

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

Project Code: DRC/DST-INSPIRE/CEGESS/SP/008/16-17

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

Notice Inviting Quotations

Sealed quotations are invited for the supply of

Item 1. PUMPS (Vacuum Pump)

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: Dr. S. Patra) between 10.30 a.m. and 3.00 p.m. on all working days. The invitation is valid for 7 working days from the date of publication of this notice.

Dean (R & D)

(A. Code DRC-T022/17-18)

SECTION I: TERMS & CONDITIONS

1. The last date of receipt of quotation is valid **for 7 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:

**Dr. S. Patra
CEGESS
IEST, 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.
5. Vendor should have proven track record of supply in IEST, IIT, NIT, IISc.
6. Photo copy of Sales Tax & Commercial Papers duly signed & must be attached.

SECTION II: TECHNICAL SPECIFICATIONS

Item 1.

PUMPS (Direct Drive Rotary Vacuum Pump – 250 LPM)

Salient Features:

- Direct drive
- Air cooled.
- Less oil charge.
- Compact and rugged.
- Light weight.
- Gas ballast.
- Less noise and vibration.
- Built in anti suck back facility.

Specification of PUMPS (Direct Drive Rotary Vacuum Pump – 250 LPM):

Free air displacement capacity	: 250 lit/min (15M³/ hr.)
Ultimate vacuum at the intake with Mecleod Gauge (With Gas ballast Closed)	: 1×10^{-3} mb.
Vacuum with gas ballast open	: 5×10^{-2} mb.
Vacuum connection	: KF-25
Exhaust port	: KF-25
Motor Power	: ½ HP, Single- Phase. (230V/AC 50 Hz.)
Cooling	: Forced air cooling.
Pump rotation speed	: 1440 rpm.
Oil temperature	: 55 ⁰ C. after 7 hours.
No. of stages	: 2.
Oil Capacity	: 0.75 lit
Seal material	: Viton
Noise level	: 60 Db
Weight	: Light
Quantity	: 1 No.