	Dia-10", Centrifuge, SS 316
8.	Multistage Gas Analyzer	01	Air-fuel ratio: 30:1 (max); Range of Measurement - CO (0 to 9.99%), HC (0 to 15000 ppm), CO ₂ (0 to 20.00 %), O ₂ (0 to 25%)