



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT - FOSSIL BOILERS
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)

PHONE :2577645
GRAMS : BHARATELEC
FAX NO: 2520719
E-mail: srchandran@bheltry.co.in
Web:


429-002/A

	Enquiry No	Enquiry Date	Due Date for Quotation
	2691400145 - 41	12.12.2014	06.01.2015
Please quote Enquiry No, Date and due date in all correspondences. This is only a request for quotation and not an order			

Item	Description	Unit	Quantity	Delivery Quantity	Schedule Date
10	Mixed Domain Oscilloscope with 200MHz Bandwidth, 4 Analog Channels, 10M record length, 3GHz spectrum analyser, computer and audio serial triggering and analysis add-on modules with required accessories # 1 set 1 General Specification 1.1 No. of Channels : 4 Analog 1.2 Bandwidth : 200 MHz 1.3 Vertical Resolution : 8 bits/ better 1.4 Coupling : AC, DC 1.5 Record length : 10M or better on all channels 1.6 Sample rate : 2.5 GS/s or better 1.7 Input range : 1mV / div to 5V / div or better 1.8 Time base range : 1ns/div to 500s/div or better 1.9 Display Type & Resolution : 9# Diagonal Colour display <(>&<)> WVGA- 800x480 pixels 1.10 Hardware Connectivity : USB(Host), USB (Device), LAN, XGA Display out, etc. 1.11 Trigger Selection : Edge, Pulse width, Video, Sequence, RS-232/422/485, etc. 1.12 Measurement features : Auto Measurement, Statistics, Histogram, Cursor, Waveform math, Gating, etc. 2 Spectrum Analyser 2.1 No. of Channels : 1 2.2 Bandwidth : 9kHz # 3GHz 2.3 Scale : 1dB/ div to 20dB/div 2.4 Level Measurement Uncertainty : <(><<)> ±2 dBm 2.5 Residual response : <(><<)> -78dBm 2.6 Reference Level : -130dBm to +20dBm 2.7 Vertical Scale : 1dB/div to 20dB/div 3 Add-on Modules 3.1 Computer serial triggering and analysis : Trigger, decode, search and display RS-232/422/485/UART buses 3.2 Audio Serial Triggering and Analysis Module : Trigger, decode, search and display I2S,RJ,LJ,TDM audio buses	SET	1.000	1.00	15.04.15

The offers should reach us 30 minutes before the time of opening of tenders. The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

Yours faithfully,
For **BHARAT HEAVY ELECTRICALS LIMITED**


MANAGER / PURCHASE
(FOSSIL BOILERS)
Yours faithfully,

D. CHANDRAMOHAN
Senior Manager / MM / RM
Purchase / CP & SP
BHEL, TIRUCHY - 620 014



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2691400145 / 12.12.2014

- 4 Environmental
4.1 Operating Temperature : -5°C to +50°C
(Max).
4.2 Operating Humidity : 90% RH at 40°C
4.3 Altitude : 3000m
4.4 Regulatory requirements : Safety IEC
61010-1:2001
5.0 Power Requirement
5.1 Voltage & Frequency : Universal voltage
input 100 to 240V AC,
50 Hz
5.2 Power : <(> < < > > 200W
6 Accessories
6.1 Mains cord : As per instrument
requirement
6.2 Probes : 10X, 3.9pF passive probes- 1 per
channel as per
instrument requirement
6.3 Adapters : N-to-BNC as per instrument
requirement
6.4 Proprietary software : Software on CDs as
per Instrument
requirement
6.5 User Manual / handbook : User, Service &
Programmer guide #
In Hard & Soft form
6.6 Storage Bags / Covers : As per instrument
& accessories
storage requirement
7 Calibration Certificate : Traceable Calibration
Standard
8 Warranty : 3-years or more
Mixed Domain Oscilloscope

General Note:

PL. SUBMIT YOUR OFFER ON F.O.R - BHEL, TRICHY (TAMILNADU) BASIS AND IN TWO PART (TECHNO-COMMERCIAL BID AND PRICE BID) IN A SEPARATE COVER.

IF THE OFFER IS SUBMITTED IN SIGNLE PART AND THE SAME WILL BE LIABLE FOR REJECTION.

ANNEXURE- 'A'(2 PAGES)& 'B'(3 PAGES) ENCLOSED HEREWITH MUST BE FILLED, SIGNED AND SUBMITTED ALONG WITH YOUR OFFER.

ANNEXURE-III ENCLOSED HEREWITH MUST BE FILLED, SIGNED AND SUBMITTED ALONG WITH YOUR OFFER.

THIS TENDER IS HOSTED IN BHEL WEBSITE VIDE NIT REF. _____ DT. _____ AND ANY CORRIGENDUM MAY PL BE VIEWED IN THE BHEL WEBSITE (HTTP://WWW.BHEL.COM)

ENCLOSURE: ANNEXURE - 'A' , 'B' & III

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MSME VENDOR GIDE LINES WILL BE FOLLWDED FOR THIS TENDER


Enclosures:

"LD clause has to be confirmed without fail."

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Yours faithfully,
For **BHARAT HEAVY ELECTRICALS LIMITED**


MANAGER / PURCHASE
(FOSSIL BOILERS)
Yours faithfully,

SPECIFICATION FOR MIXED DOMAIN OSCILLOSCOPE

Mixed Domain Oscilloscope with 200MHz Bandwidth, 4 Analog Channels, 10M record length, 3GHz spectrum analyser, computer and audio serial triggering and analysis add-on modules with required accessories – 1 set

S. No.	Product Description	BHEL's Specification/ Requirement	Vendor's Confirmation*	Deviation, if any
1	General Specification			
1.1	No. of Channels	4 Analog		
1.2	Bandwidth	200 MHz		
1.3	Vertical Resolution	8 bits/ better		
1.4	Coupling	AC, DC		
1.5	Record length	10M or better on all channels		
1.6	Sample rate	2.5 GS/s or better		
1.7	Input range	1mV / div to 5V / div or better		
1.8	Time base range	1ns/div to 500s/div or better		
1.9	Display Type & Resolution	9" Diagonal Colour display & WVGA- 800x480 pixels		
1.10	Hardware Connectivity	USB(Host), USB (Device), LAN, XGA Display out, etc.		
1.11	Trigger Selection	Edge, Pulse width, Video, Sequence, RS-232/422/485, etc.		
1.12	Measurement features	Auto Measurement, Statistics, Histogram, Cursor, Waveform math, Gating, etc.		
2	Spectrum Analyser			
2.1	No. of Channels	1		
2.2	Bandwidth	9kHz – 3GHz		
2.3	Scale	1dB/ div to 20dB/div		
2.4	Level Measurement Uncertainty	<±2 dBm		
2.5	Residual response	<-78dBm		
2.6	Reference Level	-130dBm to +20dBm		
2.7	Vertical Scale	1dB/div to 20dB/div		
3	Add-on Modules			
3.1	Computer serial triggering and analysis	Trigger, decode, search and display RS-232/422/485/UART buses		
3.2	Audio Serial Triggering and Analysis Module	Trigger, decode, search and display I2S,RJ,UJ,TDM audio buses		

4	Environmental	
4.1	Operating Temperature	-5°C to +50°C (Max).
4.2	Operating Humidity	90% RH at 40°C
4.3	Altitude	≤3000m
4.4	Regulatory requirements	Safety IEC 61010-1:2001
5.0	Power Requirement	
5.1	Voltage & Frequency	Universal voltage input 100 to 240V AC, 50 Hz
5.2	Power	≤ 200W
6	Accessories	
6.1	Mains cord	As per instrument requirement
6.2	Probes	10X, 3.9pF passive probes- 1 per channel as per instrument requirement
6.3	Adapters	N-to-BNC as per instrument requirement
6.4	Proprietary software	Software on CDs as per Instrument requirement
6.5	User Manual / handbook	User, Service & Programmer guide – In Hard & Soft form
6.6	Storage Bags / Covers	As per instrument & accessories storage requirement
7	Calibration Certificate	Traceable Calibration Standard
8	Warranty	3-years or more

* Vendor confirmation must be clearly spelt out with data. Yes /No answers will be treated as disqualified.

QUALIFYING CRITERIA

Mixed Domain Oscilloscope

SECTION-I :

The BIDDER has to compulsorily meet the following requirements to get qualified for considering the technical offer:

S. No.	REQUIREMENTS	VENDOR'S RESPONSE
1	Only those vendors (OEMs/Authorized Distributors), who have supplied and commissioned at least 5Mixed Domain Oscilloscopes in the past3 years (from the date of opening of Tender) and such equipment is presently working satisfactorily for more than one year after commissioning (from the date of opening of Tender) should quote.	
	The vendor should submit following information where similar equipment has been supplied for qualification of their offer.	
1.1	Name and postal address of the customer or company where similar equipment is installed.	
1.2	Name and designation of the contact person of the customer.	
1.3	Phone, FAX no and email address of the contact person of the customer.	
1.4	Month and Year of commissioning of the equipment.	
1.5	Application for which the equipment is supplied	
1.6	Along with the Technical offer, the Vendor should submit one Performance certificate from the customer for the satisfactory performance of the equipment supplied to them. For obtaining the Performance certificate, a suggestive format is provided in SECTION -IV .	
1.7	BHEL reserves the right to verify the information provided by vendor. In case the information provided by vendor is found to be false/ incorrect, the offer shall be rejected.	
2.0	DELIVERY - The bidder shall quote the best possible delivery, not exceed 6 months.	

SECTION - II

The BIDDER / VENDOR is requested to provide the following information:

S. No.	REQUIREMENTS	VENDOR'S RESPONSE
3.0	The BIDDER/VENDOR to furnish Reference List of Customers, with full address, details of contact person, where Mixed Domain Oscilloscopes similar to offered have been supplied in the past.	
4.0	Details of Mixed Domain Oscilloscopes supplied to other BHEL units, if any. (Year of commissioning, Specifications, etc.)	
5.0	Details on SERVICE-AFTER-SALES Set-Up in India	
6.0	Any Additional Data to supplement the capability of the BIDDER for the subject equipment.	

SECTION - III

The BIDDER to note:

S. No.	PARTICULARS	VENDOR'S RESPONSE
7.0	The BIDDER / VENDOR shall submit the offer in TWO PARTS: 1. Technical Offer & commercial offer 2. Price Bid.	
8.0	The Technical Offer shall contain a comparative statement of Technical Specifications demanded by BHEL and Offer Details submitted by the Bidder, against each clause. <u>A just 'CONFIRMED' or 'COMPLIED' or 'YES' or 'NO-DEVIATION' or similar words in the technical comparative statement where specific details are required may lead to disqualification of the Technical Offer.</u>	
9.0	The Technical Offer shall be supported by product Catalogues & Data Sheets and also technical details of Bought-Out-Items with copies of Product Catalogue to the extent possible.	
10.0	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.	

SECTION - IV

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

PERFORMANCE CERTIFICATE

1. Supplier of the Equipment	
2. Make & Model of the Equipment	
3. Month & Year of Commissioning	
4. Application for which equipment is used	
5. Brief description of the equipment.	
6. Performance of the Equipment (Strike off whichever is not applicable)	Satisfactory / Good / Average / Not Satisfactory
7. After sales service (Strike off whichever is not applicable)	Satisfactory / Good / Average / Not Satisfactory
8. Any Other remarks	
Date: _____	
Signature & Seal of the Authority Issuing the Performance Certificate	

COMMERCIAL TERMS& CONDITIONS

ANNEXURE-III(m)

Bharat Heavy Electricals Limited, Tiruchirapalli – 620 014, Tamilnadu

MM: CP & SP

(Check List - to be filled and submitted along with Techno-Commercial Bid)

Sl. No.	BHEL Commercial Terms and Conditions for Indigenous Supplies	Vendor's Confirmation / Comments
1	Bid should be submitted in Two Parts . 1. Techno-commercial Bid (Part-I) and 2. Price Bid (Part-II) in a separate sealed cover and both the covers must be placed in a Third Cover and Sealed. Our Enquiry No., Enq. Date & Enq. Due date must be written on all Three covers	
2	Technical confirmation to BHEL's Specification shall be furnished. If needed additional sheets shall be used.	
3	Prices shall be quoted item wise only.	
4	Delivery INCO TERMS- Price quoted -FOR BHEL TRICHY, STORES or ex- WORKS Basis or, FOR WORKS (DESPATCHING STATION) In case of EX works / FOR WORKS basis, indicate the Despatching station. Prices shall be quoted on "FIRM PRICE" basis only.	
5	Validity of offer shall be for a minimum period of 120 days from the date of Tender opening	
6	Delivery period from the date of Letter of Intent / Purchase order	
7	Liquidated damages shall be 0.5% of the total order value per week or part thereof subject to a maximum of 10% of the total order value. For staggered delivery schedule, LD shall be 0.5% of the undelivered portion per week of the delay or part thereof subject to a maximum of 10% of the total order value. Any deviation from the above LD clause, loading will be applied to the extent to which it is not agreed by the bidder (at offered value).	
8	Payment term for supply portion: Payment term is 100% direct payment after 45 days from the date of receipt and acceptance of materials. Note: Only Direct Payment after goods receipt & acceptance will be accepted .Above payment term acceptance is essential for consideration of your offer Any deviation in the above payment term will attract loading as mentioned below. "Base rate of SBI (as applicable on the date of bid opening. Techno-commercial bid opening in case of two part bids) + 6% shall be considered for loading for the period of relaxation sought by bidders. Payment through Bank is not preferred. In case of Payment through Bank is opted by Supplier, BHEL prefers documents submission through bank with copy of LR and door delivery of Goods to Stores with Consignee copy attached. In this case Loading will be 3% on the offered value. Offers of indigenous Suppliers with payment terms as <u>LC/Advance Payment are liable for rejection.</u> Important Note: BHEL will consider the ranking after the loading is applied as referred vide Sl. No. 7& 8 above wherever deviations are observed.	
9	Following Risk Purchase clause shall be applicable: The purchaser at his option will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or dispatch within the time stipulated or if the same were not available, the best and the nearest available substitute therefore. The supplier shall be liable for any loss which the Purchaser may sustain by reason of such risk purchases.	
10	Erection / commissioning: (if applicable only) Erection / commissioning charges if any has been mentioned in the offer or else confirmation that Erection / commissioning shall be done at free of cost is available in the offer.	
11	The equipment shall be guaranteed as per tender condition from the date of receipt & acceptance./(commissioning (commissioning date ,if applicable as per tender condition) Normally No deviation permitted and the <u>deviated offers are liable for rejection.</u>	

COMMERCIAL TERMS& CONDITIONS

ANNEXURE-III(m)

12	Equipment will be inspected at vendor’s works prior to dispatch if applicable. However final inspection and acceptance of equipment will be after installation at BHEL, Trichy, Tamilnadu.	
13	The vendor shall provide necessary drawings, Test Certificates and Operating Maintenance Manuals etc., as called for in the Technical Specification, in the required number of copies at no extra cost.	
14	Any warranty replacement during warranty period shall be supplied free of charge on FOR BHEL, Trichy, Tamilnadu basis.	
15	Performance Bank Guarantee, if applicable as per tender condition. Normally No deviation permitted and the <u>deviated offers are liable for rejection.</u>	
OTHER DETAILS REQUIRED		
16	% of Excise Duty with cess	
17	% of TAX (VAT) (TNGST with FORM-17)	
18	% of TAX (VAT) without form	
19	% of TAX (CST) (CST with C-FORM)	
20	% of TAX (CST) without form	
21	Packing & Forwarding Charges (in % only)	
22	Freight& transit insurance charges, if any(in % only) Freight charges from Dispatching station to BHEL, Tiruchirapalli (Note: If the delivery terms is Ex Works the materials has to be sent through BHEL approved carrier only ,in this case the freight will be borne by BHEL)	
23	Approximate Net weight of the total consignment	
24	Approximate Gross weight of the total consignment	
25	Approximate Dimensions of the Consignment	
26	Name of the contact person	
27	Land Line Number	
28	Fax Number	
29	Mobile Number	
30	E-mail ID	
31	PAN No.	
32	CST No.	TIN No.

- a) It is confirmed that all the terms and conditions stipulated in the Enquiry have been fully understood by us and all clarifications & details have been obtained.
- b) Applicable % of ED, Sales Tax -CST or VAT, Service Tax), Freight, Insurance and Installation and Commissioning Charges etc., are indicated in offer.

Full postal Address:

Signature & Office Seal of the vendor

Note:-

Your specific acceptances to our Payment terms, LD & Risk Purchase (RP) Clause are essential for consideration of your offer. Otherwise your offer is liable for rejection.
No row shall be left blank. Please indicate NA, in case the item is “not applicable