SECTION I: TERMS & CONDITIONS AND IMPORTANT INSTRUCTIONS FOR BIDDERS

1. Bidders are invited to submit quotations for technical specifications as per requirement and their price details in separate sealed envelope after accepting the terms and conditions. All the sealed envelopes should be placed in a common sealed envelope, superscripted with the **Ref. Advertisement No. and date along with the bidders name and address and send to** The Head, School of Community Science and Technology (SOCSAT), Indian Institute of Engineering Science and Technology (IIEST), Shibpur; Howrah- 711103, or directly to the office of the SOCSAT at the State Bank building,BESU Branch (1st Floor).

2. Bidders have to deposit **2% EMD** of the quoted value **in favour of Registrar, IIEST, Shibpur.** The EMD should be enclosed with the Technical Bid. Vendors are requested not to quote any alternative offers in a single quotation. Alternative offer if any, may be submitted as a separate quotation along with **2% EMD**.

3. Technical Bid should include the technical details and specifications as per requirement, International Standards (BIS/INTERNATIONAL), Catalogues, List of users & / Operating Parameters, Pre-Installation Requirements and the Warranty period.

4. Prices are to be quoted **as "CIF IIEST, Shibpur".**

5. The Price Bid should be inclusive of all taxes, duties and levies. Inclusion of Tax/Levy at a later stage will not be accepted. Freight and Insurance charges and Payment terms should be clearly mentioned. Price has to be mentioned in Indian Rupees and/or in foreign currency if required. Essential Accessories & Spares are to be indicated. Discount offered, if any, and conditions thereof must be clearly stated in the bid itself. Interlineations, corrections, erasures and/or over writings shall be valid only if initialled by the persons or persons signing the bid.

6. Quotations are to be submitted **on or before last date of submission,** except Saturday, Sunday and other public holidays. After the deadline of submission quotations will not be entertained under any circumstances.

7. Date and time of the Bid will be opened**,** on **17th October, 2016** at **2.00 P.M.** in the office of the School of Community Science and Technology (SOCSAT), Indian Institute of Engineering Science and Technology (IIEST), Shibpur; Howrah- 711103.

8. Technical Bid will be considered first. Items qualifying in the Technical Bid will be considered for the Price Bid.

9. Customs Duty & Excise Duty

- The University will not issue any C or D form availing of concessional Sales Tax/ VAT.
- The Institute will issue Customs Duty Exemption Certificate or Excise Duty Exemption Certificate for foreign purchase, if required.

10. Warranty

· Warranty/guarantee for all the items of equipment/furniture supplied shall be on 'all comprehensive' basis (i.e., including repairs, replacements, maintenance, etc.).

· Minimum applicable period of all comprehensive warranty for all items of equipment shall usually be **3 (three) years** from the date of acceptance by the Institute, unless mentioned otherwise.

· Repairs/ replacements/ maintenance services shall normally be carried out at site, within a reasonable time, on requisition/intimation from the purchaser. In case the equipment needs to be transported to workshops, all arrangements must be made and all expenses must be borne by the supplier.

11. Submission of Bids

· Bidder shall submit quotations in **sealed envelope only**, **using his/their own stationery.**

· **The bidder must mention the make, model and full detail specifications of the items quoted**.
Mere copying of the specifications mentioned by the purchaser or mentioning words like "complying"/"compliable" is not sufficient.

· Envelope containing bids must bear, on the cover itself, name and full address of the bidder. Advertisement number and date & time of bid opening shall also be super-scribed on the cover.

· **For bids submitted by post or courier, it is bidder's responsibility that bids reach the purchaser's office before the scheduled time of closure of submission of bids.**

12. Validity Period of Quotation

Quotation shall remain **valid for a period not less than 60 days** after the deadline date specified for submission.

13. Evaluation of Quotations

· The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e.,

(a) are properly signed
(b) conform to the terms and conditions, and technical specifications; and

· Evaluation of bids shall be made **item wise separately.** For this purpose, all sub-items and accessories, if any, of an item will be taken together and considered as one item.

14. Award of contract

· In the assessment/judgment and sole discretion of the Institute, the Purchaser will award the contract to the bidder,

· (a) whose quotation has been determined to be technically and commercially acceptable, and
(b) who has the technical and financial capability to execute the contracts

- The bidder must have all the necessary license/certificates/tax clearance certificates from concerned authorities for carrying normal manufacturing or trading business/ execution of similar projects and shall be liable to furnish them on demand by the Institute or by the authorities concerned. **These certificates need not be attached with bids but shall be produced on demand.**
- Prior to expiration of the quotation-validity-period, the award of contract/contracts by the Purchaser will be notified to the bidder/bidders, whose offer/ offers has/have been accepted. The terms of the accepted offer/offers shall be incorporated in the purchase order.

15. Delivery

The materials are to be supplied in the School of Community Science and Technology (SOCSAT), (IIEST), Shibpur; Howrah- 711103 between11.00 a.m. and 4.00 p.m. The Bidders/Suppliers will be responsible for anybreakage, damage or defect in the equipment detected subsequently. The supply and installation of the equipment should be completed within a period not exceeding 03 months from the placement of the formal work order or opening of the LC, failing which appropriate action will be taken as per Institute Rules. If the supply is not completed within the stipulated period as indicated in the Work Order, a Liquidated Damage @ 0.5% per week will be imposed, subject to maximum of 5% of the value of the work order.

16. Bills and Payments

- Bills and Challans in triplicate should be presented for payment within 15 days of supply /commissioning of work. No advance is paid for execution of the order except in the case of direct supply by foreign vendors. The Order No. is to be noted on both Challan and Bill. All bills are to be accompanied by order copies and Challan receipt.
- Payment will be made on submission of Proper Bills, Challans etc, by A/C Payee Cheque or L/C and no cash payment will be made under any circumstances.
- All payments are subjected to statutory deductions as and when applicable.

17. Preference will be given to reputed indigenous manufacturers having proven track record with service and maintenance capability in Kolkata/ India.

18. Indian Institute of Engineering Science and Technology, Shibpur (Formerly, Bengal Engineering and Science University, Shibpur), Howrah reserves the right to accept / reject all or any of the tenders without assigning any reason whatsoever.

We accept the above terms and conditions.

Dated:

Signature of Bidders/Suppliers
With date & Seal

SECTION-II: ITEM LIST WITH TECHNICAL SPECIFICATIONS

Sl No.	Technical Specification
1.	**Melting Point Analyser** Temperature Range : 5ºC Above Ambient to 400ºC Heating before set point: Automatic Temperature Heating depending upon temp. diff. Oven Controller : Microcontroller Based Temperature Resolution : 0.1ºC Max. Heating Time : Less then 10 Minutes from 50ºC to 350ºC Max. Cooling Time : Less then 10 Minutes from 350ºC to 50ºC Melting Capillary : One Capillary (Single Channel) Accuracy of Temp.: 1. Ambient +10ºC to 100ºC…… ± 0.2ºC. 2. 101ºC to 200ºC ……. ± 0.4ºC. 3. 200ºto 350ºC …….. ± 0.5ºC. **Sample :** Borosilicate Capillary Tube Two End Open
2.	**Muffle Furnace** High accuracy laboratory electric furnaces with fibre insulated chambers that are intended for hardening,loosening, normalizing, and other thermal processingprocesses up to a temperature of 1300°C. To eliminate gasses or smoke released during thermalprocessing, ventilation hatches and an exhaust system maybe additionally installed in the productsHeating elements exposed on ceramic tubes Microprocessor-controlled thermoregulator Exterior painted with powder coating (RAL 7035) Volume 8.2Litre Chamber Dimension 200x300x133 mm(WxLxH) Overall Dimension 440x620x510 mm (WxLxH) Power 1.8Kw.Voltage 230VAC 50Hz. Weight 32 Kgs
3.	**Vertical Pressure Autoclave 10Litre** Temp. scope 50-134°C. Time scope 0-99h. Overpressure auto-discharging 0.145-0.165Mpa. Automatic shut down with beep reminding after sterilization
4.	**Gel electrophoresis (Biorad)** <u>Mini Protean Tetra Cell 2 Gel system Specification :</u> High throughput- Capable of running up to 4 mini gel (8 X 7 Cm) simultaneously. Flexible- Capable of running hand cast as well as precast gel. Running and casting module should be different Interchangeable module- Should be capable of using blotting module to do western blotting. Leak proof, tape free and easy assembly.

	Patented Flap wing for leak proof assembly. Permanently bonded spacer plates for leak proof, without agarose sealing & taping casting of gels. Casting frame with simple cam closure mechanism that gives precision alignment on any flat surface. Side by side casting stands that allow access to both gels simultaneously. Patented colored sample loading guides to prevent the skipping or repeated loading lanes. Modular design can be used do western blotting by using the blotting module only. Should able to run gels in 15-20 mins. Should come with buffer dam. **It Should be Supplied with 10% Stainfree Fast Acrylamide Starter Kit** **Power supply basic specification:** Programmable power supply should be capable to operate four electrophoresis units simultaneously for four identical runs with graphic LED display. **The output range should be 10-300 V, 0.4-400 mA, 1-75 W.** Constant voltage, current or Power with Automatic crossover Memory storage: 9 programs, 9 steps, Timer Control: 99 hr, 59 min Automatic Power up after Power failure, Safety features: No-load detection; sudden load change detection.
5.	**Micropippette** Volume Range: 0.1 – 2.5µl Increment: 0.05 µl Test Volume: 2.5 µl(Maximum Permissible Error: 2.50%) 1.25 µl(Maximum Permissible Error: 3.00%) 0.25 µl(Maximum Permissible Error: 12.00%) Volume Range: 0.5 - 10µl Increment: 0.1µl Test Volume: 10µl (Maximum Permissible Error: 1.00%) 5µl(Maximum Permissible Error: 1.50%) 1 µl(Maximum Permissible Error: 2.50%) Volume Range: 10 - 100µl Increment: 1 µl Test Volume: 100µl (Maximum Permissible Error: 0.8%) 50 µl (Maximum Permissible Error: 1.00%) 10 µl (Maximum Permissible Error: 3.00%) Volume Range: 100 - 1000µl Increment: 5 µl Test Volume: 1000 µl(Maximum Permissible Error: 0.60%) 500 µl(Maximum Permissible Error: 0.70%) 100 µl (Maximum Permissible Error: 2.00%) Volume Range: 1000 - 5000µl Increment: 50 µl Test Volume: 5000 µl(Maximum Permissible Error: 0.50%)

	2500 µl(Maximum Permissible Error: 0.60%) 1000 µl(Maximum Permissible Error: 0.70%)
6.	**Gas Burner** Programs Button: Start-Stop mitUbetwachungs timer, 60 min Safety features Safety Control System (SCS) with gas safety cut off: ignition & flame Flame temperature: 1200°C
7.	**GLC Gas** Empty Cylinder for Zero air Capacity 47 Ltrs. Pressure : 135-145 kg/cm2 Empty cylinder for H2 Capacity : 47 Ltrs Purity: 99.997% Pressure: 120-130 Kg/Cm2 Empty cylinder for N2 Capacity : 47 Ltrs Purity: 99.999% Pressure: 135-145 Kg/Cm2 Zero Air Gas 7m3 (47 Ltrs.) H2 Gas 7m3 (47 Ltrs.) N2 Gas 7m3 (47 Ltrs.)
8.	**Desiccator** Desiccators- with Cover, and Porcelain Plate, Glass Knob Top Low Expansion 3.3 Borosilicate Glass **Ground Flange Inner Diameter: 250 mm**
9.	**Test Tube Rack** 20 position rack with different adapter for holding sample tubes.
10.	**UV Transilluminator** UV Safety Shield:Clear Transparent lid for excellent clarity Fuse:2.5 AMP, cooling fan View Dimension 25cmx13cm, Satebeam Filter UV Lamp 4nos x 360nm 8W
11.	7890 Split Vent Valve Replacement Kit For Gas Chromatograph (Agilent Make) OEM ITEM
12.	Spare parts of JASCO UV-VIS Spectrophotometer ModelV-630 (JASCO Make) OEM ITEM a)Filter with holder for V-630 (filter wheel) b) Deuterium lamp c)Tungsten Halogen Lamp d)Light Source Mirror and Transparent Instrument Cover