

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

Project Code: DRC/DST/CEGESS/PC/007/18-19

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

Ref.: Tender Advt. No. CGE 1430, published in the "Statesman (All Edition)", "Dainik Statesman" & "Sanmarg", dated 07.12.2018

Notice Inviting Quotations

Sealed quotations are invited for the supply of:

Item 1. **Monocrystalline Si Wafers (N-type).**

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 / Prof. P. Chaudhuri**) 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.

(A. Code DRC-T047/18-19)

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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 / Prof. P. Chaudhuri
CEGESS
IEST, Shibpur
Howrah-711 103, 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. 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 include with base price.**
5. Vendor should have proven track record of supply in IEST, IIT, NIT, IISc.
6. Commercial Papers duly signed & must be attached.
7. **Earnest Money Deposit (EMD) : Rs. 4,000/- in favour of “The Registrar, IEST, Shibpur” payable at Kolkata. (DD). (As per GFR 2017 Rule 170(i) applicable).**
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 Income Tax, Sales Tax, Professional Tax, CST clearance certificates and copy of valid Trade License. (Photo copy duly signed) (Compulsory).
 - Demand Draft / Pay Order for Earnest Money Deposit.
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.

Monocrystalline Si Wafers (N-type)

Crystallinity : Mono crystalline

Type : N

Dopant : Phosphorus

Oxygen Concentration : ≤ 20 ppma

Carbon Concentration : ≤ 2 ppma

Resistivity : 0.5 - 7 ohm-cm

Lifetime ≥ 1000 us

Flat orientation : $\langle 100 \rangle \pm 0.3^\circ$

Diagonal Length : 210.0 ± 0.25

Flat to Flat length : 156.75 ± 0.25

Thickness : $150 + 20/-10$ microns

TTV ≤ 30 um

Bow ≤ 50 um

Warp ≤ 50 um

Surface Contamination : As-cut cleaned, No stains visible to the naked eye.

Edge Chips / Indent : (Length 1.5mm x Depth 0.5mm) ≤ 1 ea

V Chips : None

Cracks / μ -cracks : None

Scratches : None

Pin holes : None

Quantity : 400 Pcs.