ENGINE SPECIFICATIONS			
	Make	:	
	Model	:	
	Type	:	
	Name & address of manufacturer in full	:	
	Country of origin	:	
	Year of manufacturer	:	
	Engine serial No.	:	
	Maximum power, kW	:	
	Rated power, kW		
	Max. torque, Nm	:	
	Speed at max. torque, rpm	:	
	Engine speed corresponding to Max. power, rpm	:	
	Engine speed (Manufacturer's recommended setting), rpm		
	Maximum speed at no load, rpm	:	
	Rated speed, rpm	:	
	No load engine speed for field operation, rpm (if any)	:	
	Low idle speed, rpm	:	
	Cylinder and cylinder head		
	Number	:	
	Disposition	:	
	Bore/Stroke, mm	:	
	Capacity, cm^3	:	
	Compression ratio	:	
	Type of cylinder head	:	
	Type of cylinder liners	:	
	Arrangement of valves	:	
	Type of combustion chamber	:	
	Valve clearance in cold, mm		
	Inlet	:	
	Exhaust	:	
	Fuel system		
	Type of fuel system	:	
	Fuel feed pump		
	Make	:	

	Type	:	
	Part No./Group combination No.	:	
	Provision of sediment bowl	:	
	Fuel filter		
	Make	:	
	Part no.	:	
	Number	:	
	Type	:	
	Type of element	:	
	Capacity of final filter, l	:	
	Fuel injection pump		
	Make	:	
	Model	:	
	Type	:	
	Serial Number	:	
	Method of drive	:	
	Fuel injectors		
	Make	:	
	Model/ Group combination No.	:	
	Type	:	
	Manufacturer's production pressure setting, MPa (kgf/cm^2)	:	
	Injection timing	:	
	Firing order	:	
	Governor		
	Make	:	
	Model	:	
	Type	:	
	Governed range of engine speed, rpm	:	
	Air intake system		
	Type	:	
	Pre-cleaner		
	Make	:	
	Type	:	
	Number	:	
	Location	:	
	Air cleaner		
	Make	:	

	Type	:		
	Number	:		
	Location	:		
	Number & Type of elements	:		
	Size of dry filter element, mm		**Primary**	**Secondary**
	Inner dia.	:		
	Outer dia.	:		
	Length	:		
	Service indicator	:		
	Service schedule	:		
	Suction pressure at max. power, kPa	:		
	Exhaust			
	Make	:		
	Type	:		
	Size of muffler, mm	:		
	Model/Part No.	:		
	Range of exhaust gas pressure at max power, kPa	:		
	Provision of spark arresting device/any other device	:		
	Detail of turbo charger			
	Make	:		
	Model	:		
	Serial No.	:		
	Part No.	:		
	No. of blade			
	Turbine wheel	:		
	Compressor	:		
	Method of drive	:		
	Means of lubrication	:		
	Charged air cooler unit	:		
	Lubricating system			
	Type	:		
	Pump			
	Make	:		
	Type of oil pump	:		
	Method of drive	:		

	Lub. oil pump rpm corresponding to rated rpm of engine, rpm	:	
	Pressure release setting, kgf/cm^2	:	
	Minimum permissible pressure, kgf/cm^2	:	
	Method of oil cooling	:	
	Oil cooler Type	:	
	Make	:	
	Part no.	:	
	Oil sump capacity, l	:	
	Oil change period, h	:	
	Filters		
	Make	:	
	Model/Part No.	:	
	Type	:	
	Location	:	
	Cooling system		
	Type	:	
	Water pump		
	Make	:	
	Type	:	
	Size of impeller, mm Diameter	: :	
	No. of vanes	:	
	Method of drive	:	
	Details of fan		
	Material & type	:	
	No. of blades	:	
	Size, mm	:	
	Radiator		
	Make	:	
	Size of radiator, mm Height Width Thickness	: : :	
	No. of tubes	:	
	Type of radiator cap	:	
	Radiator cap pressure, kg/cm^2	:	
	Means of temperature control	:	

	Type of thermostat	:	
	Method of mounting	:	
	Type of radiator grill	:	
	Means of grill cleaning	:	
	Recommended grade of coolant	:	
	Recommended ratio of coolant and water	:	
	Bare radiator capacity, l	:	
	Total coolant capacity, l	:	
	Starting system		
	Type	:	
	Aid for cold starting	:	
	Any other device provided for easy starting	:	
	Electrical system		
	Battery		
	Make	:	
	Number and type	:	
	Model/Type no.	:	
	Capacity and rating	:	
	Location	:	
	Starter		
	Make	:	
	Model /Group combination no.	:	
	Type	:	
	Voltage & capacity	:	
	Part No./Sr. No.	:	
	Location	:	
	Alternator		
	Make	:	
	Model	:	
	Output rating	:	
	Location	:	
	Method of drive	:	
	Voltage regulator	:	

Minimum Performance Criteria of Engine

Sr. No.	Parameter	Requirement	As declared by the manufacturer/applicant
1.	Max. power (absolute) average max. power observed during 2 h. Max. power test in natural ambient condition, kW	Evaluative	
2.	Max. power observed during test after adjusting the no load engine speed as per recommendation of the manufacturer for field work, kW	Evaluative	
3.	***Max. power observed during test after adjusting the no load engine speed as per recommendation of the manufacturer for field work, kW (If field rpm is deferent)***	Evaluative	
4.	Power at rated engine speed, kW	Non-evaluative	
5.	Specific fuel consumption corresponding to average maximum power under 2 h maximum power test, g/kWh.	Evaluative	
6.	Max. Smoke density (Bosch no.) at 80% load between the speed at max. Power & 55% of speed at max. or 1000 rpm whichever is higher	Evaluative	
7.	Max. Crank shaft torque, (Nm) observed during the test after no load engine speed is adjusted as per manufacturer's recommendation for field work	Evaluative	

8.	***Max. Crank shaft torque, (Nm) observed during the test after no load engine speed is adjusted as per manufacturer's recommendation for field work (If field rpm is deferent)***	Evaluative	
9.	Back up torque, % (Natural ambient)	Evaluative	
10.	Max. operating temperature, ^{o} C		
	Engine oil Coolant	Evaluative	
11.	Lubrication oil consumption, g/kWh	Evaluative	

Discord limit of critical components of engine			
12.	Cylinder bore diameter, mm	Evaluative	
13.	Piston diameter, mm	Evaluative	
14.	Piston to cylinder liner clearance at skirt, mm	Evaluative	
15.	Ring end gap, mm i) Top compression ring ii) 2nd compression ring iii) Oil ring	Evaluative	
16.	Ring groove clearance, mm 1. Top compression ring 2. 2nd compression ring 3. Oil ring	Evaluative	
17.	Diametrical and axial clearance of big end bearing, mm Diametrical Axial	Evaluative	
18.	Diametrical and axial clearance of main bearings, mm Diametrical Crank shaft end float	Evaluative	
19.	Spring stiffness, N/mm (or) kg/mm		
	- Inlet valve	--	
	- Exhaust valve	--	