

# West Bengal State Electricity Distribution Company Limited

(A Government of West Bengal Enterprise)



WBSEDCL

## Zonal Office Siliguri

2<sup>nd</sup> Mile, Sevoke Road, Siliguri, Darjeeling, Pin – 734 001

Tel: 0353-2540432, 2542747, 2541401 (Fax) E-mail: [zm.siliguri@wbasedcl.in](mailto:zm.siliguri@wbasedcl.in)

Memo no: ZM/ZOS/IV-14/TENDER/ 2191  
TENDER NOTICE NO: ZM/SLG/TENDER/2024-25/0-7

Dated: 6/6/24

Dated: 06.06.2024

Sealed item rate tender is invited by the Zonal Manager, Zonal Office, Siliguri from the eligible, bona-fide and suppliers under different establishments of WBSEDCL/WBSETCL / other Govt. organization and undertaking etc for the work "Supply and delivery of one Digital Earth Clamp Tester (Technical Specification as per Annexure-A) for Zonal Testing Unit under Zonal Office, Siliguri, Power House Campus 2nd Mile, Sevoke Road, Siliguri." as per Terms and Condition mentioned hereunder.

Sl. No.	Description of work	Estimated Amount (In Rs.)	Completion time	Cost of tender paper (in Rs )	Earnest money (In Rs.)
01.	Supply and delivery of one Digital Earth Clamp Tester (Technical Specification as per Annexure-A) for Zonal Testing Unit under Zonal Office, Siliguri, Power House Campus 2nd Mile, Sevoke Road, Siliguri	Item rate	30 days	₹ 250.00 plus GST@18% i.e. 295.00	1969/- (In the form of Bank draft / Pay order / Bankers' Cheque drawn in favour of "W.B.S.E.D.C.L." on any scheduled Bank payable at "Siliguri")

### Terms and Condition:

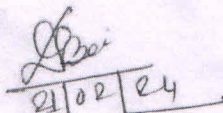
- Detailed tender papers will be available from the abovementioned office on any working day except Saturday and Sunday between 11.00 hrs. to 14.00 hrs. on production of Goods and Service Tax Registration no, PAN Card, Valid trade license, Professional Tax Receipt challan, IT return for last three financial years and **satisfactory records of similar nature of works on demand** and on payment of tender cost (non- refundable) by bank draft along with GST certificate.
- Application for purchase of tender paper will be received up to 12:00 hrs. On 24.06.2024. The last date of issue of tender paper is 28.06.2024 upto 17.00hrs. The tender will be received upto 14:00 hrs on or before 05.07.2024 and will be opened on 09.07.2024 at 15.00 hrs in presence of the attending tenderers. No tender will be sent by post.**
- Rate:** The rate should be quoted inclusive of delivery charges but excluding GST. The rate is Firm for entire delivery period. No escalation of rate, if any, may be considered except in the event of any new taxes / levies making into force due to Govt. Legislation/notification or by any of the statutory body, the same will become applicable to the concerned party from the effective date.
- Validity of bid:** Bids shall remain valid for a period of **120(one hundred twenty)** days from the next day of opening of the tender.
- Loss & Damage:** Timely execution of delivery of the materials is the essence of the contract. Liquidated damages of ½ % per week of delay or part thereof subject to maximum of 10 % of the ordered value will be charged on the bill for non completion of work in time.
- Security Deposit:** Security Deposit @7.5% shall be deducted from the bill value along with which the EMD of 2.5% of contract price shall be converted in tune of total of 10% of contract price as Security Deposit, which shall be refunded after satisfactory completion of defect liability period of **Five years**, which shall be reckoned from date of completion of work. In case L1 bidder submit quotes higher than the estimated amount, additional money to complete the tune of 2.5% EMD value shall be deposited within 7days after finalization of tender.
- Warranty period should be at least **60** months
- Payment:** 100 % (hundred percent) payment against GST invoice in triplicate will be made after making deductions, if any. Bills shall be submitted along with Store Receipt Voucher, original receipted challan, GST Invoice ( Original for buyer) with commissioning report along with Guarantee certificate Consignment note/e-way bill as per GST Statute and necessary certificate from the SE(E)/DE(E), Zonal Testing, Siliguri and other relevant documents reference to be indicated in the Bill. The Bills completed with all documents will have to be submitted by the successful bidder to the Paying Officer.
- Supervising Officer:** The SE (E), Siliguri Zonal Testing Unit, WBSEDCL.
- Paying Officer:** The Sr. Manager (F&A), Zonal Office Siliguri, WBSEDCL.
- Cancellation/Termination:** WBSEDCL reserves the right to cancel/terminate the tender without assigning any reason, whatsoever. TDS will be applicable as per prevailing norms assigning any reasons whatsoever.

  
06/06/2024  
Zonal Manager, Zonal Office, Siliguri



## TECHNICAL SPECIFICATIONS FOR DIGITAL EARTH CLAMP TESTER

- **SCOPE:** Hand held **DIGITAL EARTH CLAMP TESTER** suitable for measurement of earth resistance and leakage current at electrical ground rod and grid of Electrical Sub-Stations and Line.
- **Climatic Conditions:** The Test Kit should be suitable for satisfactory operation under the following environmental conditions.
  1. Operating Temperature:  $-10^{\circ}\text{C}$  to  $50^{\circ}\text{C}$ .
  2. Storage Temperature:  $-30^{\circ}\text{C}$  to  $70^{\circ}\text{C}$
  3. Relative Humidity:  $< 90\%$  RH, Non-Condensing.
- **General Specification:** Clamp meter shall be designed and constructed in such a way so as to easy to operate compact and rugged design, designed for user safety. However, the following application should be ensured:
  1. To measure Earth Resistance and leakage current at electrical ground rod & grid.
  2. For testing quality of grounding without disconnecting the ground rod under test.
  3. Use on Distribution lines grounding.
  4. To find the resistance of earth pit.
- **Features:**
  1. USB interface for monitoring, uploading, analyzing & printing of data
  2. Memory storage capability of 99 records.
  3. Extended resistance range up to  $1500\Omega$ .
  4. AC leakage current measurement up to 30 A.
  5. Alarm setting feature with selection range available for resistance and current.
  6. Self-test and calibration facility.
  7. Data hold feature.
  8. Low Battery Indication.
  9. Jaw open indication.
  10. Soft touch keys.
  11. Rugged casing and easy to use.
- **Technical Description:** The Digital earth clamp tester shall be portable equipment which is handy and simple to use and capable of operating on the replaceable Battery supplied for considerable long duration of time at a stretch. The equipment shall have following specifications.
  1. Display : 4 digit LCD , Backlit LCD with annunciations.
  2. Resistance Measurement Range :  $0.01\Omega$  to  $1500\Omega$
  3. Current Measurement Range : 0 to 30 A
  4. Memory Storage Facility : 99 records
  5. Computer Interfacing : RS 232 for uploading the stored data and analysing.
  6. Single Measurement Time : 0.5 Second
  7. Resistance Measurement Frequency:  $> 1\text{ KHz}$
  8. Current measurement Frequency : 50 / 60 Hz
  9. Sound & Light annunciator : Beep sound, Flashing symbol, 'AL' key to turn on-off & setting the sound & Light alarm
  10. Selection range of resistance for setting alarm value :  $1\Omega - 199\Omega$
  11. Selection range of current for setting alarm value : 1mA - 499 mA
  12. Protection Level : Double Insulation

  
21/02/24  
Superintending Engineer (E)  
Siliguri Zonal Testing  
Zonal Office, Siliguri  
WBSEDCL



13.External Magnetic Field	:	< 40 A/m
14.External Electric Field	:	< 1V/m
15.Power Source	:	6VDC (4x1.5V LR6 AA alkaline battery)
16.Auto Power Off	:	Approx 5 minutes
17.Environmental	:	Working Temperature:-10°C to 55°C Storage Temperature: -20°C to 60°C Relative Humidity : 10% to 90%
18.Jaw Size	:	65mm X 32mm
19.Dimension (L x B x H)	:	285mm x 90mm x 66mm(Long elliptical jaw) 260mm x 90mm x 66mm(Round jaw)
20.Net Weight (Including Batteries)	:	1160g. (Long elliptical jaw) 1120g. (Round jaw)

• **Standard:**

1. Instrument safety: IEC /EN 61010-1, IEC/EN6010-2-032
2. Instrument: Double Insulation, Pollution degree: class II Over-Voltage category: CATIII 150V to ground, Max 20A Degrees of protection.
3. IP 30, Group III equipment as per EN 60529Ed 92IK04, as per EN 51002Ed 95.

• **Technical specification**

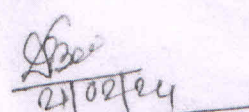
Parameter	Survey Scope	Resolving Power	Accuracy
Resistance	0.010-0.099 ( $\Omega$ )	0.001 ( $\Omega$ )	$\pm (1\%+0.01\Omega)$
	0.10-0.99 ( $\Omega$ )	0.01 ( $\Omega$ )	$\pm (1\%+0.01\Omega)$
	1.0-49.9 ( $\Omega$ )	0.1 ( $\Omega$ )	$\pm (1\%+0.1\Omega)$
	50.0-99.5 ( $\Omega$ )	0.5 ( $\Omega$ )	$\pm (1.5\%+0.5\Omega)$
	100-199 ( $\Omega$ )	1 ( $\Omega$ )	$\pm (2\%+1\Omega)$
	200-395 ( $\Omega$ )	5 ( $\Omega$ )	$\pm (5\%+5\Omega)$
	400-590 ( $\Omega$ )	10 ( $\Omega$ )	$\pm (10\%+10\Omega)$
	600-880 ( $\Omega$ )	20 ( $\Omega$ )	$\pm (20\%+20\Omega)$
	900-1500 ( $\Omega$ )	30 ( $\Omega$ )	$\pm (25\%+30\Omega)$
AC Leakage Current	0 – 9.00 mA	0.05 mA	$\pm (2.5\%+2mA)$
	10 mA-99.0 mA	0.1 mA	$\pm (2.5\%+10mA)$
	100 mA-3000 mA	1 mA	$\pm (2.5\%+20mA)$
	0.30 A-2.99 A	0.01 A	$\pm (2.5\%+0.1A)$
	3.0 A-9.9 A	0.1 A	$\pm (2.5\%+0.5A)$
	10.0 A-30.0 A	0.1 A	$\pm (2.5\%+1A)$

• **Accessories:**

1. User's Manual.
2. Carrying case.
3. Standard Loop Resistance of 5.1 W
4. RS232 Cable
5. Calibration certificate

• **Other Specifications:**

1. Bidder must submit the performance certificate of at least 2 customers who has been using the instrument since last 2 years.
2. Instrument should be calibrated from any NABL accredited laboratory. Calibration results shall comply with specifications.
3. Warranty period: 5 years.
4. Bids will be accepted only after meeting the Technical requirement as per specification on demonstration.

  
 Superintending Engineer (E)  
 Siliguri Zonal Testing  
 Zonal Office, Siliguri  
 WBSEDCL