

**Office of the Dean Research and Consultancy
Indian Institute of Engineering Science & Technology (IEST), Shibpur
Howrah-711 103**

Project Code: DRC/DST/CEGESS/HS/019/17-18

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

Ref.: Tender Advt. No. CGE 1411, dated 11.09.2018

Notice Inviting Quotations

Sealed quotations are invited for the supply of :

- Item 1.** 3KW 48vdc to 380vac 3 phase Off Grid Power frequency inverter for Solar Generator.
- Item 2.** 2kW Three Phase Off Grid Inverter.

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. H. Saha**) between 10.00 a.m. and 6.00 p.m. on all working days. The invitation is valid for 07 working days from the date of publication of this notice.

Dean (R & C)

(A. Code DRC-T035/18-19)

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. H. Saha
CEGESS
IIEST, Shibpur
Howrah-711103, India.**

3. Item name must be mentioned on cover.
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. GST @ 5% is chargeable..
5. Vendor should have proven track record of supply in IIEST, IIT, NIT, IISc.
6. Commercial Papers (Like Trade License, GST & PAN) duly signed & must be attached.

SECTION II: TECHNICAL SPECIFICATIONS :-

Item 1.

3KW 48vdc to 380vac 3 phase Off Grid Power frequency inverter for Solar Generator

- Rated Power :- 3kW
- DC voltage :- 48V DC
- Input voltage :- 380V \pm 20%
- Input frequency :- 45-65Hz
- Output voltage :- 220VAC/380vac(three-phase four-wire system)
- Output frequency :- 50Hz \pm 1%
- Switching time :- Switching from the main supply mode to the battery mode: 50ms
&
Switching from the battery mode to the mains supply mode: 25ms
- Charge current :- Maximum 18A
- Inverter output protection :- Input over voltage/under voltage protection, DC under voltage protection, peak surge protection, overload protection 100-120%, 30s, >120%, 100ms
- Noise :- <45dB
- Ambient temperature for operation :- 0 to 50°C
- Relative humidity for operation/storage :- 0-90% (no condensation)

Quantity : 01 No.

SECTION II: TECHNICAL SPECIFICATIONS :-

Item 2. [2kW Three Phase Off Grid Inverter](#)

- Rated Power :- 2kW
- DC input voltage:- 48V
- Current :- 18-20A
- AC output voltage :- 380V \pm 20% V (Preferably 415 V for ideal three phase condition)
- Frequency :- 50Hz

Quantity : 01 No.