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		PRODUCT PURCHASE SPECIFICATION		Page	1 of 1																																			
<u>DIAL TYPE BAROMETER</u> 1.0 DESCRIPTION The Equipment is required to measure Barometric Pressure of the Atmosphere. 2.0 TECHNICAL SPECIFICATIONS : Dial type barometer (Make – Hach) 2.1 Dial Type 2.2 Metallic Body 2.3 Shape : Circular, Around 4 inch (10 cm) Dia 2.4 Nominal Range : 800-1040 mbar 2.5 Resolution : Maximum 5 mbar 2.6 Manual Operation 2.7 No Power supply 2.8 Packing in thermocol/HDPE foam line wooden box 3.0 General Terms & Conditions: 3.1 Document: One hard copy O&M manual in English language giving complete technical information for operation. 3.2 Guarantee: The equipment shall be guaranteed for a period of 18 months from the date of dispatch. 3.3 Packing & Dispatch: The equipment / accessories shall be packed in a suitable water proof/vibration proof packing boxes capable of bearing air and road transit hazards. Packing box shall be properly Identified and marked with BHEL's (India) Purchase Order Number.																																								
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		PRODUCT PURCHASE SPECIFICATION		पृष्ठ Page	1 का 1 1 of 1
SUPERSEDES INVENTORY NO.	1.0 Name of Equipment: COD Digestion Unit				
नाम की सूची संख्या को अधिकृत करता है	2.0 General: The instrument is used for digestion of water samples for determination of Chemical Oxygen Demand.				
COPYRIGHT AND CONFIDENTIAL The information on this document 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.	3.0 Specifications of Equipment:				
	1. The COD Digestion Unit should consist of 15 set of Reaction Vessels and 15 nos. of Air condensers.				
	2. It should be a compact solid block heated unit with provision for 15 samples at a time in 40 mm dia. reaction vessel.				
	3. Samples are to be heated at 150°C within $\pm 1\%$ accuracy with utmost uniformity of Temperature. No water circulation is required.				
	4. Digital Display for Temperature Indicator be provided.				
4.0 General Terms & Conditions					
4.1 Document: One hard copy of O&M Manual in English language giving complete technical information for operation and maintenance of the equipment including circuit diagram shall be supplied.					
4.2 Installation and Commissioning: The supplier shall install & commission the equipment at site. Supplier should demonstrate the performance of the Equipment and all its accessories to ensure compliance with complete specifications & parameters quoted by them to the satisfaction of BHEL/end user. Cost of installation & Commissioning, if any, should be indicated separately.					
<i>Failing to comply to the Installation and Commissioning clause, the offer will be rejected straightaway.</i>					
4.3 Guarantee: The equipment shall be guaranteed for satisfactory performance for a period of 12 months from the date of installation or 18 months from date of dispatch, whichever is earlier.					
<i>Failing to comply to the Guarantee clause, the offer will be rejected straightaway.</i>					
4.4 Packing & Dispatch: The equipment / accessories shall be packed in a suitable water proof/vibration proof packing box capable of bearing air and road transit hazards. Packing box shall be properly identified and marked with BHEL's (India) Purchase Order Number. Also, "PCRI HWR" should be written in bold letters on all four sides of the packing box.					
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			पर्यवेक्षणकर्ता SUPERVISED BY		
नाम की सूची संख्या INVENTORY NO.	स्वीकृति APPROVED : Dr. N.G. Shrivastava		जारी ISSUED : Dr. S. Bhatnagar		
	REV.NO. 00	Dt. 09.12.2014	निर्माण PREPARED : S.K. Mishra	जारी ISSUED : Dr. S. Bhatnagar	दिनांक DATE : 09.12.2014

स्वीकृत एवं गोपनीय

इस प्रत्येक में दो नई प्रतियां प्रत्येक को उपरोक्त के लिए न भेजना चाहिए।
अन्यथा यह न किये जाने के लिए न भेजना चाहिए।

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SUPERSEDES INVENTORY NO. lkexzh lwph la[k dk	MAGNETIC STIRRER				
1.0 GENERAL: used in the laboratory for stirring of various solutions and chemicals during analysis of some parameters.					
2.0 TECHNICAL SPECIFICATIONS :					
2.1 Magnetic Stirrer should be electrically operated. 2.2 The equipment should be complete with hot plate controlled by an energy regulator. 2.3 It should be capable to stirr 1 liter of solution. 2.4 It should be fitted with a speed regulator, max. speed approx. 1200 RPM. 2.5 Top plate and outer body should be made of stainless steel. 2.6 Capacity – 1 Litre 2.7 The magnetic stirrer should be supplied with Teflon coated magnetic stirring bar. 2.8 Detailed original printed leaflet about Magnetic Stirrer with Hot Plate be supplied giving Model No. 23442-02, Make-HACH.					
3.0 General Terms & Conditions					
3.1 Document: One hard copy of O&M Manual in English language giving complete technical information for operation and maintenance of the equipment shall be supplied.					
3.2 Installation and Commissioning: The supplier shall install & commission the equipment at Site. Supplier should demonstrate the performance of the Equipment and all its accessories to ensure compliance with complete specifications & parameters quoted by them to the satisfaction of BHEL/end user. <i>Cost of installation & Commissioning, if any, should be indicated separately.</i> Failing to comply to the Installation and Commissioning clause, the offer will be rejected straightaway.					
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		PRODUCT PURCHASE SPECIFICATION		Page	1	of	1
SUPERSEDES INVENTORY NO.	ikexzh lwph la{k dks	JAR TEST APPARATUS					
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		2.0 Specifications of Equipment:					
		2.1 Microprocessor Based Floc Test Apparatus with 6 sets of programmable Timer, On Time & Off Time 2.2 Range : 5 to 120 RPM 2.3 Display : 3 Digit LED Display 2.4 Accuracy : ± 1 RPM 2.5 Resolution : 1 RPM 2.6 Power : Mains operated (230V AC $\pm$ 10%, 50Hz) 2.7 White Light Source CFL 11 W with suitable choke 2.8 Motor : Brushless DC motor 2.9 Detailed printed Catalogue must be provided with the offer submitted.					
		3.0 General Terms & Conditions					
		3.1 Document: One hard copy of O&M Manual in English language giving complete technical information for operation and maintenance of the equipment shall be supplied.					
		3.2 Installation and Commissioning: The supplier shall install & commission the equipment at Site. Supplier should demonstrate the performance of the Equipment and all its accessories to ensure compliance with complete specifications & parameters quoted by them to the satisfaction of BHEL/end user. <i>Cost of installation & Commissioning, if any, should be indicated separately.</i> Failing to comply to the Installation and Commissioning clause, the offer will be rejected straightaway.					
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PRODUCT PURCHASE SPECIFICATION

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Portable Water Analysis Kit

1.0 GENERAL: Water Analysis Kit is used for quick analysis of Water Quality parameters at site.

2.0 SPECIFICATION OF EQUIPMENT:

3.0 Parameters	Specifications
3.1 pH	Range : 0-14 pH, Resolution : 0.01pH, Accuracy $\pm 0.01 \pm 1$ digit Sensor : GE & RE/Combination Electrodes Temperature Compensation : Auto & Manual
3.2 Conductivity	MV/ORP Range ± 1999 mV, Resolution: 1 mV, Accuracy : $\pm$ mV, ± 1 digit Sensor : GE & RE/ Combination Electrodes
3.3 TDS	Range : 0 to 100 mS, 5 ranges, , Accuracy : $\pm 1\%$ of FS ± 1 digit Sensor Glass/PVC Conductivity Cell (Acceptable from 0.1 to 5.0 cell constant) Temperature : Compensation : Auto & Manual
3.4 Salinity	Range : 0 ppm to 100 ppm 5 ranges Range : 0 to 40 ppm, Resolution : 0.1 ppm, Accuracy : $\pm 2\%$ of FS ± 1 digit Sensor : Glass/PVC conductivity cell Cell Constant : 0.1 to 5.0) Temperature Compensation: Auto & Manual.

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ISSUED: B S Yadav

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3.5 Dissolved Oxygen	Range : 0 to 20 ppm, Resolution : 0.1 ppm, Accuracy : $\pm 1\%$ of FS ± 1 digit Sensor :Au/Ag Probe Temperature Compensation : Auto & Manual
3.6 Temperature	Range : 0 to 100 °C, Resolution : 0.1°C Accuracy : $\pm 0.5^{\circ}\text{C} \pm 1$ digit Sensor Pt 100
3.7 Colorimeter	Range : ± 2.00 Abs, 0 to 100% T, Concentration : 0 – 1999 ppm, Resolution : 0.001, Abs : 0.1% T Accuracy : ± 0.5 Abs Sensor : Photo Diode Source: Tungsten Lamp Filters : Blue (440 nm) Green (540 nm) Red (660 nm)
3.8 Turbidity	Range : 0 to 100 NTU divided in 3 sub ranges, Accuracy : $\pm 2\%$ of FS; Sensor : Photo Diodes Source : Tungsten Lamp ; General : Digital display Power: 230 V, 50 Hz $\pm$ with internal Battery charger.

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PRODUCT PURCHASE SPECIFICATION		Page	3	of	3						
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