

  <p>ISO 9001, ISO 14001, OHSAS 18001 &amp;SA8000 Certified Company</p> <p>SubContract and Purchase Department.</p>	<p><b>भारत हेवी इलेक्ट्रिकल्स लिमिटेड</b> (भारत सरकार का उपक्रम)</p> <p><b>BHARAT HEAVY ELECTRICALS LIMITED</b> (A Govt. of India Undertaking)</p> <p>पावर सेक्टर, उ.क्षे.परिसर, प्लाट नं.25, सेक्टर-16ए, पोस्ट बॉक्स सं.55,नोएडा-201301, Power Sector-Northern Region, Plot no.25, Sector 16 A, Noida -201301 Ph : 0120-2416548/2416566 , Fax: 0120-2416528 / 2416525 E-mail: <a href="mailto:samriddhi@bhelpsnr.co.in">samriddhi@bhelpsnr.co.in</a> ; <a href="mailto:skant@bhelpsnr.co.in">skant@bhelpsnr.co.in</a></p>
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E-TENDER ENQUIRY NO. & DATE	BHEL/PSNR/SCP/SS/E-2731(E-Tender) & DATE: 19.11.2015
DUE DATE & TIME OF TENDER SUBMISSION	30.11.2015 AT 13:30 HRS
DUE DATE & TIME OF OPENING OF TENDER	30.11.2015 AT 15:30 HRS

### TENDER ENQUIRY

BHEL Power Sector, Northern Region invites sealed quotation for the following Store in **two part bid** system THROUGH E-PROCUREMENT PORTAL <https://bheleps.buyjunction.in> ONLY;

DESCRIPTION OF STORE	DESTINATION FOR SUPPLY	TENTATIVE QTY.	DELIVERY SCHEDULE
SUPPLY & DEMONSTRATION OF EIGHT CHANNEL OF HI-SPEED MEMORY RECORDER (SCOPECORDER/ HI-CORDER)	AGM/ PROJECTS, M/S BHARAT HEAVY ELECTRICALS LIMITED, PSNR, PLOT NO. 25, SEC-16A, NOIDA	1 No	Within 10 WEEKS from P.O.

**DELIVERY REQUIRED AT - CONSIGNEE:**

AGM/ PROJECTS, M/S BHARAT HEAVY ELECTRICALS LIMITED, PSNR, PLOT NO. 25, SEC-16A, NOIDA

**IMPORTANT NOTE:**

*This is an E-tender floated online through our E-Procurement Site <https://bheleps.buyjunction.in>. The bidder should respond by submitting their offer online only in our e-Procurement platform at <https://bheleps.buyjunction.in>. Offers are invited in two-parts only. No Hard copy bid or bids through email/ fax shall be accepted.*

The Tender Document comprise of following;

1. PART – ‘A’: QUALIFYING REQUIREMENT (QR)
2. PART – ‘B’: (1) SPECIAL CONDITIONS OF CONTRACT (SCC) (2) TECHNICAL SPECIFICATIONS
3. PART – ‘C’: UNPRICE FORMAT
4. PART – ‘D’: PRICE SCHEDULE
5. PART - ‘E’ : GENERAL CONDITION OF CONTRACT (GCC) Rev. – 00 Dtd. 24.08.2015 ( Page 1 – 30, Separately enclosed )

**PRE-QUALIFYING REQUIREMENTS (PQRs)**

- 1) Bidder/ Supplier who wish to participate should have supplied 'Memory Recorder' in past 2 years from the date of technical bid opening.

Supporting documents i.e. P.O. Copy to meet above Qualifying Criteria.

- 2) a) Average annual TURNOVER in last three **Financial Years (FY)** shall be **at least 9.97 Lacs.**  
b) Bidder must have earned CASH PROFIT in any one of the last three (03) **FY.**

Bidder to submit audited Balance Sheet and Profit & Loss Account of the company for last 3 Financial Years (**FY**) in support to Sl. No. I), & II) as above.

**Note:**

- In case annual accounts of last FY are not audited, then bidder should submit the audited annual accounts of previous three FY.
- In case audited annual accounts have not been submitted for all the three years as indicated above, then the applicable audited annual accounts as submitted by the bidder against the requisite three years will be averaged for three years.

**SPECIAL CONDITIONS OF CONTRACT (SCC)****1.1 IMPORTANT NOTES:**

*This is an E-tender floated online through our E-Procurement Site <https://bheleps.buyjunction.in>. The bidder should respond by submitting their offer online only in our e-Procurement platform at <https://bheleps.buyjunction.in>. Offers are invited in two-parts only. No Hard copy bid or bids through email/ fax shall be accepted. Bids are invited in two parts & shall be submitted as described below:*

<b>OFFER DESCRIPTION</b>	<b>DOCUMENTS TO BE UPLOADED &amp; MODALITY OF UPLOADING DOCUMENTS</b>
<b>TECHNICAL OFFER</b>	1.Scanned copy of Covering letter of offer (To be attached in <b>Attachment</b> section) 2. Scanned copy of Entire tender documents signed & stamped in each page by authorized representative of the bidder except price bid (To be attached in <b>Attachment</b> section). 3. Scanned copy of Techno-Commercial Offer (To be attached in <b>Attachment</b> section) 4. Duly filled all annexures except price & unpriced format (To be attached in <b>Attachment</b> section). 5. All supporting documents/ Annexures etc., as applicable (To be attached in <b>Attachment</b> section). 6. No deviation certificate in bidders letterhead as per format given in GCC (To be attached in <b>Attachment</b> section).
<b>PRICE BID</b>	7. Duly filled in Price Schedule as per Tender. (To be attached in price bid <b>Attachment</b> section) <i>Any other document uploaded in the price bid, as per tender format, shall not be taken into cognizance for evaluation of offer.</i>

**1.2 SCOPE OF WORK:**

**‘Supply of Eight Channel Hi-Speed Memory Recorder (SCOPECORDER/ Hi-CORDER)** on F.O.R. Destination Basis. Unloading of materials at Destination/Site shall be in the BHEL’s scope.

**2. PRICE BASIS:**

Price in INR should be quoted for F.O.R destination delivery at **M/S BHARAT HEAVY ELECTRICALS LIMITED, PSNR, PLOT NO. 25, SEC-16A, NOIDA**. Quoted rates shall remain firm during the supply period except for variation in duties / taxes as mentioned at sl. no. 4 below.

The quantities indicated are tentative and no compensation shall be admissible on change in actual requirement by BHEL.

**3. EVALUATION CRITERIA:**

Tender will be evaluated based On Net Cost to BHEL after Considering Cenvat Credit as indicated in Price Bid (PART – “D”) of Tender.

**4. TAXES AND DUTIES:**

4A) Price quoted should be inclusive of all the applicable charges, Taxes and Duties. However rates of Sales Tax, Excise Duty & other statutory levies should be indicated separately if applicable. Variation in Excise Duty, Sales Tax/ Vat or any other statutory levies during contractual delivery period shall be to BHEL's account. BHEL shall issue ROAD PERMITS, wherever applicable, to the supplier. Vendor shall submit the road permits complete in all respect as per relevant state requirement. Any other govt. levies as per actuals shall be reimbursed by BHEL on submission of relevant documentary proof by supplier.

BHEL shall not issue 'C' Form.

4B) Excise duty incurred by seller/contractor on items against the dispatch constituting a sale under the order alone shall be reimbursed at actuals against requisite documentary evidence. The invoice cum excise duty gate pass (excise invoice) should contain the name of ultimate consignee as specified in the order. Hence CENVAT benefit during evaluation of price shall be considered in the following cases where

4B1) Invoice issued by Manufacturer / first stage dealer and second stage dealer as per the provision of Rule 11 of Central Excise Rules, is also declared as duty paying document for the purpose of allowing CENVAT credit under rule 9 of CENVAT Credit Rules, 2004. It is noted that Invoice issued by registered dealer shall be prepared in triplicate and indicate at the top of the Invoice in bold capital letters as "First Stage Dealer" or "Second Stage Dealer".

4B2) In case goods are purchased through a dealer but these are dispatched by supplier manufacturer directly to the factory of buyer. In such case, CENVAT is available to buyer if invoice is in name of dealer but name of buyer is shown as consignee. This termed as Transit Invoice where Invoice is in name of dealer with name of buyer-manufacturer as consignee.

4B3) In case goods are dispatched from the godown of First stage dealer or second stage dealer. The credit of duty on inputs or capital goods purchased from first stage dealer or second stage dealer shall be allowed only if the said dealer has maintained records indicating the fact that the inputs or capital goods were supplied from the stock on which duty was paid by manufacturer of such goods and only an amount of such duty has been indicated in the invoice issued by him. (Ref.: Circular No. 689/5/2003-CX dated 14.01.2003).

4B4) In case supplier fails to submit the requisite and appropriate CENVATABLE invoice in favor of BHEL with CENVAT credit equal to the amount offered by them in their quote , the same shall not be payable.

Quoted rates shall remain firm except for variation in Duties / Taxes as mentioned at serial no. 4A) above.

**5. INSPECTION:** The supplier shall offer the **Eight Channel Hi-Speed Memory Recorder (SCOPECORDER/ Hi-CORDER)** with other components for inspection demo/demonstration of the equipment at works (Pre-dispatch Inspection & Demonstration). Manufacturing Test certificate, Calibration certificate, Warranty/ Guarantee Certificate is required at the time of dispatch.

**6. DELIVERY:**

**For Supply:** The delivery for the 'Supply of **EIGHT CHANNEL HI-SPEED MEMORY RECORDER (SCOPECORDER/ HI-CORDER)** shall be within ten (10) Weeks from date of P.O. LR/ GR/ RR/BL date shall be treated as the date of dispatch for levying LD.

"In case delivery period quoted by the bidder is not in line the tender requirement, then BHEL may reject their offer."

Bidders to note the following:

- (i) Scanned copy of P.O. shall be emailed.
- (ii) Road Permit shall be issued by BHEL only in case of interstate purchase.

**Note:** Bidders are requested to arrange the transporters and dispatch the goods on our behalf on freight (including transit insurance) pre-paid basis. Goods to reach at respective destinations within reasonable time.

**7. TRANSIT INSURANCE:** Transit Insurance of material is in Supplier's scope.

**8. VALIDITY OF OFFER:** Offer should be valid for a period of 60 Days from the date of Techno-commercial Bid (Part-I) opening.

**9. PAYMENT TERMS:** As per Clause NO. 9.2 of General Conditions of Contract (GCC)

**10. BILLING DOCUMENTS:**

1. Original Invoices (EXCISABLE INOVICES IF APPLICABLE)
2. COPY of LR/GR.
3. Test Certificate
4. Calibration Certificate
5. O&M Manual
6. Guarantee/ Warranty Certificate.

**11. PERFORMANCE BANK GUARANTEE & EMD:** Applicable as per Clause No. 10 of General Conditions of Contract (GCC).

**12. PAYING AUTHORITY:** AGM/ PROJECTS, M/S BHARAT HEAVY ELECTRICALS LIMITED, PSNR, PLOT NO. 25, SEC-16A, NOIDA

**13. GUARANTEE / WARRANTY:** As per clause 11.2. (a) of General Commercial Terms & Conditions of GCC.

**14. MSE BIDDER:** As per clause 11 of General Instruction to Bidders of GCC.

**15. REVERSE AUCTION:** APPLICABLE.

**16. ORDER OF PRECEDENCE:**

In case of contradiction / conflict, the order of precedence shall be in the order as per clause 24 of General Commercial Terms & Conditions of GCC.

**17. OTHERS:**

1. Service support of the equipment under purchase is of utmost concern. Tenderers shall elaborate on the service network and spare parts availability, which are to be ensured to maintain the equipment after initial commissioning and completion of warranty period. In case service/spare parts facilities are not available in India, tenderers shall indicate the maximum possible time in making such services available from places outside India.
2. The tenderers shall also provide free visits of their service engineer from manufacturer's works / service centers for attending the faults during the warranty period in case of any complaint by the end user.
3. The equipment being offered should be of robust design and suitable for operations in Indian climatic conditions. The electrical and controls should be tropicalized to withstand such climatic conditions.

**TECHNICAL SPECIFICATIONS**

**SPECIFICATIONS (HI SPEED RECORDER/ SCOPECORDER)**

1. Portable type Multi channel oscillographic recorder (Digital Storage Scope with Recorder) suitable for displaying, recording and simultaneous capturing of high speed

Signals /waveforms such as voltage, current and playing them back with ease of operation.

**2. Basic facilities:**

Real time display, recording, memory play back, logging, printing, analysis with the help of software on PC.

3. Plug in type amplifier modules: Shall be available in unit as per requirement

**4. Instrument functions:**

- a. Dual Zooming of wave forms
- b. Dual Capture with advance Trigger functions
- c. USB interface with PC
- d. Trigger search of waveforms in memory
- e. History memory display
- f. Waveform judgment function
- g. Recorder and memory function
- h. Calculation
- i. Built in Printer with recording paper
- j. SD card slot & USB memory
- k. Real time hard disk recording

**5. Unit Specifications**

- 5.1. Measurement function: Recorder, Memory recorder, logging
- 5.2. Input units: Plug-in type, inputs isolated from each other
- 5.3. No. of Channels: (8 Channel) Binary Channel: 2
- 5.4. Power supply: 230 volt  $\pm 10\%$ , 50 Hz  $\pm 5\%$ . Single phase
- 5.5. PC Interface: USB and Ethernet
- 5.6. Operating environment: 5 to 40 deg C, 30 to 80% RH (non-cond)
- 5.7. Sampling frequency: 5MS or better/ Recording speed: 50mm/s (0.2s/div)

5.8. Memory capacity: (10Mpoints per channel)

5.9. Alternative File storage: Hard disk drive (80 GB) or better

5.10 Math. Functions: Basic arithmetic, integration, differentiation, binary conversion, phase shifting, FFT (power spectrum)

## **6. Recording and display**

6.1. Display screen: 8 inch display or better.

6.2. Display/record parameters: simultaneous date, time, speed, measured data and measuring condition

6.3. Built in thermal printer: shall be available along with suitable thermal paper

6.4. Trigger function

1. Internal and external

2. Level trigger

3. Period trigger

4. Window & Wave window trigger

5. Combination of all channels

6. Recording-Memory Time sweep # 500micro second/div/ to 1hour/div. #with settable facility (or better)

6.5 Waveform storage

7.0. Wave form measurement and analysis functions

7.1. Pre-trigger viewing facility: shall be available

7.2. Play back from memory as desired: shall be available

7.3. Wave form processing: Wave form processing, wave form parameter processing, averaging, memory segmentation, voltage axis zoom, and compression.

7.4. Wave form measurement: Two vertical & horizontal cursors required & atleast 4 marker cursor

7.5. Maximum no. of measured parameters: at least 24

7.6. Cycle statistical calculation: max., min. avg., standard deviation

## **8.0. Software**

8.1. Functions: simultaneous display of wave forms, display of format settings, scroll & zoom functions to view the wave forms captured, on a PC.

8.2. Operating environment: Windows 7 or windows based latest operating system

8.3. Data export facility in MS Excel format shall be available

9.0.Plug-in inputs

9.1. Analog Voltage Modules - 4Nos

A .Isolated BNC connector

B. Sampling # 10MS/sec with 12 bit vertical resolution

C. Max. allowable input # 600V(DC + AC Peak.)

D. DC Accuracy - atleast (+/-) 0.5%

9.2. Current unit: It shall have current probe plug-in facility to accept voltage input from current clamp for current wave viewing & recording & storing- 4Nos

Bandwidth: DC to 3 MHz

10. Standard Accessories:

10.1 Soft carrying case for accessories

10.2 Software for post storage Analysis in Computer

10.3 Connection cords, test leads

10.4 Isolated voltage probes-8 nos.

11. Warranty: Minimum One year (standard) after receipt, inspection and demonstration at site.

12. Bidder to submit leaflet/catalogue of the quoted item.

**PART 'C'**

**UNPRICE SCHEDULE:** As per separate Attachment. Refer, Unprice Part (.xlsx file).

**PART 'D'**

**PRICE SCHEDULE:** As a separate Attachment. Refer, Price Part (.xlsx file).