

INDIAN INSTITUTE OF TECHNOLOGY GOA

At Goa Engineering College Campus

Farmagudi, Ponda, Goa 403401

E-mail: purchase@iitgoa.ac.in

GSTIN: 30AABAI1653D1ZF

PAN: AABAI1653D

TAN: BLRI08261B

Enquiry No: IITGOA/2019-20/053

Date: 24/02/2020

IIT Goa invites sealed quotations in two bid form for the supply of below mentioned item.

Sl. No.	Description of Item	Qty
1	DC microgrid energy management system (Detailed Specifications Attached)	01 Set
2	Electrical Vehicle charger (Detailed Specifications Attached)	01 No.
3	Voltage, Current, Power Frequency, Power factor, Energy, having RS485 Modbus Electronic Module with Coil CT & USB Cable (Detailed Specifications Attached)	02 Nos.
4	Super Capacitor 2.7V 500F 6 Pcs Set Super Capacitance with Protection Board (Detailed Specifications Attached)	03 Nos.

Terms & Conditions

1. Quotation must be valid for at least 90 days.
2. The GSTIN should invariably be mentioned in your offer.
3. Kindly attach a compliance certificate along with the technical quote.
4. Prices:

I) For Import Supplies:

- a) It is mandatory to quote prices in FOB basis only.
- b) In case of multiple options of same product, bidders are requested to quote only one best option and not multiple options.
- c) Payment terms: 90% payment by letter of credit and balance 10% will be paid by wire transfer after satisfactory installation and commissioning.

- II) **For Indigenous Supplies:**
- a) In case of multiple options of same product, bidders are requested to quote only one best option and not multiple options.
 - b) Payment terms: Within 30 days after the delivery and installation of the item at IIT GOA.
5. Delivery and installation should be made within 6 weeks of getting a confirmed order.
 6. Bidders should compulsorily quote for all the items specified in the tender enquiry. IIT Goa shall issue the purchase order to the technically qualified eligible bidder whose bid has been determined as the aggregate lowest evaluated financial bid.
 7. The suppliers shall provide the banking details along with their quote on their letterhead duly signed and stamped.
 8. Quotations shall be submitted in two parts;
 - 1) **Part – I (Technical)** should contain all the technical details and specification of the product. It should contain unpriced bid along with terms and conditions, compliance certificates, proprietary certificates (if applicable), any other certificates/details etc. This envelope should be marked as “Technical Bid”
 - 2) **Part -II (Financial)** The financial bid of the above item should be in a sealed envelope marked as “Financial Bid” and should contain financial terms and conditions.
 9. For any clarification, you may kindly contact Dr. Bidyadhar Subudhi (E-mail: bidyadhar@iitgoa.ac.in and Stores & Purchase Department (email: purchase@iitgoa.ac.in) till 04/03/2020.
 10. All sealed quotations must reach to the Assistant Registrar (Stores & Purchase), IIT Goa, at Goa College of Engineering Campus, Farmagudi, Ponda, Goa, 403 401 by 17.00 Hrs on or before 16/03/2020.

Sd/-
Asst. Registrar (S&P)

Specifications:

1.DC Microgrid Energy Management System – 1 set

- 3 kW Microgrid System with Multi-output Current and Voltage control Schemes
- Dual control approach (Voltage/Current)
- Input/ Output Voltage, Current and power measurement display units,
- Seamless control through NI-LabVIEW software
- Current Control with 0.1 A Accuracy, Voltage Control with 0.1 V Accuracy
- Over current, Over voltage, Over Power Protection
- Memory storage function in PC with excel export capability
- On board Voltage, Current sensors and complete digital display
- CC and CV mode for seamless control
- Complete system control either wirelessly or USB mode
- Automatic CC and CV switching

2.Electrical Vehicle charger- 1 No's

Technical parameters

Input voltage range: 6.00-60.00V Output voltage range: 0V-50.00V Output current:
0-20.00A Output power range: 0-1000W

Output current resolution: 0.01A

Output Voltage accuracy: $\pm (0.5\% + 1 \text{ digit})$

Output Current accuracy: $\pm (0.5\% + 2 \text{ digits})$

3.Voltage, Current, Power Frequency, Power factor, Energy, having RS485 Modbus Electronic Module With Coil CT&USB Cable – 2Nos

Measuring Range 10A (external transformer) With Coil CT & USB cable.

Voltage :

- Measuring range:80~260V
- Resolution: 0.1V
- Measurement accuracy: 0.5%

Current

- Measuring range: 0~100A
- Starting measure current: 0.02A
- Resolution: 0.001A
- Measurement accuracy: 0.5%

Active power

- Measuring range: 0~23kW
- Starting measure power: 0.4W
- Resolution: 0.1W

Power factor

- Measuring range: 0.00~1.00
- Resolution: 0.01
- Measurement accuracy: 1%

Frequency

- Measuring range: 45Hz~65Hz
- Resolution: 0.1Hz
- Measurement accuracy: 0.5%

Active energy

- Measuring range: 0~9999.99kWh
- Resolution: 1Wh
- Measurement accuracy: 0.5%

Over power alarm

- Active power threshold Should be set, when the measured active power exceeds the threshold, it can alarm.

Communication interface

- RS485 interface

4.Super Capacitor 2.7V 500F 6 Pcs Set Super Capacitance with Protection Board- 3 No's

- Rated Voltage: 16V
- Rated Capacity: 500F