

Appendix-I

Sr. No.	Name of the item with specifications	Qty.
1.	<p>Computerised Diesel engine set-up</p> <ul style="list-style-type: none"> ● Single cylinder, 4 stroke, Diesel engine with Exhaust Gas Recirculation (close loop) ● Independently change inlet and exhaust valve timing, Overhead Cam Shaft. ● Power: 3-5HP ● Engine Speed: 800-1500 rpm ● Electric Start ● Engine Aspiration: Engine should have the ability to run on both natural and turbo charged mode ● Diesel Injection Pressure sensing ● Fuel System: CRDI Diesel injection with the ability to change the start of injection, injection duration, injection pressure and multiple injection. Changing of injection parameters should be controlled from the computer. ● The engine should be capable to run on other fuel such as LPG, CNG, H2-NG, ethanol blend, methanol etc. ● Dynamometer: The Engine Should be coupled with 5 HP Eddy Current Dynamometer with Strain Gauge Loadcell. ● Controls : Fuel injection System with controls ● Software: Engine Combustion Analysis and performance Software, Fuel injection and control software. ● Smoke meter <p>Measurement range: 0 to 10 FSN (filter smoke number) Detection limit: 0.002 FSN or 0.02 mg/m³ Resolution: 0.001 FSN or 0.01 mg/m³</p>	01