



	<p><b>• Governing System</b></p>			
	<p>The engine to be fitted with a close tolerance Cummins Electronic Governing system, which should include efc, actuators, magnetic pickups, etc., including wiring</p>			
	<p><b>• Cooling Equipment</b></p> <p>Cooling equipment comprising a heavy-duty tropical radiator, together with pusher type cooling fan and guards to be fitted. The radiator core should be electroplated with silver solder tin plated to prevent early failure due to corrosion. Copper plated radiators are acceptable. The radiator has to be mounted on vibration mounts with enough strength to withstand the radiator and vibrations. Radiator must be designed to adequately cool the generator at an ambient temperature of 50 degree Celsius.</p>			
	<p><b>• Exhaust system</b></p> <p>450 mm of stainless steel below type flexible exhaust, together with suitable flanges and fittings shall be supplied for each silencer.</p>			
	<p><b>• Alternator</b></p> <p>The alternator shall be brushless revolving type alternator, having class H insulation on both the stator and field windings. It shall be built and rated to BS 5000, tropically impregnated with voltage regulation being in the order of +/- 1.5% from no load to full load under the steady state conditions assuming a speed variation not exceeding 4% on the engine. Anti-Condensation Coil to be fitted in the Alternator.</p>			
	<p><b>• Generator arrangement and drive</b></p> <p>The simplex type base plate is of heavy duty rolled steel constructed, bolted and electrically welded, drilled on the underside to allow the fitting of foundation bolts. The engine and the alternator are to be mounted on a base plate and vibration mounts to be mounted underside of the base plate. The vibration mounts are to be supplied as loose item.</p>			
	<p><b>• Finishing</b></p> <p>After assembling the genset zinc coated self-etching primer should be applied to the complete set.</p>			

<b>1.2</b>	<b>Fuel system</b>		1	No
	A fuel day tank of 12 hours capacity complete with level indicator, drain plug, filler, fuel return with fuel outlet connections and a fuel filter fitted with outlet connection is to be mounted. These mounts are to be supplied as loose item. All necessary fittings to be supplied in conformity with fuel flow diagram.			
<b>1.3</b>	<b>Factory testing</b>		1	No
	The generator should be fully tested at the manufacturer workshop in the presence of client/appointees to check the ratings, overload, functional tests on a dummy load prior to dispatch <i>in case the bidder is unable to provide factory test</i> as required the bidder shall provide an extended warranty of one extra year than mentioned in item no 10 of this document.			
<b>1.4</b>	<b>Literature and drawings consisting of :</b>		1	Lot
	<ul style="list-style-type: none"> <li>• 1 No x Manual on How to handle the generation equipment</li> <li>• 1 Nos x Electrical wiring diagram</li> <li>• 1 No x Engine operation and maintenance manual</li> <li>• 1 No x Engine parts catalogue</li> <li>• 1 No x Generator parts catalogue</li> <li>• 1 No x Generator operation and maintenance manual</li> <li>• 1 No x Generator AVR manual</li> <li>• 1 No x Governor control unit manual</li> <li>• 1 No x Engine shop manual</li> </ul>			
<b>1.5</b>	<b>Accessories</b>			
	The Components shall meet the British Standard and ISO standards. Items are for the above mentioned generator sets.			
<b>1.5.1</b>	Primary silencer barrel( <b>to match engine exhaust</b> )		1	No
<b>1.5.2</b>	Secondary silencer barrel( <b>to match engine exhaust</b> )		1	No
<b>1.5.3</b>	3m Exhaust pipe dia( <b>to match engine exhaust</b> )		4	No
<b>1.5.4</b>	Elbows having dia ( <b>to match the engine exhaust</b> )		3	No
<b>1.5.5</b>	Flanges having dia ( <b>to match the engine exhaust</b> )		8	No
<b>1.5.6</b>	Bolts, Nuts and Washers for the flanges. (Each set shall include 1 bolt, 2 washers			
<b>1.5.7</b>	Split type Rockwool insulation lagging suitable for 75 to 125mm dia. Exhaust pipes. The lagging shall be covered with high Quality Aluminum Foil.			



