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	PCRI-BOI DEPARTMENT BHARAT HEAVY ELECTRICALS LIMITED HEEP: HARDWAR-249 403 (Uttarakhand) TEL: +91 1334 28 1187	ENQUIRY NO. R/5599/2021/2731V/1 DATE OF ISSUE OF ENQUIRY: 25.04.2022 ENQUIRY DUE DATE: 23.05.2022 (BY 13:45 HRS IST)
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NIT: MATERIAL DETAILS AND INSTRUCTION TO BIDDERS

E-PROCUREMENT: Please note that this tender enquiry has been issued through BHEL's e-procurement portal developed by NIC (<https://eprocurebhel.co.in/>). Hence, PAPER BID or BID THROUGH e-MAIL SHALL NOT BE ENTERTAINED FOR THIS TENDER. Please upload your bid in BHEL's e-procurement portal developed by NIC (<https://eprocurebhel.co.in/>)

1 SCOPE OF ENQUIRY

Sealed Bids are invited from the bidders for the supply of the following items as per requirement mentioned below:

Sl. No.	Material Code & Description	Qty.	Project	Delivery Date
1	D55995230158 UV/VIS SPECTROPHOTOMETER	3 No.	660 MW Bhusawal	30/06/2022
2	D55995242210 ULTRA LOW RANGE UV SPECTROPHOTOMETER (SWAS ANALYSIS LAB)	1 No.		

Note: Evaluation will be done item-wise on the basis of Total Landed cost up to Bhusawal project site. Bidders can quote for single item also.

2 PROJECT INFORMATION

Project Name	1 x 660 MW Bhuswal
Name of End Customer	Maharashtra State Power Gen. Company Ltd.
Custom Duty Status	Project Import (PI) Bidders to note that applicable custom duty on date of Part-1 bid opening will be considered for evaluation purpose.


3 CUSTOMER APPROVAL:

At present, only "HACH / DKK- TOA / DR. LANGE" make are customer approved. Any additional "Reputed Make" item would also be acceptable subject to customer approval. Hence, the final acceptance of the offers shall be subject to vendor approval by End Customer. *BHEL will open the Price Bids of only those vendors who are finally approved by the end customer.*

4 EARNEST MONEY DEPOSITE (EMD)

4.1 Interested vendors must submit their offer along with the following Earnest Money Deposit (EMD) in a separate sealed envelope:

Details	Amount In INR	Amount in Foreign Currency	Type
EMD FOR BIDDER QUOTING FOR ITEM NO. 1 (UV / VIS SPECTROPHOTOMETER)	INR 60,000/- (INR Sixty Thousand Only)	Equivalent Foreign currency	Refundable
EMD FOR BIDDER QUOTING FOR ITEM NO. 2 (ULR SPECTROPHOTOMETER)	INR 40,000/- (INR Fourty Thousand Only)	Equivalent Foreign currency	Refundable
EMD FOR BIDDER QUOTING FOR BOTH ITEM NO. 1&2	INR 1,00,000/- (INR One Lac Only)	Equivalent Foreign currency	Refundable

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4.2 EMD shall not carry any interest.

4.3 Modes of deposit:

The EMD may be accepted only in the following forms:

- (i) Electronic Fund Transfer credited in BHEL account (before tender due date / tender opening date.
- (ii) Banker's cheque / Pay order/ Demand Draft, in favor of BHEL, Haridwar (along with offer)

4.4 The demand drafts shall be in favor of "BHEL Haridwar". E-Payment is also acceptable. For e-payment, RTGS details are as mentioned below:

Bank Details	SWIFT Details of bank	Contact Details of Banker
STATE BANK OF INDIA RANIPUR BRANCH, OPP: BHEL MAIN GATE, SECTOR-5, RANIPUR, HARIDWAR, UTTRAKHAND, INDIA PIN CODE : 249403	SWIFT NO : SBININBB225 CC ACCOUNT NO : 10667995458 IFSC CODE : SBIN0000586	Chief Manager (IBD) Contact No. +91 1334 224201 +91 1334 226125 Fax: +91 1334 226512

4.5 Bidders already registered at BHEL-HEEP Hardwar (i.e. PMD Vendors) for these items are exempted from submission of the EMD.

4.6 MSE Suppliers/Central / State – PSUs / Government departments are exempted from submission of the EMD. For availing MSE benefits, please refer Clause No. 23 of GSTC (For Indian Bidders).

4.7 Bids not accompanied with requisite EMD or bids accompanied with EMD of inadequate value shall be liable for rejection, wherever exemption is not allowed.

4.8 The bidder whose bid is technically not accepted will be informed & EMD wherever submitted shall be refunded after the finalization of the contract. EMD shall be forfeited in the event of bidder opting out after tender opening (PART-I).

5 PRE-QUALIFICATION REQUIREMENT (PQR)

The Pre-Qualification Requirements have been compiled and placed at **ANNEXURE-1**. All the bidders should ensure submission of complete details and documents as called for in the same. The offers submitted by the bidders would be scrutinized with respect to Pre-Qualification Requirements first.

6 SUBMISSION OF OFFER

Tenders are to be uploaded on BHEL e-procurement portal developed by NIC (<https://eprocurebhel.co.in/>) in Two Parts and Part-I (Techno-Commercial Bid along with PQR, as detailed below) will be opened first. The offers are to be uploaded on or before the last date of submission of offer, as detailed on BHEL e-procurement portal for the tender.

in case of any difficulty faced on BHEL's e-Procurement portal, queries may be addressed to 0120-4001002, 0120-4001005 and 0120- 6277787 ; email: support-eproc@nic.in. These details are also available on 'Contact Us' page of the portal.

COVER-1: Proof of payment of EMD as applicable, Pre-Qualification Requirements: PQR & Technical Documents.

COVER-1 will be opened on Due Date and time specified in the Enquiry, or extension thereof. Incomplete offers are liable to be rejected.

6.1 **COVER-2 (PRICE BID)** should be strictly submitted in BOQ xls. Format uploaded with enquiry. Price bid of only techno-commercial acceptable bidders will be opened. **Techno-Commercial offer of only those**

	<p>PCRI-BOI DEPARTMENT BHARAT HEAVY ELECTRICALS LIMITED HEEP: HARDWAR-249 403 (Uttarakhand) TEL: +91 1334 28 1187</p>	<p>ENQUIRY NO. R/5599/2021/2731V/1 DATE OF ISSUE OF ENQUIRY: 25.04.2022 ENQUIRY DUE DATE: 23.05.2022 (BY 13:45 HRS IST)</p>
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bidders shall be evaluated who meet the Pre-Qualification Requirements mentioned in our Enquiry and who have submitted the EMD as stipulated in clause 4 above.

6.2 All correspondence thereof, shall be addressed to the following persons:

<p>Mr. Shashi Pal Designation: A. E. (PCRI-BOI) Pollution Control Research Institute HEEP, BHEL, Haridwar- 249403 Uttarakhand, India Email ID: palsh@bhel.in Tel: +91 1334 28 1941</p>	<p>Mr. Sarvesh Kumar Designation: Dy. Manager (PCRI-BOI) Pollution Control Research Institute HEEP, BHEL, Haridwar- 249403 Uttarakhand, India Email ID: psk@bhel.in Tel: +91 1334 28 1187</p>
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6.3 As per directives of CENTRAL VIGILANCE COMMISSION, GOVERNMENT OF INDIA, one agent cannot represent two or more suppliers or quote on their behalf in a particular tender. If so found at any stage, BHEL Hardwar is likely to cancel Enquiries / POs to such suppliers. Further, such Indian Agent is likely to be de-listed (Black listed for business from BHEL).

6.4 Vendors operating from BHEL quarters, unauthorized colonies on BHEL Land and Dharamshalas/ Hotels shall not be considered, hence such vendors need not apply.

7 PUBLIC PROCUREMENT / MAKE IN INDIA (GOVT-NOTIFICATION)

This tender enquiry shall be governed by notification no. P-45021/2/2017-PP (BE-II) dated 04.06.2020 of government of INDIA and subsequent circulars issued afterwards. Accordingly, the minimum local content, the margin of purchase preference and the procedure for preference to make in INDIA shall be adhered.

The margin of purchase preference for 'Class-I local Supplier' shall be 20%.

- 'Class-I local Supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 50%, as defined under this order.
- 'Class-II local Supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%, as defined under this order.
- 'Non- local Supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content less than or equal to 20%, as defined under this order.


Note: Class-I local Supplier, Class-II local Supplier and Non- local Suppliers are allowed to participate in this NIT. However, Purchase Preference will be given to Class-I local Supplier only in following manner:

a. The quantity is divisible for Item No. 1 (UV VIS SPECTROPHOTOMETER), the 'Class-I local supplier' will get Purchase Preference over 'Class-II local supplier' as well as Non-local supplier' for 2 Nos. quantity (out of total 3 No. quantity).

b. The quantity is not divisible for Item No. 2 (ULTRA LOW RANGE UV SPECTROPHOTOMETER), the 'Class-I local supplier' shall get Purchase Preference over 'Class-II local supplier' as well as Non-local supplier' for 100% quantity (1 No.).

Following procedure will be followed for Purchase Preference:

I. Among all qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-I local supplier', the contract for full quantity will be awarded to L1.

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II. If L1 bid is not a 'Class-I local supplier', the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price subject to the Class-I local supplier's quoted price falling within the margin of Purchase Preference, and contract shall be awarded to such Class-I local supplier (2 Nos. for Item 1 & 1 No. for Item 2) subject to matching the L1 price.

III. In case such lowest eligible 'Class-I local supplier' fails to match the L1 price, the 'Class-I local supplier' with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on, and contract shall be awarded accordingly. In case none of the 'Class-I local supplier' within the margin of purchase preference matches the L1 price, the contract may be awarded to the L1 bidder.

b. 'Class-II local supplier' will not get Purchase Preference.

Also refer GISTC enclosed with the enquiry for further details.

8 DEALING WITH BANNED SUPPLIERS/ CONTRACTORS IN BHEL

Offers of the bidders, who are on the banned list, as also the offers of the bidders who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL website hwr.bhel.com.

9 PRE-BID MEETING:

Pre-Bid clarifications & deviations (if any) should be sought within 10 days of issue of the enquiry. Bidders to compile all clarifications, if any, preferably in single communication. The clarifications would be provided within 3 days of receipt of queries. Bidders may also have across the table discussions for seeking pre-bid clarifications (if required).

10 IMPORTANT NOTE

NIT: MATERIAL DETAILS AND INSTRUCTION TO BIDDERS are to be read along with **SPECIAL TERMS & CONDITIONS OF ENQUIRY (as applicable for Foreign or Indian Bidders)** and **GISTC (as applicable for Foreign or Indian Bidders)**. A signed & stamped copy of these documents as a token of acceptance is to be submitted along with the offer. In the event of contradiction of terms and conditions mentioned, the order of preference shall be NIT: MATERIAL DETAILS AND INSTRUCTION TO BIDDERS followed by SPECIAL TERMS & CONDITIONS OF ENQUIRY followed by GISTC (General Instructions and Standard Terms & Conditions against Tender Enquiry).

Kindly ensure the timely submission of your offer (by 13:45 Hrs IST on the due date) and note that Late Offers shall not be entertained under any circumstances.

11 LIST OF ENCLOSURES:

- i. NIT: Material Details and Instruction to Bidders
- ii. Pre-Qualification Requirement (**Annexure-1**)
- iii. Technical Specification (**Annexure-2**)
- iv. Special Terms & Conditions for Two Part Tender for Foreign Bidders (**Annexure-3**)
- v. Special Terms & Conditions for Two Part Tender for Indian Bidders (**Annexure-4**)
- vi. GISTC (For Foreign Bidders)
- vii. GISTC (for Indigenous Bidders)
- viii. PBG format and List of BHEL consortium Bank
- ix. Self-Declaration certificate for Make in India
- x. BOQ (Price Format)


For and on behalf of BHEL, Hardwar


Dy. Manager (PCRI-BOI)


Annexure-1


Pre-Qualification Requirements (PQR)


1. The bidder should have an annual turnover (T.O.) of minimum Rs. 12.0 Lakhs/year in last 03 (Three) years (2018-19, 2019-20 & 2020-21). The self-attested copies of balance sheet and Profit and Loss account showing the turn over (T.O.) Value or any other acceptable document should be submitted as proof.
2. The bidder/OEM should have supplied the offered item in last 03 years. The self-attested copies of Purchase Orders, placed on them by customers & proof of supply should be attached.
3. In case of Agent/Reseller/Traders, offering equipment from OEM, tender specific authorization letter from the manufacturer, clearly indicating contact details like Name, E-mail & address of manufacturer should be submitted.

प्रमाणित एवं दिनांक SIGN & DATE		उत्पाद क्रय विनिर्देश PRODUCT PURCHASE SPECIFICATION				
			पृष्ठ	4	का	2
सापेक्षी एवं दिनांक को-ऑपरेशन करार #	1. The package includes the instruments for testing Boiler and DM water using instrument Spectrophotometer with ULR Silica Reagents and Pour-Thru cell to analyze various other parameters accurately at ppb levels other than Silica. This package shall include the following instruments, accessories for testing the quality of boiler water/DM water /Condensate.					
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of Bharat Heavy Electricals Limited. It is to be used only for the purpose for which it is intended and is not to be disseminated to the interest of the company.	A. Spectrophotometer: Spectrophotometer is an innovative water analysis instrument for water, wastewater and boiler and cooling water. It is a Water quality instrument with all best features of a scanning spectrophotometer more than 240 Analytical methods & Chem istries. Touch screen computer interface gives fast control over instrument operation and easily navigate to the test method. Advanced concentric Polychromatic optics has no moving parts to wear out or to be replaced and provides significantly reduced stray light. Results modes Transmittance, Absorbance, Concentration, optional wavelength scan and time course graphs/kinetics. Download stored information into computer as a standard report format or printer through the RS-232 connection. With a battery pack, this system is made portable to carry the instrument to on site testing. Long path cell holder and 100 mm quartz cell are required to be included in the package.					
सापेक्षी एवं दिनांक को-ऑपरेशन करार #	B. Pour-Thru Cell: The Pour-Thru Cell is an apparatus used with spectrophotometers for analysis of Ultra Low ranges water samples. It improves accuracy and makes measuring more convenient, especially when the analyte is present at low levels. Using the Pour-Thru Cell avoids any error that might result from optional differences between sample cells.					
सापेक्षी एवं दिनांक को-ऑपरेशन करार #	C. ULTRA Low Range Testing Reagents: Prepared reagents for various parameters as below: Ultra low range Silica reagent set for 100 tests Colloidal Silica LR (0.02 to 1.60 mg/L) for 100 tests Colloidal Silica HR (5.0 to 100.0 mg/L) for 100 tests Copper (2 to 120 µg/L), Iron (0.009 to 1.400 mg/L), TOC (0.3 to 20.0 mg/L), Ammonia (0.01 to 0.50 mg/L), Hardness (ULR 1 to 1,000 µg/L), Hydrazine (4 to 600 µg/L), chlorides (10 to 8000mg/L). Dissolved Oxygen (LR 6 to 800 µg/L)					
दिनांक DATE						

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Page	3	of	4								
SUPERSEDES INVENTORY NO.	D. Precision Pipette: Micro Pipettes 100 µL - 1000 µL (at least 1 no. of each type) are required for the complete package.										
I प्रकृत/सं. दि. का. के अधिकाधिक मूल्य है	E. Special Lab ware: Beakers 500 ml glass, measuring cylinders 500ml glass, reagent bottle 500ml glass etc. (at least 02 Nos. each type) are required for the complete package.										
COPYRIGHT AND CONFIDENTIAL <small>The information in this document is the property of Bharat Heavy Electricals Limited. It is to be used only for the purpose for which it is provided and its disclosure to any other person without the written consent of the company is prohibited.</small>	GENERAL TERMS & CONDITIONS:										
प्रकृत/सं. दि. का. के अधिकाधिक मूल्य है	<ol style="list-style-type: none"> Bidder should quote for all the items mentioned in our enquiry else there offer will be liable for rejection. All the items in the enquiry are proposed to be procured from one source/bidder, hence evaluation be carried out accordingly. Bidder to furnish BOM and catalogue of the offered items during bid submission. In case of Agent/Reseller/Traders, offering equipment from OEM, tender specific authorization letter from the manufacturer, clearly indicating contact details like Name, E-mail & address of manufacturer should be submitted. Apart from customer specified vendor for each individual item (mentioned along with the enquiry), additional vendors offering items of "Reputed Make" are also acceptable subject to customer approval. The vendor should fulfill anyone of the following condition; <ol style="list-style-type: none"> "Vendor have supplied the item for at least one thermal power plant of 500 MW or above capacity" OR "Offered item has completed one year of commercial operation and the equipment supplied should have completed the contractual guarantee period" OR "Vendor have supplied the same equipment as required against our enquiry to any power plant." Vendor to provide documentary evidence like PO copy, end user certificate etc. in support of fulfilling either of the above criteria's and catalog of the offered item, item user list for customer review. 										
प्रकृत/सं. दि. का. SIGN & DATE	<ol style="list-style-type: none"> Document: 2 copies of O&M manual in English language giving complete technical information for operation and maintenance of the equipment shall be supplied with the equipment 										

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SUPERSEDES INVENTORY NO.	<p>7. Installation and Commissioning: The supplier shall Install & Commission the equipment at required sites. 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. Any accessories, standards, chemicals and consumables required during demonstration, installation and commissioning of equipment at site would be provided by the bidder.</p> <p>8. Guarantee / Warranty: The equipment shall be guaranteed / warranted for satisfactory performance for a period of 18 months from the date of installation & commissioning or 24 months from the date of dispatch, whichever is earlier.</p> <p>9. Packing & Dispatch: The equipment / accessories shall be packed in a suitable water proof and vibration proof packing boxes capable of bearing air and road transit hazards.</p> <p>10. "PCRI HWR" should be written in bold letters on all four sides of the box. Packing box shall be properly identified and marked with BHEL's (India) Purchase Order Number, item description etc. For fragile items, material should be properly packed to avoid breakage during transport and with labelling "FRAGILE-HANDLE WITH CARE" on the packing box.</p>										
भारती को संसाधन को अधिष्ठापित करता है											
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स्वामित्व का संरक्षण <small>यह प्रस्ताव कि भी कोई व्यक्ति भारत भारी बिजली के बिना बिना अनुमति के इस प्रस्ताव को प्रकट करे या इस प्रस्ताव को प्रकट करे, तो वह भारतीय विद्युत प्राधिकरण के विरुद्ध दायर कानून के अंतर्गत कार्रवाई के लिए उत्तरदायी होगा।</small>											
प्रकृत/सं.दि.दि. SIGN & DATE											

प्रमाणित की तिथि SIGN & DATE		उत्पाद क्रय विनिर्देश PRODUCT PURCHASE SPECIFICATION	पृष्ठ Page	3 1	का of	1 3
जारी की तारीख की प्रामाणिकता <small>COPYRIGHT AND CONFIDENTIAL The information on this document is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in any way. Acknowledged to the 'Inventor' of the company.</small>	<p style="text-align: center;">UV-VISIBLE SPECTROPHOTOMETER</p> <p>1.0 General: (UV-VIS Spectrophotometer : 03 Nos.)</p> <p>1.1 The Spectrophotometer shall be a multi-wavelength (up to 4 wavelengths), UV-Visible, Double beam designed for water quality analysis in the laboratory. Instruments shall be pre calibrated for at least 200 pre-programmed various water analysis methods. Instrument shall have a large graphical & touch-screen liquid crystal display for easy reading and operation.</p> <p>1.2 Wavelength range of the instrument shall be from 190-1100 nm with wavelength accuracy of ± 1nm and wavelength resolution of 0.1 nm. Bandwidth of the Spectrophotometer shall be 2 nm.</p> <p>1.3 Meter shall be able to measure metallic and non-metallic contamination in the water like Alachlor, Aluminium, Arsenic, Atrazine, Barium, Benzotriazole, Boron, Bromine, Cadmium, Chloramines, Chloride, Chlorine, Chlorine Dioxide, Chromium, Cobalt, COD, Colour, Copper, Cyanide, Dissolved Oxygen (both in ppm & ppb level), Fluoride, Formaldehyde, Hardness, Hydrazine, Iodine, Iron, Lead, Manganese, Mercury, Metachlor, Molybdenum, Molybdnate, Nickel, Nitrogen (as Nitrate, Nitrite, Ammonia, Total Nitrogen), Total Kjeldahl Nitrogen, Oxygen Scavengers, Ozone, Polychlorinated biphenyls, Phenols, Phosphorous, Potassium, Quarterny Ammonium Compounds, Selenium, Silica, Silver, Sulphides, Sulphates, Suspended solids, Surfactants, Tannin and Lignin, TOC, Trihalomethanes, TPH, Toxicity, Volatile acids and Zinc.</p> <p>1.4 Meter shall select the wavelength automatically depending upon the selection of the test method. Readout modes shall be %T, Abs and Concentration and shall have on-board Scanning, Single wavelength, Multiwavelength, Time course analysis software.</p> <p>1.5 Instrument shall be capable of scan overlays for reference and sample scan. Meter shall have an in-built bar-code reading facility for easy method selection.</p> <p>1.6 Meter shall include a single multiple cell adapter to accommodate any one of 10 mm, 20 mm, 50 mm, 1 inch round and 1 inch square sample cells without need for changing the cell holders for the above types of sample cells.</p> <p>1.7 Instrument shall be equipped with data storage capacity of 2000 data points (with date, time, results, sample ID, operator ID) and 50 user defined calibrations. New methods and chemistries shall be easily updated via a USB memory stick. without need for changing the cell holders for the above types of sample cells.</p>					
नाम LTE						

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SUPERSEDES INVENTORY NO.	2.0 Specification :										
इसकी प्रतिलिपि अधिकृत करनी है	(a) Wavelength range : 190 – 1100 nm (b) Wavelength Accuracy : ± 1 nm (c) Wavelength Resolution : 0.1 nm (d) Wavelength Calibration : Automatic at startup (e) Bandwidth : 2 nm (f) Photometric Range : - 3.0 to + 3.0 Abs (g) Photometric Accuracy : 0.005 Abs up to 0.5A; 1% above 0.5A (h) Photometric Linearity : < 0.5% @ 2 Abs (i) Stray Light : > 3.3 abs at 220 nm (j) Data storage : 2000 points with date, time, result, operator name, sample id. (k) Interface : USB port for PC and memory/flash drives (l) User Programs : Provision for 50 methods storage										
COPYRIGHT AND CONFIDENTIAL <small>This information is confidential and proprietary. It is not to be disclosed or distributed outside the company without the prior written consent of the company.</small>	2.1 Accessories: Meter shall include 1-inch square matched glass sample cell pair, 10 mm & 20mm matched quartz sample cell, 1 inch round sample cell, single multiple-cell adapter, power cable, operation manual and CD-ROM procedure manual.										
रजिस्ट्रार को सूचित करना आवश्यक है। <small>इस सूचना को सूचित करने के लिए, कृपया हमें सूचित करें। इस सूचना को सूचित करने के लिए, कृपया हमें सूचित करें।</small>	3.0 Standard Solution kit for measurement of following parameters: (Only 01 Set with 03 Spectrophotometers): Copper, Fluoride, Hydrazine, Iron, Manganese, Molybdenum, Silica and Sulphides. <i>Any accessories, standards, Reagents, chemicals and consumables required during demonstration, installation and commissioning of equipment at site would be provided by the bidder.</i> <i>Detailed printed Catalogue must be provided with the offer.</i>										
प्रोत्साहित करने के लिए SIGN & DATE											