Name of work : Supply and installation of Demand Controller & Multifunction energy meter with Power Monitoring Software.

Value of Work : ₹ 1,77,803/-

Tender Enquiry No : 35/16-17

Period of Contract : 15 days.

Tender Enquiry No : EMD/EO/ELE/tender notice//Enq.No:35/16-17
NOTICE INVITING TENDER

1. Name of Work : Supply and installation of Demand Controller & Multifunction meter with power monitoring software.

2. Estimated Cost : ₹ 1,77,803/-

3. Earnest Money Deposit : ₹ 3556/-

4. Completion time : 15 days (from the date of commencement of work which will be reckoned from the date of agreement with the contractor)

4. Cost of tender document : ₹ 525/-

5. Last Date & Time for downloading of tenders: 20.01.2017 & 3.00 P.M

6. (a) Date & Time of Tender opening (Technical Bid): 20.01.2017 & 3.30 P.M

(b) Opening of Price bid intimation : only qualified bids after evaluation with intimation.

7. Maintenance period and Handing over : 1 year from the date of actual completion of entire work and handing over to National Institute of Technology.

8. Address for Submission of tender : The Director, National Institute of Technology, Tiruchirappalli-620 015.

Tender document contains 28 pages including Price bid.

Name of the Agency Submitting the tender : ........................................

........................................

........................................
Check list to evaluate the capability of the tenderer qualifying for price bid opening

**ANNEXURE – A**

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Item/ Requirement from the Bidder</th>
<th>Bidders Response should be definite, complete and legible. Use separate sheet wherever necessary.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Particulars of remittance of EMD: Specify (a) DD Number (b) Amount (c) Name of Issuing Banker <strong>Note: Bids without EMD will be rejected summarily</strong></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Particulars of remittance of Cost of Tender Document. Specify (a) DD Number (b) Amount (c) Name of Issuing Banker <strong>Note: Bids without cost of tender document will be rejected summarily.</strong></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Name and Complete Postal address of the Applicant or Bidder Firm/ Company with phone/ Fax/ Mobile number</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Legal status / Constitution of the Bidder: (a) Sole Proprietor (b) Partnership (c) Private Limited Company (d) Public Limited Company (e) others <strong>Please attach self-attested documentary proof</strong></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Details of License type obtained from the Licensing Authority (Attach Self-attested Copy) Tick Whichever applicable</td>
<td>License no: <strong>Issue date:</strong> <strong>Valid up to:</strong></td>
</tr>
<tr>
<td></td>
<td>ESB [ ] EA [ ] ESA [ ]</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Nature of the Business of the Bidder</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Year of Commencement of Business</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Location of the Registered / Main Office</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>(a) Name, (b) address, (c) designation, (d) phone &amp; cell number and (e) E mail ID of the CONTACT PERSON of the applicant/ bidder</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Name and address of your banker</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Copy of Income Tax Permanent Account Number (PAN Number) <strong>(Please Attach self-attested copy)</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td></td>
</tr>
<tr>
<td><strong>12</strong></td>
<td>Annual Turnover during the Last three financial years 2013-14,2014-15 &amp; 2015-16 (<strong>Profit and Loss Account and Balance sheet duly audited and certified by a Chartered Accountant and Income Tax Return Acknowledgement i.e., ITR for the last three years may be attached</strong>)</td>
<td></td>
</tr>
<tr>
<td><strong>13</strong></td>
<td>Details of Manpower available with the bidder</td>
<td></td>
</tr>
<tr>
<td><strong>14</strong></td>
<td>Details of Equipment/ Tools/ Tackles available with bidder</td>
<td></td>
</tr>
<tr>
<td><strong>15</strong></td>
<td>Have you registered Under Employees Provident Fund (EPF) and Miscellaneous Provisions Act? If so, enclose copy of the registration certificate. Also provide a copy of the latest remittance, if any, made by your firm towards EPF.</td>
<td></td>
</tr>
<tr>
<td><strong>16</strong></td>
<td>Have you registered under Employees State Insurance Corporation Act (ESI) Act? If so, enclose copy of the registration certificate. Also provide a copy of latest remittance made by your successful bidder/ firm/ company</td>
<td></td>
</tr>
<tr>
<td><strong>17</strong></td>
<td>Service Tax Registration Number, (<strong>Self-attested copy to be attached</strong>)</td>
<td></td>
</tr>
<tr>
<td><strong>18</strong></td>
<td>Details of similar work, if any, executed or being executed along with address of the service receiver with contact number, value of the work. <strong>Enclose a copy of the work order along with performance certification.</strong></td>
<td></td>
</tr>
</tbody>
</table>

- ✓ I / we hereby certify that all the statements made and information supplied in the enclosed forms and accompanying statements are true and correct.
- ✓ I / we have furnished all information and details necessary for deciding our eligibility to be qualified for taking part in the tendering process for the work. We have no further information to supply.
- ✓ I/We also authorize the Director, NIT Tiruchirappalli or his representative to approach individuals, firms and corporations to verify our competence and general reputation.

---

**Authorized signatory of Bidder with Seal**

---

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Name…………………………………….</td>
<td></td>
</tr>
<tr>
<td>Designation………………………..</td>
<td></td>
</tr>
</tbody>
</table>
ANNEXURE – B  
(To be submitted by the bidder along with Technical Bid)

TECHNICAL SPECIFICATIONS

Note: Bidder’s are requested to fill the column without fail otherwise tender will not be considered.

Make: Schneider/L&T/Reputed

1. Energy Management Structure Ware Power Monitoring Expert

<table>
<thead>
<tr>
<th>Specifications (As per NIT Requirements)</th>
<th>Bidder’s should tick and proof should be furnished</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. <strong>EMS Supply:</strong> Power Monitoring Expert software (PME V8.1) 5 Device Pack bundle, PME Standard Edition BASE license (includes 1 Engineering &amp; Web Client).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b. <strong>EMS Service:</strong> Installation and commissioning of EMS software for 05 DL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c. <strong>PME Value Proposition:</strong> Power Quality and Reliability Analysis, Cost Allocation and Billing, Load Studies and Circuit Optimization, Demand and Power Factor Control, Equipment Monitoring and Control, Preventative Maintenance.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d. <strong>Features Summary:</strong> Data Acquisition, Monitoring, Analysis, Control.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>e. <strong>Power Monitoring Components:</strong> Vista™, PME Virtual Processor™, Reporter™, Designer™ and Management Console, SQL Database, Firmware Upgrade Utility, Web Reach.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>f. The equipment must be warranted against all manufacturing defects for a minimum period of one year or as per standard warranty / guarantee of the bidder, Whichever is more from the date of satisfactory supply, installation and commissioning.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. Ethernet LAN Converter

<table>
<thead>
<tr>
<th>Specifications (As per NIT Requirements)</th>
<th>Bidder’s should tick and proof should be furnished</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. <strong>Dimension:</strong> 80.8X72X65.8mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b. <strong>Power supply:</strong> 24V DC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c. <strong>Maximum Burden:</strong> 4W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d. <strong>Regulatory/standards compliance for electromagnetic interference</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Emissions (radiated and conducted)</strong> EN55022/EN55011/FCC class A, Power Logic EGX100 Immunity for industrial environments: electrostatic discharge EN 61000-6-2, radiated RF EN 61000-4-2, electrical fast transients EN 61000-4-3, surge EN 61000-4-4, conducted RF EN 61000-4-5, power frequency EN 61000-4-6, magnetic field EN 61000-4-8.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>e. <strong>Regulatory/standards compliance for safety</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>International (CB scheme) IEC 60950, USA UL508/UL60950</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Canada cUL (complies with CSA C22.2, no. 60950), Europe EN 60950, Australia/New Zealand AS/NZS25 60950.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Serial ports</strong> Number of ports 1, Types of ports RS232 or RS485 (2-wire or 4-wire), depending on settings Protocol Modbus RTU/ASCII, Power Logic (SY/MAX), Jbus, Maximum baud rate 38400 or 57600 baud depending on settings, Maximum number of connected devices 32 (directly), 247 (indirectly).</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
i. Ethernet port Number of ports 1, Type of port 10/100 Base TX (802.3af) port, Protocol HTTP, Modbus TCP/IP, FTP, SNMP (MIB II)

j. Web server Memory for logging, custom web pages and documentation 512 Mb

k. The equipment must be warranted against all manufacturing defects for a minimum period of one year or as per standard warranty / guarantee of the bidder, Whichever is more from the date of satisfactory supply, installation and commissioning.

3. Smart Demand Controller

<table>
<thead>
<tr>
<th>Specifications (As per NIT Requirements)</th>
<th>Bidder’s should tick and proof should be furnished.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Input-Voltage characteristics V1, V2, V3, VN : Four voltage inputs Voltage input: 110V or 415V LL nominal (range 90 to 480V LL ac without PT’s),Permissible overload of 600V LL, Burden of 0.2VA max per phase, Frequency of 50/60Hz +/-5%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b. Input – Current characteristics I1, I2, I3 (+S1, -S2), Current input: 1A nominal, 10mA to 1.2A, 1mA is Starting current • 5A nominal, 50mA to 6A, 5mA is starting current, • 10A max overload, 50A @10sec/Hr, 500A@1sec/Hr, • Burden of 0.2VA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c. Frequency 50 /60 Hz ± 5%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d. Auxiliary Supply AC: 90 to 277V, Burden of &lt;10VA @240V ac, DC: 120 to 300V DC, Burden of max 4.5W@300V dc,Data update rate 1 Sec for Instantaneous, 5 Sec for Harmonics, 15 Sec for Demand parameters,Accuracy class – 1.0, IP Degree of Protection – IP51 IP30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>e. Communication – RS 485 Modbus RTU</td>
<td></td>
<td></td>
</tr>
<tr>
<td>f. Display – LCD 128*128 pixels 4 + 1 row display</td>
<td></td>
<td></td>
</tr>
<tr>
<td>g. Dimension – 96mm (H) X 96mm (W) X 73mm (D) approx.,</td>
<td></td>
<td></td>
</tr>
<tr>
<td>h. True RMS measurement &amp; 4 Quadrant measurement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>i. Real time measurement of V A F PF W VA VAR Wh VAh VArh Ah parameters</td>
<td></td>
<td></td>
</tr>
<tr>
<td>j. Demand Measurement Parameter: W, VA, VAR, Amps (simultaneous display), Controlling with one selected parameter, Demand method: Auto, RTC, User, Demand period: 1 to 30 minutes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>k. Load duration, Run Hours, On Hours, Number of Interruptions, Import, Export &amp; Net values of Energy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>l. Total Harmonic Distortion (THD) for Volts &amp; Amps, per phase,</td>
<td></td>
<td></td>
</tr>
<tr>
<td>m. Individual harmonics up to 15th for Volts &amp; Amps, per phase</td>
<td></td>
<td></td>
</tr>
<tr>
<td>n. Demand measurement W, VA, VAR &amp; Amps parameter, 1 to 30 minutes, Prediction, Spare load, Essential load, Demand profile, Demand control through Upper Limit &amp;Lower Limit settings, 3 Form C mechanical relays,</td>
<td></td>
<td></td>
</tr>
<tr>
<td>o. TOU Settings (6 seasons, 8 Tariff slots, Week days, Weekends, Holidays, Separate Integrators for Demand &amp; Energy values),</td>
<td></td>
<td></td>
</tr>
<tr>
<td>p. 2 Digital Inputs for status indication ON: 18.5 to 36V DC, OFF: 0 to 4V DC, Whetting output Voltage - 24V DC nominal, 8mA max</td>
<td></td>
<td></td>
</tr>
<tr>
<td>q. The equipment must be warranted against all manufacturing defects for a minimum period of one year or as per standard warranty / guarantee of the bidder, Whichever is more from the date of satisfactory supply, installation and commissioning.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Multifunction Energy Meter

#### Specifications (As per NIT Requirements)

| a. Accuracy class – 1.0, Communication – RS 485 Modbus RTU, IP Degree of Protection – IP51, IP30 |
| b. Dimension – 96mm (H) x 96mm (W) x 73mm (D) approx., Display type – 7 Segment LED, 3 rows with 4 digits per row, Phase |
| d. Energy Readings - Apparent, Active and reactive energy, Ok – Enter Key, |
| e. Energy Pulsing – LED (Red), Heartbeat/Communications LED (Green), X 1000 Indicator, |
| f. System Measurements – Vavg, kVA, F, lavg, kW, In, PF avg, kVAR l/s, |
| g. Retainer Clip, Input Current terminals – A1 (S1, S2), A2 (S1, S2), A3 (S1, S2), Auxiliary Power supply – L+, Input Voltage terminals – V1, V2, V3, VN |
| h. Standard compliance – Electromagnetic compatibility (as per IEC 62052-11), Electrostatic discharge IEC 61000-4-2, Immunity to radiated field IEC 61000-4-3, Immunity to fast transients IEC 61000-4-4, Immunity to impulse waves IEC 61000-4-5, Conducted immunity IEC 61000-4-6, Immunity to magnetic field IEC 61000-4-8, Immunity to voltage dips IEC 61000-4-11, Emission – Emissions FCC Part 15 Class A/CE, |
| i. Safety – Europe : CE, as per IEC 61010-1 Ed-3, US and Canada : cULus as per UL61010-1 and CAN/CSA-C22.2 No. 61010-1, for 600V AC, Measurement category (Voltage and Current inputs) CAT III up to 480V L-L, CAT II up to 600 V L-L, Overvoltage category (Control power) CAT III up to 300 V L-N, Dielectric As per IEC/UL 61010-1 Ed-3, Protective Class II, Double insulated for user accessible parts, Other certification – C-Tick (RCM), Modbus RTU RS485 com port, 3 Relays for Demand control and management, |
| j. 4 Hi & Lo’s for Instantaneous and Demand parameters with Date & Time stamp, Old registers for last cleared Integrators and Demand values, Password protected, % Load and % unbalance in Amps & Voltage circuit, % unbalance in A & V, PF Lock features for advanced Revenue metering, Phase angle of both voltage and current network, Monochrome LCD full scap display, white background, black digit, 4+1 rows, parameters names displayed against each row, 4 digits for instantaneous parameters and 6 digits for Energy & 3 digits for Harmonics, |
| k. Standard compliance – Electrostatic discharge as per IEC61000-4-2*, Immunity to Radiated Fields as per IEC61000-4-3*, Immunity to Fast Transient as per IEC61000-4-4*, Immunity to Surge as per IEC61000-4-5*, Conducted Immunity as per IEC61000-4-6*, Immunity to Magnetic, Fields as per IEC61000-4-8*, Immunity to Voltage dips & Interruption, as per IEC61000-4-11* Radiated & Conducted emissions as per FC Part 15 Class A CISPR11* as per IEC61326-1 |
| l. Certification – UL, Canada UL listed, CE, C-Tick certified as per IEC/UL 61010-1 Edition 3 |

Bidder’s should tick and proof should be furnished.

Remarks: 
- The equipment must be warranted against all manufacturing defects for a minimum period of one year or as per standard warranty / guarantee of the bidder, Whichever is more from the date of satisfactory supply, installation and commissioning.
INSTRUCTION TO TENDERERS
Qualifying requirements for LT works:

1. Average Annual financial turnover during the last 3 years, ending 31st March of the previous financial year, should be at least 30% of the estimated cost.

2. Experience of having successfully completed similar works during last 7 years ending last day of month previous to the one in which applications are invited should be either of the following:
   a. Three similar completed works costing not less than the amount equal to 40% of the estimated cost. or
   b. Two similar completed works costing not less than the amount equal to 50% of the estimated cost. or
   c. One similar completed work costing not less than the amount equal to 80% of the estimated cost.

3. Definition of “similar work”.
   Similar work means execution of LT works/Fuse of calls in educational institution/Private/Public sector.
   In addition to above, the criteria regarding satisfactory performance of works, personnel, establishment, plant, equipment etc. may be incorporated according to the requirement of the Project.

4. The bidder should possess a valid Electrical Contractor’s license grade ESB or higher grade license issued by Tamilnadu Electrical Licensing board. If he possesses any other license issued by other State Governments, the same has to be endorsed by Tamilnadu Electrical Licensing Board.

5. The tender value includes cost of Electrical and civil materials and all other related material required for completion of the work.

6. Time is the essence of the contract. Being a time bound project, the contractor should make all efforts to complete the work in time.

7. Even though the overall completion period is indicated as 15 days, the work shall be completed progressively and handed over as per agreed split up schedule if any.

8. The tenderers are advised to visit the site and get themselves acquainted with the site conditions before submitting the offer.

9. Tender quantity is only approximate and liable for variation without entitling the tenderer to any compensation, till the total value of contract vary by more than 30% (thirty percentage).
10. Quoted rate shall remain valid for a period of 15 days from the date of tender opening for the release of work order and will be firm throughout the contract period of 15 days or till completion of work, once awarded and no cost escalation is allowed on any account.

11. “DISCOUNT” if any, offered by the bidders shall not be considered unless specifically indicated in the price schedule. Bidders desiring to offer discount shall therefore modify their offers suitably while quoting and shall quote clearly net price taking all such factors like discount etc. into account.

12. The item rate offered is for finished item of works and shall provide for the complete cost towards fuel, tools, tackles, plant & machinery, temporary works, labour, materials, levies, taxes, transport, lay-out, repairs, rectifications, maintenance till handing over, supervision, labour colonies, establishment, services, roads, revenue expenses, overheads, profits & all other incidentals etc., complete. Rate quoted shall include all royalties, terminal taxes, Octroi duties, Central or Provincial Excise Tax, Sales Tax and any other taxes leviable under the State or Central Government rules. NITT will not entertain any claim whatever in this respect. The applicable Service Tax can be reimbursed by NITT along with the running / final bill on production of documentary evidence by the agency for having paid the service tax to the authorities concerned.

13. Some changes are likely in the quantities furnished as well as in the layout, design and specifications of the work. The rates quoted shall be deemed to be inclusive of all such contingencies.

14. Liquidated damage : Liquidated damage due to delay in completion of works shall be levied. In case of delay in completion of works beyond the contract period as stated in the work order penalty @ 0.5% of the total value of contacts /week and subject to maximum of 5%, of the total value of the contract will be levied.

15. Tenderer has to quote rates both in figures and in words for all the items given in the Bill of Quantities provided in the Price Bid.

16. The decision of Engineer-in-charge shall be final and binding on the contractor regarding clarification of items in this tender schedule.

17. The contractor shall strictly adhere to various labour laws in force.

18. The contractor shall follow norms of NITT security system for movement of men & materials within the campus.

19. All materials brought by the Contractor for incorporation in the work shall be got inspected and approved by the Engineer-in-charge before they are incorporated in the work and submitted with bills.
20. All safety measures are to be followed during execution of work, particularly during blasting and only licensed blaster should be engaged for this purpose. Sufficient care shall be taken by the contractor during excavation to avoid damages to the buried pipe lines, cables and other infrastructure if any etc. Controlled blasting including muffling can be carried out with prior permission from safety department. Damages caused if any shall be rectified at contractor’s risk and cost.

21. The contractor should extend fullest co-operation with the third party agencies engaged, if any by NITT, to adhere the Quality Control Procedures ensuring quality.

22. The contractor should extend full co-operation to the other contractors who may be doing other works in the same areas to enable them to execute their portions of work without any delay or difficulty.

23. Tenderers are requested to furnish the duly filled in payment format attached as separate sheet along with a cancelled cheque leaf to accept Electronic fund transfer / R T G S transfer for any payment from NITT, Trichy.

24. No advance / mobilization advance will be given.

25. NITT reserves its right to reject a tender due to unsatisfactory past performance in the execution of a contract awarded against a different Tender.

26. Rate for each item should be quoted in FIGURES and in WORDS. In case of any difference in the rates quoted in figures and in words, the lower of the two rates will be taken as the tendered rate. Unit rate quoted shall be the basis for arriving the total value of the tender. The total amount for every item shall be arrived by multiplying the unit rate with the quantity indicated for that item. In case of any arithmetic deviation is noticed in the total amount, the same will be corrected and evaluated by taking unit rate as basis and multiplying with the quantity indicated.

27. Tenders received after the due date and time of opening, will not be accepted.

28. All the documents shall be duly signed with seal in all pages and placed in a common sealed cover duly superscripting the Name of Work, Tender reference & Date of opening and submitted.

29. Tenderer should furnish the RATE in the enclosed tender “Price Bid” and shall be duly signed with seal in all pages and placed in a separate sealed cover duly superscripting the cover “PRICE BID”.
30. The Demand Draft towards Document cost & EMD along with complete tender document consisting Technical qualification details but excluding price bid shall be placed in a separate cover duly superscripting the cover “Technical Bid”. Tender without EMD or document cost will be rejected.

31. Totally there will be 2 Separate sealed covers. One cover containing Document cost, EMD and the tender documents containing Technical Qualifications and the other containing the “Price Bid” both the contents duly signed with seal in all pages.

32. Both the above 2 Covers shall be placed in a Common Sealed Cover and submitted before the said due date as given above superscripting the tender No. & Date and Due Date.

33. Any deviation to this tender terms & condition and schedules of this tender will cause total rejection of the offer submitted.

34. Incomplete offers will become liable for rejection.

35. Tender addressed to The Director, NIT, Tiruchirappalli-620 015 will be received up to 15.00 Hrs at the office of the Registrar as per the schedule of tender notice and will be opened at 15.30 Hrs in the presence of those who may choose to attend the tender opening.

36. Tender submitted by post should be sent superscripting “Register Post with Acknowledgement Due”. These should be posted with due allowance for any postal delay. Tender received after due date and time of opening tenders, will be rejected and NIT, Trichy will not be responsible for any postal delay or tender may be put into tender box.

37. Earnest Money Deposit:
Earnest Money is to be paid by each tenderer to ensure that the tenderer does not refuse to execute the work after it is awarded to him. Shall also be furnished in the form of Demand Draft in favor of The Director, NIT Tiruchirappalli. EMD in any other form will not be accepted. The rate of earnest money deposit shall be as under:

- Works costing upto Rs. 1 lakh: 1% EMD
- Works costing more than Rs.1 lakh: 2% of the Estimated cost put to tender

EMD by the Tenderer will be forfeited if,

a) After opening the tender, the tenderer revokes his tender within the validity period or increases his earlier quoted rates.

b) The tenderer does not commence the work within the period as per LOI / Contract. In case the LOI / contract is silent in this regard then within 15 days after award of contract.

c) EMD given by all unsuccessful tenderers shall be refunded normally within fifteen days of acceptance of award of work by the successful tenderer.

d) EMD shall not carry any interest.

e) Security Deposit on estimate cost/Tender Value

I. Security Deposit should be collected from the successful tenderer in the form of DD or Bank Guarantee in favor of the Director, National Institute of Technology, Tiruchirappalli and this will be refunded after the contract has been ended. The rate of Security Deposit will be as below:
The security Deposit should be collected before start of the work from the contractor.

II. The PBG should remain valid for a period of 90days beyond the date of completion of all the completion of all the contractual obligations of the supplier. PBG will be discharged after three months (from the end of contract) after compliance of contractor’s performance obligations under the contract.

III. EMD of the successful tenderer shall be converted and adjusted against the security deposit.

IV. The security deposit shall not carry any interest.

Unless the contractor whose tender is accepted signs the Contract Agreements and makes the necessary security deposit specified in Para 47 above within Seven days of the date of the order directing him to do so, the amount of Earnest Money Deposit already deposited by him will be forfeited and acceptance of his tender withdrawn.

38. National Institute of Technology will not be bound by any power of attorney granted by the tenderer or by changes in the composition of firm made subsequent to the execution of the contract. They may however recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the contract concerned.

39. If the tenderer deliberately gives wrong information in his tender or creates conditions favourable for the acceptance of his tender, NITT reserves the right to reject such tender at any stage.

40. The expenses for completing and stamping the agreement shall be paid by the contractor.

41. Tenderers shall not increase their quoted rate in case NITT, negotiates for reduction of rate. Such negotiation shall not amount to cancellation or withdrawal of the original offer and the rate originally quoted shall be binding on the tenderers for a period of three months from the date of opening of tenders.

42. Canvassing in any form in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.

43. All entries in the tender documents should be in one ink. Erasers and overwritings are not permitted. All cancellations and insertions should be duly attested by the tenderer concerned.

44. TENDERERS should fill in all the required particulars in the blank spaces provided for this purpose in the tender documents and also sign each and every page of Tender Documents including the drawings attached there to, before submitting their tender.

45. Conditional and Unwitnessed tenders, tender containing absurd rates and amounts tenders which are incomplete or otherwise considered defective and tenders not in
accordance with the tender conditions laid down by the Accepting Officer are liable to be rejected.

46. Tenders not submitted on the prescribed form are liable to be rejected.

47. This tender notice shall be deemed to form an integral part of the contract to be entered into for this work.

48. The tenderers are advised to go through the condition stipulated in Tender document & code of conduct for Safety of Contract Labourer in details. Any violation thereof will invite punitive action being taken against them. While quoting the rate all the above factors are to be taken into account.

49. Agency registered with NSIC is exempted from payment of tender document cost & Earnest Money Deposit but required to attach the attested copy of registration indicating the company name, address, registration number, validity & product for which registered in the technical bid,. Any deviation in the certificate on product or validity or name of the company tendering, will attract rejection resulting non-opening of respective price bid.

50. Payment Terms: Payments will be made in 45 days after satisfactory completion of service if the documents are in order.

51. Arbitration:
Except where otherwise provided for in the contract all questions and disputes relating to the meaning of the specifications, designs, drawings and instructions hereinbefore mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the work or failure to execute the same whether arising during the progress of the work or after the completion or abandonment thereof shall be referred to the sole arbitration of the Director of NITT and if Director is unable or unwilling to act, to the sole arbitration of some other person appointed by the Director, willing to act as such arbitrator. The cases referred to arbitration shall be other than those for which the decision of the Estate Officer / Engineer-in-charge is expressed in the contract to be final and conclusive. There will be no objection if the arbitrator so appointed is an employee of NITT and that he had to deal with the matters to which the contract relates and that in the course of his duties as such he had expressed views on all or any of the matters in dispute or difference.

The arbitrator to whom the matter is originally referred being transferred or vacating his office or being unable to act for any reason, Director as aforesaid at the time of such transfer, vacation of office or inability to act, shall appoint another person to act as arbitrator in accordance with the terms of the contract. Such person shall be entitled to proceed with the reference from the stage at which it was left by his predecessor. Subject as aforesaid the provision of the Arbitration & Reconciliation Act, 1996 or any statutory modification or re-enactment thereof and the rules made there under and for the time being in force shall apply to the arbitration proceeding under this clause.

It is a term of the contract that the party involving arbitration shall specify the dispute or disputes to be referred to arbitration under this clause together with the amount or amounts claimed in respect of each such dispute.
The arbitrator(s) may from time to time with consent of the parties enlarge the time
for making and publishing the award.

The work under the Contract shall, if reasonably possible, continue, during the
arbitration proceedings and no payment due or payable, to the Contractor shall be
withheld on account of such proceeding.

The Arbitrator shall be deemed to have entered on the reference on the date he issues
notice to both the Parties fixing the date of first hearings. The arbitrator shall give a
separate award in respect of each dispute or difference referred to him. The venue of
arbitration shall be such place as may be fixed by the Arbitrator in his sole discretion.
The award of the arbitrator shall be final, conclusive and binding on all parties to this
contract.

In the event of disputes or differences arising between one public sector enterprise
and a Govt. Department or between two public sector enterprises the above
stipulations shall not apply or its amendments for arbitration shall be applicable.

52. **Force Majeure clause:** If at any time during the continuance of this contract the
performance in whole or in part by either party of any obligations under this contract
shall be prevented or delayed by reason, of any war, hostilities, acts of the public
enemy, civil commotion, sabotage, fires, explosions, epidemics, quarantine,
restrictions or acts of GOD (hereinafter referred to as events) then provided notice of
happening of any such events is given by either party to other within twenty one days
from the date of occurrence thereof neither party shall reason of such events be
entitled to terminate this contract nor shall either party have any such non-
performance and delay is resumed as soon as practicable after such events has come
to an end or ceased to exist. If the performance in whole or part of any obligation
under this contract is prevented or delayed by reason or any such event claims for
extension of time shall be granted for period considered reasonable by NITT subject
to prompt notification by the tenderer to NITT of the particulars of the events and
supply to the NITT if required of any supporting evidence. Any waiver of time in
respect of partial installment shall not be deemed to be a waiver of time in respect of
remaining deliveries. The correspondence exchanged against the tender from both
tenderer and NITT through email are considered as valid document legally though it
is not signed. It is treated as valid confirmations made on behalf of the respective
company and very much comes under the legal ambit of the business transaction and
hence it is binding on both the parties to the business. Any transaction pertaining to
the tender from both the parties of business done round the clock irrespective of the
office or business hours of the companies, are valid legally and binding on both the
parties. This applies to the extent only in such cases where deadline time for
transaction is not specifically declared by either or both the patties to the business. In
case Letter of Intent (LOI) is issued through email, the PC generated time and date of
mail shall be construed as the official time and date of release of LOI. In as much as
this date is within the last date of validity given by the tenderer the LOI is said to have
been issued within the validity period and shall be bidding on both the parties to the
business. Tenderers participating in the tender should declare in their technical bid
that whether they have been black-listed / kept on hold for a specified period / given

Business holiday for a specified period by any Public sector undertaking or
Government departments. The reasons for such action with details and the current
status of such hold shall be clearly furnished to NITT. If no such details are mentioned
in the offer then it will be construed that the subject tenderer is not under any such hold. But at a later date if it comes to the notice of NITT about any such hold under enforcement on the subject tenderer, NITT will have every right to reject the offer of such vendors at any point of time and also under any stage of the finalization of the subject tender irrespective of the status of the subject tenderer in that tender. Such tenderers will not be permitted to participate in the further tender proceedings and will be communicated suitably. They will not be also considered for any ongoing tenders even if participated till the hold is officially lifted and confirmed in writing.

53. **Undertaking regarding EPF provision**: "I……………………………..

……………………………..Son of: ……………………………

……………………………..Resident of: ………………………

hereby give an undertaking that

* I/We have employed only …………… persons in our establishment and hence the EPF and Miscellaneous provisions Act, 1952 is not applicable to my /our establishment.

* I/ We have registered as per the EPF and Miscellaneous provisions Act, 1952 and our registration no is ………… We undertake to keep it valid during the currency of contract.

In case at any stage, it is found that the information given by me is false / incorrect, NIT shall have the absolute right to take any action as deemed fit/without any prior intimation to me".

* strike out whichever is not applicable

**GENERAL CONDITIONS OF CONTRACT**

1. No night work will be permitted without the written permission of the Engineer – in – charge.

2. Items of work other than those mentioned in the Bill of Quantities (Tender Schedule) attached hereto will be carried out at the rates to be fixed by this organization as per relevant clauses of CPWD Works Manual.

3. The successful tenderer / Contractor shall observe all safety regulations and take necessary safety precaution as called for and Safety Precautions enclosed herewith.

4. In all matters of dispute, the decision of the Director, National Institute of Technology, Tiruchirappalli -620 015. shall be final and binding on the tenderer / contractor.

5. Some changes are likely in the quantities furnished as well as in the layout, design and specifications of the work. The rate quoted shall be deemed to be inclusive of all such contingencies.

6. All the materials to be used in the work and nature of work shall conform to respective Electricity act 2003 and its amendment,CPWD, BIS and National Buildings Organization Standard Specifications and shall be got approved by the Engineer – in – charge before actual incorporation in the work.

7. All materials brought by the Contractor for incorporation in the work shall be got inspected and approved by the Engineer-in-charge before they are incorporated in the work

8. Engineer in charge / Electrical or his duly authorized representative shall have all reasonable times access to Contractor’s premises of work and shall have the power at all the reasonable times to inspect and test any portion of the work or examine the materials and workmanship of the structures during their manufacture and test.
The contractor shall give due notice in writing to the Inspecting Engineer of NITT when the materials supplied to be incorporated in the work are ready for Inspection and test. No material shall be incorporated in the work until the inspecting Engineer certified in writing that such materials have been inspected and approved by him or else the rejected material should be removed from site immediately.

9. The Contractor shall closely scrutinize all the drawings issued in connection with the work by this organization and bring to the notice of the Engineer-in-charge if any discrepancies, omissions in the drawings before undertaking the actual work pertaining thereto.

10. The contractor should submit in advance every fortnight a detailed programme of work to be undertaken from time to time strictly in conformity with the “Time and Progress Chart” covering the entire constructed work and reschedule them wherever necessary during the progress of the work so as to achieve the target set.

11. The contractor should extend full co-operation to the other contractors who may be doing other works in the same areas to enable them to execute their portions of work without any delay or difficulty.

12. Warranty/Guarantee:

   a) Nature and maximum period of free warranty offered by the vendor should be clearly indicated.
   b) The equipment must be warranted against all manufacturing defects for a minimum period of one year or as per standard warranty/guarantee of the bidder, whichever is more from the date of satisfactory supply, installation and commissioning.
   c) In case, a part thereof or the whole equipment is found defective the same will have to be rectified/replaced free of charge basis without lapse of time.

13. Delivery Schedule: Unless otherwise specified, delivery of goods at NITT will have to be made within 45 days from the date of receipt of the Purchase Order or as stipulated in the Purchase Order. All aspects of safe delivery shall be exclusive responsibility of the vendor. Part supply/delivery is normally not acceptable, but may be allowed on genuine cases, on written request only. The acceptance of the equipment shall be based on (a) successful demonstration of the system (ii) satisfactory working of the equipment after successful commissioning as tested by concerned faculty of NIT, Trichy.

TERMS AND CONDITIONS REGARDING COMPLIANCE WITH VARIOUS LABOUR LAWS BY THE CONTRACTORS FOR NITT

1. The Contractor shall not employ in connection with the work any person who has not completed 18 years of age.

2. The Contractor shall in respect of labour employed by him either directly or through subcontractors, comply with or cause to be complied with the following statutory provisions and rules and in regard to all matters provided therein.
a) The Contract Labour (Regulation & Abolition) Act 1970
c) The Payment of Wages Act 1936 and related Central Rules.
e) The Employees State Insurance Act 1948.
g) The Industrial Disputes Act 1947.
h) The payment of bonus act 1965
and any other law or modifications to the above or to the Rules made thereunder
from time to time.

3. The Contractor employing 20 or more workmen is required to obtain license from
the authorities (The Deputy Chief Inspector of Factories / Assistant Commissioner
of Labour as the case may be). The license shall be amended and / or renewed
wherever, there is an increase in the workmen employed by him or in the event of
contract being extended or renewed. The Contractor shall inform the license number
to the NITT Management before taking up the work.

4. The Contractor (Licensed or unlicensed) shall promptly furnish every information
and document required by NITT authorities for the purpose of fulfilling their
obligations as Principal Employer and shall render all necessary assistance for the
same.

WAGES

5. The Contractor shall pay wages to the workmen employed by him at the rate which
shall not be less than the minimum wages applicable under Law from time to time.

6. The Contractor shall fix wage periods in respect of which wages shall be payable.
No wage period shall exceed one month.

7. The Contractor shall ensure payment of wages to the contract labour employed by
him within three days from the end of wage period in case the wage period is one
week or a fortnight and in all other cases before 7th day of the following month.

8. All Payment of wages shall be made on working days at the work site and during
the working time and on date notified in advance. In case the work is completed
before the expiry of the wage period final payment shall be made within 48 hours
of the last working day.

9. Where the employment of any worker is terminated by or on behalf of the
Contractor, the wages earned by him shall be paid before the expiry of the second
working day from the day on which his employment is terminated.

10. Wages due to every worker shall be paid to him direct or to the person authorized
by him in this behalf. All wages shall be paid in current coin or currency in both.

REGISTERS & RECORDS:

11. The Contractor shall maintain all registers and records in the proper manner and as
required by the regulations of the various authorities concerned and indemnify the
Employer from the consequences due to any inaccurate or faulty documentation on
the part of the Contractor.

POST TECHNICAL AUDIT OF WORK AND BILLS:

Page 17/25

Contractor  Accepting Officer
12. NITT reserves the right to carry out the post-payment Audit and technical examination of the work and final bill including all supporting vouchers, abstracts etc., and enforce recovery of any sum becoming due as a result thereof in the manner provided in the presiding sub-paragraphs. Such recovery shall be enforced any time even after passing the final bill.

**SUBMISSION OF BILLS BY CONTRACTOR: -**

13. The Contractor at the end of each month shall submit a bill in triplicate, if required, detailing the various items of work done during the month supported by the requisitions issued from time to time. The Contractor shall, once in every month, submit to the EO / EMD separately details of his claims for the work done by him up to and including the previous month which are not covered by his contract agreement in any of the following respects:

   a) Deviation from the items provided in the contract documents.

   b) Extra items / new items of work.

   c) Items in respect of which rates have not been settled. He should in addition furnish a clear certificate to the effect that the claims submitted by him as aforesaid cover all his claims and that no further claims shall be raised by him in respect of the work done up to and including the period under report.

**PAYMENT OF BILLS: -**

14. All payments to be made to the Contractor, under this contract shall be by NEFT or RTGS within 45 days, after the certification of bills by the execution department.

**RECOVERY FROM CONTRACTOR: -**

15. Whenever under the contract, any sum of money, shall be recoverable from or payable by the Contractors, the same may be deducted from or any sum then due or which at any time thereafter may become due to Contractor under the contract or under any other contract with NITT or from his Security Deposit or he shall pay the claim on demand.

**CANCELLATION OF CONTRACT FOR CORRUPT ACTS: -**

16. NITT, whose decision shall be final and conclusive, shall without prejudice to any other right or remedy which shall have accrued shall accrue thereafter to NITT cancel the contract in any of the following cases and the Contractor shall be liable to make payment to NITT for any loss or damage resulting from any such cancellation to the same extent as provided in the case of cancellation for default,

If the Contractor shall:

   a) Offer or give or agree to give to any person in NITT service any gift or consideration of any kind, as an inducement or reward for doing or for bearing to do or for having done or for borne to do any act, in relation to the obtaining or execution of this or any other contract for NITT service,

   OR

   b) Enter in to a contract with NITT in connection with which commission has been paid or agreed to be paid by him or with his knowledge, unless the particulars of
any such commission and the terms of payment thereof have previously been
disclosed in writing to NITT.

OR

c) Obtain a contract with NITT as a result of ring tendering or by non-bonafide
methods of competitive tendering, without first disclosing the fact in writing to
NITT.

CANCELLATION OF CONTRACT FOR INSOLVENCY ASSIGNMENT OF
TRANSFER OR SUB-LETTING OF CONTRACT:

17. NITT, without prejudice to any other right or remedy which shall have accrued or
shall accrue thereafter to NITT shall cancel the contract in any of the following
cases:

If the Contractor,
(a) Being an individual or if a firm any partner thereof shall at any time be adjudged
bankrupt or have a receiving order for administration of his estate, made against
him or shall take any proceedings for liquidation or composition under any
bankruptcy Act or assignment of his effects of composition or arrangement for the
benefit of his creditors or purport to do so, or if any application made under any
Bankruptcy Act for the time being in force for the sequestration of his estate or if a
trust deed be granted by him on behalf of his creditors

OR

(b) Being a Company, shall pass a resolution or the Court shall make an order for the
liquidation of its affairs, or a receiver or Manager on behalf of the debenture
holders shall be appointed or circumstances shall arise which entitle the Court or
debenture holders to appoint a receiver or Manager,

OR

(c) Assigns, Transfers, Sub-lets or attempts to assign, transfer or sub-let any portion of
the work without the prior written approval of the NITT.

(d) Whenever NITT exercise the authority to cancel the contract under this conditions,
NITT may have the work done by any means at the Contractor's risks and expenses
provided always that in the event of the cost of the work so done (as certified by
Engineer in charge which is final and conclusive) being less than the contract cost,
the advantage shall accrue to the NITT and if the cost exceeds the money due to
Contractor under the contract, the Contractor shall either pay the excess amount
ordered by Estate Maintenance Dept. or the same shall be recovered from the
Contractor by other means.

(e) In case the NITT carries-out the work under the provisions of this condition the cost
to be taken into account in determining the excess cost to be charged to the
Contractor under this condition shall consist of the cost of the materials, hire charges
of tools and plants and/or labour provided by the NITT with an addition of such
percentage to cover superintendence and establishment charges as may be decided
by Estate Maintenance Dept., whose decision shall be final and conclusive.

CANCELLATION OF CONTRACT IN PART OR FULL FOR
CONTRACTOR'S DEFAULT:
18. If the Contractor:

(a) Makes default in carrying out the work as directed and continues in that state after a reasonable notice from Engineer in charge or his authorized representative

(b) Fails to comply with any of the Terms and Conditions of the contract or after reasonable notice in writing with orders properly issued thereunder

(c) NITT, may without prejudice to any other right or remedy which shall have accrued or shall accrue thereafter to NITT, CANCEL the contract as whole or in part thereof or only such work order or items of work in default from the contract. Whenever NITT exercise the authority to cancel the contract as whole or part under this condition NITT may complete the work at the contractor's risk and cost (as certified by Engineer in charge, which is final and conclusive) being less than the contract cost, the advantage shall accrue to the NITT. If the cost exceeds the moneys due to the Contractor under this contract the Contractor shall either pay the excess amount ordered by Estate Maintenance Dept. or the same shall be recovered from the Contractor by other means. In case the NITT carries out the work or any part thereof under the provisions of the conditions the cost to be taken into account in determining the excess cost to be charged to the Contractor under this condition shall consist of the cost of the materials, hire charges of tools and plant and/or labour provided by the NITT with an addition of such percentage to cover the superintendence and establishment charges as may be decided by the Engineer in charge, whose decision shall be final and conclusive.

TERMINATION OF CONTRACT ON DEATH OF CONTRACTOR. :-

19. Without prejudice to any of the rights or remedies under this contract, if the Contractor dies, or if the firm is dissolved or the company is liquidated, NITT shall have the option of terminating the contract without compensation to the Contractor.

SPECIAL POWER TO TERMINATION:-

20. If at any time after the award of contract, NITT shall for any reason whatsoever not require whole or any part of the work to be carried out the Engineer in charge shall give notice in writing of the fact to the Contractor who shall have no claim to any payment of compensation or otherwise howsoever on account of any profit or advantage which he might have derived from the execution of the work in full but which he did not derive in consequence of the fore-closing of the work.

LABOUR:-

21. The Contractor shall remain liable for the payment of all wages or other moneys to his work-peoples or employees under the payment of Wages Act 1936, Employees Liability Act. 1938, Workmen's Compensation Act 1923 or any other Act or enactment, relating thereto and rules framed, thereunder from time to time.
22. The Contractor shall be responsible for providing at his own expense for all precautions to prevent loss or damage from any and all risks and to minimize the amount of any such loss or damage and for the necessary steps to be taken for the said purpose.

23. **Rate for additional item / substituted item:**

   This will be as per the rate analysis based on the market rate for material and labour prevailing at the time of execution at place of work as ascertained by Engineer in charge raised to the overall tender percentage at which the work was awarded to cover overheads / establishment/ profit.

24. **Corrigendum / Amendment:**

   It is tenderer’s responsibility to watch for any corrigendum or amendment till the opening of a particular tender, that will be posted only at NITT web site.
Name of work : Purchase of Demand Controller & Multifunction energy meter with Power Monitoring Software.

Value of Work : ₹ 1,77,803/-

Tender Enquiry No : 35/16-17

Period of Contract : 15 days.

Tender Enquiry No : EMD/EO/ELE/tender notice//Enq.No:35/16-17
NAME OF WORK:

DETAILS & QUANTITIES of each item of work shown in the BILL OF QUANTITIES are only approximate. They are given as a guide for the purpose of tendering only and are liable to variation and alteration of the Competent Authority. The work under each item as executed shall be measured and priced at the corresponding rate quoted by the contractor in the BILL OF QUANTITIES.

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Description of work / supplied</th>
<th>Total amount of work (in figures and words) Rs. Ps.</th>
<th>Period of contract ----- Lakhs (Rupees ----- Lakh and ----- only) ----- MONTHS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>-----------------------------</td>
<td>-----------------------------------------------</td>
<td>-----------------------------------------------</td>
</tr>
</tbody>
</table>

BILL OF QUANTITIES

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Appx. Qty.</th>
<th>Description of work</th>
<th>TNBP No.</th>
<th>Rate (Both in Unit fig &amp; Words) Amount Rs. Ps.</th>
</tr>
</thead>
</table>

AS PER SEPARATE SHEETS ATTACHED CONTAINING 1 PAGE

SERIAL No. 26
TENDER

To

The Director,
National Institute of Technology
TIRUCHIRAPPALLI–620 015.

I / We hereby offer to carry out the work of

I / We hereby carefully perused the following documents connected with the above noted work and agree to abide by the same.

1. Specifications (General & Particular )
2. Drawings
4. Bill of Quantities
5. CPWD works Manual in force.

I / We forward herewith the sum of Rs…………………………………….as Earnest Money, which shall be refunded should this tender be rejected. I / We further agree to deposit such sum which along with the sum of Rs………………………………..mentioned above shall make up 50% of the fully Security Deposit for this work as provided for under conditions of the NATIONAL INSTITUTE OF TECHNOLOGY General Conditions of Contract.

I / We further agree to execute all the work referred to in the said documents upon the terms & conditions contained or referred therein and as detailed in Schedule ‘A’ and Bill of Quantities thereto and to carry out such deviations as may be ordered, vide conditions of the NITT upto a maximum of 30% of the tendered amount of Rs………………………………………………

I / We further agree to refer all disputes, as required to the sole arbitration of an Officer, to be appointed by the Director, NITT., in his sole discretion whose decision shall be final and binding.

WITNESS

Signature of the Contractor

Date :

1. ........................................

2. ........................................
## PRICE BID FORMAT

Tender No : **EMD/EO/ELE/tender notice//Enq.No:35/16-17**

<table>
<thead>
<tr>
<th>Sl No</th>
<th>Description</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate/Qty</th>
<th>VAT</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Electric Energy Management StruxureWare Power, Monitoring Expert (PME V8.1) bundle including A. 05 No of Device License for New Systems, B. 1 No of Engineering &amp; Web Client</td>
<td>Set</td>
<td>1</td>
<td></td>
<td>5%</td>
<td>14.50%</td>
</tr>
</tbody>
</table>
| 2     | EGX Ethernet LAN Converter for multiple device gateway and suitable termination for RS 485  
A. Power supply, B. Suitable MS Enclosure, C. CAT6 Patch cords cable to connect the EGX to the LAN | Set  | 1   |          |      |        |
| 3     | Supply of Smart Demand Controller with RS 485 Cl 1.0S                                           | No   | 1   |          |      |        |
| 4     | Mutifunction Energy Meter EM6400NG with RS 485 Cl 1.0S                                         | No   | 1   |          |      |        |
| 5     | Networking Components  
A. High Speed, Low loss data communication cable, B. CAT6 Data Communication Cable, C. 20mm dia 1.6mm Thick PVC Conduit with all accessories like bends, elbows, JBs, Clamps, Fasteners etc. | Set  | 1   |          |      |        |

**Sub total**

**Erection and Service Charges**

**Total Amount**

**Or Say**

Rupees in Words ____________________________________________

Signature of the Contractor

---

P a g e 25 / 25

Contractor

Accepting Officer