Sealed quotation / tender are invited office of D.G.M.(T) O&M) (East) , Room No. 102, 220 KV Sub Station Lodhi Road Office Complex, Near C.G.O. Complex, New Delhi- 110 003 from the experienced companies/contractors in relevant business for the following works:-

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Enquiry No.</th>
<th>Name of Work</th>
<th>Estimated Cost(Rs)</th>
<th>Earnest Money Deposit (EMD) (Rs)</th>
<th>Quotation /Tender Fee(Rs)</th>
<th>Work Completion period</th>
<th>Scheduled Date/Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Enquiry No. F.DTL/206/ 2016-17/ M (T) O&amp;M E-2 / Q-17/151 Dt.10.03.2017</td>
<td>Supply of Clamp-on-meter &amp; Digital Insulation tester (upto 1 KV) at 220 KV S/stn. Preet Vihar under Manager (T) O&amp;M E2.</td>
<td>N/A</td>
<td>Rs.800/-</td>
<td>Rs.500/-per document (Non-Refundable)</td>
<td>30 days</td>
<td>14.03.2017 at 10.00 A.M.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>04.04.2017 up to 5:00PM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>14.03.2017 at 10.00 A.M.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>05.04.2017 up to 10:30 A.M</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>05.04.2017 at 11:30 AM</td>
</tr>
</tbody>
</table>

The quotation form & other documents can be obtained from the office of Manager(T) O & M –E-II, 220KV Sub-Station Patparganj, Office Complex, Near Urja Vihar, Mandawali, Delhi-110092.after furnishing a request & requisite amount of fee Rs.500/- non-refundable in the form of Bank Draft / Demand Draft / Pay Order in favour of DELHI TRANSCO LIMITED; payable at Delhi. In case the enquiry document is downloaded from the website then the enquiry document fee should be enclosed with offer by clearly specifying the same on the face of offer envelop. The request for purchasing of quotation document should be made on original letter head of the party and should contain the signature along with seal/stamp of contractor showing his competency as partnership, proprietorship, authorized signatory etc. In case the request is to issue the quotation document to the bearer of the application then the request should contain clearly the name of the bearer and attested/authenticated signature of the bearer of the application.

Contd.2/-
These things should also be clarified while submitting offer and other documents with the offer. In case of any difference in the address in the documents submitted by the contractor then that should also be clarified properly. The quotation will be submitted & opened at Office of D.G.M.(T) O&M) (East), Room No. 102, 220 KV Sub Station Lodhi Road Office Complex, Near C.G.O. Complex, New Delhi- 110 003. Complete Quotation/Tender documents can also be downloaded from the website of DTL http://www.dtl.gov.in.

NOTE:

1. In case the enquiry document is downloaded from the web site then the enquiry document fee should be enclosed with offer, clearly specifying the same on the face of offer envelop.

2. The face of the envelope of quotation/enquiry must have following details, failing which the Quotation shall not be opened/considered & liable to be rejected.
   a) Name of work/supply.
   b) Enquiry No. / Tender No. with Date.
   c) Date of opening.
   d) Details of Earnest money & Quotation/Enquiry document fee, DD/Pay Order No. with Date and Amount., Name of Bank & Branch.
   e) Name and address of the party.
   f) Registration No., if any.
   g) Validity period of quotation must be 120 days from the date of opening.

3. Incomplete quotations are liable to be rejected. Offer must be signed by the contractor with rubber stamp.

4. Rates quoted should be inclusive of all taxes & duties etc.

Other terms and conditions as per Annexure -‘A’ & ‘B’ shall also be applicable.

Manager (T) O&M, E-2
Enquiry No. F.DTL/206/2016-17/M (T) O&M-E2/Q-17/151

Dated: 10.03.2017

Cost of document Rs.500/-

Date of Opening: 05.04.2017

Subject: Supply of Clamp-on-meter & Digital Insulation tester (upto 1 KV) at 220 KV S/stn. Preet Vihar under Manager (T) O&M E2.

It is requested to quote the rates in the following format with terms and conditions mentioned hereunder and as per Annexure-“A”, enclosed herewith in the sealed envelope:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>DESCRIPTION</th>
<th>QTY.</th>
<th>RATE IN RS</th>
<th>AMOUNT IN RS.</th>
</tr>
</thead>
</table>

TOTAL (Exclusive of all taxes & duties)
Add Taxes Applicable as on date (VAT @ 12.5 %)
GRAND TOTAL (Inclusive of all taxes & duties)

NOTE:
1. In case the enquiry document is downloaded from the web site then the enquiry document fee should be enclosed with offer, clearly specifying the same on the face of offer envelop.
2. **The face of the envelope of quotation/enquiry must have following details, failing which the Quotation shall not be opened/considered & liable to be rejected.**
   a) Name of work/supply.
   b) Enquiry No. / Tender No. with Date.
   c) Date of opening.
   d) Details of Earnest money & Quotation/Enquiry document fee, DD/Pay Order No. with Date and Amount., Name of Bank.
   e) Name and address of the party.
   f) Registration No., if any.
   g) Validity period of quotation must be 120 days from the date of opening.
3. Incomplete quotations are liable to be rejected. Offer must be signed by the contractor with rubber stamp.
4. Rates quoted should be inclusive of all taxes & duties etc.
   Other terms and conditions as per Annexure -‘A’ & ‘B’ shall also be applicable.

Manager (T) O&M, E-2
1 **RATES**: The rates quoted shall be firm and including of all taxes, duties etc. The rates should be quoted based on the units specified in words as well as in figures without any cutting, in case of difference of values/rates in figures and words or any confusion it will be constituted to take the rates, which are lowest.

2 Following document should be submitted along with the offer, failing which offer is liable to be rejected.
   a). Copy of Permanent Account No.(PAN).
   b). Copy of TIN No./VAT certificate.
   c). Copy of VAT deposit receipt

3 **Qualification Requirement**: Bidder should submit the copy of Purchase Order copy along with satisfactory performance / completion report of similar supply executed in DTL or other State transmission utility. Similar works means: Supply of Similar items (Electrical testing equipments / Electrical items etc) in DTL / State Transmission utilities/Govt department. Offer submitted without satisfactory completion report and P.O. copy is liable to be rejected.

4 **DELIVERY**: The materials shall have to be delivered within delivery period as mentioned in order at 220KV S/Stn. Preet Vihar without any extra cost, failing which penalty shall be imposed- @ 1% per week subject to Maximum 10% on delayed portion of the order valued.

5 **SECURITY**: The successful tenderer shall have to deposit the security at @ 5% of the total Ex-works price for the proper performance of the contract within ten days of receipt of purchase order failing which a penalty @ 0.05% per week subject to maximum of 2 % shall be imposed.

6 If there is no improvement in proper execution of the order as per terms & conditions of this order, the order shall be cancelled within 15 days with written notice to you and no claim for damage will be entertained.

7 **GUARANTEE**: The materials to be supplied shall be guaranteed for satisfactory operation for 06 months from the date of commissioning or 12 months from the date of supply whichever is earlier.

8 **INSPECTION**: The materials during or after manufacture could be inspected at the works if considered necessary. DTL also reserves the right of getting the material tested for metallurgy at the cost of Bidder if so desired by approving officer.

9 **MATERIAL APPROVAL**: The materials to be supplied shall have to be got approved by respective Asstt. Manager (T) 220KV S/Stn. Patparganj.

10 **PAYMENT**: Payment shall be made as per DTL norms through ECS after receipt and approval of materials & submission of bill by the party.

11 **REJECTED MATERIAL**: The contractor will have to replace/repair free of cost such quantity/quantities, which may not be accepted due to defect or inferior quality/poor workmanship within reasonable period mutually agreed from the date of information in this respect. Rejected materials shall have to be removed within a fortnight from the date of intimation against replacement or refund of payment made, failing which the Deptt. shall have the right to dispose them off in any manner it likes.

12 **ARBITRATION**: If any dispute/question of controversy arises between DTL and contractor relating to the contract/order or any clause or thing contained therein, the dispute shall be referred at the arbitration of G.M.(O&M) or his nominee and the decision of the G.M.(O&M) or his nominee shall be final and binding on both the parties.

13 **QUANTITY VARIATION**: During the execution of the Contract, DTL reserves the right to increase or decrease the quantity of item under the contract but without any change in unit price and other terms & condition. However, such variation shall not be subject to any limitation for the individual items but the total variation in all such items under the contract shall be limited to plus twenty five of minus five percent (+25/-5%) of the Contract Price.

14 **EXEMPTION**: Earnest Money is to be deposited by all tenderers/bidders, whether registered with DGS&D/NSIC/DTL or such bodies except the exempted categories as per the relevant government rules like small scale enterprises etc. Such exempted category bidders claiming E.M.D. exemption shall enclose the verified copy of exemption certificate issued by relevant govt. agency, along with the bid failing which their bid shall liable to be rejected.

Contd……2
15 **INTEREST & REFUND OF EMD:** No interest is payable by DTL on the amount of Earnest Money deposited by the Tenderers/Contractor. Earnest Money is held by DTL till obligations are satisfactorily and completely discharged by the Tenderer/Contractor. The amount of the Earnest Money shall be refunded to the unsuccessful bidders immediately after decision taken by the authority competent to accept the tenders.

16 **BLACK LISTING:** Any Party making post tender development directly or indirectly may be black listed for a period up to 3 years. In case tenderer amends/modifies/revise/withdraws the prices/price structure of the offer without the consent of Delhi Transco Limited, after the tender opening and during the period of validity of their offer (i.e. 120 days), the Earnest Money in full or part deposited by them shall be liable to be forfeited or their offer liable to be rejected. They shall also be debarred from participating in future tenders of DTL for the period ranging from 1 to 5 years and shall be placed under Black List. If the supplier fails to supply the material in full or in part within stipulated delivery period specified in the purchase order of material/equipment is found to be defective or failing of fulfill the Guaranteed Performance of the Contract as specified in the Purchase Order, they shall be debarred or black listed from participating in future tender of DTL for the period ranging from 3 to 5 years.

17 **CONTRACTOR’S REPRESENTATIVE:** The contractor shall depute authorized representative or assign this job to skilled man for execution of the contract, who shall be available for communication during any time, and he shall represent the contractor in his absence & all directions give to him shall be binding on the contractor.

18 **DEDUCTION FROM CONTRACT PRICE (RECOVERIES):** All costs, damages or expenses, which the purchaser may have paid or which under the contract the contractor is liable, are to be deducted and recovered by the purchaser from any money due or becoming due to contractor from the purchaser or otherwise from the contractor by action of law. In the event of recovery of the necessary extent becoming impossible, owing to insufficient security money and otherwise held amounts, the balance due to the purchaser & may be recovered in any way the purchaser may deem fit.

19 **ENTRY PASSES:** All such material to be used by the contractor shall be brought in with proper chalan & similar authentic document which shall be got inspected by Engineer along with material as per security rules in force. Contractor shall be responsible for antecedents of the workmen & for getting gate passes. Gate pass shall be issued to them by Security wing of the plant. No labour below the age of 18 years shall be employed on the work & labour so employed must be able-bodies persons. The right of entry of the contractor & his workmen in the stations will be reserved with DTL.

20 **FORCE MAJEURE:** No liability shall be attached to contractor for non operation of execution of their obligation under this contract as a result of Force Majeure or any other factor beyond the reasonable control of the Management. No liability shall be attached to contractor for any damage due to natural calamities such as Earth vibro meter/Quake, War, Civil Commotion and Willful damage.

21 **PACKING & DESPATCH:** The contractor shall include and provide the strong protection and packing material so as to avoid damage in the transit of suit under proper conditions and shall be responsible for all losses or damages caused or occasioned by any defect in packing. The Contractor shall be responsible to get each consignment properly numbered, marked for handling during transit and clearly addressed to Delhi Transco Limited, New Delhi and safely placed in wagons. For all such consignment which are wrongly address labeled or miscued, the contractor shall bear such demurrage warfare or any other charges which may become due on the consignment received.

22 **PRICE BASIS:** All prices and price components of materials and services under the subject contract shall remain firm during execution of contract and no price variation whatsoever will be allowed on any of the components.

23 **REPLACEMENT OF DEFECTIVE AND REJECTED MATERIAL:** The contractor shall replace free of cost at destination any such quantities of material or any parts thereof, which be found defective due to inferior quality or bad material or workmanship etc. during the guarantee period within 30 days or the intimation to the effect. The material on receipt at purchaser’s office/site shall be verified and inspected by the purchaser. If the material is not found to purchaser’s satisfactions and specifications the same shall be rejected and the intimation thereof shall be conveyed to the contractor. The contractor shall also be intimated of the shortage and / or damages in the material received in the Purchaser’s site/offices. The rejected / short Supplied / damaged stock shall be replaced free of cost at destination within 7 days of intimation from DTL failing which the cost of such material shall be recovered from any amounts due to the contractor. Rejected supplies shall be removed within 10 days of receipt of intimation failing which the contractor may loose the claim of material.

Contd……3
24 **RISK PURCHASE:** The Project shall be completed satisfactorily and within the period specified in the order, failing which purchaser reserves the right to complete the project from other sources at the sole risk and cost of the supplier and the difference of rates will be recovered from the suppliers. If on checking, testing and using, the supplies/services proves to be defective or fails to fulfill the guarantee performance of the contract as specified by himself, the contractor shall have to make good the defects at his costs. If the contractor fails to do so the purchaser may arrange supplies/services at the cost of the contractor. Where supplies/services are not according to specifications and it is decided to retain the inferior supplies/services at the discretion of the purchaser, supplier will be entitled to receive the payment at rates by the purchaser with due regard to the quality of the supplies/services and not at the rates mentioned in the order. In case there is no improvement in the proper execution of the order as per terms and conditions or the contract the purchaser reserves the right to cancel the order after serving 15 days written notice to contractor and no claim or damages will be entertained.

25 **Stoppage & Starting of Work:** The Contractor shall accept all risks of stoppage of hindrances of his work by outside interferences. In the event of any obstruction at site, change in scheme, or due to any reasons the contract can be cancelled for the balance quantity of the unexecuted work. The work can also be suspended temporarily due to any reasons and for such period, extension will be given by Manager (T) if required on the written request of the contractor. No idle charges shall be payable by the department. The work shall be started within one hour from the date of notice either through telegram/special messenger/telephonically. The contractor has to execute the work on working days during the working hours. However, if required, the work can be executed on holidays; under special circumstances.

26 **SUB-LETTING OF CONTRACT:** The contractor shall not unreasonable with hold, assign or sublet his contract or any substantial part thereof, without the written consent of purchaser. Such subletting shall not in any way be interpreted as releasing the contract from his liability & obligations under the contract.

27 **TAXES AND DUTIES:** All the statutory taxes and levies applicable on supplies and services are inclusive in the Contract Price. Relevant Confessional Central Sales Tax declaration forms, as admissible, would be issued to you by DTL as per the provisions of Bidding Document against the supplies on receipt of your written request for all the items identified in this Letter of Award. The above contract price is inclusive of applicable Service Tax and cess thereon. DTL shall not bear any liability whatsoever on this account. DTL shall make statutory deduction at source in accordance with the statutory provisions including income Tax Act, as applicable from time to time, for which necessary TDS certificate(s) shall be issued to you in due course. C Form will be issued to you if requested by you and bills also represent taxation as per FORM C.

28 **TERMINATION OF CONTRACT:** DTL reserves the right to terminate the contract after giving 2 week notice in case of performance of the contractor is not found satisfactory or on account of non-compliance of any of the condition of the contract. In such case the security deposit shall also be forfeited without prejudice to right of the DTL to take any other action of recover any loss suffered by the DTL due to non-performance of the contract.

29 **T & P:** The contractor shall use his own labour, tools & plants required to complete the work.

30 **Transportation:** In case of transportation works contractor shall strictly observe the regulations as laid down by Delhi Traffic Police. Any damage to DTL property / material during transportation shall be recovered from the contractor’s bill.

31 **WARRANTY:** The contractor warrants that the equipment will be new and in accordance with the specifications. The contractor warrants that the equipment will be free from defects in design material and workmanship. The acceptance of the supplies & services by the purchaser shall in no way relieve the contractor of his obligation under this article. In case of defective supplies & services not repairable at site but essential in the maintenance of the commercial operation of the equipment the parties shall mutually agree to a program of replacement by renewal which will minimize to the maximum extent, any interruption in the operation of the equipment. It becomes necessary for the contractor to replace or renew any defective equipment under this article the provision of this articles shall apply to the replacement until the expiration of six months from the date of such replacement of renewal or until the period of twelve (12) months after completion of test which ever may be later. The contractor shall have to submit a written warrant on a non-judicial stamp paper incorporating provision of the other clauses.

Contd……4
Delhi Transco Limited reserves the right to reject the offer/offers without assigning any reason.

Delhi Transco Limited reserves the right to cancel the order, if found unsatisfactory performance and will have the right to procure material from other party at the Risk and Cost of the contractor.

Successful bidder shall be liable to provide all technical support, as and when required, for installation and commissioning at site.

In case of opening day is holiday/closed day, opening date may be treated as the next working day or can be postponed by the officer opening authority.

Items are to be supplied as per technical details/DTL specifications of sample/items available at site (220 KV S/Stn Preet Vihar). Bidder can visit site for further details of items on any working day.

Manager (T) O&M, E-2

Signature of the contractor with stamp
ANNEXURE ‘B’

TECHNICAL SPECIFICATION FOR LEAKAGE CLAMP METER

1.0 SCOPE

This specification covers the design, engineering, manufacture, testing at manufacturer’s works before dispatch, packing, supply and delivery of Hand Held **LEAKAGE CLAMP METER** suitable for Leakage Current measurement as well as load current measurement.

2.0 CLIMATIC CONDITION

The **LEAKAGE CLAMP METER** to be supplied against this specification shall be suitable for satisfactory operation under the following tropical conditions.

i) Operating Environment : 0° to 40° C < 80 %
ii) Storage Temperature : -10° C to 60° C < 70 % non condensing

3.0 INPUT POWER

- Operates from LR or SR 44 1.5V X 2
- Batteries Life: Approx .50 Hours (LR 44)

4.0 TECHNICAL SPECIFICATION

Technical specifications:

<table>
<thead>
<tr>
<th>Measuring method:</th>
<th>Dual integration mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring function:</td>
<td>Leakage current and load current</td>
</tr>
<tr>
<td>Range:</td>
<td>0-30 mA / 300 mA /30 A / 300 A (50/60Hz)</td>
</tr>
<tr>
<td>Ranging:</td>
<td>2 manual ranges</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range</th>
<th>Min. resolution</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 / 300 mA</td>
<td>0.01 / 0.1 mA</td>
<td>+/- 1.2 reading +/- 5 digits</td>
</tr>
<tr>
<td>30 / 300 A</td>
<td>0.01 / 0.1 A</td>
<td>0-200 A : +/- 1.2 % reading +/- 5 digits</td>
</tr>
<tr>
<td></td>
<td></td>
<td>200-250 A : +/- 3.0 % reading +/- 5 digits</td>
</tr>
<tr>
<td></td>
<td></td>
<td>250-300 A : +/- 5.0 % reading +/- 5 digits</td>
</tr>
</tbody>
</table>
Sampling time: Approximately 2 times/second (Digital display)
Approximately 12 times/second (Bar graph display)

Limitation of circuit Voltage: < AC 600 V

Withstanding voltage: AC 3700 V / 1 minute max (between the core of CT and the unit housing)

5.0 GENERAL & CONSTRUCTIONAL REQUIREMENTS

LEAKAGE 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. The capability for measuring currents of up to 300 A ac, making it a highly versatile instrument capable of taking current measurements in a wide variety of situations and applications.

However, the following general features should be ensured:

- It should have analog bar graph display facility.
- It can measure leakage as well as load current up to 300A
- It should be pocket sized and should not weight more than 150 gram.
- The jaw opening size of the meter should be 40 mm Ø.
- It should have the auto power off facility which should work in 10 minutes after power switch on.
- It instrument can display 3200 counts
- It should have low battery indication and data hold indication facilities.
- The instrument should meet the requirements for double insulation to IEC 1010-2-032, IEC 10101 (1995, EN 61010-1 (1995) installation category II 600 phase to earth, category III 300 V phase to earth. It is designed with safety in mind
- The instrument should meet EN 50081–1 and EN50082-1(1992).

Physical

Weight: Should not be more than 150g
<table>
<thead>
<tr>
<th>S.No.</th>
<th>Scope</th>
<th>Standards Applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TENDER SPECIFICATIONS</td>
<td>EN 61557-2, CAT II 1000V/AC/1000V</td>
</tr>
</tbody>
</table>

**TENDER SPECIFICATIONS**

This specification covers the design, manufacture, assembly, testing, manufacture, and supply of Insulation Tester suitable for domestic installation, dielectric testing, and periodic insulation testing. The construction should be robust and easy to handle.

**Technical Specifications for 11kV Diagonal Insulation Tester**

**ANNEXURE ‘B’**

<table>
<thead>
<tr>
<th>Test Voltage (DC V)</th>
<th>Power Supply</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>250, 500 to 1000VDC</td>
<td>6.0 V DC (4 x 1.5 V alkaline battery)</td>
<td>Kit should be supplied as a standard testing leads with relevant accessories</td>
</tr>
</tbody>
</table>

**Technical Specification**

**6 Technical Specification**

- **Test Voltage (DC V)**: 250, 500 to 1000VDC
- **Power Supply**: 6.0 V DC (4 x 1.5 V alkaline battery) | Kit should be supplied as a standard testing leads with relevant accessories

**5 Technical Requirement**

- **The test kit shall have battery power supply.**
- **The test kit shall be equipped with high voltage terminals.**
- **These terminals shall be suitably marked for easy identification.**

**4 General Requirement**

- **The test kit shall display voltage of insulation resistance at each test.**
- **The test kit shall have facilities for IR test, Continuity of PE conductor, AC voltage measurement.**
- **The test kit shall be supplied with accessories.**
- **Carrying strap shall be of positive grip.**
- **Carrying strap shall be of positive grip.**

**3 Climatic Conditions**

- **Operating Temperature**: +10°C to 40°C (or better)
- **Storage Temperature**: -10°C to 65°C (or better)
- **Relative Humidity**: 95% RH (0°C to 40°C) non-condensing or better.

**2 Standards Applicable**

- **EN 61557-2, CAT II 1000V/AC/1000V**

---

**Note:**

- The specification covers the design, manufacture, assembly, testing, manufacture, and supply of Insulation Tester suitable for domestic installation, dielectric testing, and periodic insulation testing. The construction should be robust and easy to handle.

---

**APPENDIX ‘B’**

This appendix covers the design, manufacture, assembly, testing, manufacture, and supply of Insulation Tester suitable for domestic installation, dielectric testing, and periodic insulation testing. The construction should be robust and easy to handle.