

### Questionnaire for Engine Testing Dynamometer

Company Name : \_\_\_\_\_

Address : \_\_\_\_\_

Tel./Cell nos. \_\_\_\_\_

Sr. No.	Description	Customer Requirement	Options
<b>I. General</b>			
1	Type of Engine		Single Cylinder / Multi cylinder
2	Type of Fuel used for engine		Petrol / Diesel
3	Max speed (Engine RPM)	_____ RPM	
4	Max Speed (O/p shaft RPM)	_____ RPM	
5	Max Torque	_____ Nm	
6	Max Power at Speed	___ HP / ___ RPM	
7	Testing to be done with / without transmission	Yes / No	
8	Weight of the engine (Kg)		
<b>Instrumentation</b>			
1	Dynamometer controller		Single Mode Three Mode Five Mode
2	Throttle controller		Single Mode Three Mode
3	Torque Indicator		Resolution: 0.1 / 0.01
4	Fuel measurement system		Volumetric / Gravimetric / Flow measurement
5	Alarm Annunciator and Engine Start / Stop controller		Micro PLC based / Hardware based
<b>II. Measurement Indicators</b>			
1	Type of Instrument		Individual Display / Universal Scanner
2	Temperature measurement		
A	No. of RTD indicators		0-200 deg C
B	No. of Thermocouple indicators		0-1000 deg C
3	Pressure measurement (qty and range)		
4	Barometric pressure measurement		0-750 mmHg vacuum
5	Engine RPM indicator for <b>petrol engines</b>		500-10000 RPM

Sr. No.	Description	Customer Requirement	Options
<b>III. Conditioning Instrumentation</b>			
1	Exhaust back pressure controller		
2	Fuel conditioning unit		
3	Lub oil conditioning unit		
4	Engine Coolant conditioning unit		
<b>IV. Dyno – Engine Mounting Bed</b>			
1	Dynamometer mounting type		On civil Foundation / Fabricated Stand (For 2-3 wheeler engine Dynamometer only)
2	Engine mounting stand		“T” slot bed / “T” slot bed with screw jack / Universal engine mounting bed
<b>V. General</b>			
1	Cabling from panel to Engine room		Through conduits / Through MS cable trays & conduits / Through Over head cable boom.
2	Starting arrangement		Thro’ battery / DC Rectifier / cranking through motor from non driving end of dynamometer
3	Shaft for engine coupling		Universal / fixed length
<b>VI. Engine Cooling Blower</b>			
19	Cooling blower for engine cooling		Fixed / variable velocity
	Cooling blower outlet area		
	Max Velocity		
	CFM		
<b>VII. Control System</b>			
	Control system		PC based / manual operation
	Software for engine testing		
	Software for Integration of third party instruments like smoke meter, particulate, emission system, four gas analyzers, Blow By , SFC etc.		
<b>VIII</b>			
	Test Cycle requirements		
	EPA		
	ELR		
	ETC		

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<b>Sr. No.</b>	<b>Description</b>	<b>Customer Requirement</b>	<b>Options</b>
	<b>Any other requirement</b>	Specifications	