



**West Bengal Electricity Regulatory Commission
FD-415A, Poura Bhawan (3rd Floor), Sector-III
Bidhannagar, Kolkata-700106
Ph.No. (033) 2359 3397**

No. WBERC/B-44/1/0333

Dated. the 26th June, 2009

**NOTICE INVITING EXPRESSION OF INTEREST TO PROVIDE SERVICES OF
INDEPENDENT THIRD PARTY METER TESTING**

The West Bengal Electricity Regulatory Commission (referred to as the WBERC hereinafter), a State Commission for the purpose of the Electricity Act 2003 invites expression of interest from interested and competent vendors to provide services of Independent Third-party Meter Testing for the low and medium voltage consumers of the State of West Bengal for offsite and onsite testing of new, defective, disputed energy meters as well as periodic testing of LT whole current energy meters of electromagnetic or static type, as the case may be.

The offers to be received against this EOI shall be scrutinized and short listed in the light of credential of the vendors. Formal Tender Notice containing all the details, Terms & Conditions will be issued only to such short listed vendors.

For details, please visit our web site at www.wberc.net and see "Notice on Expression of Interest" or contact the office of the WBERC, at the above address.

Any change shall be notified only through Website. Vendors may see website for updates.

Last date for submission of EOI is 31st July, 2009.

Place : Kolkata

Dated : 26th June, 2009

Secretary



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Dated. the 26th June, 2009

**NOTICE INVITING EXPRESSION OF INTEREST TO PROVIDE SERVICES OF
INDEPENDENT THIRD PARTY METER TESTING**

The West Bengal Electricity Regulatory Commission (referred to as the WBERC hereinafter) is a body duly constituted by the Government of West Bengal in 1999 in pursuance of the provisions of Section 17 of the Electricity Regulatory Commissions Act 1998. The said Act, along with the Indian Electricity Act, 1910 and the Electricity (Supply) Act, 1948 was repealed by dint of Section 185 of the Electricity Act 2003 (referred to as the Act hereafter) which came into force with effect from 10th June 2003. The first proviso of Section 82(1) of the Electricity Act 2003 has ensured continuity of the Commission and functioning for the purposes of the Electricity Act 2003.

WBERC invites expression of interest from interested and competent vendors to provide services of Independent Third-party Meter Testing (referred to as ITMT hereafter) for single and three phase meters for the low and medium voltage consumers of the State of West Bengal for testing of new, defective, disputed and burnt energy meters and periodic testing of LT whole current energy meters as the case may be.

Objective:

- i) To build confidence among low and medium voltage consumers of the State of West Bengal in the performance and accuracy of:
 - a) Meter(s) purchased by the distribution licensee or consumer.
 - b) Meter testing carried out by the distribution licensee.
 - c) Meter(s) removed from consumer's premises for any dispute/defect.
- ii) To conduct and carry out testing at laboratory and/or site, on the request of either party, of LT whole current energy meter(s) for sorting out disputes between consumer and licensee

Salient features:-

Service Area :- Throughout Geographical domain of West Bengal



Scope of services: - Off site and On site Testing of LT whole current energy meters up to the accuracy class 1 or inferior.

The standard reference meter of accuracy class better than the meter under test shall be used for site testing

Operation Hour: Selected time of day as specified by WBERC.

Anticipated manning pattern: - For on site unit: 3 nos. of testing personnel (max.) including one group leader

Eligibility criteria: - The vendor must fulfill

a) Organizational requirements:-

- The vendor shall be an independent organization. They shall have sufficient qualified and experienced manpower for the service. They shall provide qualification and experience details of key personnel in their organization as per Annex-A.
- The vendor shall provide organization structure to be used for above service.
- The vendor shall have valid PF, ESI, Service Tax, PAN & P.Tax Registration No.
- The vendor shall comply with all statutory obligations and provisions as contained in relevant labour Acts.
- They shall have the capacity of on site testing at any location of West Bengal.
- They shall have the capacity of testing 30 meters per day.

b) Quality requirements:-

- The quality standard of vendor shall be accredited by National Accreditation Board for testing and Calibration Laboratories (NABL)/ IEC 17025 accredited calibration laboratories.
- Testing equipments of the vendor shall be calibrated from independent accredited NABL labs/ IEC 17025 accredited calibration laboratories.
- Scope of above accreditation shall cover all or part of the tests required for each services listed at Annexure-B



c) Technical requirements:-

Off site testing:

- The best measurement accuracy of the vendor as accredited by NABL shall be 0.2% or better for active and reactive energy using electronic test standards
- The vendor shall be able to test both single phase and three phase, active and reactive energy meters with voltage range from 230V (phase to neutral) to 415V and current range for error measurements from 100mA to 100A at all power factors as required by relevant IS. The power source may be one or more to meet the prescribed capacity.
- Vendor shall be equipped with harmonic free, stable adjustable power source/ phantom set and reference standard capable to test minimum starting currents of the meter.

On site testing:

- The best measurement accuracy of vendor as accredited by NABL shall be 0.5% or better for active and reactive energy using electronic test standards.
- The vendor shall be able to test through one or more reference standard and phantom test set, both single phase and three phase, active and reactive energy meters with voltage range 230V (phase to neutral) – 415V and current range for error measurements from 100mA to 100A at all power factors as required by relevant IS. The power source may be one or more to meet the prescribed capacity.
- The vendor shall be equipped with harmonic free stable power source and reference standard capable to test minimum starting currents of the meter.
- The vendor shall maintain measurement traceability to the unit of National Physical Laboratory/ ERTL of West Bengal or a laboratory recognized by International Laboratory Accreditation cooperation (ILAC)/ NABL Accredited test laboratory having unit at West Bengal / IEC 17025 accredited calibration laboratories.



d) Reporting requirements:-

The vendor shall supply, after testing, the test certificate to the person requesting for test and to other concerned persons. Certificate shall contain full test results.

Where licensee/ WBERC desires, the testing may be witnessed by the person(s) authorized by licensee/ WBERC and consumer or his representative or consumer organization or any person indicated by WBERC.

Provided that where testing is conducted on account of dispute on the accuracy/ operation of meter between consumer and licensee, the breaking of seals and testing shall be conducted in the presence of the representatives of licensee and concerned consumers and test certificate (indicating errors within or beyond permissible limits) will be supplied to the parties.

Provided that before conducting tests, testing methodology will be conveyed and explained to the parties and relevant Regulation of West Bengal Electricity Regulatory Commission (Standards of Performance of Distribution Licensees Relating to Consumer Services) Regulations, 2005 & West Bengal Electricity Regulatory Commission (Electricity Supply Code) Regulations, 2007/ Central Electricity Authority Regulation, 2004 on Installation and Operation of Meters in this respect to be strictly adhered to.

Tests records shall contain detailed identification of the meter tested and condition of meter being tested and its seals.

Except for on site testing, delivery of meter at the test laboratory and back shall be the responsibility of the vendor. The requisitioner shall provide necessary assistance to the vendor in arranging dispatch before and after testing. The burnt meter after testing shall be returned to the owner.

The vendor shall keep records of all tests conducted under his authorization and furnish statistics to WBERC on quarterly basis in the formats as under

Type of meter	Meters		
	Disputed	New	Periodical
LT whole current meter number			

e) Service requirements:-

The vendor shall be able to provide any or all of the following services at its permanent laboratory and/or on site



Off Site

- Routine Testing of old and or removed whole current LT (single and three phase) energy meter(s) of Class 1 or better
- Acceptance test(s) as per requirement of licensee/ consumer whole current LT Meters of Class 1 or better
- Routine Testing of new purchased whole current LT (single and three phase) meters of Class 1 or better

On Site

- Testing of whole current LT (single and three phase) meters for accuracy requirement as per Annexure-B of Class 1 or better.

The WBERC reserves the right to vary, amend or modify the Terms of Reference and the commercial terms & conditions, as and when it deems fit, in the interest of ensuring proper implementation of the provisions of the National Electricity Policy and the Electricity Act 2003. Such amendments and additions shall be compulsory on both ITMT and licensee.

The offers to be received against this EOI shall be scrutinized and short listed in the light of credential of the vendors. Formal Tender Notice containing all the detail Terms & Conditions will be issued only to the selected vendors.

Self declaration by the vendors, unless otherwise explicitly mentioned anywhere in this document, shall not be given any cognizance. No credential of vendors shall be accepted by WBERC until & unless those are authenticated with supporting documents.

Short listed vendors may like to attend a pre-submission meeting at a date at the office of WBERC for having any sort of clarification towards submission of bid documents which will be intimated to them by the Commission.

Decision of WBERC on all matters shall be final & binding on the vendors

WBERC shall have right to terminate the order any time due to unsatisfactory performance of the vendor.

Any changes in any document, if any, shall be made only through Website. As such vendors are requested to go through www.wberc.net for remaining updated with relevant information.



Interested vendors may submit their offer in a sealed cover superscribed with the words “Expression of Interest – Third Party Meter Testing” along with valid documents / papers in support of their credibility to the Secretary, WBERC on any working day [except Saturday, Sunday and holiday] between 11:00 hrs and 14:00 hrs latest by 31st July, 2009.

Place : Kolkata

Dated : 26th June, 2009

Secretary



Qualification and Experience of Key Staff

Name

Date of Birth

Sex

Position held

Qualification

- Academic(Provide name of degree/diploma, name of the Institution, Year of passing, Specialization)
- Professional
- Specialized training
- Work experience
- Skill



Annexure-B

Following Acceptance/ Routine test to be carried out by vendor on meters as per IS Standards.

- Tests on meters as per IS 13779 with latest amendments

Acceptance Test (Clause 12.2.2.1 & Annexure-H)	Routine Test (Clause 12.2.3)
1. Tests of insulation properties a) AC voltage tests b) Insulation resistance test	1. Tests on insulation properties a) AC voltage tests b) Insulation test
2. Tests of accuracy requirements a) Test of meter constant b) Test of starting condition c) Test of no-load condition d) Test of limits of error and interpretation of test results and adjustment (if required) e) Test for repeatability of error	2. Tests of accuracy requirements a) Test of starting condition b) Test of no-load condition c) Test of limits of error
3. Tests of electrical requirements a) Test of power consumption	

Other Services

- Tamper and fraud detection test as per CBIP Report 88
- Determination of cause of defect
- Test on effect of Magnetic Interference
- Testing of Seals
- Software functioning test

Essential Instruments as per IS 12346(1988) read with its latest amendments and to be used by the vendor (some of them are detailed below) shall have valid calibration certificates issued by NABL accredited Calibration Laboratory

1. Portable Phantom Load source (120A) with Harmonic Generation
2. Semi-automatic test bench for energy meter testing
3. Reference Energy Meter with accessories
4. Multi-voltage isolation transformer
5. AC high voltage tester & IR tester
6. Multi-meter, Digital Clock, Clamp on ammeter (Digital)
7. Laptop, Printer and other necessary, equipments if any required for testing mentioned above.