

DEPARTMENT OF METALLURGY AND MATERIALS ENGINEERING

Indian Institute of Engineering Science and Technology, Shibpur

Howrah-711 103

Enquiry No. 11/MET/IEST/2018-19

Date: January 4, 2019

To,

All the Enlisted Suppliers/Dealers/Manufacturers

Sealed quotations are invited for supply of the following Equipment for the Dept. of Metallurgy and Materials Engineering, IEST, Shibpur. The sealed quotations should be addressed to the Head of the Department, Dept. of Metallurgy and Materials Engineering, IEST, Shibpur, P.O. Botanic Garden, Howrah - 711103 indicating enquiry no. with date on the top of the sealed envelope. The sealed quotations should be submitted at the office of the department on any of the working day up to 22/01/2019 till 5.00 P.M.

Item No. 1

UNIVERSAL STRENGTH MACHINE (Hydraulic)

Consists of hydraulic unit, high and low pressure gauge, set of compression pads (Compression, Shear, Tensile, Transverse & Deformation Strengths testing attachments) to conduct different tests on moulding sands.

Specification:

Strength Measurement range:

Low pressure gauge

- 1) Compression: 0 to 1600gms/cm² or better
- 2) Shear : 0 to 1300 gms/cm² or better
- 3) Tensile: 0 to 6 kg/cm² or better
- 4) Transverse: 0 to 60 kg/cm² or better

High pressure gauge –

- 1) Compression: 0 to 13 kg/cm² or better
- 2) Shear: 0 to 10 kg/cm² or better
- 3) Tensile: 0 to 50 kg/cm² or better
- 4) Transverse: 0 to 500 kg/cm² or better

With High Dry Strength Attachment:

- 1) Compression : 20-200 kg/cm² or better

Sand Type: Green Sand, Resin coated sand, No-bake Sand, Oil Sand and CO₂ Sand

Test to be conducted: Various Strength i.e. Compression, Shear, Tensile, Transverse & Deformation Strengths.

Item No. 2

Sand Rammer with Base Block

The Sand Rammer is used to prepare a standard Ø50 mm x 50 mm height specimen to determine the compactability of prepared moulding sand. The sand specimen prepared with sand rammer is generally further to be used to in various tests such permeability, compressive strength, shear strength etc.

Description

Mechanism: Consists of calibrated sliding weight actuated by cam, a cup, a specimen stripper, a specimen tube to prepare the standard specimen of 50mm Dia. & 50mm Ht.

Applicable to Sand Types: Green Sand, Oil Sand, CO₂ Sand etc.

Application:

To prepare standard test specimen.

Terms and conditions:

- i. All rates quoted should include all taxes, levies & duties. **Request for inclusion of any tax/levy at later stage will not be entertained.**
- ii. Transportation, Packing, Forwarding, installation, training and Insurance Charges if any to be charged should be specifically indicated.

- iii. Delivery place : IEST, Shibpur
- iv. GST applicable will be 5% for research facility of the Institute. The certificate will be provided by the Institute with the Purchase Order
- v. The Institute reserves the right to accept or reject all or any of the quotation without assigning any reason whatsoever. The decision of the Institute shall be final in case of any dispute.
- vi. The work must be completed by 2 weeks from the date of issue of Purchase Order.
- vii. Bills in Triplicate should be presented for payment within 07 days of supply/completion of work.
- viii. The Order no. is to be noted on both challan & Bill.
- ix. All bills are to be accompanied with the order copies and challans.
- x. Payment will be made within 60 days from Submission of proper bills; challans etc. by A/c payee cheque. **No Cash payment will be made under any circumstances. No advance payment can be made All payments are subjected to statutory deductions as and when applicable.**
- xi. **For Foreign Purchase (This clause is applicable only for foreign purchase and not applicable for Indian purchase)**
 - i) Payment will be made through Letter of Credit/Bank Transfer. AWB, Packing list, Warranty certificate, etc. should be provided.**
- xii. SELECTION WILL BE MADE PURELY ON ESSENTIAL TECHNICAL DOCUMENTS. The IESTS authority will evaluate and compare the quotations (the gross amount i.e. inclusive of all taxes, other charges etc.) determined to be substantially responsive i.e. which- (a) meet the qualification criteria specified in the tender, (b) Are properly signed, and (C) Conform to the terms and conditions, specifications without deviations.
- xiii. Only one best quality item (according to our specification) should be quoted against each item. On no account should different qualities e.g. A, B, & C of items be quoted. Those items that have been quoted as per different qualities (In contravention to the specifications) will not be considered at all and will be summarily rejected.
- xiv. Based on our specifications, image/drawing of item to be provided and Model Name/No. (if applicable) and Brand must be clearly mentioned in the quotation, without which quotation will not be considered.

- xv. All the equipment and accessories will carry a guarantee for a period of 12 months from the date of commissioning. Guarantee for all the items supplied will be on 'all comprehensive' basis, i.e., including repairs, replacements, maintenance etc. Calibration / Test Certificate must accompany along with the equipment. Supply of equipment shall include installation, erection, commissioning and demonstration. Indian Institute of Engineering Science and Technology, Shibpur, Howrah reserves the right to accept/ reject all or any of the bidders without assigning any reason whatsoever.
- xvi. Scanned copy of Manufacturer's catalogue of the items must be provided with the quotation without which the bid will be rejected.
- xvii. The bidder must submit photo copy of valid Trade License, GST certificate, Professional tax certificate and PAN card along with the quotation.

Ghosh
04/01/2019

(Prof. Sumit Ghosh)

Head
Prof. Sumit Ghosh
Head
Dept. Of Met. & Mat. Engg.
Indian Institute of Engineering
Science and Technology, Shibpur
Howrah-711 103

Copy forwarded for information to:

Institute Website, IEST, Shibpur, Howrah-711103

For details the vendors may contact Mr. Santanu Chattopadhyay (Mobile No. 9830229800) during working hours.