

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"> ● Two cylinder, 4 stroke, Diesel engine with Exhaust Gas Recirculation with EGR cooler ● Power: 35BHP@ 3750RPM or better ● Torque: 75Nm @ 1800-2200RPM or better ● 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. Charging of injection parameters should be controlled from the computer. ● The engine should be capable to run on CNG as secondary fuel. ● Dynamometer: The Engine should be coupled with suitable Eddy Current Dynamometer with strain Gauge Load cell. ● Controls: Fuel injection System with controls ● Software: Engine Combustion Analysis and performance Software, Fuel injection and control software. ● Crank Angle sensor of 0.1° ● Smoke meter for full load application ● Measurement range: 0 to 10 FSN (filter smoke number) Detection limit : 0.002 FSN or $0.02\text{mg}/\text{m}^3$ ● Resolution: 0.001 FSN or $0.01\text{ mg}/\text{m}^3$. 	01