



दिनांक एवं हस्ताक्षर SIGN & DATE		<b>उत्पाद क्रय विनिर्देश</b>		WO:ZMER1300701 MC: ZWG082401012																																							
		<b>PRODUCT PURCHASE SPECIFICATION</b>		पृष्ठ	1 का 2																																						
SUPERSEDES INVENTORY NO.	<p><b>1.0 NAME OF EQUIPMENT : HAND HELD PHOTOSYNTHESIS SYSTEM</b>          Portable Photosynthesis System, Light Weight (1.5kg), for measurement of Photosynthesis, Transpiration, Stomatal Conductance/resistance, PAR, RH, Air temp, Leaf Temperature by non contact type infrared leaf temp. sensor by Open as well as Closed system technique. The instrument should have interchangeable leaf chamber for open system as well as closed system, Leaf chamber of Broad leaves. The leaf chambers should be directly connected to the analyser for fast and accurate measurement.</p> <p><b>2.0 GENERAL :</b> Portable Photosynthesis System, Light Weight, for measurement of Photosynthesis, Transpiration, Stomatal Conductance/resistance, PAR, RH, Air temp, Leaf Temperature by non contact type infrared leaf temp. sensor by Open as well as Closed system technique. measurement.</p> <p><b>3.0 SPECIFICATION OF EQUIPMENT :</b>          3.1 The instrument should have interchangeable leaf chamber for open system as well as closed system, Leaf chamber wide rectangular. The leaf chambers should be directly connected to the analyzer for fast and accurate with following specification :</p> <table border="0"> <tr> <td>Type</td> <td>:</td> <td>CO<sub>2</sub> &amp; H<sub>2</sub>O Analyzer (Inside main system), free absolute &amp; differential, non-dispersive infrared gas Analyzer.</td> </tr> <tr> <td>CO<sub>2</sub> Range</td> <td>:</td> <td>0 - 2000 ppm</td> </tr> <tr> <td>Sensor</td> <td>:</td> <td>Low power Infrared detector, no sensitivity to motion.</td> </tr> <tr> <td>Chopping Frequency</td> <td>:</td> <td>1 Hz</td> </tr> <tr> <td>Repeatability</td> <td>:</td> <td>± 0.1 ppm</td> </tr> <tr> <td>Resolution</td> <td>:</td> <td>0.1 ppm</td> </tr> <tr> <td>Pressure Compensation</td> <td>:</td> <td>Automatic pressure and temperature compensation</td> </tr> <tr> <td>Data output</td> <td>:</td> <td>USB to computer.</td> </tr> <tr> <td>Data storage</td> <td>:</td> <td>4 MB Flash RAM/SD Card</td> </tr> <tr> <td>Display</td> <td>:</td> <td>LCD 40 x 6 Character or 320 x 60 Pixel</td> </tr> <tr> <td>Power Consumption</td> <td>:</td> <td>2.5 watts (sample pump in operation)</td> </tr> <tr> <td>Power supply</td> <td>:</td> <td>7.2 mAh Rechargeable battery providing 4 hours of continuous use, or AC power.</td> </tr> </table> <p>3.2 The instrument should be supplied with in-built infrared CO<sub>2</sub> gas analyzer, Broad Leaf Chambers for open system, Non-contact type infrared leaf temp. Sensor, Soda Lime Tube, Silica Gel Tube, Spare parts kit, Communication software, battery charger, Soil CO<sub>2</sub> chamber with temperature probe Hard shell instrument carrying case, &amp; user's manual.</p>					Type	:	CO <sub>2</sub> & H <sub>2</sub> O Analyzer (Inside main system), free absolute & differential, non-dispersive infrared gas Analyzer.	CO <sub>2</sub> Range	:	0 - 2000 ppm	Sensor	:	Low power Infrared detector, no sensitivity to motion.	Chopping Frequency	:	1 Hz	Repeatability	:	± 0.1 ppm	Resolution	:	0.1 ppm	Pressure Compensation	:	Automatic pressure and temperature compensation	Data output	:	USB to computer.	Data storage	:	4 MB Flash RAM/SD Card	Display	:	LCD 40 x 6 Character or 320 x 60 Pixel	Power Consumption	:	2.5 watts (sample pump in operation)	Power supply	:	7.2 mAh Rechargeable battery providing 4 hours of continuous use, or AC power.	Page	1 of 2
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सामग्री सूची संख्या को अधिकृत करता है SUPERSEDES INVENTORY NO.	<p><b>स्वत्वाधिकार एवं गोपनीय</b>          इस प्रलेख में की गई सूचना भारत हेवी इलेक्ट्रिकल्स की संपत्ति है इसका प्रत्यक्ष एवं अप्रत्यक्ष रूप से किसी भी तरह प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया जाए।</p> <p><b>COPYRIGHT AND CONFIDENTIAL</b>          The information on this documents is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company</p>																																										
						हस्ताक्षर एवं दिनांक SIGN & DATE	नाम NAME	दिनांक एवं हस्ताक्षर DATE & SIGNATURE	अनुवादक TRANSLATED BY	दिनांक एवं हस्ताक्षर SIGNATURE & DATE																																	
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Dt.	24.12.2012				दिनांक DATE :																																						

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SUPERSEDES INVENTORY NO.				Page	2	of	2
सामग्री सूची संख्या को अधिकृत करता है	<p>3.3. Essential Scope of supply for the offered model should be clearly given in the Offer.</p> <p>3.4. Dust Cover/ carry bag should be provided.</p> <p>3.5. Catalogue: Printed Catalogue must be provided along with the offer for the equipment Offered.</p> <p><b>4.0 General Terms &amp; Conditions</b></p> <p>4.1 <b>Document:</b> One hard copy of O&amp;M manual in English language giving complete technical information for operation and maintenance of the equipment including circuit diagram shall be supplied.</p> <p>4.2 <b>Installation and Commissioning:</b> The supplier shall install &amp; commission the Equipment at PCRI, BHEL, Hardwar, demonstrate the performance of the Equipment Free of cost.</p> <p>4.3 <b>Training:</b> Supplier shall give necessary training to user at the time of installation &amp; commissioning free of cost.</p> <p>4.4 The equipment will work on 230 VAC, 50 Hz single phase supply.</p> <p>4.5 <b>Guarantee :</b> The equipment shall be guaranteed for satisfactory performance for a period of 18 months from the date of commissioning and 24 months from the date of dispatch whichever is earlier. In case of any breakdown during this time period, the guarantee period will get extended accordingly.</p> <p>4.6 Party should quote accessories on an optional basis.</p> <p><b>5.0 Pre- Qualifying Requirement :</b></p> <p>5.1 Vendor should have supplied offered item / similar item to a customer in the past 5 years. Vendor to provide the name, address and contact details of the customer (s).</p> <p>5.2 Vendor should submit satisfactory performance certificate of the equipment from above referred customer (s).</p> <p>5.3 BHEL reserves the right to verify the supplied information from vendor's customer directly. Vendor shall render all possible help in this regard.</p>						
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सामग्री सूची संख्या INVENTORY NO.	REV.NO.	0	निर्माणकर्ता WORKED BY	Dr.S.Bhatnagar			
			Checked By	Dr.N.G.Shrivastava			