



An ISO 9001
Company

Bharat Heavy Electricals Limited
(High Pressure Boiler Plant)
Tiruchirappalli – 620014, TAMIL NADU, INDIA
CAPITAL EQUIPMENT / MATERIALS MANAGEMENT

ENQUIRY		Phone: +91 431 257 5443/ 7297 Email : smams@bhel.in, hari.r@bhel.in Web : www.bhel.com	
NOTICE INVITING TENDER			
TWO PART BID	Enquiry Number:	Enquiry Date:	Due date for submission of quotation:
Tender to be submitted in two Parts	2632100007	30.01.2021	24.02.2021
You are requested to quote the Enquiry number date and due date in all your correspondence. This is only a request for quotation and not an order. Please note that under any circumstances both delayed offer and late offers will not be considered. Hence vendors are requested to ensure that the offer is reaching physically our office before 14:00 hrs on the Date of tender opening.			
Item	Description		Quantity
10	Dew Point Meter as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or https://eprocure.gov.in/epublish/app)		1 No.
Important points to be taken care during submission of offer 1. Delivery terms shall be FOR, BHEL, Stores, High Pressure Boiler Plant, Tiruchirappalli - 620014. 2. Compliance Form TRY/ IND/ 04A to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation. 3. Delivery period required is One Month from the date of Purchase Order. 4. Erection and commissioning activities shall be done by the supplier, at BHEL, Trichy works. 5. Time period required for Erection and Commissioning activities shall be 2 weeks from the date of intimation by BHEL 6. Procurement of the item through this NIT will be as per Public Procurement (Preference to Make in India), Order 2017 dated 04.06.2020 by DPIIT (DPIIT Order No. P-45021/2/2017-PP (BE-II) dated 04.06.2020), to encourage 'Make in India ' and promote manufacturing and production of goods and services in India. 7. All updates, amendments, corrigenda, etc., (if any), for each tender will be posted only on the above websites from time to time, as and when required, until each tender is opened. There will be no publication of such updates, amendments, corrigenda, etc., through newspapers or any other media. BHEL's General guidelines / instructions (refer MM/CE/GENL/001- NO EMD), compliance form and technical specification can be downloaded from BHEL web site http://www.bhel.com or from https://eprocure.gov.in/epublish/app under Enquiry reference "2632100007".			
Tenders should reach us before 14:00 hours on the due date. Tenders will be opened at 14:30 hours on the due date Tenders would be opened in presence of the tenderers who have submitted their offers and who may like to be present		Yours faithfully, For BHARAT HEAVY ELECTRICALS LIMITED  S. MUTHUSUBRAMANIAN Manager Capital Equipment/MM BHEL, TRICHY - 620 014. Manager / MM/ Capital Equipment	

Part-A

PRE – QUALIFYING CRITERIA FOR PORTABLE MOISTURE / DEW POINT ANALYSER (QTY-1 NO.)

PART - A: Pre - Qualifying Criteria

SECTION – 1: Qualifying Criteria

The Bidder has to compulsorily meet the following requirements to get qualified, for evaluation of the technical offer.

S. NO.	PARTICULARS	BIDDER's RESPONSE
1.1	Only those Bidders / OEMs, who have supplied and commissioned at least 2 nos of PORTABLE MOISTURE / DEW POINT ANALYSER are eligible to quote	
1.2	Bidder has to submit at least ONE Performance Certificate from their customer, for satisfactory performance of the equipment specified in 1.1. For obtaining the Performance certificate, a suggestive format is provided in Annexure-A .	
1.3	BHEL reserves the right to verify the information provided by the Bidder. In case the information provided is found to be false/ incorrect, the offer is liable for rejection.	

Section 2: Information to be provided by the bidder:-

PART – A: Pre-Qualifying Criteria for Portable Moisture/Dew point analyser– 1 No.

S. NO.	PARTICULARS	BIDDER's RESPONSE
2.1	The BIDDER to furnish Reference List of Customers with Complete contact details where similar machine is supplied.	
2.2	Details of similar Equipment supplied to BHEL unit, if any.(Year of commissioning, Application, Type)	
2.3	Details on SERVICE-AFTER-SALES Set-Up in India including the Address of Agents / Service Centers in India.	
2.4	Any Additional Data to supplement the manufacturing capability of the BIDDER for the subject equipment.	

Section 3: The BIDDER to note:

S. NO.	PARTICULARS	BIDDER's RESPONSE
3.1	The BIDDER / VENDOR shall submit the offer in TWO PARTS. 1. Technical Offer [with PART A & PART B] & commercial offer 2. Price Bid.	
3.2	The Bidder's offer against each clause in PART A & B of the offer should be filled by the BIDDER compulsorily with complete details.	
3.3	The BIDDER shall assure a continuous support for Spares and Service for five Years, from the date of commissioning of the equipment at BHEL Works.	
3.4	The Technical Offer shall be supported by Product Catalogue and Data Sheets in original and complete technical details / literature on the quoted model of equipment.	
3.5	The Commercial Offer (given with the Technical Offer) shall contain the Scope of Supply and the Un-Priced Part of the Price-Bid, for confirmation.	

ANNEXURE-A

Suggestive Format of Performance Certificate:

The performance certificate to be produced on Customer's Letter Head.

PERFORMANCE CERTIFICATE

1. Supplier of the Equipment/Machine :
2. Make & Model of the Equipment :
3. Month & Year of Commissioning :
4. Application for which Machine is used :
5. Machine Details :
 - a) Type
 - b) Max. Pressure (bar)
6. Performance of the Machine : Satisfactory / Not Satisfactory
(Strike off whichever is not applicable)
7. Any other Remarks :

Date :

Signature & Seal of the Authority
Issuing the Performance Certificate

PART – B: Technical Specification for Portable Moisture/Dew point analyser– 1 No.

Doc.No: ATP/018/Rev.No: 00

PART-B
TECHNICAL SPECIFICATION FOR PORTABLE MOISTURE / DEW POINT ANALYSER (QTY-1 NO.)

PART - B: Technical Specification

Note: -

1. The Column “**Vendor’s offer with Technical details & Remarks**” of this format shall be filled in by the Vendor and submitted along with the offer. Inadequate / incomplete, ambiguous or unsustainable information against any of the clauses of the specifications / requirements shall be treated as non-compliance.
2. The offer and all documents enclosed with offer should be in **English language** only.

Name & Address of the Supplier:	Name & Address of the Indian agent:
Telephone no.:	Telephone no.:
Fax no.:	Fax no.:
e-mail:	e-mail:

SCOPE: -

This technical specification covers the supply and Commissioning of Moisture/Dew point analyser & spares.
Bidder shall be complying with the technical specification as given below.

PART – B: Technical Specification for Portable Moisture/Dew point analyser– 1 No.

S No	BHEL Specification	Bidder's offer with technical details
1.	Purpose & process:	
1.1	Automatic dew point meter: To check the moisture/dew point of the gas at a defined pressure and flow rate.	
1.2	Gas used is Nitrogen or Argon	
1.3	Should be able to check the moisture/dew point in dry or wet conditions	
1.4	Reading should be displayed in °C & PPM	
2.0	Machine Features required: - Display: Analogue - 120mm Taut Band indicating meter showing dew point and ppm (full range covered in single span) - Type: Portable type and easy to operate & handle. Shall be battery operated with capacitance sensor & automatic calibration system - Overall range: -80°C to 0°C; 0 – 6000PPM (V) - Calibration: Unique automatic calibration feature (Autocal). By exposing the sensor to room air to set the calibration. - Maintenance: Should be easy to dismantle and maintenance - Sensor type: It shall be self-contained in dry down chamber, High capacitance Al Oxide sensor preferably. SS filter for sensor protection. - Accuracy of reading: +/-3°C - Repeatability: Better than +/-0.5°C	

PART – B: Technical Specification for Portable Moisture/Dew point analyser– 1 No.

S No	BHEL Specification		Bidder's offer with technical details
	- Indication: Alarm to indicate measured dew point (if applicable) - Power supply: Rechargeable 12V Li ion battery / 230V AC or 9V DC battery (six C type). Rechargeable battery charger – 1 No. - Sample flow rate required: Maximum 20LPM - Response time: <20Sec - Max. Pressure withstanding capacity: 10kg/cm². - Resolution: 0.1 °C dew point or 0.1 ppm(v) - Safety marking: As applicable. - Weather proof enclosures: IP66/NEMA 4X. Bidder to confirm		
2.1	To be supplied with calibration certificate traceable to National & International humidity standards.		
3.0	Spares: Vendor to supply all the below mentioned items as spares.		
3.1	Flow indicator with regulating valves	2 sets	
3.2	Filter	2 sets	
3.3	Pressure regulator	2 sets	
3.4	Flexible hose (PTFE) from cylinder to analyser	10m	
3.5	Adaptors to suit with regulator outlet and analyser inlet sides	3 sets	
3.5	Audible alarms (if applicable)	1 no	
3.6	Sensor	1 no	

PART – B: Technical Specification for Portable Moisture/Dew point analyser– 1 No.

S No	BHEL Specification		Bidder's offer with technical details
3.7	Moisture equivalent, ever-ready carrying case, screw driver for calibration adjustment & service kit (desiccant, head seal kit, etc)	1 no	
4.0	Any other essential spare recommended by the supplier: Addition to above mentioned spares, vendor to provide the list of other spares which are not included here and are essential for trouble free working of system for minimum 2 years.		
5.0	Documentation		
5.1	O&M Manuals to be Supplied with Equipment (Hard Copy in booklet form)	Separate Operational Instructions & Maintenance Manual for Moisture/Dew point analyser	
5.2	Contents of the Manual	The O & M Manual shall contain details like: • Operation Instructions & Maintenance manual for the analyser • Electrical Schematic Drawings (P&ID) • Bill of Materials • Printed Circuit Board Schematics (if any) • List of Spare Parts (Both Electrical & Mechanical) with Make, Specifications/Rating • Trouble Shooting Details	
5.3	No of Copies	Hard Copies in Original - 3 Sets Soft Copy in CD - 1 No	
6.0	Commissioning	The supplier shall depute his representative for commissioning of	

PART – B: Technical Specification for Portable Moisture/Dew point analyser– 1 No.

S No	BHEL Specification		Bidder's offer with technical details
		the equipment.	
7.0	Training	During commissioning of the Equipment at BHEL, training on operation and maintenance of the equipment to be provided	
8.0	Warranty	Warranty period of 12 months from the date of commissioning at BHEL works	