



ISG, Bangalore

TENDER Ref: 77/09/6149/NSA

Date: 08-08-2009

Notice inviting Tender for Procurement of Measuring & Testing instruments for 4 x 100 MW Koteswar Hydro Electric Project. - BOP

1	Tender inviting Officer :	S. Mani/Sr DGM (BG-II, II & IV) Bharat Heavy Electricals Ltd. Industrial Systems Group P.B. No. 1249, IISc Post Malleswaram BANGALORE 560 012
2	Scope of work :	<ul style="list-style-type: none"> Supply of Measuring and Testing Instruments. <p>Vendors can quote for all or any of the Instruments as per scope of supply with item wise unit prices.</p>
3	Tender document available place :	BHEL web site - http://www.bhelisg.com ; http://www.bhel.com and Government web site http://tenders.gov.in
4	Due date and time for submission of tender	24-08-2009 by 11.00 AM
5	Place of submission of tender :	ISG Tender box placed at the Reception of ISG & EPD at the following address: Bharat Heavy Electricals Limited Industrial Systems Group Opp. to Prof. CNR Rao Circle Malleswaram BANGALORE 560 012
6	Place of tender opening	Technical bid will be opened on 24-08--2009 at 3.00 PM at BHEL/ISG
7	Qualification criteria	AS PER ANNEXURE – 1
8	Commercial Terms & Conditions	AS PER ANNEXURE – 2

9 Registration of the Bidder:

The bidders, who are not already registered with BHEL/ISG, shall include the following information and documents with their bids and they should get registered as the Vendor. Vendor registration forms can be down loaded from BHEL/ISG web site, namely,

- I. Copies of original documents defining the constituent local status, place of registration, and principal place of business.
- II. Total monetary value of turnover of a firm, each of the last three years.
- III. Major Project executed in the last Three years.
- IV. Qualification & Experience in case of Indian Agency:



ISG, Bangalore

TENDER Ref: 77/09/6149/NSA

Date: 08-08-2009

**Notice inviting Tender for Procurement of Measuring & Testing instruments for
4 x 100 MW Koteshwar Hydro Electric Project. - BOP**

Reports of the financial standing such as profit and loss account, balance sheet, information regarding any reputation in which the bidder is involved.

10 Amendment of the bidding documents:

Before the dead-line of submission of bids, the Employer may modify the bidding documents by issuing addendum.

Any addendum such issued carry part of the bidding documents and this will be available at the web site from where the original documents have been received /Downloaded by the bidder.

11 Language of the tender Submission of bids : Only in English

12 Sealing & marking of bids:

The tender shall be submitted for each items in Two parts, Part-I , & Part- II
Each shall be placed in an independent sealed envelope, each part shall be labelled as follows:

Part-I:

Qualifying Requirement, Techno-Commercial Tender Envelope

Enquiry No. : 77/09/6149 /NSA

Specification No.: IS-1-02-2019/049

Due date & time: 24-08-2009 by 11.00 AM

This envelope shall consist of the following:

Qualifying Requirement

1. Covering Letter
2. Qualification documents mentioned in this NIT/ addendum.
3. Documentary evidence of fulfilment of eligibility criteria.
4. Latest income tax clearance certificate and sales tax clearance certificate.
5. Duly filled in vendor registration forms with supporting Documents for Vendor Registration with BHEL/ISG, for the bidders, who are not already registered with BHEL/ISG.
6. Techno – commercial & Price bids of vendors qualifying with above criteria only will be opened.



ISG, Bangalore

TENDER Ref: 77/09/6149/NSA

Date: 08-08-2009

**Notice inviting Tender for Procurement of Measuring & Testing instruments for
4 x 100 MW Koteshwar Hydro Electric Project. - BOP**

Techno-Commercial

- 1) Declaration of the Tenderer that this tender is without any technical and commercial deviations and if the deviations are there, they are as mentioned in the deviation format as per Specification.
- 2) The complete tender document available on the web site shall be signed by the authorised signatory and should be enclosed in this cover.
- 3) Full technical description of the items and services proposed by the Tenderer.
- 4) Necessary catalogues, technical brochures and list of items which shall be part of the scope of this tie up.
- 5) Details of manpower and Organization who execute this tie- up.
- 6) Work methodology and plan.
- 7) Confirmation of performance guarantee and liability period as mentioned in the tender.
- 8) Confirmation of techno-commercial terms and conditions.
- 9) Any other technical details.
- 10) The technical tender envelope shall not contain schedule of price or any other price information. Any indication either direct or indirect shall cause outright disqualification of the tender document.
- 11) The un-priced bid confirming quoting as per BOM,

Part-II

Price envelope

Enquiry No. : 77/09/6149/NSA

Specification No.: IS-1-02-2019/049

Due date & time: Shall be informed later to the vendors whose techno commercial offers have been accepted.

Price format as enclosed in the tender which are duly filled in and signed.

Part-I & Part – II shall be submitted together on the prescribed date mentioned in the web site.

PRICE SCHEDULE – KOTESWAR INSTRUMENTS ANNEX -II

Sl. No	Description	Unit	Qty	Unit Price	Total Ex-works/Godown Price excluding excise/taxes	Total Excise duty @	CST against form "C" @	Freight	Service tax	Total value (Rs.)
A	General Equipment									
1	Universal vices for bench mounting with jaws width of 120 mm and depth of 120 mm	Sets	4							
2	Electronic tools (consisting of mini pliers, mini-screw drivers, etc)	Sets	4							
3	Cable-shoe pressing pliers, 1.5mmSq - 10mm Sq.	Sets	2							
4	Spirit levels (300mm)	No's	2							
B	Accessories									
1	Reference and warning plates	Sets	4							
2	L.V. Short circuiting device 25 Sq. mm, CU	Sets	4							
3	Voltage testers 500 V	Nos	10							
C	Measuring device									
1	D.C. insulation testers (Megger) (As per Technical Specification enclosed)	Nos	3							
2	NIL									
3	A.C.motorized insulation testers (Meggar) (As per Technical Specification enclosed)	Nos	3							
4	Portable universal bridge As per Technical Specification enclosed	No.	1							
5	Portable Power measuring case (As per Technical Specification enclosed)	Nos	1							
6	Digital multi meter for A.C & D.C (As per Technical Specification enclosed)	Nos	5							
7	Analog multi meter for A.C & D.C (As per Technical Specification enclosed)	Nos	5							
8	Lux meter (As per Technical Specification enclosed)	Nos	2							
9	Decade resistors with rotary switches (As per Technical Specification enclosed)	Sets	2							
10	Precision multiple decade resistors with rotary switches for A.C and D.C current (As per Technical Specification enclosed)	Sets	2							
11	Laboratory connection leads (As per Technical Specification enclosed)	lot	1							
12	Constant current supply units (As per Technical Specification enclosed)	No	2							
13	1 No Voltmeter & 1 No. Ammeter and electronic overload protection. Rated output 80VA, for a short time (10s) 120VA (As per Technical Specification enclosed)	No	1							
14	Toroidal transformers, encapsulated , single phase type (As per Technical Specification enclosed)	Nos	2							
15	Toroidal transformers, encapsulated , three phase type (As per Technical Specification enclosed)	Nos	2							
16	Universal digital voltmeter (high ohmic) (As per Technical Specification enclosed)	Nos	1							
17	Universal Instrument , high ohmic (with amplifier) for A.C & D.C (As per Technical Specification enclosed)	No	1							
18	Phase-sequence indicators (As per Technical Specification enclosed)	Nos	5							
19	Portable power factor (cos Ø) measuring instrument (As per Technical Specification enclosed)	No	1							
20	Portable needle frequency meter (As per Technical Specification enclosed)	Nos	2							
21	Portable temperature measuring instrument with sens (As per Technical Specification enclosed)	Nos	2							

RECOMMENDED SPARES FOR THE BELOW SAID INSTRUMENTS

[illegible]

11	Constant current supply units SPARES IF ANY KINDLY SPECIFY BELOW								
12	1 No Voltmeter & 1 No. Ammeter and electronic overload SPARES IF ANY KINDLY SPECIFY BELOW								
13	Toroidal transformers, encapsulated , single phase type SPARES IF ANY KINDLY SPECIFY BELOW								
14	Toroidal transformers, encapsulated , three phase type SPARES IF ANY KINDLY SPECIFY BELOW								
15	Universal digital voltmeter SPARES IF ANY KINDLY SPECIFY BELOW								
16	Universal Instrument , high ohmic SPARES IF ANY KINDLY SPECIFY BELOW								
17	Phase-sequence indicatorsn SPARES IF ANY KINDLY SPECIFY BELOW								
18	Portable power factor ($\cos \phi$) measuring instrument SPARES IF ANY KINDLY SPECIFY BELOW								
19	Portable needle frequency meter SPARES IF ANY KINDLY SPECIFY BELOW								
20	Portable temperature measuring instrument with sensor and batteries : SPARES IF ANY KINDLY SPECIFY BELOW								
21	Portable sound level measuring instrument, microphone with linear characteristic in the range of 20 HZ to 8 KHz SPARES IF ANY KINDLY SPECIFY BELOW								
22	Stop -watch with three separate scales SPARES IF ANY KINDLY SPECIFY BELOW								
23	Hook-on volt -ammeters SPARES IF ANY KINDLY SPECIFY BELOW								
24	Hook-on volt-ammeters SPARES IF ANY KINDLY SPECIFY BELOW								
25	Portable vibration meter SPARES IF ANY KINDLY SPECIFY BELOW								

43	Portable Hygrometers SPARES IF ANY KINDLY SPECIFY BELOW								
44	Portable battery load unit SPARES IF ANY KINDLY SPECIFY BELOW								
45	High voltage detector, range upto 420 KV SPARES IF ANY KINDLY SPECIFY BELOW								
46	Portable partial discharge detector for transformer SPARES IF ANY KINDLY SPECIFY BELOW								
47	Portable vacuume tester SPARES IF ANY KINDLY SPECIFY BELOW								
48	Portable dissolved gas analyser SPARES IF ANY KINDLY SPECIFY BELOW								
49	Portable breaker analyzer testing set SPARES IF ANY KINDLY SPECIFY BELOW								

22	Portable sound level measuring instrument, microphone (As per Technical Specification enclosed)	No	1								
23	Digital mechanical revolution counters (As per Technical Specification enclosed)	Nos	2								
24	Stop -watch with three separate scales (As per Technical Specification enclosed)	Nos	3								
25	Hook-on volt-ammeters (As per Technical Specification enclosed)	Nos	2								
26	Hook-on volt-ammeters (As per Technical Specification enclosed)	Nos	2								
27	Portable vibration meter (As per Technical Specification enclosed)	No	1								
28	Pocket ohm and capacitance meter (As per Technical Specification enclosed)	Nos	2	2	2	2	2	2	2	2	2
29	Measuring Instrument for testing of the safety measures (As per Technical Specification enclosed)	Nos	1								
30	Portable earthing resistance measuring device (As per Technical Specification enclosed)	No	1								
31	portable universal recorder (As per Technical Specification enclosed)	No	1								
32	Stroboscope (As per Technical Specification enclosed)	No	1								
33	Portable storage type cathode ray Oscilloscope for chop (As per Technical Specification enclosed)	No	1								
34	portable voltage source with varying frequency output for (As per Technical Specification enclosed)	No	1								
35	laboratory cable 1 x 1.5mm ² CU (As per Technical Specification enclosed)	mtrs	100								
36	Banana plugs (As per Technical Specification enclosed)	Nos	50								
37	Osillographic recorder of the portable types. (As per Technical Specification enclosed)	No	1								
38	Micro-Ohm meter of the portable type, (As per Technical Specification enclosed)	No	1								
39	2 point recorder with Pre-memory (As per Technical Specification enclosed)	No	1								
40	2 point recorder for mA and mV (As per Technical Specification enclosed)	Nos	4								
41	Pressure transmitter (As per Technical Specification enclosed)	Nos	2								
42	Differential pressure transmitter (As per Technical Specification enclosed)	No	1								
43	Ammeter with standard range class 0.5 (As per Technical Specification enclosed)	Nos	5								
44	Voltmeter with standard range class 0.5 (As per Technical Specification enclosed)	Nos	5								
45	Resistor measurement instruments (bridge principal) (As per Technical Specification enclosed)	Nos	2								
46	Portable temperature instrument (As per Technical Specification enclosed)	Nos	5								
47	Portable Hygrometers (As per Technical Specification enclosed)	Nos	5								
48	Portable drilling machine with support (As per Technical Specification enclosed)	Nos	2								
49	Tools (As per Technical Specification enclosed)	Sets	10								
50	Rheostats of appropriate rating for testing purposes (As per Technical Specification enclosed)	Set	1								
51	Portable battery load unit (As per Technical Specification enclosed)	No	1								
52	High voltage detector, range upto 420 KV (As per Technical Specification enclosed)	No	1								
53	Portable partial discharge detector for transformer (As per Technical Specification enclosed)	No	1								
54	Portable vacuum tester (As per Technical Specification enclosed)	No	1								
55	Portable dissolved gas analyser (As per Technical Specification enclosed)	No	1								
56	Portable breaker analyzer testing set (As per Technical Specification enclosed)	No	1								