

Domain :	bhel.abcpurchase.com		
Parent department:	BHEL Trichy		
Unit name	: BHEL Trichy		
Purchase group	: FB M&S Spares Cap	RFQ/NIT/Enquiry Officer	: SURAJKUMAR
Event ID	: 28294	RFQ/NIT/Enquiry no.	: 2661900157
Enquiry Date	: 11/05/2019 05:30:00		
Tender Description	: SPARE CAPACITORS, CONTACTORS, TIMERS, RELAYS ETC for APFC Panels at BHEL Thirumayam		
Terms & Conditions	: Special note: Bidder need to a.compulsorily fulfill pre-qualification criteria(PQC) criteria b. to comply all technical, commercial points as per tender to consider valid offer & submit all applicable documents viz PO copies, valid Dealership certificate etc , if applicable 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 LIST OF ATTACHMENTS: 1.PRE QUALIFICATION CRITERIA. 2.ANNEXURE II- TERMS & CINDITIONS		
Product / service / work keywords	: CAPACITOR,Contactor,Timer,relay,		
No. of Bid Parts	: Multiple	Envelope	: Techno-commercial bid , Price bid
Type of contract	: Goods	Project duration / delivery or completion period	: 05.08.19
Download document	: Before login	RFQ floated under the policy	: PP-PURCHASE POLICY
Estimated Category	: E	No. of items already attached	: 17
Delivery/Location At	: BHEL STORES THIRUMAYAM, PUDUKKOTTAI DISTT-622507	Delivery Date	: 08/08/2019 05:30:00
Inspection by Agency	: BHEL OFFICIAL	Inspection Location	: BHEL THIRUMAYAM

Min. bid required	:	1		
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	:	16/05/2019 13:59:00	Document downloading end date	: 27/05/2019 13:00:00
Bid submission start date	:	16/05/2019 13:59:00	Bid submission end date	: 27/05/2019 13:00:00
Bid opening date	:	27/05/2019 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
Pre-Qualification Criteria for all items:. (PQC) -REFER ANNEXURE1(Vendor to compulsorily meet PQC Criteria).#####Bidder to note for all items:1. The bidder has to clearly mention the make and model of all the offered items and shall submit technical catalog/ datasheet of the offered items along with the offer#####Spec of item sl.no. 10-PFC Capacitor, 4.17 kVAR Item: Heavy duty capacitor for power factor correction Shape: Cylindrical Dimensions: 180 mm x 60 mm (approx.) Mounting: Vertical mounting with M12 stud and nut at bottom. Enclosure: Aluminium casing Type: Self healing type, metallized poly-propylene film capacitor Rating: 4.17 kVar @ 440 V AC, 50 Hz Capacitance: 65.5 µF -5+10% Connection: Delta Features: Overpressure disconnecter, discharge resistor of suitable rating to bring down voltage across capacitor below 50 V in 1 minute. Acceptable makes: Neptune, GE, ABB, EPCOS, L&T, SIEMENS or equivalent makes acceptable to BHEL. Bidder to note: Details of existing items: Make: Epcos, MKP440-1-4.2 B32340C4051A040 Make: Neptune, Ducati Energia NSL-10-Heavy Duty HD-16.536428 PFC Capacitor, 4.17 kVAR			300.00	NO
PFC Capacitor, 20 kVAR Item: Heavy duty capacitor for power factor correction Shape: Cylindrical Mounting: Vertical mounting with stud and nut at bottom. Enclosure: Aluminium casing Type: Self healing type, metallized poly-propylene film capacitor Rating: 20 kVar @ 440 V AC, 50 Hz Capacitance: 3*109.6 µF -5+10% Connection: Delta Features: Overpressure disconnecter, discharge resistor of suitable rating to bring down voltage across capacitor below 50 V in 1 minute. Acceptable makes: Neptune, GE, ABB, EPCOS, L&T, SIEMENS or equivalent makes acceptable to BHEL. Bidder to note: Details of existing item: Make: L&T, LTCCN320B2 PFC Capacitor, 20 kVAR			40.00	NO
PFC Capacitor, 10 kVAR Item: Heavy duty capacitor for power factor correction Shape: Cylindrical Mounting: Vertical mounting with stud and nut at bottom. Enclosure: Aluminium casing Type: Self healing type, metallized poly-propylene film capacitor Rating: 10 kVar @ 440 V AC, 50 Hz Capacitance: 3*54.8 µF -5+10% Connection: Delta Features: Overpressure disconnecter, discharge resistor of suitable rating to bring down voltage across capacitor below 50 V in 1 minute. Acceptable makes: Neptune, GE, ABB, EPCOS, L&T and SIEMENS or equivalent makes acceptable to BHEL. Bidder to note: Details of existing item: Make: L&T, LTCCN310B2 PFC Capacitor, 10 kVAR			40.00	NO
PFC Capacitor, 5 kVAR Item: Heavy duty capacitor for power factor correction Shape: Cylindrical Mounting: Vertical mounting with stud and nut at bottom. Enclosure: Aluminium casing Type: Self healing type,			30.00	NO

metallized poly-propylene film capacitor Rating: 5 kVar @ 440 V AC, 50 Hz Capacitance: 3*27.4 µF -5+10% Connection: Delta Features: Overpressure disconnecter, discharge resistor of suitable rating to bring down voltage across capacitor below 50 V in 1 minute. Acceptable makes: Neptune, GE, ABB, EPCOS, L&T, SIEMENS or equivalent makes acceptable to BHEL. Bidder to note: Details of existing item: Make: L&T, LTCN305B2 PFC Capacitor, 5 kVar		
CT for APFC Relay, 600 / 5 A Item: Current transformer for APFC relay Rating: 0.8/ 3 kV; 50 Hz Ratio: 600/ 5 A Class: 1.0 Burden: 15 VA Shape: Rectangular Inner side dimension: 85 mm x 65 mm Acceptable makes: Kalpa, Kappa, Neptune or equivalent makes acceptable to BHEL. CT for APFC Relay, 600 / 5 A	6.00	NO
Incomer MCCB for APFC Panel Item: Incomer MCCB for APFC panel Poles: 3 poles with front terminals Rated current (In): 630 A Rated operational voltage: 690 V Rated impulse withstand voltage (Uimp): 8 kV Rated insulation voltage (Ui): 1000 V Utilization category: A Dimensions: 140 mm x 205 mm x 103.5 mm (approx) Acceptable makes: ABB, Siemens, L&T, Schneider, C&S, Havells, Legrand or equivalent makes acceptable to BHEL. Bidder to note: Details of existing item: Make: ABB, SACE Tmax T5N630 Incomer MCCB for APFC Panel	2.00	NO
Timer for PFC Capacitor Switching Item: Programmable digital on delay timer for capacitor switching Supply voltage: 240 V AC/ 24 V DC @ 50 Hz, -20% to + 10% Timing range: 0.3 sec to 30 hour Relay output: 1 C/O; 5 A @ 240 V AC, 24 V DC (resistive) Indication: LED indication for power supply and relay status Dimension: 17.5 x 90 x 58.5 mm Mounting: DIN rail Enclosure: Flame retardant type Acceptable makes: GIC, L&T, Legrand, EAPL, GE, Siemens or equivalent makes acceptable to BHEL. Timer for PFC Capacitor Switching	10.00	NO
Digital Off Delay Timer Item: Programmable digital off delay timer Supply voltage: 240 V AC/ 24 V DC @ 50 Hz, -20% to + 10% Timing range: 0.3 sec to 30 hour Relay output: 1 C/O; 5 A @ 240 V AC, 24 V DC (resistive) Indication: LED indication for power supply and relay status Dimension: 17.5 x 90 x 58.5 mm Mounting: DIN rail Enclosure: Flame retardant type Acceptable makes: GIC, L&T, Legrand, EAPL, GE, Siemens or equivalent makes acceptable to BHEL. Digital Off Delay Timer	6.00	NO
Digital Timer for Star-Delta Starter Item: Programmable digital timer for star-delta starter Supply voltage: 240 V AC, -20% to +10%, 50 Hz Timing range: 3 sec to 120 sec Pause time: 60 ms Reset time: 150 ms (max.) Relay output: 5A, 1 NO for star and 1 NO for delta Indication: LED indication for star and delta switching Dimension: 17.5 x 90 x 58.5 mm (approx.) Mounting: DIN rail Enclosure: Flame retardant type Acceptable makes: GIC, L&T, Legrand, EAPL, GE, Siemens or equivalent makes acceptable to BHEL. Digital Timer for Star-Delta Starter	10.00	NO
Digital Timer for Street Light Control Item: Programmable digital timer for street light on/off Supply: 230 V AC, 50 Hz Battery back-up: More than 3 years Contact: 1 NO + 1 NC Display format: 12/ 24 hour Feature for weekend exclusion and weekly off programming Utilization category: AC-15 Mounting: DIN rail mounting Enclosure: Flame retardant type Acceptable makes: GIC, L&T, Legrand, EAPL, GE, Siemens or equivalent makes acceptable to BHEL. Bidder to note: Details of existing items: Make: GIC, 67DDT0 Digital Timer for Street Light Control	30.00	NO
Power Factor Controller Relay Item: Power factor controller relay Number of step output contacts: 12 Operating voltage: 230 V AC +-10%, 50 Hz Operating current: 100 mA to 5.5 A Operating mode: Automatic and manual Accuracy: 1% for V, I and PF; 2% for W, Var, VA CT Ratio: 600/ 5 A Power factor setting: 0.8 < cos phi C/k setting: 0.02 - 1.00 Time delay between steps: 1-1.800 Sec. (for switch on / off separately) Discharge Time (Reconnection Time) # 1-1.800 Sec Over voltage setting: 240 - 275 V AC Output contact: 3 A, 750 VA Display: Red LED, 14 mm height (144 x 144 mm) Features: automatic energy correction, automatic disconnection of damaged capacitor stages, programmable over voltage alarm, automatic power calculation, display of phase-neutral voltage, phase-phase voltage, phase current, active power, reactive power, apparent power, programmable CT/ PT ratio settings etc. Acceptable makes: Neptune, Schneider, L&T, ABB, Siemens or equivalent makes acceptable to BHEL. Power Factor Controller Relay	1.00	NO
Item: On/off push button with red LED indicator Contacts: 1 NO+1 NC TYPE:Momentary Contact arrangement: Screw type Operating Voltage: 230 V AC Dia-30mm Rated Insulation Voltage: 600V AC/DC Mechanical Durability: 5 million operation Acceptable makes: Esbee, Vishay, Salzer, Siemens, ABB, L&T, Teknic, BCH, C&S, GE or equivalent makes acceptable to BHEL. On/Off Push Button with Red LED Indicator .	20.00	NO
On/Off Push Button with Green LED Indica Item: On/off push button with green LED indicator Contacts: 1 NO+1 NC TYPE:Momentary Contact arrangement: Screw type Operating Voltage: 230 V AC Dia-30mm Rated Insulation Voltage: 600V AC/DC Mechanical Durability: 5 million operation Indication color: Green Acceptable makes: Esbee, Vishay, Salzer, Siemens, ABB, L&T, Teknic, BCH, C&S, GE or equivalent makes acceptable to BHEL. On/Off Push Button with Green LED Indica	20.00	NO
Capacitor Switching Contactor; 25 kVar Item: Contactor with damping resistors for capacitor switching Application: Automatic power factor correction No. of poles: 3 Dimensions: 54 mm (W) x 141 mm (net depth) x 130 mm (net height) Main contacts: 3 NO Auxiliary contacts: 1 NO Rated operational voltage: 690 V Coil voltage: 230 V AC Capacitor bank rating: 25 kVar @ 440 V AC Max. permissible peak current:	15.00	NO

Unlimited Utilization category: AC-6b, according to IEC 60947-4-1 Acceptable makes: ABB, Siemens, L&T, Schneider or equivalent makes acceptable to BHEL. Bidder to note: Details of existing item: Make: ABB; UA30...RA; UA30-30-10RA Make: L&T; MO C50 Capacitor Switching Contactor; 25 kVAr		
Contactor for Auxiliary Controls of APFC Item: Contactor relay with auxiliary contact block for switching auxiliary circuits and control circuits Poles: 4 pole contactor relay Rating: 230 V, 50 Hz Dimensions: 44 mm width x 74 mm net depth x 74 mm net height Number of auxiliary contacts: 4 NO Rated operational voltage: Main circuit 690 V Conventional free-air thermal current: 16 A at 40 deg C Rated operational current, AC-15: 3 A @ 440 V AC Rated Insulation voltage: 600 V Rated impulse withstand voltage: 8 kV Control circuit voltage: 230 V, 50 Hz Terminal type: Screw terminal Mounting of auxiliary contact: Front face Number of auxiliary contacts: 4 NC Rated operation current: 3 A @ 440 V AC Acceptable makes: ABB, Siemens, L&T, Schneider or equivalent makes acceptable to BHEL. Bidder to note: Details of existing item: Make: ABB; N40E Auxiliary contact block: Make: ABB; CA5-04E Contactor for Auxiliary Controls of APFC	10.00	NO
Capacitor Switching Contactor; 50 kVAr Item: Contactor with damping resistors for capacitor switching Application: Automatic power factor correction No. of poles: 3 Main contacts: 3 NO Auxiliary contacts: 1 NO Rated operational voltage: 690 V Coil voltage: 230 V AC Capacitor bank rating: 50 kVar @ 440 V AC Utilization category: AC-6b, according to IEC 60947-4-1 Acceptable makes: ABB, Siemens, L&T, Schneider or equivalent makes acceptable to BHEL. Bidder to note: Details of existing item: Make: L&T; MO C50 Capacitor Switching Contactor; 50 kVAr	6.00	NO
Emergency Stop Push Button Item: Emergency Stop Push Button RED color Contacts: 2 NC TYPE: Push Lock, Turned Reset Mushroom head Contact arrangement: Screw type Dia-30mm Operating Voltage: 24 VDC Rated Insulation Voltage: 600V AC/DC Mechanical Durability: 100000 operations Acceptable makes: Siemens, BCH, C&S, GE, Teknic, ABB, L&T, Telemecanique or equivalent makes acceptable to BHEL. Emergency Stop Push Button	50.00	NO

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

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Support Team Contacts

Contact Person : BHEL Support Team Ahmedabad

Cell : +91-8160087732

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.abcprocure.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%.