



**GOVERNMENT COLLEGE OF ENGINEERING, KALAHANDI,
BHAWANIPATNA**
(A Constituent College of BPUT, Odisha)

**QUOTATION CALL FOR SUPPLY AND INSTALLATION OF ENERGY
METER IN GCE KALAHANDI**

No. GCEK/456

Date: 25/07/2016

Sealed quotations are invited from registered vendor / dealers having valid TIN/VAT/SRIN number to supply and installation of Energy Meter both single phase and three phase according to the given specification along with Rs.500/- (Non Refundable) in shape of DD in favour of "Principal, Govt. College of Engineering Kalahandi," payable at Bhawanipatna. The quotation must reach the office of the undersigned by post on or before 10/8/2016 by 2.00PM. The quotation will be opened on 11/08/2016 at 2 PM. The vendor / dealers must have to submit recent VAT clearance form for this current year. Quantity mentioned below may increase /decrease. For details, kindly visit our college website www.gcekbpatna.ac.in.

Technical Specification

Single Phase Digital Energy Meter

Technical specifications:

| | |
|-----------------------------|-------------------------------|
| Electrical Connection type: | Direct connected |
| Wiring configuration: | Single phase, two wire |
| Voltage range: | 230/240 V (L-N), -40% to +30% |
| Current range: | 5-30 A |
| Accuracy Class: | 1.0, Class B |
| Mains frequency: | 50 Hz \pm 5% |
| Burden Voltage circuit: | < 1 W, 1.75 VA |
| Current circuit: | < 0.1 VA |

Compliance Standards:

IS 13779, CBIP88, IEC 62052-11, IEC 62053-21, EN 50470-1, EN 50470-3*

Mechanical:

| | |
|------------|---|
| Enclosure: | Engineering plastic |
| Sealing: | Two sealing screws on main cover, Single sealing screw on terminal cover. |

Environmental:

| | |
|---------------------|--|
| Ingress protection: | IP 51 |
| Insulation class: | Protective class II |
| Impulse withstand: | 6 kV |
| Temperature: | -20 °C to +65 °C (operating) -30 °C to +70 °C (storage) |
| Humidity: | 95% non-condensing |

Features

| | |
|-----------------|---|
| Tariff: | Up to 4 rates |
| Maximum demand: | Up to 2 types, configurable in 4 registers |
| Load survey: | Minimum 35 parameter-days with 30-minute integration period |

Backlit LCD display with annunciators for various critical events.

Communication

For local and remote communications.

Three Phase 4 wire Digital Energy Meter

Technical specifications:

| | |
|-----------------------------|-------------------|
| Electrical Connection type: | CT-operated |
| Wiring configuration: | 3-phase 4-wire |
| Voltage range: | 230/240 V (P-N) |
| Current range: | -/5(10) A |
| Accuracy Class: | Class 0.5s for LT |
| Mains frequency: | 50 Hz \pm 5% |
| Burden Voltage circuit: | < 1 W, 1.75 VA |
| Current circuit: | < 0.1 VA |

Compliance Standards:

IS 14697, IEC 62052-11, IEC 62053-21, IS 15959

Mechanical:

| | |
|------------|--|
| Enclosure: | Engineering plastic |
| Sealing: | Two sealing screws on main cover, Single sealing screw on terminal cover. |

Environmental:

| | |
|---------------------|--|
| Ingress protection: | IP 51 |
| Insulation class: | Protective class II |
| Impulse withstand: | 6 kV |
| Temperature: | -20 °C to +65 °C (operating) -30 °C to +70 °C (storage) |
| Humidity: | 95% non-condensing |

Features

| | |
|------------------------|--|
| Tariff rate registers: | Up to 8 rate registers, for two energy channels |
| Maximum demand: | Up to 2 types, configurable in 8 registers |
| Load survey: | Up to 90 days load profile for 8 parameters (configurable), with 30 minute integration period |

Backlit LCD display with annunciators for various critical events.

Communication

Optical port for local communication
Optional RS 232 / RS 485 port on RJ-11 for remote communication.
Optional RS 485 port on RJ-11 with MODBUS.

Current Transformer:

Measurement class 200/5A

FINANCIAL SPECIFICATION

| SI No. | Name of item | Per unit including tax |
|--------|-------------------------------|------------------------|
| 1 | Single Phase Energy meter | |
| 2 | Three Phase Energy Meter | |
| 3 | Installation Charge per meter | |
| | Total | |

General Terms and Condition

1. DELVIERY OF GOODS: The material shall be delivered at **GCEK, Bhawanipatna** within 10 (ten) days from the date of issue of Purchase Order. The goods on delivery will be physically verified by GCEK, Bhawanipatna through local Experts of his Institute.
2. Quotationers will be mentioning the brand and detail of material along with price.
3. During transportation any damage of material will be responsible by quactioners.
4. The Institute shall also not be bound to accept the lowest quotation.
5. The Institute reserves the right to reject any or all or part of quotation without assigning any reason thereof.
6. The Institute will not under obligation, give any clarification to the agency/agencies whose quotations are rejected/not selected.
7. Rates quoted should be without any condition from the quotation. Conditional offer will be rejected.
8. An End amount @1% of total quotated cost (Non refundable) in shape of D.D. in favour of "Principal, Govt. College of Engineering Kalahandi, payable at Bhawanipatna.

Sd/-
Principal