

Domain :	bhel.abcprocure.com		
Parent department:	BHEL Trichy		
Unit name	: BHEL Trichy		
Purchase group	: FB M&S Spares Cap	RFQ/NIT/Enquiry Officer	: SURAJKUMAR
Event ID	: 30252	RFQ/NIT/Enquiry no.	: 2661900202
Enquiry Date	: 20/06/2019 05:30:00		
Tender Description	: Thermocouple dia 6 mm as per attached drawing BHE:M&S:INST:001, Thermocouple bare wire element and Compensating Grade cable for various furnaces required at BHEL TRICHY		
Terms & Conditions	: Special note: Bidder need to a.compulsorily fulfill pre-qualification criteria(PQC) criteria b. comply all points to consider valid offer to qualify for the tender General Note: - 1. POINT-BY-POINT CONFIRMATION TO BHEL'S SPECIFICATIONS, COMMERCIAL TERMS & CONDITIONS ARE TO BE PROVIDED BY THE VENDORS IN "ANNEXURE II. 2. PLEASE ENSURE THAT ALL TERMS & CONDITIONS SHOULD BE INDICATED IN THE TECHNO-COMMERCIAL BID IN EPS POSITIVELY. 3. VALIDITY OF THE OFFER SHOULD NOT BE LESS THAN 120 DAYS. 4. THE BIDDER SHALL MEET PRE-QUALIFICATION CRITERIA Kindly submit your offer in two part bid system (Technical bid + Price bid) in the E-Procurement portal only i.e. Part (I).Techno-Commercial Bid containing point wise confirmation of Technical details, specifications, drawings if any, Prequalification criteria, commercial terms and conditions; part-II - price bid LIST OF ATTACHMENTS: 1.PRE QUALIFICATION CRITERIA. 2. ANNEXURE-II TERMS AND CONDITIONS OF THE ENQUIRY. (TWO PART-BID		
Product / service / work keywords	: Thermocouple,		
No. of Bid Parts	: Multiple	Envelope	: Techno-commercial bid , Price bid
Type of contract	: Goods	Project duration / delivery or completion period	: 20.09.19
Download document	: Before login	RFQ floated under the policy	: PP-PURCHASE POLICY
Estimated Category	: C	No. of items already attached	: 5
Delivery/Location At	: BHEL STORES TRICHY.	Delivery Date	: 20/09/2019 05:30:00
Inspection by Agency	: BHEL OFFICIAL	Inspection Location	: BHEL TRICHY
Min. bid required	: 01		

Bid submission configuration			
Bid evaluation	:	Item wise	Bidding access : Open Tender
Base currency	:	INR	Bidding type : NCB/Indigenous
Key configuration			
Pre-bid meeting	:	Don't allow	
Dates configuration			
Document downloading start date	:	28/06/2019 11:16:00	Document downloading end date : 08/07/2019 13:00:00
Bid submission start date	:	28/06/2019 11:16:00	Bid submission end date : 08/07/2019 13:00:00
Bid opening date	:	08/07/2019 13:01:00	
Document / EMD / Security fee detail			
Document fees	:	Not required	EMD : Not required
Bidding forms			
price bid			
PRICE BID 1			
MATERIAL DESCRIPTION		QTY	UNIT
MI Thermocouple Dia 6MM length 3Mtr Technical Specification: . 1 Material : Mineral Insulated Thermocouple 2 Type : K (Cr/Al) Simplex 3 Sheath diameter: 6 MM 4 Length : 3 meter 5 Insulation: Mineral insulated (MgO) 6 Junction : Un-Grounded 7 Sheath material: Inconel 600 (Preferable) 8 Termination (Extension cable): One feet flying lead 1.5 Sq.mm PVC multicore wires. Sheath end terminal (cold junction side) shall be protected by seal springs to prevent damages to extension cables (as per attached BHEL drawing no. BHE:M&S:INST:001). 9 Ref. Standard: IS 2054 or equivalent IEC/EN/ASTM standards 10 Accuracy: ± 3°C up to 400°C and ± 0.75% of the reading up to 1200°C 11 Temperature: Temperature withstand up to 1200°C. 12 Inspection: Inspection will be carried out at BHEL-Trichy works. 13 Submission of Drawing at enquiry stage: Complete Thermocouple drawing is to be send along with the tender quotation to evaluate the offer. . NOTE: 1. Calibration certificate to be produced along with supply of materials 2. Required calibration points: 300°C, 500°C, 700°C, 900°C & 1200°C 3. All supplied Thermocouples will be checked for accuracy and repeatability at BHEL-Trichy works. Acceptance of the thermocouples shall be given only when required criteria is met. MI Thermocouple Dia 6MM length 3Mtr		15.00	NO
MI THERMOCOUPLE DIA6MM LENGTH4MTR Technical Specification: . 1 Material : Mineral Insulated Thermocouple 2 Type : K (Cr/Al) Simplex 3 Sheath diameter: 6 MM 4 Length : 4 meter 5 Insulation: Mineral insulated (MgO) 6 Junction : Grounded 7 Sheath material: Inconel 600 (Preferable) 8 Termination (Extension cable): One feet flying lead 1.5 Sq.mm PVC multicore wires. Sheath end terminal (cold junction side) shall be protected by seal springs to prevent damages to extension cables (as per attached BHEL drawing no. BHE:M&S:INST:001). 9 Ref. Standard: IS 2054 or equivalent IEC/EN/ASTM standards 10 Accuracy: ± 3°C up to 400°C and ± 0.75% of the reading up to 1200°C 11 Temperature: Temperature withstand up to 1200°C. 12 Inspection: Inspection will be carried out at BHEL-Trichy works. 13 Submission of Drawing at enquiry stage: Complete Thermocouple drawing is to be send along with the tender quotation to evaluate the offer. . NOTE: 1. Calibration certificate to be produced along with supply of materials 2. Required calibration points: 300°C, 500°C, 700°C, 900°C & 1200°C 3. All supplied Thermocouples will be checked for accuracy and repeatability at BHEL-Trichy works. Acceptance of the thermocouples shall be given only when required criteria is met. MI THERMOCOUPLE DIA6MM LENGTH4MTR		50.00	NO
MI THERMOCOUPLE DIA 6MM LENGTH 5MTR Technical Specification: . 1 Material : Mineral Insulated Thermocouple 2 Type : K (Cr/Al) Simplex 3 Sheath diameter: 6 MM 4 Length : 5 meter 5 Insulation: Mineral insulated (MgO) 6 Junction : Grounded 7 Sheath material: Inconel 600 (Preferable) 8 Termination		40.00	NO

(Extension cable): One feet flying lead 1.5 Sq.mm PVC multicore wires. Sheath end terminal (cold junction side) shall be protected by seal springs to prevent damages to extension cables (as per attached BHEL drawing no. BHE:M&S:INST:001). 9 Ref. Standard: IS 2054 or equivalent IEC/EN/ASTM standards 10 Accuracy: $\pm 3^{\circ}\text{C}$ up to 400°C and $\pm 0.75\%$ of the reading up to 1200°C 11 Temperature: Temperature withstand up to 1200°C. 12 Inspection: Inspection will be carried out at BHEL-Trichy works. 13 Submission of Drawing at enquiry stage: Complete Thermocouple drawing is to be send along with the tender quotation to evaluate the offer. . NOTE: 1. Calibration certificate to be produced along with supply of materials 2. Required calibration points: 300°C, 500°C, 700°C, 900°C & 1200°C 3. All supplied Thermocouples will be checked for accuracy and repeatability at BHEL-Trichy works. Acceptance of the thermocouples shall be given only when required criteria is met. MI THERMOCOUPLE DIA 6MM LENGTH 5MTR		
Thermocouple bare wire element A. Detailed Technical Specification: 1. Material: k- type chromel / alumel, thermocouple element in double run. 2. Size : 12 SWG 3. Ref. std.: IS 2054-1962. 4. Accuracy: $\pm 0.75\%$ 5. Weight/meter: vendor to specify 6. Temp should be withstanding up to 1200°C. 7. The materials should have good mechanical strength. 8. Required calibration points 300°C, 500°C, 700°C, 900°C & 1200°C. B. Inspection and Testing: 1. Inspection shall be completed after receiving the material at BHEL trichy works as per the above section - A. [Detailed Technical Specification]. 2. Calibration certificate from National / International accredited labs should be provided along with the materials. The certificates should have the customer name as "BHEL, M&S department/Trichy-14". 3. Material composition report should be produced along with the materials. Thermocouple bare wire element	100.00	M
Compensating Grade Cable A. Detailed Technical Specification: 1. Item Description : K-Type (Cr/Al) compensating grade cable 2. Conductor size : 3/22 SWG 3. Conductor material : Copper (+) & Constantan (-) 4. No. of pair : 1 5. Insulation : HR PVC on individual conductor (Type-C, As per IS 5831:84)/outer cover HR PVC sheath(Type ST-2, As per IS 5831:84) 6. Insulation temperature : shall withstand up to 90°C 7. Core colour (as per ANSI MC 96.1) : Yellow (+) and Red (-), outer sheath colour: Yellow 8. Thermal EMF characteristics : As per IEC 60584-3/ IS 8784 9. Conductor resistance at 20°C : Maximum 0.05 ohm/meter 10. Insulation resistance : Minimum 5 Mega ohms 11. Weight of the cable per unit length : Vendor to specify . B. Packing and Marking: 1. The thermocouple compensating cable shall be wound on reels or supplied on coils of 300 Mtr X 2 (preferable) packed and labeled. 2. The label, which shall be securely attached to the reel or coil, shall have the following information: 2.1 Manufacturer's name or trade-mark, if any 2.2 Type of thermocouple 2.3 Material of the leads 2.4 Number of cores 2.5 Number of wires and wire diameter 2.6 Nominal cross-sectional area of conductor 2.7 Length of cable contained in the reel or coil. . C. Inspection and Testing: Inspection shall be completed after receiving the material at BHEL trichy works as per the above section A and BCompensating Grade Cable	600.00	M

Information for Online Participation

Bidder who wish to participate in this tender needs to procure Digital Certificate as per Information Technology Act-2000 using that they can digitally sign their electronic bids. Bidders can procure the same from any or the CCA approved certifying agencies, or they may contact e-Procurement Technologies Ltd. at below mentioned address and they will assist them in procuring the same. Bidders who already have a valid digital Certificate need not to procure the same. In case bidders need any clarification regarding online participation, they can contact,

e-Procurement Technologies Ltd.

Corporate Office:

Address : A-201/208, Wall Street - 2, Opp. Orient Club,
Nr. Gujarat College, Ellis Bridge,
Ahmedabad - 380006, Gujarat(INDIA)

Digital Certificate Contacts

Contact Person : Mr. Himalay Vaishnav

Cell : +91-9099090830

Phone Nos. : +91-9099090830

Fax No :

e-Mail : info@abcProcure.com

Support Team Contacts

Contact Person : BHEL Support Team Ahmedabad

Cell : +91-9265562819

Phone Nos. : +91-79-68136809/871/861/823/872

Fax No :

e-Mail : Bhel.Support@abcProcure.com

Bidder who wish to participate in e-Tender need to fill data in predefined forms of Price bid available in respective tender only. After filling data in predefined forms bidders need to click on final submission link to submit their encrypted bid. Bidder need to submit Document Fees, EMD & Reference Documents in hard copy if such instruction are given by tendering authority. As Per the new Inter-operability guidelines released by Controller of Certifying Authorities(CCA), the Secured Socket Layer(SSL) certificate for a e-procurement application is generated on a new algorithm, SHA2.

Also, the Digital Certificates that will be applicable for these platforms have to be SHA2 algorithm complaint. For the same, the users have to ensure that they have Windows XP(SP3)/Windows Vista/Windows7 installed in their respective PC/Laptop. In case of Windows XP Service pack - 3, if you get any issue you can install the SSL patch, which is available at our download section of our e-Tender/e-Auction Portal and also at our corporate website www.abcpocure.com just below the label of "Knowledge section".

Fraud Prevention

Bidder along with its associate/collaborators/sub-contractors/sub-vendors/consultants/service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice.

Preference to Make in India

For this procurement, Public Procurement (Preference to Make in India), order 2017 dated 15.06.2017 & 28.05.2018 and subsequent orders issued by the respective Nodal ministry shall be applicable even if issued after issue of this NIT but before finalization of contract/PO/WO against this NIT. In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and/ or local content in respect of this procurement, same shall be applicable. Default margin of purchase preference shall be 20% to local suppliers with default minimum local content of 50%.