

	<b>PURCHASE SPECIFICATION</b>	<b>Rev. 0</b>
	<b>Water Mist system</b>	<b>Dt. 11.02.2010</b>
	<b>Item Code No: COECP_7 (h)</b>	<b>Specification No. COECP_7(h)</b>

1. General:

This specification covers the technical requirements for "**Water Mist system**" to be used For fire fighting applications in COECP building.

2. Technical specifications

Sl. No.	DESCRIPTION
01	<p>Portable "<b>Water Mist system</b>" to be used For fire fighting applications in buildings, equal to or better than following specification :</p> <p>Technical Data</p> <ul style="list-style-type: none"> <li>➤ Filling capacity : 9 ltrs.(approx)</li> <li>➤ Working Pressure : 7.5 bar (approx)</li> <li>➤ Lancing 2 jet format extinguishing gun <ul style="list-style-type: none"> <li>• Jet mode : 15 mtrs (Approx)</li> <li>• Spray mode : 5 mtrs. (Approx)</li> </ul> </li> <li>➤ Flow Rate : 0.4 ltrs/sec. Approx</li> <li>➤ EN3 Rating <ul style="list-style-type: none"> <li>Class A : A55</li> <li>Class B : B300</li> </ul> </li> <li>➤ Wt. of appliance Filled: Approx. 24 kg.</li> <li>➤ Wt. of gun : approx. 2 kg.</li> <li>➤ Length of hose : &gt; 1.2 M</li> <li>➤ Composite gas bottle : 4.7 litre at 300 bar (approx)</li> <li>➤ Application : Industrial</li> </ul>
02	<p>Petrol Engine driven High pressure "<b>Water Mist system</b>" to be used For fire fighting applications in buildings, equal to or better than following specification :</p> <p>Technical Data</p> <ul style="list-style-type: none"> <li>•Dimension of frame : Not greater than 1100 mm x 600 mm x 600 mm</li> <li>•Weight : approx. 160 kg</li> <li>•Pump discharge capacity : 25 litre/min., 120 bar,</li> <li>•Water Tank capacity : Minimum 100 ltrs ( minimum 4 minutes holding) mounted on the frame</li> <li>•Engine : Suitable Engine for running the above pump at rated parameters</li> <li>•Fuel : Petrol</li> <li>•Fuel Tank capacity : Minimum 75 minutes Continuous running</li> <li>•High pressure hose : Flame resistant hose not less than 50 m and should be rolled in the frame</li> <li>•Hose rewind : Manual or auto</li> <li>•Hose Coupling : Quick release</li> <li>•Hose Handle : Convenient for handling and directing on to the fire</li> </ul>

Prepared by	K S R SWAMY	Approved by	A Dasgupta
Turbomachinery Laboratory		COE for Compressors and Pumps	
Corporate R&D Division, BHEL, Vikasnagar, Hyderabad 500093			

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Sl. No.	DESCRIPTION
	<ul style="list-style-type: none"><li>• Ambient Temperature : 45 °C</li><li>• Type of start : Electric starter with ignition switch, starter button and card pull start for emergency start</li><li>• Charge indication : Suitable Battery charge indicator</li><li>• Battery charger : Suitable A.C battery charger with over charging protection circuit to charge the ignition battery</li><li>• Pressure gauge : Suitable to measure the flow parameters.</li><li>• Frame : Stainless steel trolley type frame with carrying handles &amp; castor wheels</li><li>• Operation : Through a Reduction gearbox or directly</li><li>• Pressure regulation : Automatic valve regulator to maintain desired levels</li><li>• Water Inlet : Standard coupling for external water supply with a valve</li><li>• Pump classification : High pressure plunger pump</li><li>• Tools : Necessary tools to be provided along with the equipment</li><li>• Nozzle gun : At least 3 different water jet configurations for adjustable flow rates with handle to hold the gun</li><li>• Jet selection : High-pressure ball valve with locking lever to select the type of jet</li><li>• Nozzle Head : One central fog nozzle and peripheral very fine nozzles</li><li>• Types of Fog : 3 spray pattern<ul style="list-style-type: none"><li>- Fine water fog</li><li>- Combination of fine water fog and central jet fog</li><li>- Full Jet</li></ul></li><li>• <b>Optional High pressure hose reel</b> : Indicate price separately for 100 Mtrs. hose integrated in the Frame</li></ul>
03	<p><b><u>OPTIONAL :</u></b></p> <p>1) Breathing apparatus to be quoted separately as an accessory. 2) Charges for Periodical Maintenance support for Three/Five years including consumables after the guarantee period to be quoted separately.</p> <p><b><u>NOTE:</u></b></p> <p><b>1. BHEL shall have the option to vary the quantity for SI Nos 1, 2 &amp; 3 (1) above.</b> <b>2. Order shall be placed item wise lowest cost on one Vendor or more for SI Nos 1 &amp; 2.</b> <b>3. For clarification, please contact Shri BR Manohar,AGM(TML)</b> <b>e-mail Id : <a href="mailto:manohar@bhelrnd.co.in">manohar@bhelrnd.co.in</a></b></p>

**GENERAL:**

3.1 The quotation is to be submitted in two parts: Part A- Technical bid; Part B - price bid.

3.2 The vendor shall submit all the relevant technical brochures along with the Technical bid for evaluation.

3.3 The Unpriced price bid shall be enclosed to the Technical bid.

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