

Centre of Excellence for Green Energy & Sensor Systems
Indian Institute of Engineering Science & Technology (IIEST), Shibpur
Howrah-711 103.

Advt. No: WEB/IIEST/CEGESS/18-19/80 Date : 02.01.2019

Notice Inviting Quotations

Sealed quotations are invited for the supply of :

Item 1: Bio Gas Engine.

Item 2: High Resolution power supply.

Item 3: High resolution Voltage probe and current probe.

Item 4: Three phase variac.

Item 5: Solar Emulator 1200W.

Item 6 : PV SYST software-3 user.

As per the following technical specification. The technical specification can be downloaded from the website. The document can be also obtained from the Centre of Excellence for Green Energy & Sensor Systems (**Contact : Prof. P.K. Nandi (HOD) / Prof. H. Saha**) between 10.30 a.m. and 5.30 p.m. on all working days. The invitation is valid for 07 working days from the date of publication of this notice.

SECTION I:- TERMS & CONDITIONS :

1. The last date of receipt of quotation is valid **for 07 working days** from the date of publication of this notice. Quotations received later will not be entertained under any circumstances.
2. Potential supplier are to submit the quotations in Sealed Cover to the Centre of Excellence for Green Energy & Sensor Systems in the following address:

**Prof. P.K. Nandi (HOD) / Prof. H. Saha
CEGESS
IEST, Shibpur
Howrah-711 103, India.**

3. **Item name must be mentioned on cover. If any vendor wants to be quoted for multiple items, they should be quoted individually item wise in sealed envelope and EMD may be submitted on the basis of the total quoted value. Combine quotation of different items will not be accepted. Order will be placed item wise.**
4. The price quoted should be inclusive of all Taxes in INR, duties and levies. Inclusion of Tax/Levy at a latter stage will not be accepted. Freight, Insurance charges should be clearly indicated. If GST is chargeable then price quoted should be inclusive of GST in INR. @ **5% (CGC will be provided by IEST, Shibpur)**.
Price should be CIF, IEST, Shibpur basic. **(Clearing charges and Custom duty will not be paid extra, it should be included with base price.**
5. Vendor should have proven track record of supply of same item and same value in IEST, IIT, NIT, IISc and any central Govt. Organization will get extra privilege.
6. Commercial Papers duly signed & must be attached.
7. **Earnest Money Deposit (EMD) : 2% of Quoted value in favour of “The Registrar, IEST, Shibpur” payable at Kolkata. (DD). (As per GFR 2017 Rule 170(i) applicable) in a sealed envelope. Sealed Envelope must be mentioned ‘EMD for the item no. ...’. For example ‘EMD for the item no. 1: Bio Gas Engine’.**
8. Quotation has to be kept valid for acceptance for a period of 6 months without any modifications in its terms and conditions.
9. Documents to be submitted with the Quotations :
 - General Conditions (Section I) and Important Instruction (Clint list) in original duly signed by the Proprietor/ Partner/ Director of the company as a token of acceptance of Terms and Conditions of Tender.
 - Latest PAN Card, GST documents, and copy of valid Trade License. (Photo copy duly signed) (Compulsory).
 - Demand Draft for Earnest Money Deposit.
 - Photo copy of Order duly sign.
 - Technical comparison matrix.
10. IEST, Shibpur, reserves the right to accept / reject all or any of the tenders without assigning any reason whatsoever.

SECTION II: TECHNICAL SPECIFICATIONS :-

Item 1.

Technical Specification for Bio Gas Engine

Engine-15 BHP, 2 Cylinder, Water cooled

Generator-10KVA, 8kW, 14A, 3phase, 50Hz, 1500 rpm, 0.8pf with Battery and battery Terminal, Manual power panel including its Installation and commissioning and testing at its full load.

Item 2.

Technical Specification for High Resolution power supply

3-output channel, 180W (60V, 3A) max per channel, setting resolution 10mV and 1mA, voltage ripple less than 1mV rms,

Ripple current less than 2mA rms.

Item 3.

Technical Specification for High resolution Voltage probe and current probe

(a) High resolution Voltage Probe for oscilloscopes

1) Bandwidths up to 50 MHz

2) Differential Input Impedance: 10 M Ω || 2 pF

3) Differential Voltage input: ± 1300 V

4) Common Mode Voltage : ± 1300 V

(b) High resolution current sensors for oscilloscopes

1) AC/DC – 100 kHz

2) 100 A peak

C) 150 mm Digimatic Vernier Caliper

Measuring Range: 0-150 mm

Resolution : 0.01 mm

Item 4.

Technical Specification for Three phase variac

415 V, 28Amp (Branded).

Item 5.

Technical Specification for Solar Emulator 1200W

Input line voltage 95-264 Volts, 45 -63 Hz, Single phase

Max open circuit voltage-121 V

Max voltage point-120V

Max. Short circuit current-10.5A

Output voltage ripple and noise-20mV p-p

Load regulation-Constant voltage 0.1%, constant current-0.1%

Line regulation-Constant voltage 0.1%, constant current-0.1%.

Item 6.

Technical Specification for PV SYST software-3 user

PV Syst software 6.77 version.