

GOVERNMENT OF ASSAM
OFFICE OF THE PRINCIPAL CUM CHIEF SUPERINTENDENT
Tezpur Medical College & Hospital, Tezpur, Bihaguri - 784010, Assam
(Under Society for Medical Education, Tezpur)

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Ref No. SMET/TMC/e-NIT/792/2017/ 945

Dated: 21/02/2018

SHORT NOTICE INVITING TENDER

Online bids under two bid systems are invited through e-tendering from reputed original manufactures or from their registered/authorized suppliers/distributors/ dealers/authorized sales & service partners only for supply and installation of instrument/equipment for use of Viral Research & Diagnostic Laboratory (VRDL), at TMC&H, Tezpur. The bid documents for the supply and installation of the required items will be available online from 26/02/2018 (17.00 Hrs. onwards). Last date to fill/upload the tender through e-tendering is 12/03/2018 upto 14:00 hrs. & technical bid will be opened at 11:00 hrs. on 13/03/2018. For submission and to view tender's other details, please refer detailed NIT on e-tender portal at <https://assamtenders.gov.in>

The Principal, TMC&H, does not bind himself to accept the lowest tender and reserves to himself the right to accept any or reject any or all tenders without assigning any reasons thereof.

Sd/-
Principal cum Chief Superintendent
Tezpur Medical College & Hospital
Tumuki, Bihaguri, Tezpur, Sonitpur, Assam

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DETAILED NOTICE INVITING TENDER

For

Supply and Installation of Instruments/Equipment for Viral Research & Diagnostic Laboratory
(VRDL), at TMC&H, Tezpur

e- Tenders are invited by the Principal of Tezpur Medical College & Hospital (TMC&H), Tezpur, from reputed original manufactures or from their registered/authorized suppliers/distributors/dealers/authorized sales & service partners only for supply and installation of instrument/equipment for use of Viral Research & Diagnostic Laboratory (VRDL), at TMC&H, Tezpur as per terms & conditions contained in this Tender document.

Any future corrigendum(s)/addendum (s) etc., if any, shall be communicated through the e-procurement portal only.

The Contractual Agencies should follow the following key dates in order to properly participate in the tender process:

Key Dates

S. No	Tender activity schedule	Date & Time
1	Publishing Date	26.02.2018 15.00 Hrs
2	Document Download Start Date	26.02.2018

		17.00 Hrs
3	Bid Submission Start Date	27.02.2018 14.00 Hrs
4	Bid Submission Closing Date	12.03.2018 14.00 Hrs
5	Manual Submission of Tender Fee, EMD and Hard Copies of Technical Bid	12.03.2018 Upto 13.00 Hrs.
6	Bid Opening Date (Technical Bid)	13.03.2018 11.00 Hrs.
7	Financial Bid Opening Date	Will be intimated Later

In case the day of opening of e-tenders happens to be holiday, the tenders will be opened on the next working day.

The date of opening of Financial Bid shall be fixed at the time of opening of Technical Bid.

GENERAL TERMS AND CONDITIONS

1. **Earnest Money Deposit (EMD) of Rs 1,00,000/-** (Rupees one lakh only) in the form of a Demand Draft of a Nationalized or scheduled bank issued in favor of “Member Secretary, SMET, Tezpur” and payable at Tezpur shall be required to be tendered by the prospective contractors . The EMD shall be released to un-successful bidder after completion of the tender process, subject to compliance to all other terms & conditions of Tender. The EMD of the successful bidder will be returned after completion of supply as ordered. **Payment will be approved only after physical receipt of the Demand Draft.**

2. **Tender Fee** of Rs. 2,000/- (Rupees two thousand only) (Non-refundable) in the form of demand draft only, payable to “Member Secretary, SMET, Tezpur” and payable at Tezpur shall be required to be submitted by the bidders without which the tender will be regarded as non-responsive. **Payment will be approved only after physical receipt of the Demand Draft.**

3. Qualification criteria:

- (i) The tenderer should be original manufacturer or their registered/authorized suppliers/distributors/dealers/authorized sales & service partners only. All bidders, who are not manufacturers, must get a valid letter of authorization from the principal supplier or manufacturer.
- (ii) The tenderer should have minimum 3 years of experience in the supply and installation of similar and/or identical items to the Govt. sector-Research Institute only, Medical College, ICMR project etc. the value of which is minimum 70.00 Lac has to be submitted. Necessary supporting documents like supply orders, performance certificates to this effect must be submitted in the technical bid along with the offer.
- (iii) Commitment of efficient after sales service from the bidder and that should be locally available for prompt action.

4. If the tenderer would like to quote for more than one model for the same specifications, say for example for two models, two separate tenders with separate EMD's shall have to be submitted.

5. Bid Price: The rates should be quoted in Indian Rupees (INR) only. All quoted rates should be for F.O.R. destination at TMC&H, Tezpur (including packing, forwarding and insurance charges). Foreign/imported goods should also be quoted in Indian Currency with foreign exchange rate and have to be supplied by the supplier directly to us without opening of Letter of Credit. For imported items the quoted rate should be on FOB basis. Freight Charges and Insurance may be mentioned separately. The rate should be inclusive of all charges and mandatory Govt. levies and taxes, where applicable. The chargeable amounts should be clearly mentioned in financial bid/commercial envelope. In absence of any specific mention, the same shall be treated to be included in the cost of the equipment.

6. The tender of the bidders who does not satisfy the qualification criteria as mentioned above are liable to be rejected summarily without assigning any reason and no claim whatsoever on this account will be considered.

7. All quotations/tenders should be deemed valid for at least 90 days from the date of opening the tender.

8. The tender not quoted according to the laid down standard specification and conditions will be rejected straightway.

9. Bidder will quote firm & competitive rates. No condition like discount in price, free goods /incentives will be accepted towards finalization of the tenders.

10. Any terms and conditions of the tendering firms not appearing in the body of the tender document will not be considered as forming part of their tenders. Tendering firms should submit their tenders with reference to the terms and conditions prescribed hereinafter which shall form part of terms of supply orders to the approved tenderers.

11. Documents establishing good conformity to tender document. The tenderer shall provide in its tender the required as well as the relevant documents like technical data, literature, catalogues etc. to establish that the goods and services offered by him in the tender fully conform to the goods and services specified by the purchaser in the tender documents. For this purpose the tenderer shall also provide a clause-by-clause comment on the technical specifications and other technical details incorporated by the purchaser in the tender documents to establish technical responsiveness of the goods and services offered in its tender. In case there is any variation and/or deviation between the goods & services prescribed by the purchaser and that offered by the tenderer, the tenderer shall list out the same in a chart form without ambiguity and provide the same along with its tender. If a tenderer furnishes wrong and/or misleading data, statement(s) etc. about technical acceptability of the goods and services offered by it, its tender will be liable to be ignored and rejected in addition to other remedies available to the purchaser in this regard.

12. The Tenderer may be required to demonstrate the functioning of the equipment offered by them at the time of consideration of the technical bid. The demonstration, if necessary shall be done at TMC&H, Tezpur at the tenderer's own cost.

13. Since it is an Item Rate Tender, tender for part of the requisite items will also be accepted. However, in that case, the amount EMD will remain the same.

14. The tenderer will have to produce original copy of all documents if asked for when required.

15. Manual Submission of Tender Fee and EMD along with Hard Copies of Technical Bid: In this envelope, the bidder shall include the following documents in physical form. The Tender Reference No, name of work and name of tenderer are to be mentioned clearly on the envelope. This envelope must reach the tender inviting authority before the expiry date & time of bid submission.

- a. Demand Draft towards tender fee in original.
- b. Demand Draft towards EMD in original.
- c. Hard copies of Technical bid. For any discrepancy between the online technical bid and the hard copies of the technical bid, the online technical bid will prevail and govern the evaluation.

Note: As the reference details of EMD and tender fee instruments are required to be filled at the time of online bid submission stage, the bidders are required to keep a copy of the same before manual submission.

16. Canvassing, whether directly or indirectly in connection with the tender, is strictly prohibited and the tenders, submitted by the bidders, who resort to canvassing, will be liable to rejection.

INSTRUCTIONS TO BIDDERS

- 1. Clarification on e-Tender Document:** A bidder requiring any clarification on any issue of the e - tender document may take up the same with the e-tender inviting authority in the pre-bid meeting. Further, any doubt to the implication of any of part of the terms & conditions or of the specifications may be clarified from this office before submission of tender.
- 2. Documents to be submitted along with the Technical Bid:-**It should contain all the relevant information and desired enclosures along with Tender Fee & Earnest Money Deposit (EMD). The tenderer must upload and submit the following documentary proofs duly signed, stamped on each page of the same in the technical bid:
 - (a) Scanned copy of Demand Draft (EMD) or documents in support of EMD exemption.
 - (b) Scanned copy of Demand Draft (Tender Fee).
 - (c) The entire tender notice in token of acceptance by the tenderer of all terms & conditions.
 - (d) Income Tax Pan.

- (e) VAT/CST/Service Tax/GST registration certificate (As statutorily applicable) clearly showing the class/classes of goods/services for which registration has been obtained along with copy of last return filed.
- (f) Declaration in case of manufacturer or current authorization letter.
- (g) Certificate of Incorporation/Partnership Deed.
- (h) Proof of office address.
- (i) Valid Manufacturer/Trade Licence.
- (j) Literature & Catalogues in support of items quoted must be enclosed.
- (k) ISO, CE, ULT or other quality certificates issued from the competent authority.
- (l) If any Instrument/Equipment is proprietary nature, Proprietary Article Certificate should be provided.
- (m) The bidder must give details about the nearest service centre and service engineers contact details including phone number and email id.
- (n) Power of Attorney in favour of signatory of bid.
- (o) User List along with supply orders and performance certificates.
- (p) Income Tax Return Filed Acknowledgements for last Three years along with audited Balance Sheet and Profit & Loss A/c for last 3 years duly authenticated by a Chartered Accountant.
- (q) Turnover certificates for the last three years duly authenticated by a Chartered Accountant.
- (r) The tenderers shall furnish a non —blacklisting certificate in the form of an Affidavit, attested by the Notary Officer on a non-judicial stamp paper of appropriate value that there is no vigilance/CBI case pending against the firm/supplier and that the firm has not been blacklisted in the past by any government/Private institution.
- (s) Bidder's undertaking.

Important Points:

- a. In the event of non-receipt of any of the above documents with the Technical Bid, it will be presumed that the bidder could not fulfill that particular criteria and hence the bidder will be disqualified from the process.
- b. Tender found defective in any of above codal formalities shall be rejected directly.
- c. It is the responsibility of bidder to go through the e-tender document to ensure furnishing of all required documents in addition to above, if any.

- d. **Hard copies of documents uploaded and submitted in the technical bid along with the original copies of demand drafts in respect of EMD and Tender Fee should reach the e-tender inviting authority on or before closing date and time as mentioned in the key dates.**
3. Documents to be submitted along with the Financial Bid:- It should contain Price Schedule/Bill of Quantity (BOQ): Here the bidder should quote rates online in the Bill of Quantity (BOQ) in the space marked for quoting rates. **The tenderer must also additionally upload and submit the Supplementary to BOQ Part-I and Supplementary to BOQ Part-II, as per prescribed formats, with Financial Bid.**
4. **ACCEPTANCE OF TENDER:**
- a. This office does not pledge itself to accept the lowest or any tender and reserves the right to accept the whole or any portion of the tender. Also this office itself has right to increase or decrease or drop or split up the quality and place the supply order on one or more tenders and the tenders must supply at the quoted rates.
 - b. Brand value and productivity of the quoted items will be considered while selecting the items. The purchaser's evaluation of bids will take into account, in addition to the bid price and the price of incidental services, the following factors:
 1. Delivery schedule offered in the bid,
 2. Deviations in payment schedule from that specified in NIT.
 3. The cost of CMC.

SPECIAL TERMS AND CONDITIONS

(Annexure to Agreement)

1. The rate quoted by the bidder should not be higher than the rates at which it may have supplied and installed such items to other Government Institutes/ Ministries/ Departments/ PSUs etc.
2. Brand names, models, manufacturer names and customer list of the items should be furnished clearly.
3. The bidder should clearly indicate the guarantee / warranty status of each item separately. Guarantee/ Warranty Certificate must be provided at the time of supply.
4. All quoted items should have warranty/guarantee for a period of at least 2 years with spares from the date of installation followed by Comprehensive Maintenance Contract (CMC) for a period up to 3 years after warranty/guarantee period. The warranty charges should not be quoted separately otherwise the offer shall be summarily rejected. All software updates should be provided free of cost during warranty period. Also the bidders are requested to submit their quote for comprehensive AMC in respect of

equipment. Failure to comply this condition will entail the rejection of the bids. Charges for CMC including all spares and accessories for the quoted items should be mentioned on %age and p.a. basis and attached separately. While deciding the tender, CMC charges shall also be taken into account as the the price comparison shall be made taking into account on basic price and post warranty AMC.

5. **Delivery Period and applicable penalty for delayed supply and non-supply:** The maximum delivery period from the date of placing the supply order shall be 1 month. For delayed supply penalty @ 10% p.a. of the amount involved shall be imposed & calculated on daily basis for a maximum period of further 1 month. Thereafter, the supply order shall stand cancelled and the EMD shall be forfeited besides debarring the supplier for participation in tendering process in future. For imported Instruments/Equipment, the delivery period shall be up to 90 days. In case the items are urgently required the firms will have to supply the items on urgent basis. However in exceptional circumstances and on written request the extension of the date of supply may be considered at the discretion of the Principal, TMC&H.
6. **Training:** The tenderer will be required to organize training if required for using the equipment/instruments and conduct such training at his own cost.
7. **Contract:** The successful bidders will be required to enter into an agreement with the college on a non-judicial stamp paper of Rs.20/- for the supply and satisfactory installation & running of the equipment as per specification and terms and conditions listed in this tender document and agreed upon.
8. Rates of quoted items should include the rates of main equipment/instrument and its standard accessories only. Optional items shall not be taken into account for finalization of the total cost.
9. **Payment/ Payment Schedule:** Payment will be made only after the receipt of the items in good condition as per specification against the order. In case of equipment, 90 % payment will be released after receipt of the certificate from the concerned department that the equipment has been installed by the firm in fully functional condition according to their specifications, and the balance 10 % will be released after the expiry of the guarantee/warranty period from the date of installation (Alternatively, the tenderer should be required to submit Bank Guarantee from a **Nationalized Bank** of 10% of the cost of the equipment at the time of delivery of the Instrument which will be retained by the institute upto the expiry of the guarantee/warranty period from the date of installation. No advance payment will be made.
10. **Disputes Settlement:** All disputes or differences arising under, out of or in connection with the contract/supply shall be subject to the exclusive jurisdiction of Court within the local limits of Tezpur/Guwahati, Assam State.

Schedule-I

List of Equipment/Instruments and Tentative Requirement

Sr no	Item/Equipment	Qty (tentative)
01	Gradient PCR	01
02	Electrophoresis system with Power Pack	01
03	Gel doc system	01
04	Ultra Pure Water Purification System	01
05	Refrigerated Centrifuge	01
06	Microcentrifuge	01
07	CO2 Incubator	01
08	Deepfreeze -20°C	01
09	Laboratory Refrigerator	01
10	Microbiological Incubator	01
11	Pipette	01
12	LN2 Storage container	01
13	Liquid Nitrogen Transport Container	01
14	BOD Incubator	01
15	Magnetic Hotplate Stirrer	01
16	Water Bath	01
17	Inverted Fluorescent Microscope	01
18	Adjustable Volume Single Channel Pipettes	01
19	Adjustable Volume Digital Multi Channel Pipettes	01
20	Fine Analytical Balance	01
21	Digital pH meter	01
22	Vortex shaker	01
23	Rocking shaker	01
24	Vertical electrophoresis unit and power supply	01
25	Shaking Incubator	01
26	Digital Dry Bath	01
27	Non Refrigerated Centrifuge	01
28	Hot Air Oven	01
29	Nanodrop Microplate Spectrophotometer	01

Schedule-II

Required Technical Specifications of Equipment/Instruments

It should be understood that Technical Specification mentioned hereunder are intended to be descriptive/indicative only and not restrictive. The tenderer may substitute alternative standards, brand name in its bid, provided that it demonstrate the purchaser's satisfaction that the substitutes are substantially equivalent or superior to those designated in the "Technical Specification" or more suitable for VRDL project.

Sl.no	Item/Equipment	Technical Specification
01	Gradient PCR	<p>General: Tender is invited from reputed original manufacture or their authorized agents/dealers only. Information regarding installation in India and satisfactory service and maintenance may be forwarded with all the details for verification.</p> <p>Technical:</p> <p>Design :96 well, with 6 separate peltier blocks to provide independent temperature zones to run gradient PCR with hot bonnet.</p> <p>Capability :0.2ml, 0.5ml PCR tubes or microplates; to accommodate PCR volumes ranging from 10- 100ul.</p> <p>Run Mode : Standard and fast run</p> <p>Temperature : Range +4-100°C, Accuracy +/-0.25 from 35-99°C, Uniformity <0.5°C (20 sec after reaching 95°C)</p> <p>Ramp rate : Maximum should be 5°c / sec and adjustable between 3 -5°c /sec</p> <p>Program : Around 800 typical programs; with USB flash drive expansion</p> <p>Power Supply : Should include 210-240V/50-60 Hz</p>
02	Electrophoresis system with Power Pack	<p>General: Tender is invited from reputed original manufacture or their authorized agents/dealers only. Information regarding installation in India and satisfactory service and maintenance may be forwarded with all the details for verification.</p> <p>Technical:</p> <ol style="list-style-type: none"> 1. Submerged gel electrophoresis apparatus with clear plastic construction for easy sample visualization 2. Tray should be UV transparent, length 12-15cm and width 12-15cm 3. Combs: 10-15 wells and 25-30 well. All combs of 1mm thickness. 4. The unit should bear minimum 3 years comprehensive and 2 years non-comprehensive warranty.
03	Gel doc system	<p>General: Tender is invited from reputed original manufacture or their authorized agents/dealers only. Information regarding installation in India and satisfactory service and maintenance may be forwarded with all the details for verification.</p> <p>Technical:</p> <ol style="list-style-type: none"> 1. Gel imaging system to visualize: <ol style="list-style-type: none"> i) Stained protein gels (coomassie, silver, UV light-excited fluorescent stains) ii) Stained nucleic acid gels (ethidium bromide and other UV light-

		<p>excited fluorescent stains).</p> <ol style="list-style-type: none"> 2. Compact benchtop instrument 3. With UV and visible light transillumination, motorized zoom lens; Transillumination and epi- illumination. 4. Camera- high speed USB technology for faster image capture and download Auto focus configuration. 5. Auto exposure setting for optimum image exposure time. 6. CCD resolution- 5 megapixel or more 7. Excitation source- Trans-UV, 254, 365nm; Wide transillumination area; 8. Provided with PC, Software compatibility: Windows
04	Ultra Pure Water Purification System	<p>General: Tender is invited from reputed original manufacture or their authorized agents/dealers only. Information regarding installation in India and satisfactory service and maintenance may be forwarded with all the details for verification.</p> <p>Technical: A compact water purification system with ISO 9001 certified designed to be fed directly by potable tap water visual display for quality parameter, filter condition etc. Reservoir capacity of approx. 30 ltr. Necessary pre-filters, cartridges and accessories to get ultra pure, laboratory grade water for molecular biology work. Quality of ultra pure water provided by system should fulfill following criteria:-</p> <p>Resistivity : 18 or more meg-ohms-cm Conductivity : 90 – 100 micro-ohms Pyrogen level : To the levels 0.001 eu/ml with disposable / add on ultra filtration cartridge Microorganisms : <1 cfu/ml TOC values : <5 ppb Final filtration : Through 0.22 micron filter Volume of pure and ultrapure water/day : ~2lit/hr Power Supply : 210-240V/50-60 Hz</p>
05	Refrigerated Centrifuge	<p>General: Tender is invited from reputed original manufacture or their authorized agents/dealers only. Information regarding installation in India and satisfactory service and maintenance may be forwarded with all the details for verification.</p> <p>Technical: Certification : CE or UL certified or conformity Temperature range : European -4 to +40°C Speed : 14000 RPM or more Display : Digital for temperature for air and chamber, time and RPM/RCF, Microprocessor controlled Drive system : Brushless drive Programmable : Programs-90-99 and with program recall facility Rotors : Fixed angle rotor: 24x1.5-2.0ml Optional Rotors :Fixed angle rotor: 24X1.5 ml tubes, 250 ml, Swing out Rotor and adopters for: 5-10 ml tubes,15ml, 50ml and 250 ml tubes, micro plate. Power Supply : 210-240V/50-60 Hz or Suitable power supply.</p>

06	Microcentrifuge	<p>General: Tender is invited from reputed original manufacture or their authorized agents/dealers only. Information regarding installation in India and satisfactory service and maintenance may be forwarded with all the details for verification.</p> <p>Technical:</p> <ol style="list-style-type: none"> 1. Bench top, compact, Refrigerated Temperature setting: 0 to 40°C 2. Fast Pre cooling and should maintain +4°C at maximum speed 3. Up to 10 programs or more 4. Digital display showing rpm, RCF and time 5. Speed Up to 15000 rpm 6. Rotor for 24X1.5 to 2 ml tubes, 7. Adaptors for 0.5 ml and 0.2 ml tubes 8. Auto balancing in situation of minor imbalance 9. Electrical Requirements: 120V/60Hz and 230V/50 Hz or Suitable electrical supply 10. CE certified or equivalent
07	CO ₂ Incubator	<p>General: Tender is invited from reputed original manufacture or their authorized agents/dealers only. Information regarding installation in India and satisfactory service and maintenance may be forwarded with all the details for verification.</p> <p>Technical:</p> <p>Design :Hot air Water jacketed unit with at least 3 adjustable stainless steel shelves with inner glass door.</p> <p>Capacity :150-200 lit.</p> <p>Temperature :Range- ambient to 50°C; Uniformity ± 0.2°C at 37°C.</p> <p>Co2 concentration : Adjustable from 0-20%</p> <p>Sensor : Thermal conductivity sensor for CO₂ regulation</p> <p>Relative humidity :Up to 93-95% at 37°C.</p> <p>Alarm :Audiovisual alarm for adjusted CO₂, temperature and relative humidity levels.</p> <p>Filters :Chamber HEPA filter and microbiological filters on all gas inlets and outlets and sample port.</p> <p>Display : Digital; microprocessor controlled</p> <p>Accessories :Humidity pan, 2 stage CO₂ gas regulator with pressure gauges, tubing, roller based stand with CO₂ gas cylinder.</p> <p>Power Supply : 210-240V/50-60 Hz</p> <p>Optional : Separate quotes for all necessary filters</p>
08	Deepfreeze -20°C	<p>General: Tender is invited from reputed original manufacture or their authorized agents/dealers only. Information regarding installation in India and satisfactory service and maintenance may be forwarded with all the details for verification.</p> <p>Technical:</p> <p>Capacity : 600-700 litre</p> <p>Inner shelf : 6-9</p> <p>Refrigerant : CFC free</p> <p>Temperature control : Micro-processor controlled, Digital display with temperature resolution of 0.1°C</p> <p>Alarms : Low/high temperature, power failure</p> <p>Door closing and locking adjustment : self closing door with key door lock, adjustable leveling feet standard (optional casters)</p>

		Power supply : 210-240V/50-60 Hz
09	Laboratory Refrigerator	<p>Technical specifications: Must be of a reputed brand, from manufacturer/authorized dealers having installation in reputed institutes/ firms, preferably in Maharashtra and service centers located in India. Necessary evidence to be provided.</p> <p>Design : Double door refrigerator, Inner chamber stainless steel 304 grade, Door locking system, magnetic door gasket, adjustable shelves , auto defrost facility.</p> <p>Capacity : 275-300 L</p> <p>Refrigerant : CFC Free</p> <p>Controls : moisture and humidity</p> <p>Alarm & Indicator : audio-visual alarm for door open and temperature fluctuation compressor on/off indicator</p> <p>Power Supply : Should include 210-240 V/50-60 Hz</p>
10	Microbiological Incubator	<p>General: Tender is invited from reputed original manufacture or their authorized agents/dealers only. Information regarding installation in India and satisfactory service and maintenance may be forwarded with all the details for verification.</p> <p>Technical: Double walled body with inner chamber of Stainless Steel and outer galvanized steel with non- corrosive epoxy powder coated; full view glass door.</p> <p>Capacity : 100-120L with an internal fan for uniform air circulation</p> <p>Inner chamber : 3-4 shelves and with illumination</p> <p>Temperature : Control: microprocessor based with digital display, Range: 5°C to 50°C with an accuracy of +/-0.5°C Uniformity: +: +/1.0°C throughout the chamber</p> <p>Door alarm : Low/high temperature alarm</p> <p>Cooling : CFC free refrigeration</p> <p>Power Supply : 210-240V/50-60 Hz</p>
11	Pipette	<p>General: Tender is invited from reputed original manufacture or their authorized agents/dealers only. Information regarding installation in India and satisfactory service and maintenance may be forwarded with all the details for verification.</p> <p>Technical: ISO 8655 CERTIFIED, fully Autoclavable, single channel pipettes of variable volume compatible with universal tips.</p> <p>Pipette Ranges:</p> <ol style="list-style-type: none"> 1.Range: 0.2-2 µl ; Increment: 0.002 µl ; Accuracy µl: ±12.0-2.5% 2.Range: 2-20 µl ; Increment: 0.02 µl ; Accuracy µl: ±3.0-1.0% 3.Range: 20-200 µl ; Increment: 0.2 µl ; Accuracy µl: ±1.8-0.6% 4.Range: 100-1000 µl ; Increment: 1 µl ; Accuracy µl: ±1.0-0.6%
12	LN2 storage container	<p>General: Tender is invited from reputed original manufacture or their authorized agents/dealers only. Information regarding installation in India and satisfactory service and maintenance may be forwarded with all the details for verification.</p> <p>Technical: Certification : ISI/European/CE or Conformity certification</p> <p>Design : Compact light weight, double walled vacuum insulated aluminum vessel, polyurethane coated, with a narrow mouth neck that minimizes liquid nitrogen losses. Secure locking arrangements to</p>

		<p>be provided.</p> <p>Capacity : 35-40 liters</p> <p>Static evaporation rate : 0.3-1 litre/day</p> <p>Static Holding Time : 50-120 days</p> <p>Racks & Boxes for Storage : Suitable racks & boxes for storage of 1.8-2ml cryovials (for one cylinder)</p> <p>Optional : 2Cryogloves and gum boots.</p>
13	Liquid Nitrogen Transport Container	<p>General: Tender is invited from reputed original manufacture or their authorized agents/dealers only. Information regarding installation in India and satisfactory service and maintenance may be forwarded with all the details for verification.</p> <p>Technical:</p> <p>Certification : ISI/European/CE or conformity</p> <p>Design : Compact light weight, double walled aluminium vessel, polyurethane coated, provided with vacuum insulation and a narrow mouth neck that minimizes liquid nitrogen losses.</p> <p>Capacity : 50- 60 liter</p> <p>Static evaporation rate : 0.3-1 litre/day</p> <p>Static Holding Time : 50-120 days</p> <p>Optional : Transport & tilting Trolley.</p>
14	BOD Incubator	<p>General: Tender is invited from reputed original manufacture or their authorized agents/dealers only. Information regarding installation in India and satisfactory service and maintenance may be forwarded with all the details for verification.</p> <p>Technical:</p> <p>Double walled body with inner chamber of Stainless Steel and outer galvanized steel with non- corrosive epoxy powder coated; full view glass door.</p> <p>Capacity : 100-120L with an internal fan for uniform air circulation</p> <p>Inner chamber : 3-4 shelves and with illumination</p> <p>Temperature : Control: microprocessor based with digital display, Range: 5°C to 50°C with an accuracy of +/-0.5°C Uniformity: +/-1.0°C throughout the chamber</p> <p>Door alarm : Low/high temperature alarm</p> <p>Cooling : CFC free refrigeration</p> <p>Power Supply : 210-240V/50-60 Hz</p>
15	Magnetic Hotplate Stirrer	<p>General: Tender is invited from reputed original manufacture or their authorized agents/dealers only. Information regarding installation in India and satisfactory service and maintenance may be forwarded with all the details for verification.</p> <p>Technical:</p> <p>Design : Compact, light weight, SSbody, chemical andcorrosion resistant construction ; Approximately40LX 30WX 5H(cm)</p> <p>Certification : CE/ISO 9001</p> <p>Speed : Range0-1200 rpm; Control-Analog;</p> <p>Stirring Volume : Upto 1000 ml</p> <p>Display : Digital, microprocessor controlled</p> <p>Power Supply : Should include210-240 V/50-60 Hz</p>
16	Water Bath	<p>General: Tender is invited from reputed original manufacture or their authorized agents/dealers only. Information regarding installation in India and satisfactory service and maintenance may be</p>

		<p>forwarded with all the details for verification.</p> <p>Technical: Water Bath made of stainless steel, from manufacturer/authorized dealers having installation in reputed institutes/ firms.</p> <p>Capacity :Anti-corrosive 4 chambers each with capacity of 3-4 lit.</p> <p>Temperature : Ambient to 100 C, with Digital temperature display and 0.1°C readability, microprocessor controlled</p> <p>Power Supply : 210-240V/50-60 Hz</p>								
17	Inverted Fluorescent Microscope	<p>General: Tender is invited from reputed original manufacture or their authorized agents/dealers only. Information regarding installation in India and satisfactory service and maintenance may be forwarded with all the details for verification.</p> <p>Technical: Basic Components:</p> <ol style="list-style-type: none"> Objectives :With a par-focal distance of 60 millimetres and an objective thread size of 25 millimetres. Phase Contrast objectives- 4x, 10x, 20x & 40x and 100x with NA value of minimum 1.45 (without phase) (optional) oil immersion Condenser : ELWD (extra long working distance) Nose Piece : Extra Large Working Distance, adjustable Eye Piece :10X (F.O.V. 20-22mm) with Rubber eye guard. The eyepiece tube interpupillary distance should be 50–75mm, with Inclination of 45° from horizon Illuminator :High luminescent white LED illuminator. Lamphouse for 50 W mercury lamps, UV Light shielding plate, UV-cut filter (detachable) Mechanical stage with holders :Attachable with different holders like, Terasaki holder (accepts 65mm petri dish); Slide glass holder (accepts 54mm petri dish); Hemacytometer holder etc. Filters : Epi-fluorescence Attachment, with field diaphragm, Fluorescence filter block holder, (2 filter blocks mountable, 1 empty position), Barrier filter, Heat absorbing filter, Fluorescence Filters for DAPI, FITC & TRITC <p>Additional Requirements:</p> <ol style="list-style-type: none"> Photographic attachment : Trinocular model (with light distribution, bino/photo: 100/0, 0/100) to accommodate image documentation, a photo port that accepts various photo micrographic systems Digital Camera :Not less than 7 Megapixel. High Resolution <p>Power Supply : Should include 210-240V /50-60Hz</p> <p>Spares : Lamps 2 Nos.</p>								
18	Adjustable Volume Single Channel Pipettes	<p>General: Tender is invited from reputed original manufacture or their authorized agents/dealers only. Information regarding installation in India and satisfactory service and maintenance may be forwarded with all the details for verification.</p> <p>Technical: ISO 8655 CERTIFIED, fully Autoclavable, single channel pipettes of variable volume compatible with universal tips.</p> <table border="1" data-bbox="657 1879 1485 1963"> <thead> <tr> <th>Range</th> <th>Increment</th> <th>Accuracy</th> <th>Precision</th> </tr> </thead> <tbody> <tr> <td>0.2 to 2 µL</td> <td>0.01 µL ±</td> <td>12.0 to 2.5%</td> <td>10.0 to 2.0%</td> </tr> </tbody> </table>	Range	Increment	Accuracy	Precision	0.2 to 2 µL	0.01 µL ±	12.0 to 2.5%	10.0 to 2.0%
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19	Adjustable Volume Digital Multi Channel Pipettes	<p>General: Tender is invited from reputed original manufacture or their authorized agents/dealers only. Information regarding installation in India and satisfactory service and maintenance may be forwarded with all the details for verification.</p> <p>Technical:</p> <p>Technical specifications: Must be of a reputed brand, from manufacturer/authorized dealers having calibration facility in Assam. Necessary evidence to be provided.</p> <p>ISO8655 certified digital multichannel pipettes of variable volume compatible with universal tips. Applications: provision for 6, 24, 96 well applications.</p> <table border="1"> <thead> <tr> <th>Range</th> <th>Increment</th> <th>Precision</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td>5 to 50 μL</td> <td>0.5 μL</td> <td>2.0 to 0.7%</td> <td>8 Channel 12 Channel</td> </tr> <tr> <td>30 to 300 μL</td> <td>5 μL</td> <td>1.5 to 0.3%</td> <td>8 Channel 12 Channel</td> </tr> <tr> <td>1 μL</td> <td>20 μL</td> <td></td> <td></td> </tr> </tbody> </table>	Range	Increment	Precision	Type	5 to 50 μL	0.5 μL	2.0 to 0.7%	8 Channel 12 Channel	30 to 300 μL	5 μL	1.5 to 0.3%	8 Channel 12 Channel	1 μL	20 μL										
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20	Fine Analytical Balance	<p>General: Tender is invited from reputed original manufacture or their authorized agents/dealers only. Information regarding installation in India and satisfactory service and maintenance may be forwarded with all the details for verification.</p> <p>Technical:</p> <p>Single pan Analytical Balance with highest accuracy for weighing processes; readouts to have at least four decimal places. Equipped with a draft shield chamber to eliminate interfering ambient effects.</p> <p>Weighing Range : 0.01 – 60 g</p> <p>Readability : 0.1 mg</p> <p>Calibration : External</p> <p>Display : LCD Display</p> <p>Verification interval : 0.001 g</p> <p>Pan Size : 80 - 100 mm</p> <p>Power Supply : 210-240V/50-60 Hz</p>																								
21	Digital pH meter	<p>Technical Specifications: Must be of reputed brand, from manufacturer/Authorized dealer having installation in reputed institutes/firms.</p> <p>Design : Compact, Table top</p> <p>Electrodes : Dual</p> <p>Capability : To measure pH, Temperature, mV & relative mV</p> <p>pH : Range 0 to 16.00, pH, Accuracy, + 0.01 Resolution 0.002</p> <p>Temperature : Approximately 0 to 120$^{\circ}$C, Accuracy + 0.5$^{\circ}$C</p> <p>MV/Rel.mV : + 1999, Resolution 0.1</p> <p>Display : LCD for pH and temperature readings simultaneously</p> <p>Buffer : Unit able to recognize auto buffer along with custom buffer</p>																								

		<p>options</p> <p>Calibration : Automatic as well as manual</p> <p>Temperature Compensation : Automatic</p> <p>Power Supply : Should include 210-240V/50-60 Hz</p>
22	Vortex shaker	<ul style="list-style-type: none"> • Speed should be 100-800 RPM • Timer display should be 99 HRS 59 MINS. • Operating mode should be Timer and Continuous
23	Rocking shaker	<ul style="list-style-type: none"> • Speed should be ~50 rpm • Timer may be ~ 99hrs • Maximum load should be ~10 kg
24	Vertical electrophoresis unit and power supply	<ul style="list-style-type: none"> • Dual electrophoresis unit for two slabs gel 10 x 8 cm • Should include buffer chamber safety lid with cables two alumina notched plates • Should have 10 well 1 mm thick combs, spacers of 1 mm thickness and dual gel caster. <p>For power supply it should run two units at constant voltage or constant current with maximum output of 300V, 400 mA and 80 Watts.</p>
25	Shaking Incubator	<ul style="list-style-type: none"> • Temperature Range : 15°C Below Ambient to 80°C • Speed Range : 15–500; ±1 rpm • Orbit Diameter : Close to 20mm • Units should be stackable, minimum two. • System should have two adjustable-height shelves to provide added storage. • System should have large viewing window and internal light for better sample visibility. • System should have three individual displays for viewing temperature, speed and time simultaneously. • Corrosion-resistant stainless-steel chamber should accommodate a variety of universal and dedicated platforms. • There should be Electrical outlet inside chamber to provide power for safe operation of shakers, stirrers or rotators. • System should have Triple eccentric drive to handle heavy loads, provide uniform agitation and continuous 24-hour operation, even at high speeds. • System should have Continuous/timed operation from 0.1 hour to 999 hours or 0.1 minute to 999 minutes. • There should be Visual/audible alarms to alert if temperature deviates ±1°C of set point. • Shaker should shut down and visual/audible alarms signal if unit operates ±10% of set speed, preventing shaker from walking. • System should have unbalanced load sensor to stop platform motion when excess vibration is detected visual/audible alarms signal until condition is corrected. • System should have Soft start feature to eliminate sudden

		<p>starts and stops, splashing of vessel contents or wetting of flask closure.</p> <ul style="list-style-type: none"> • System parameters should be retained during power failure and should restart unit automatically after power is restore • System should also have Over-temperature safety feature with independent thermostat to provide additional backup by controlling heat if main temperature controller fails. • System should have Safety interlock to stop shaking motion when the door is open • Should include 18"x18" platform with available clamps like (1) microplate clamp, (2) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (8) 1L flask clamps, (4) 2L flask clamps.
26	Digital Dry Bath	<ul style="list-style-type: none"> • Block Capacity: 1 • Controller: PID Digital • Temperature range: Ambient +5° to 130°C • Temperature Uniformity: $\leq \pm 1^\circ\text{C}$ • Temperature Accuracy: $\leq \pm 0.5^\circ\text{C}$ • Heating Rate: ≤ 20 min. 30° to 130°C • Timer Range: 0 to 99:59 min or continuous • Digital controls and display of time and temperature • Advanced internal temperature sensing probe for outstanding temperature accuracy and control • Precise temperature control with PID circuit • Temperature calibration to enable to offset the temperature to desired value • Timer to allow the user to accurately monitor the heating time • Wide range of interchangeable aluminium alloy heat blocks provide versatility and allow for easy cleaning and disinfecting • Built-in over-temperature protection facility for sample and user safety • Temperature deviation adjustment facility • Electricals: 250V, 50/60Hz; 2.5A • Dimensions (L x W x H): 12.5 x 7.9 x 3.9 in
27	Non Refrigerated Centrifuge	<ul style="list-style-type: none"> • Table top centrifuge • Maximum Speed: Above 17000 RPM • Maximum RCF: above 30,000 xg • The Centrifuge should have a feature to install and remove rotor without tool in less than 5 seconds with just a push of a button for quick and easy change of rotors for different applications. • The centrifuge should be CE, UL Certified and IVD Compliant , ISO international standard. • It should accommodate microplate , swinging out & fixed angle rotor

		<ul style="list-style-type: none"> • The centrifuge must be supplied with Swinging out Rotor capable of running a minimum of 4 x 15 ml, 4 x50ml, 8x15ml conical tubes and 24x5/7ml blood collection tubes of at least 4500rpm. • The centrifuge must be capable of running a minimum of 6 x 50/15 ml conical tubes at speeds of at least 12000 x g. • All the rotors supplied should be certified for bio-containment.
28	Hot Air Oven	<ul style="list-style-type: none"> • Oven with mechanical convection technology & minimum capacity of 95L • Operating temperatures from 50° to 320°C • Temperature uniformity of +/-2.5 °C with & temperature stability of +/-0.3 °C at 150 °C • The Inner chamber should be made of AISI 430 / 1.4016 Stainless Steel • It should have the feature of electronically controlled fan speed and damper position. • It should have the features to Programmable controller for temperature ramps and dwells. It should be able to save minimum 10 programs each with 10 discrete steps. • It should have automatic over-temperature alarm system & built in timer • Corrosion-resistant stainless-steel chambers with rounded corners • Large, easy to read vacuum fluorescent display • Easy to use, microprocessor-controlled touch button operation • The door should be able to open at 180⁰ angle for complete access to chamber interior. • The oven should have RS 232 interface providing data logging capability • The ovens should be stackable with optionally available stacking kit • Internal dimensions W x H x D: 18.3 x 27.9 x 20.4in
29	Nanodrop Microplate Spectrophotometer	<ul style="list-style-type: none"> • A UV-visible spectrophotometer with microplate reading option. • A monochromator based UV/Vis spectrophotometer with Xenon Flash lamp as light source and photo multiplier tube (PMT) as detector, for better performance. • The system should be able to read 96 & 384 well plates. Should also have the facility to analyze samples in 2ul quantity at a time. • Instrument should be able to run wavelength scan from 200nm to 1000nm with 1 nm steps. • The instrument should have applications for nucleic acid quantification, protein assays, enzyme kinetic assays, immunoassays (ELISA) , cell toxicity assays, apoptosis and reporter gene assays.

		<ul style="list-style-type: none"> • The instrument should have inbuilt incubation range from +4 °C to +45 °C and linear shaking options for ELISA, enzyme kinetic assays etc. • Measurement speed should be about 6 sec. for 96 well and 10 sec. for 384 well plate • Instrument should have an option for pathlength corrections to correlate the microplate data to cuvette, in case of nucleic acid quantification performed on microplate. • It should be able to run in stand-alone mode OR with computer & software controlled. • The instrument has USB port for the easy data transfer. • It should have a self diagnostics option to give a guaranteed high quality data. • It should be supplied with 1KVA online UPS with one hour back-up and branded compatible computer
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Sd/-

Principal cum Chief Superintendent
 Tezpur Medical College & Hospital
 Tumuki, Bihaguri, Tezpur, Sonitpur, Assam

ANNEXURE-V

UNDERTAKING

**(To be submitted on judicial stamp paper/e-stamp of Rs. 20/- and should be attested by
Notary Public)**

To

The Principal cum Chief Superintendent, TMC&H.

1. I, _____
Son/Daughter/Wife of Shri _____
Proprietor/Director/Authorized signatory of the Agency/Firm/Company participating in
the tender, am competent to sign this declaration and execute the tender document;
2. I, the undersigned, hereby solemnly declare and undertake as under:
3. I, the undersigned, hereby certify that I have gone through all the terms and conditions
mentioned in the tender form document and I undertake to abide by them.
4. The information / documents furnished with the bid are true and authentic to the best of
my knowledge and belief. I / we, am / are well aware of the fact that furnishing of any
false information / fabricated document would lead to rejection of my tender at any stage
besides liabilities towards prosecution under appropriate law.
5. I/we undersigned hereby bind myself/ourselves to the purchaser to supply and install all
the offered instruments/equipment. The rates quoted by me/us for the items tendered for

are specified against each. It is certified that rates quoted are lowest quoted possible for any institution in India and not higher than the MRP/prevaling market rate.

6. The items offered shall be strictly as per specification and of the best quality as per requirement of the purchaser. The decision of the Principal, TMC&H as regard to the quality and specification of items shall be final and binding on me/us.
7. I/we undertake to provide back-up services of trained technical personnel on round the clock basis for emergency problem.
8. I/we undertake and confirm that the item shall be covered by the standard warranty as applicable. In case of any defect reported, the defective part shall be replaced at the quickest possible time.
9. We agree to the conditions of the tender under which the EMD shall be forfeited to us.
10. We shall organize technical seminars/workshops at various locations within the State of the purchaser to impart education and training to the medical professional as and when requested by the purchaser.

Signature of the tenderer

Full Name

Designation

(Office seal of the tenderer)

Format of Supplementary to BOQ Part-I

S. No.	Name of Equipment/instrument offered by the bidder	Technical Specifications asked as per tender	Technical Specification offered by the bidder	Remarks

Format of Supplementary to BOQ Part-II

S. No.	Name of Equipment/ instrument offered by the bidder	Mention Brand/Make and Model of Item offered by the bidder	Applicable Warranty/Guarantee (Years)		CMC Rate in % p.a.
			By Manufacturer	By Bidder	