



TEA RESEARCH ASSOCIATION

Tocklai Tea Research Institute

(An ISO 9001:2008 Certified Organisation)

CINNAMARA, JORHAT-785 008, ASSAM, INDIA

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Ref:3622/TOK/G.17/1555

8th September 2017

Tender No. TRA-Tocklai/17-18/T-11 Dated 08.09.2017

Sealed tenders in two parts (Technical bid & Price bid) are invited by the Director, Tea Research Association from reputed manufacturers / authorized dealers / importers for supply of Instrument / Equipments under **DBT Unit of Excellence project “A study on aluminium detoxification in tea (Camellia sinensis L.): Paradigm shift towards biotechnology approach” at Upper Assam Advisory Centre, Tea Research Association, Dikom -786101, Dibrugarh, Assam.** Both the bid documents are to be put in sealed envelopes separately super scribing the words “Technical Bid “ & “ Price Bid” which are to be put together in the sealed envelope super scribing the Tender No. The details of instruments / equipments are shown in ‘**Annexure – A**’ enclosed herewith.

- ◆ **Last Date of Submission of Bid** : 3rd October, 2017 (1:00 PM)
- ◆ **Date of opening Technical Bid** : 3rd October, 2017 (3:00 PM)
- ◆ **Date of Opening of Commercial Bid** : 3rd October, 2017 (4:00 PM)

Terms and Conditions:

- 1) The tenderer should submit the following documents along with the tender:
 - a) Dealership certificate/authorization certificate
 - b) List of users
 - c) Up-to-date sales tax/GST /income tax clearance certificate
- 2) **Earnest money 2%** of the quoted amount is to be deposited by the tenderer in the form of Bank draft/Bankers certificate in favour of **Tea Research Association** payable at **Chabua** .
- 3) Tenders must accompany with the product catalogues/ specification
- 4) Tenderers must quote the warranty period of the product.
- 5) Tenderers must quote the year-wise rate for AMC & CMC separately for a minimum period of 5 years beyond the warranty period.
- 6) **Instruments / Equipments are to be delivered/installed FOR/CIP at Upper Assam Advisory Centre, Tea Research Association, Dikom -786101, Dibrugarh, Assam. (email: tra.upper.assam@tocklai.net; t.karak@tocklai.net).**

Additional Terms and Conditions

(To be returned by Tenderer along with the Tender duly signed)

- 1) Sealed Tenders are invited under Two Bid system (Technical and Price Bid) for purchase of different items. Tender is non-transferable.
- 2) Quotations will be accepted only from manufacturers for branded items. If they are not in a position to quote, they may authorize only one exclusive agent, who may quote along with authorization. Authorized Agent Tendering for the supply should attach authorization from the manufacturers to ensure prompt supply, failing which the quotation will be summarily rejected.
- 3) Overwriting and corrections if any should be attested properly. The bid should be completed in all respects and should be duly signed. Incomplete and unsigned bids will not be considered at all.

- 4) List of other organizations where similar supplies have been made & having a rate contracts, documentary evidence may please be attached.
- 5) Price offered shall be valid for a period up to four months and delivery should be at own cost at **Upper Assam Advisory Centre, Tea Research Association, Dikom-786101, Dibrugarh, Assam**. The manufacturer shall ensure that the products will not be sold cheaper than the price offered to **Upper Assam Advisory Centre, Tea Research Association** to any other clients.
- 6) Discounts offered shall be indicated clearly in terms of percentage on the manufactures price lists.
- 7) Please mention the Catalogue No., Part No., and Model No. & Make wherever required and also GST No. with HSN no. and Area Code failing which your quotation will be rejected. All of your future correspondences including Invoices should bear the GST No. Area Code.
- 8) EMD against the total quoted value (Not on Unit Price) must be deposited through DD in favour of **Tea Research Association** payable at **Chabua @ 2%** of the total value (Not the unit price).
- 9) Quotation by Fax/E-mail not acceptable. The offers submitted by telex/telegram/fax/email etc. shall not be considered. No correspondence will be entertained on this matter.
- 10) Non delivery of items will lead to cancellation of Purchase Order without any notice. In addition, action may be taken for removing them from the list of suppliers.
- 11) Conditional tenders shall not be accepted on any ground and shall be rejected straightway.
- 12) No enquiry shall be made by the bidder(s) during the course of evaluation of the tender till final decision is conveyed to the successful bidder(s). However, the Committee/its authorized representative and office of Upper Assam Advisory Centre, TRA can make any enquiry/seek clarification from the bidders. In such situation, the agency shall extend full cooperation. The bidders can also be asked to arrange demo of the offered items, in a short period notice, as such bidders have to be ready for the same.
- 13) **Replacement:** Damages/ Broken / Inferior quality articles should be replaced with proper ones at the cost of the suppliers.
- 14) Upon getting the purchase order the supplier must comply with the specification. Any deviation from the specification would result in cancellation of the purchase order and the cost involved in carrying back the goods would be borne by the concerned firm. In such a case the EMD deposited will be forfeited.
- 15) No Advance Payment will be made under any circumstances; payment will be made after supply & successful installation. 100% payment shall be released on successful execution of the work complete immediately. Instruments should be installed and made functional within the three month of purchase order. The date should be count for the date of issuing the purchase order. **Upper Assam Advisory Centre, Tea Research Association** will not be responsible for any postal delays.
- 16) Acceptance of this Tender Form and submission of the quote within the stipulated time would be treated as:
 - (a) The tenderer has understood all requirements as described in the Tender document.
 - (b) Agreeing to execute order to the satisfaction of **Upper Assam Advisory Centre, Tea Research Association**, authorized representatives within the stipulated time.
- 17) Tenders from Manufacturers/Suppliers/ Tenderers whose performance was not satisfactory in respect of quality of supplies and delivery schedules in any organizations are liable for rejection. The tenders that do not comply with the above criteria and other terms & conditions are liable for rejection.
- 18) **Warranty:** At least one year comprehensive warranty should be included. Extended warranty should be quoted separately (offers with extended warranties may be given preference). The terms and period of warranty should be in details for each of the items under warranty. CMC for a period of 3 years after warranty period to be quoted.
- 19) **After sales service:** The name and address of the nearest available authorized service centre to **Upper Assam Advisory Centre, TRA** should be stated in the quotation.
- 20) It is the responsibility of the supplier to take necessary steps such as integration of all the systems and ensure the functionality of the equipment.
- 21) Vague terms like “*packing, forwarding, transportation etc. extra*” without mentioning the specific amount will not be accepted. Such offers shall be treated as incomplete and rejected.
- 22) **Upper Assam Advisory Centre, Tea Research Association** is not bound to accept the lowest quotation and reserves the right to reject or partly accept any or all quotations received without assigning any reason.

Please do not forget to Attach:

1. Proof of payment of non-refundable Tender fee of Rs 1000/- for quoted price in the form of DD in favour of **Tea Research Association** payable at **Chabua**
2. Proof of EMD against the total quoted value (Not on Unit Price) must be deposited through DD @ 2% of the total value (Not the unit price) in favour of **Tea Research Association** payable at **Chabua**.
3. Self-attested copy of Registration Certificate, Sales Tax registration & clearance certificate, GST no & PAN Card should be attached.
4. Attached copy of authorization certificate issued by Principal Company.
5. The authorized dealer or distributor should have at least two years of experience in the supply of the Rate Contract for Stationery and should have supplied to reputed Government institutes/Universities. Attach proofs of the same.

Information to Bidders:

1. Preference will be given to package offer. The preferable package may include a 1kV online UPS with 30 min back, a branded PC, B&W laser printer, scanner, servo control voltage stabilizer etc. over and above the requirements listed in the table below.
2. Complete Maintenance Contract (CMC) rate (excluding warranty period) is to be clearly indicated – preferably in both comprehensive and non-comprehensive terms, *failure of which in the offer may lead to disqualification even if it turns out to be the lowest price.*
3. Details of the technical features of the offered equipment along with standard technical literature on each of the items offered should be provided. In the case of no exact match of the specifications, the nearest match will be considered (subject to budget availability).
4. The bid must mention the price of all items asked for individually and then summed up at last i.e. basic price and other charges such as packing, freight, insurance, installation and commissioning charge, GST etc. as applicable.
5. Warranty for 1 year to be included in the offer.
6. CMC for 3 years beyond warranty period to be included in the offer.
7. Rates should be quoted up to CIF **Upper Assam Advisory Centre, Tea Research Association, Dikom-786101, Dibrugarh, Assam** for items.
8. Road permit, custom duty clearance should be taken care by the suppliers, with the DSIR certificates etc may be provided from the Tea Research Association side if required.

While submitting your tender, the following procedure may please be observed and other points borne in mind.

1. The maker's name must be specified.
2. The "Terms and conditions" for supply and delivery of items, should be clearly indicated in the tender.
3. Tender received after the stipulated date and time may not be taken into consideration.
4. The price should be indicated both in word and figures. It should be clearly stated whether, Excise duty, Sales Tax, General Tax, Central sales Tax, Vat, Insurance Freight or Packing and Forwarding charges, or any other taxes and duties etc. liable. Rate should be quoted considering GST, cost for road permit (way bill) if claimed separately by the successful bidder, will not be paid separately.
5. It would be appreciated if illustrated catalogues/ Literature etc are furnished with the tender.
6. Price quoted must be inclusive of transportation, cost of delivery of the materials at **Upper Assam Advisory Centre, Tea Research Association, Dikom-786101, Dibrugarh, Assam**.
7. The Bidder's audited annual financial statements (balance sheet, Income statement) for the last two years shall be provided. Annual turnover must be of at least 3 times of the Quoted Value.
8. Bidder must have previous experience of successfully executing minimum of two (2) similar nature contracts within the last two years, each of value not less than 70% of the current quoted value.
9. The sealed quotations are to be submitted along with the EMD of 2% of total quoted value (Not the unit price) in the form of DD in favour of **Tea Research Association** payable at **Chabua** on all working days till the last date and time, during office hours (8:00 AM to 5:00 PM; 12:30 PM to 1:30 PM Lunch break).

10. The Bidder must submit certified copies of supply orders that substantiate fulfillment of the above criteria and information.
11. Bidder must have executed similar orders in Educational Organisations, Govt, Semi Govt. organizations, NGOs etc. Certificate must be produced.
12. The Quotation must be submitted in two envelope system: **Envelope No I.** Technical Bid: Detail specifications, all relevant documents along with the technical of the submissions. **Envelope No II.** The price bid against the detail specifications.
13. Quoted price should include CMC for three years after warranty period and mention it separately.
14. Price bid will be considered only after qualifying in the technical bid system.
15. Vendor is responsible for safe delivery of the instrument(s) to **Upper Assam Advisory Centre, Tea Research Association, Dikom-786101, Dibrugarh, Assam.**
16. Vendor is responsible for installation and demonstration of proper functioning of Instrument.
17. Pre-installation requirements should be clearly indicated in the offer. Installation/Training will be the full responsibility of the supplier/Indian Agent.
18. Installation should be carried out by skilled team commissioning at free of cost.
19. The **Upper Assam Advisory Centre, Tea Research Association, Dikom-786101, Dibrugarh, Assam** reserves the right to modify/cancel the requirements.
20. There should not be any hidden terms and conditions by the suppliers.
21. All terms and conditions will be as per **Tea Research Association rules, regulations and decisions.**
22. Vendors may quote for both indigenous and imported equipments.
23. Non-conformity of the any of the terms and conditions will disqualify the Agency and price bid will not be considered.

Important Note:

Please do note that omission to attach any of the above listed documents may cause rejection of the Tender.

TRA reserves the right to accept or reject the bids without assigning any reason thereof. The tender document can be obtained from the office of the undersigned during working days from Monday to Friday (8-30 am to 5.00 pm) or **may be down loaded from the website – www.tocklai.net.**

Tender should be accompanied by separate Bank Draft of Rs.1,000/- as Tender Document Cost (non refundable) and Earnest Money 2% of the quoted amount, failing which the tender will be rejected. Both the drafts should be drawn in favour of the Tea Research Association payable at Chabua. **The drafts for EMD and Tender Document Cost should be enclosed with “Price Bid” only.** All tenders should be sent to the following address:

The Director,
C/o.: Upper Assam Advisory Centre
Tea Research Association
Dikom-786101, Dibrugarh, Assam

DIRECTOR

Registered Office:
Tea Research Association, 113 Park Street , Kolkata - 700 016 , INDIA
Ph : 91-033-22291815, 22297943, Fax : 91-033-22294271,
Web : www.tocklai.net



SPECIFICATIONS OF INSTRUMENTS AND EQUIPMENTS

Sl. No	Items & Unit	Specifications
1.	15 KVA UPS with 30 minutes back up – 1 Unit	<p>Standard Specification:</p> <ul style="list-style-type: none"> ▪ Capacity: 15KVA/12 K Watt ▪ Double conversion true-online with Inbuilt Galvanic Isolation Transformer ▪ 3 Phase input ▪ 1 Phase Output ▪ 30 nos12V-42AHSMF Battery for 30 minutes back up ▪ Non rusting battery rack ▪ Should have minimum 1 year warranty and CMC for 3 years beyond warranty period
2.	Balance – 1 Unit	<p>Standard Specification:</p> <ul style="list-style-type: none"> ▪ Maximum Capacity: 220 g ▪ Readability: 0.1 mg ▪ Minimum Weight (USP), Typical: 160 mg ▪ Repeatability: 0.08 mg ▪ Weighing Pan Diameter: 90 mm ▪ Adjustment / Calibration: Auto Internal with In-Built Mass ▪ Interfaces: RS232 ▪ Dimensions (D×H×W) : 344 mm x 344 mm x 210 mm ▪ Housing: Die-cast aluminium, plastic ABS ▪ Linearity: 0.2 mg ▪ Resolution: 0.1 mg ▪ The instrument is to be supplied with 1 KVA On-Line UPS System with 30 min battery Back-up using SMF (Sealed Maintenance Free) Batteries including battery rack and interconnecting cables (inclusive of all up to installation) ▪ One compatible Servo controlled Stabilizer should be supplied along with the machine. ▪ Working Table: Anti-vibration table for balance ▪ Should have minimum 1 year warranty and CMC for 3 years beyond warranty period
3.	Biophotometer – 1 Unit	<p>Standard Specification:</p> <ul style="list-style-type: none"> ▪ UV/Vis spectral range from 200 nm to 830 nm ▪ Xenon flash lamp with extra long life ▪ Pre-programmed methods for a quick start ▪ Guided software sequence to minimize errors ▪ Direct operation on the device and PC ▪ Integrated data processing option for specific methods (system - Absorption single-beam spectrophotometer with reference beam ; Light source : , smallest increment: 1 nm) Spectral band width: ≤ 4 nm ▪ Photometric measuring range: 0 A to 3.0 A at 260 nm ▪ Random error: ≤ 0.002 if A = 0, ≤ 0.005 (0.5 %) if A = 1 ▪ Systematic error: ±1% if A = 1 ▪ Display: VGA TFT-Display 5.7" ▪ μCuvette (180 nm – 2,000 nm measuring range)- for measuring volume upto1.5μL dsDNA and 3.0μL Protein, DNA detection

		<p>limit 2.5 ng/μL and DNA max. concentration upto 1,500 ng/μL</p> <ul style="list-style-type: none"> ▪ Cuvette Routine Pack, 220 nm – 1600 nm ▪ The instrument is to be supplied with 1 KVA On-Line UPS System with 30 min Battery Back-up using SMF (Sealed Maintenance Free) Batteries including battery rack and interconnecting cables (inclusive of all upto installation) and Desktop computer ▪ One compatible Servo controlled Stabilizer should be supplied along with the machine. ▪ Working Table: Anti-vibration table for biophotometer, placing computer monitors, mouse, keyboard etc. ▪ Should have minimum 1 year warranty and CMC for 3 years beyond warranty period
4.	Chlorophyll meter – 1 Unit	<p>Standard Specification:</p> <ul style="list-style-type: none"> ▪ Optical density difference at two wavelengths : 650 and 940 nm ▪ Measurement Area: 2 \times 3 mm ▪ Light source : 2 LED ▪ Receptor : 1 SPD (silicon photodiode) ▪ Output/reading should be in SPAD or chlorophyll value ▪ Data Memory : Space for more than 4096 data sets ▪ Minimum Interval between measurements: Less than 2 seconds ▪ Power Source : 2 AA-size Alkaline – Mn (1.5V) batteries ▪ Battery line : More than 20,000 measurements ▪ Minimum interval between measurements : Less than 2 seconds ▪ Accuracy : within \pm1.0 mass unit ▪ Repeatability : within \pm0.3 mass unit ▪ Reproducibility : within \pm0.5 mass unit ▪ Temperature Drift : < \pm0.4 mass unit ▪ Temperature Range : Operation 0 to 50⁰C ▪ Storage : -20 to +55⁰C ▪ The instrument is to be supplied with desktop computer ▪ Should have minimum 1 year warranty and CMC for 3 years beyond warranty period
5.	CMC for Atomic Absorption Spectrophotometer (AAS) for three years	<ul style="list-style-type: none"> ▪ Three years CMC for AA240 model
6.	Fume hood – 1 Unit	<p>Standard Specification:</p> <p>DIMENSIONS (in inches):</p> <ul style="list-style-type: none"> ▪ Working Area Size (for setting up reaction equipments and apparatus like steam baths etc) : 46 \times 36 \times 31 unit OR more <p>MATERIAL OF CONSTRUCTION:</p> <ul style="list-style-type: none"> ▪ Galvanized Iron (GI) as per standard ▪ Metal sheet panels : 1.0 mm thickness ▪ Back Pillar : 1.5 mm thickness ▪ Front corner post : 1.2 mm thickness ▪ Interior : chemical and fire resistance, smooth finish, easily cleanable panels made of durable 6 mm thick PRL work walls ▪ Colour : Ivory/Orchid blue or Grey and white <p>EXTERNAL FINISH</p> <ul style="list-style-type: none"> ▪ Highly chemical resistant epoxy coated with dry film thickness of 70 to 80 microns and smooth finish. <p>WORK TOP</p> <ul style="list-style-type: none"> ▪ Granite: Chemical resistant splash & spillage proof dished "Jet Black Granite" work top (18 mm \pm 1 mm thick)

- Sink and water Tap: Worktop should have 100 mm × 200 mm size sink on left side of worktop for drainage with three way water tap.
- Lighting: Fluorescent tube light (2 Nos× 40 W) with vapour-proof fitting for proper illumination

DOOR/SASH

- **Working mechanism:** Vertical rising sash counter-balanced with pulley and counter-weight system. Smooth and light sash operation is essential.
- **Glass:** Impact Resistance toughened/tempered float glass sash of 4 mm thick.
- **Clear openable height:** 650-750 mm.
- Breaking Stress value for fully toughened glass (Tempered Glass) = 24,000 psi.

AIR BLOWER

- **Construction :** Chemical and heat resistance blower with aerodynamically balanced impeller, with drain plug
- **Exhaust Blower :** High efficiency Centrifugal power with chemical resistance (out built)
- **Motor :** 1.5 HP Motor (Reputed Make), 3 Phase, Direct Drive
- **Sound Level :** less than 70 db at 1 meter distance from fume hood
- **Ducting :** Chemical Resistant FRP duct, pipe from fume hood to exhaust point with suitable rain hood and elbow point, length 25-35 feet
- Exhaust port design should ensure that the fumes are exhausted smoothly without any turbulence and ensure low noise level

STORAGE BASE CABINET

- Internal special chemical resistant material PRL lining to the cabinet walls
- Complete powder coated rigid structure to support Fume hood.
- One removable horizontal partition to store chemicals
- Polypropylene trays for chemical storage and Latching System for the Base Cabinet doors

ELECTRICAL ARRANGEMENTS

- Electrical sockets (6 nos; 230 V, 6/16 A, 50 Hz; Reputed make.)
- MCBs with blower NO/NC switch with built — in starter & light switch on front side (6 nos).
- Cables & wires 'should be Fire Retardant' grade.

CONTROL VALVES FOR GAS AND WATER

- **Raw water Control:** 2 Nos (PU Make)
- **Nitrogen gas Control :** 2 Nos (PU Make)
- **Vacuum Control :** 2 Nos (TEFLON MAKE)

APPARATUS HOLDING GRID

- Grid should be made up of Duralumin Powder coated rod of 12.7 mm diameter
- Installed at the distance of 150 mm from backside of fume hood.
- Should cover the entire length of the fume hood and will be built-in at fume hood backside.
- Should be easily removable.

AIR FLOW AND TEMPERATURE INDICATOR

- Should indicate the approximate face velocity of airflow with primary purpose of warning when a low flow condition occurs. When flow decreases from Normal to Low, an audible alarm and LED indication should actuate.
- Plug-in connection for power supply and airflow sensor

		<ul style="list-style-type: none"> ▪ Com port for local or computer connection ▪ Temperature indicator (reputed make) should be provided. Accuracy: 0.25% of reading. ▪ Should have minimum 1 year warranty and CMC for 3 years beyond warranty period ▪ One compatible Servo controlled Stabilizer should be supplied along with the machine.
7.	Hollow cathode lamp of aluminium (Al) – 1 Unit	<p>Standard Specification:</p> <ul style="list-style-type: none"> ▪ Aluminium - Al, Coded Hollow cathode Lamp ▪ Automatic lamp recognition
8.	Intelligent portable photosynthesis system – 1 Unit	<p>Standard Specification:</p> <p>HAND HELD PORTABLE PHOTOSYNTHESIS SYSTEM</p> <p>Special Features</p> <ul style="list-style-type: none"> ▪ Non Dispersive Absolute & Differential Auto Zero ▪ Automatic atmospheric pressure and Temperature compensation ▪ With built in: Differential CO₂/ H₂O Infra red gas analysis (IRGA) ▪ Measurement Range: CO₂ : 0-3000 ppm, 1 ppm resolution H₂O : 0-75m bar, 0.1 mbar resolution two laser trimmed, fast response RH sensors ▪ Precision: 0.2 mol/ mol at 300 PPM 0.5 mol/ mol at 1750 PPM ▪ H₂O Range : 0 – 100% RH Dew point ▪ System can be used for both Open as well as closed system measurement technique. ▪ 9 interchangeable leaf cuvettes/chamber for many different shape & sizes of leaves. ▪ Automatic control of temperature, PAR, with all open system chambers. ▪ Two additional chambers for Conifer Leaf. ▪ All Cuvette/Leaf Chamber weight should be less than 150 g. ▪ The Chamber will be directly connected to the analyser ▪ Infrared non-contact type leaf temperature sensor ▪ Should measure photosynthesis transpiration, stomatal conductance / resistance, CO₂ internal concentration, CO₂ in, CO₂ out, H₂O in, H₂O out, RH in, RH out, leaf temperature, air temperature, PAR, etc. ▪ Should have Alpha numerical and graphical display. ▪ LCD 40 × 6 characters or 320 × 64 pixels ▪ Internal software in-built ▪ Unlimited Storage Capacity for system Software and Data ▪ Auto Programs for generation of response Cuvette with external software using light, temperature, CO₂/H₂O control unit. ▪ Data can be represented in the field as well as in the lab. ▪ Rechargeable batteries with charger ▪ Interface cable for data transfer and data capturing device ▪ PC communication software / hardware with exchange windows operation ▪ The instrument is to be supplied with Desktop Computer <p>CO₂ Analyzer:</p> <ul style="list-style-type: none"> ▪ Sensor : Lower power Non –Dispersive Infrared Gas Analyzer ▪ Chopping frequency : 1Hz ▪ Sensors response time : 35 seconds ▪ Source life : minimum 5000 hours

		<ul style="list-style-type: none"> ▪ Measuring range : 0 to 3000 ppm ▪ Resolution : 0.1 ppm ▪ Repeatability : ± 0.1 ppm(short term) ▪ Accuracy : $<\pm 2\%$ up to 2000 ppm ▪ Sample cell : 100 mm \times 10.2 mm (3.94" L \times 0.40" Dia) ▪ Warm –up time : Approx. 3 minutes <p>H₂O Analyzer:</p> <ul style="list-style-type: none"> ▪ Sensor : Humidity sensitive capacitor stable Analyzer for accurate H₂O measurement ▪ Measuring range : 0 to 100% ▪ Resolution : 0.1 % ▪ Accuracy : $<\pm 2\%$ at 10% RH, $\pm 3.5\%$ at 95% RH ▪ Response Time : <15 sec <p>PAR sensor :</p> <ul style="list-style-type: none"> ▪ Sensor Type : Filtered GaAsP Photodiode ▪ Measuring Range : 0~2500 mol m⁻²s⁻¹ ▪ Response : 400 ~ 700nm ▪ Accuracy : ± 5 mol <u>0-2500 mol m⁻²s⁻¹</u> <p>Chamber (Air) Temperature Measurement:</p> <ul style="list-style-type: none"> ▪ Sensor Type : Thermocouple Measuring ▪ Range : -15 ~ 50^oc ▪ Accuracy : ± 0.1^oc <p>Leaf Temperature Measurement:</p> <ul style="list-style-type: none"> ▪ Sensor Type : Infrared Sensor ▪ Measuring Range : -10 ~ 50^oC ▪ Accuracy : ± 0.3^oC ▪ Should have minimum 1 year warranty and CMC for 3 years beyond warranty period
9.	Kjeldahl Nitrogen analyzer – 1 Unit	<p>Standard Specification:</p> <p>Automatic Macro Block Digestion System</p> <ul style="list-style-type: none"> ▪ Automatic 20 places Microprocessor based digestion system ▪ Auto Sequencing features with PC compatible ▪ Aluminium Block 250 mL capacity with Digital Temperature Controller ▪ Temperature Control Range: Room temperature to 450^oC ▪ Casted Aluminium Alloy Heaters, Power : 3500 W ▪ In-built digital integrated timer ▪ Microprocessor Allows more than 70 intelligent memory Programmes ▪ 12 desirable sequence steps of time /temp. domain ▪ 840 memory segments with intelligent software ▪ Display : 4.3" TFT Graphic touch screen Display. 480 \times 272 ▪ Q VGA Resolution, RGB 65,000 true to life colours, ▪ TFT Screen Capacitive Touch, Supports all available Windows fonts and characters. ▪ Unique wireless mouse to operate touch screen directly without PC at a distance of 2 mtrs from equipment ▪ Display status :SV, PV, Program No. Step No., & timer ▪ Display Resolution : 0.1 ▪ Direct USB port for PC/Laptop compatibility without the need of RS 232 or RS 485 convertor ▪ Additional PC Chart Software ▪ Remote Control Module for wireless data monitoring, control and transfer to PC at a distance of 30 feet from equipment ▪ Inbuilt software programme to handle Micronutrient,

Macronutrient, Trace Element with single Acid, Diacid and triacid digestion

- CE Certified with inbuilt safety features like auto error indication, auto over temperature protection and auto sensor break protection.
- Auto alarm for user's attention, Auto power off mode on completion of digestion
- 20 Digestion Tubes (Macro) 250 ml, SS Inset Rack, Exhaust Manifold System with Teflon adaptors, Cooling Support Rack, Easy autofix spring clamps
- Additional 20 Digestion Tubes (Macro) 250 ml capacity
- Suction filter pump for fume removal
- The part is to be supplied with 5 KVA On-Line UPS System with 2 Hours Battery Back-up using SMF (Sealed Maintenance Free) Batteries including battery rack and interconnecting cables (inclusive of all upto installation)

Automatic Scrubber System

- Non corrosive centrifugal suction pump with inbuilt self priming feed pump for water recirculation.
- Non corrosive submersible pump for condenser water circulation
- Vacuum Source: Giant Aspirator filter pump
- Alkali container capacity : 2 litres
- Water container capacity : 2 litres
- Outer cover : MS Powder Coated
- Fibre Reinforced plastic Tank of capacity 10 litres
- Pump: Self priming water recirculation pump.
- The part is to be supplied with 3 KVA On-Line UPS System with 2 Hours Battery Back-up using SMF (Sealed Maintenance Free) Batteries including battery rack and interconnecting cables (inclusive of all upto installation)

Automatic Distillation System

- User friendly large Colour Touch Screen - TFT LCD Display (4.3")
- 100 predefinable autosequencing user storage programmes (Standard / Customizable methods)
- Auto and Manual mode of Operation, Auto calculation of results
- Automatic Boric acid Addition, Automatic Dilution
- Automatic Alkali addition
- KMnO_4 addition for determination of available Nitrogen
- Steam injection, Residue removal, Process over indication with alarm
- Auto Aspiration of Receiver Residue
- Microbrilliant distillate control with adjustable sensor
- Automatic Titration Connectivity Feature for future upgradation
- High resolution of 480×272 pixels, Flow diagram display of auto sequencing steps
- Data table Export to Excel
- Auto error indication on error diagnosis
- Auto program termination and deactivation of system when system is not in stand by mode and tube not in place
- RS 232 interface for PC connectivity with USB converter port
- High grade Stainless steel non corrosive steam Generator
- Fully Automatic water level monitoring with centrifugal refilling pump & Peristaltic pump for reagents addition.
- Auto reagent level sensor with indication for Alkali, KMnO_4 &

		<p>H₃BO₃</p> <ul style="list-style-type: none"> ▪ Adjustable steam power-10 to 100%, Auto online water saving ▪ Automatic sensing of no water condition in the condenser with auto alarm and warning signal to alert user. ▪ Auto deactivation of operation after few minutes of warning on "No water Condition" in case of user non availability ▪ Automatic monitoring and measuring of high temperature in distillate with auto warning signal and safety alarm to control distillate temperature with temperature display ▪ Continuously measured temperature is displayed digitally. ▪ Inbuilt Automatic Printer and Inbuilt Software for Calculation of results ▪ Automatic claculation of results on input of titre value in terms of percentage of Protein / Nitrogen ▪ Software compatible for calculation and reporting of results with builtin formulae. ▪ Interconnectivity cable to operate system through PC or Laptop ▪ PC with Laser printer ▪ Additional 20, 250 mL capacity digestion tube ▪ Working Table: Anti-vibration table for keeping instrument ▪ Should have minimum 1 year warranty and CMC for 3 years beyond warranty period ▪ One compatible Servo controlled Stabilizer should be supplied along with the machine.
10.	Laboratory Freezers – 1 Unit	<p>Standard Specification:</p> <ul style="list-style-type: none"> ▪ Volume: minimum 231 L and is able to store 2.2mL vials: 32,000 or more ▪ Temperature range: -50°C to -80°C ▪ Control: Microprocessor controlled monitoring system ▪ Internal doors 4 with 4 Inner Compartments. ▪ It should have Auto voltage safeguard & adjustable warm/cold alarms ▪ Insulation: High Density HFC-blown Polyurethane Foam of 127 mm ▪ Alarm System: audible/visual alarm system with battery back-up of temperature deviation, door open, low battery. ▪ Power consumption should be less than 19 KW/day ▪ It should have standard data output system ▪ Warranty: 2 years and 4 years for compressor. ▪ It should meet the quality standards (CE & UL). ▪ Pressure equalization port for reopening of door within a minute. ▪ Optional feature for 21 CFR Part 11 Compliance Wireless data monitoring for the freezer temperature with SMS alert facility should be quoted for future up gradation. ▪ The instrument is to be supplied with 1 KVA On-Line UPS System with 0.5 Hours Battery Back-up using SMF (Sealed Maintenance Free) Batteries including battery rack and interconnecting cables (inclusive of all up to installation) ▪ One compatible Servo controlled Stabilizer should be supplied along with the machine. ▪ Should have minimum 1 year warranty and CMC for 3 years beyond warranty period

11.	Microprocessor Laboratory pH Meter – 1 Unit	Standard Specification: <ul style="list-style-type: none"> ▪ pH range: 0-14 pH ▪ Resolution: 0.01 pH hr⁻¹ ▪ Standard Buffer: 4.00, 7.00 and 9.183 ▪ Buffer Deviation: ±0.5 pH ▪ mV range: 0 to ±1999mv, Resolution 1 mv ▪ Accuracy: ±1mv ± 1 digit ▪ Temperature Compensation: Auto/Manual, 099.9^oC, Resolution 0.1, ▪ Display :7 digit 7 segment LED Display ▪ Printer Port: Printer Port with Dot Matrix printer ▪ Power: 230V±10%, 50Hz ▪ One compatible Servo controlled Stabilizer should be supplied along with the machine. ▪ Should have minimum 1 year warranty and CMC for 3 years beyond warranty period
12.	Nitrous oxide gas cylinder with heater and gas regulator – 1 Unit	Standard Specification: <ul style="list-style-type: none"> ▪ Volume: 47.0 liters Water Capacity Nitrous Oxide Gas with Cylinders Outright Basis. ▪ Gas Service : Nitrous Oxide Gas ▪ Purity : 99.9% Or Lab Grade for AAS Instrument ▪ Valve Connection : Brass ▪ Cylinder Pressure when it is full : 140 Kg cm⁻² ▪ Cylinder Certificate: Should have Cylinder Certificate ▪ Heater
13.	Microscope with image editing software and computer – 1 Unit	Standard Specification: <ul style="list-style-type: none"> ▪ Observation Method: Phase Contrast, Fluorescence (Blue/Green Excitations), Fluorescence (Ultraviolet Excitations), Differential Interference Contrast, Simple Polarized Light, Brightfield, Darkfield ▪ Illuminator: Transmitted Koehler Illuminator(LED Lamp and 30 W Halogen Lamp) and Fluorescence Illuminator(100 W Hg Lamp, 75 W Xenon Lamp and Light Guide Illumination) ▪ Focus: Focusing Mechanism (Stage Focus) ▪ Intermediate Magnification Changer: Manual Terret ▪ Revolving Nosepiece: Manual (Coded- Max. 7 position and Standard Type - Max. 7 position) ▪ Stage: Mechanical (Mechanical Stages with Right-Hand Control- X: 76 mm, Y: 52 mm; Oil Rectangular Stage with Right-Hand Control- X: 76 mm, Y: 52 mm; Plain Stage- U-SP; Rotatable Graduated Stage- Rotation: 360 degrees) ▪ Condenser: Manual [Universal Condenser- Dry: NA0.9/ W.D.1.5 mm, Oil: NA1.4/ W.D.0.63 mm (1.25× - 100×); Swing-Out Condenser- NA0.9/ W.D.2 mm (1.25× - 100×); Achromatic/Aplanatic Condenser- NA1.4/ W.D.- (10× - 100×); Ultra Low Condenser- NA0.16/ W.D.- (1.25× - 4×); Darkfield Condenser Dry- NA0.8 - 0.92/ W.D.4.52 mm (10× - 40×); Darkfield Condenser Oil- NA1.2 - 1.4/ W.D.0.5 mm (20× - 100×); Low Magnification Condenser- NA0.75/ W.D.1.55 mm (2× - 100×); Abbe Conenser- NA1.1/ W.D.- (4× - 100×); Phase Contrast Condenser- NA1.1/ W.D.0.7 mm (4× - 100×); Polarizing Condenser- NA0.9/ W.D.- (4× - 100×)] ▪ PC with Laser printer

		<ul style="list-style-type: none"> ▪ One compatible Servo controlled Stabilizer should be supplied along with the machine. ▪ Should have minimum 1 year warranty and CMC for 3 years beyond warranty period
14.	Temperature control centrifuge <p style="text-align: right;">– 1 Unit</p>	<p>Standard Specification:</p> <ul style="list-style-type: none"> ▪ Centrifuge with temperature control at least from : -9°C to 40°C ▪ Fixed angle rotor for at least 6 × 85 mL with minimum 6 pcs conical tube adapters each for 15 mL and 50 mL tubes. Max. Speed should be above 15000 × g ▪ Fixed angle rotor for at least 30 × 1.5/2.0 mL tubes. Max. Speed should be above 20000 × g ▪ Facility for Standby cooling is essential. ▪ Facility for Fast Temperature function for pre-cooling is essential ▪ Low access height (not more than 30 cm) for easy access for sample ▪ Noise level should not be above 58 dB(A) ▪ Should be with built in condensation drain to eliminate water accumulation and prevent corrosion ▪ Should have brushless induction motor to provide maintenance-free operation, eliminating carbon particle emissions for Green initiative. ▪ Rotors should be autoclavable and made of recyclable aluminum, 100% recyclable packaging material. ▪ Should have the facility to save minimum 35-50 protocols with program name ▪ Should have ECO shut-off facility to engage after 8 hours of non-use to reduce energy consumption and to extend compressor life. ▪ Automatic rotor recognition with speed limitation for maximum safety and automatic imbalance detection is essential. ▪ Compatible Servo Controlled Stabilizer is required to be supplied along with centrifuge. ▪ Should have minimum 1 year warranty and CMC for 3 years beyond warranty period ▪ Anti-vibration table for placing instrument
15.	Temperature control shaker <p style="text-align: right;">– 1 Unit</p>	<p>Standard Specification:</p> <ul style="list-style-type: none"> ▪ Large LED display for speed and time settings. ▪ Table top with Cover hood ▪ Inner Chamber Volume: 50 L or more. ▪ All Controls with antimicrobial coating ▪ Integrated PID temperature control by use of two PT 1000 temperature sensors. ▪ Electronic temperature and speed control ▪ Electronic timer switch: 0 - 999 h ▪ Unit switches off automatically if chamber hood open. ▪ Collecting tray with drain hose on rear of unit ▪ Shaking movement: orbital with minimum 20mm dia ▪ Max. shaking weight (with attachment): 7 to 7.5kg ▪ Adjustable speed range: 10 - 500 rpm in 1 rpm steps ▪ Heat output: 1.000 W ▪ Temperature range: RT + 5°C to 80 °C ▪ Set tem. Resolution: ± 0.1 ▪ Operating Mode: Timer or Continuous operation. ▪ USB and RS 232 interface must

		<ul style="list-style-type: none"> ▪ Supply should include : Universal attachment ▪ Should have minimum 1 year warranty and CMC for 3 years beyond warranty period
16.	Thermal Cycler – 1 Unit	<p>Standard Specification:</p> <ul style="list-style-type: none"> ▪ Gradient Thermal Cycler with 96 × 0.2 mL PCR tubes or 1 PCR Plate 8 × 12 ▪ Temperature Control Range of the Block : 4-99°C ▪ Thermal Block should be of Silver ▪ Gradient block with Steady Slope Technology ▪ Peltier heating elements with Triple Circuit Technology ▪ Vapo Protect Technology with Thermal Sample Protection for ultimate reduction of evaporation. ▪ Gradient Range 1-24°C ▪ Max. Power consumption not more than 1000 W ▪ Block Heating rate not less than 6°C ▪ Block Cooling rate not less than 4.5° ▪ Compatible UPS is required to be supplied along with Thermal Cycler. ▪ Should have minimum 1 year warranty and CMC for 3 years beyond warranty period ▪ One compatible Servo controlled Stabilizer should be supplied along with the machine. ▪ Working Table: Anti-vibration table for placing instrument
17.	UV-Visible Spectrometer – 1 Unit	<p>Standard Specification:</p> <ul style="list-style-type: none"> ▪ Stray light (%T): <ul style="list-style-type: none"> ♦ At 198 nm (12 g/L KCl, TGA& BP/EP method) $\triangleright \leq 1\%$ ♦ At 220 nm (10 g/L NaI ASTM method) $\triangleright \leq 0.05\%$ ♦ At 370 nm (50 mg/L NaNO₂) $\triangleright \leq 0.05\%$ ▪ Wavelength range (nm): 190-1100 nm ▪ Wavelength accuracy (nm): ± 0.5 at 541.94 nm ▪ Wavelength reproducibility (nm): ± 0.1 nm ▪ Photometric accuracy (Abs): <ul style="list-style-type: none"> ♦ Using NIST930E filters at 1 Abs $\triangleright \pm 0.005$ Abs ♦ At 0.2, 0.5 & 0.75 Abs (14.2% w/v KNO₃, TGA method) $\triangleright \pm 0.01$ Abs ♦ 0.292 to 0.865 Abs (60.06 mg/L K₂Cr₂O₇, BP method) $\triangleright \pm 0.01$ Abs ▪ Photometric range (Abs): ± 4.0 Abs ▪ Photometric display: ± 9.9999 Abs, ± 200.00 %T ▪ Photometric reproducibility (Abs): <ul style="list-style-type: none"> ❖ Using NIST930E filters, at 465 nm, 2 s SAT ♦ Maximum deviation at 1 Abs $\triangleright < 0.004$ Abs ♦ Standard deviation for 10 measurements $\triangleright < 0.00050$ Abs ❖ Using NIST930E filters, at 546.1 nm, 2 s SAT ♦ Maximum deviation at 0.5 Abs $\triangleright < 0.003$ Abs ♦ Standard deviation for 10 measurements $\triangleright < 0.0030$ Abs ▪ Photometric stability (Abs/hour): <ul style="list-style-type: none"> ♦ 500 nm, 10 s SAT $\triangleright < 0.0004$ Abs ▪ Photometric noise (Abs, RMS): <ul style="list-style-type: none"> ❖ 500 nm, 1 s SAT ♦ At 0 Abs $\triangleright < 0.0001$ Abs ♦ At 1 Abs $\triangleright < 0.0005$ Abs ♦ At 2 Abs $\triangleright < 0.005$ Abs

		<ul style="list-style-type: none"> ❖ 260 nm, 1 s SAT ❖ At 0 Abs ➤ < 0.00015 Abs ▪ Baseline flatness (Abs): ❖ 200 to 850 nm, smooth 21 filter applied, baseline corrected ➤ ± 0.001 Abs ▪ Compartment size (width x depth x height): 130 mm x 523 mm x 123 mm ▪ Sample compartment access: Top and front ▪ Spectral bandwidth (nm): Fixed at 1.5 nm (approximately) ▪ Signal averaging (seconds): 0.0125–999 s ▪ Maximum scan rate (nm/min): 24,000 nm/min ▪ Slew rate (nm/min): 24,000 nm/min ▪ Data interval (nm): 0.15–5.0 nm ▪ Repetitive scanning: 4800 data points per minute, maximum number of cycles: 999, maximum cycle time (min): 9999 ▪ Data collection rate: 80 data points/second ▪ Temperature monitor: Temperature probe inside cuvette (using the Temperature Probe Accessory) ▪ Minimum sample volume: 0.5 µL ▪ PC with Laser printer ▪ The instrument is to be supplied with 1 KVA On-Line UPS System with 1 Hours Battery Back-up using SMF (Sealed Maintenance Free) Batteries including battery rack and interconnecting cables (inclusive of all upto installation) ▪ Should have minimum 1 year warranty and CMC for 3 years beyond warranty period ▪ One compatible Servo controlled Stabilizer should be supplied along with the machine. ▪ Working Table: Anti-vibration table for Instrument, placing computer monitors, mouse, keyboard, printer etc.
18.	Autoclave – 1 Unit	<p>Standard Specification:</p> <ul style="list-style-type: none"> ▪ Capacity : 28 L ▪ Working Temperature: 121°C-140°C ▪ Operating Pressure: 15 PSI/18 PSI ▪ Sterilization Time: 1 to 15 Minutes ▪ Construction: 304 Grade Stainless Steel / Aluminum ▪ Safety: <ul style="list-style-type: none"> ➤ CE Marked Pressure Valves ➤ Lid Locks ➤ Steam & vacuum release valve ▪ Heating: Electric Heating ▪ Certification: CE Marked ▪ Power: AC 220V/50Hz ▪ Other Accessories: <ul style="list-style-type: none"> ➤ Digital temperature indicator ➤ Sterilization indicator ➤ Buzzer ➤ Low water sensor ➤ Low water cut-off device ➤ Containers and baskets ➤ Aluminium basket with handle ➤ Stainless Steel Wire Basket ➤ Plastic Disinfectant Tray ▪ Should have minimum 1 year warranty and CMC for 3 years

		<p>beyond warranty period</p> <ul style="list-style-type: none"> ▪ One compatible Servo controlled Stabilizer should be supplied along with the machine.
19.	Gel documentation system – 1 Unit	<p>Standard Specification:</p> <ul style="list-style-type: none"> ▪ Scientific grade CCD camera to get the images of RNA , DNA and Protein gels ▪ Motorised zoom lens ▪ Image resolution: 5 megapixels ▪ Native resolution: 2600(H)x1950(V) ▪ Passive cooling ▪ USB-3 connection ▪ 16-bit - 65 536 grey levels ▪ Maximum field of view: approximately 20 x 20cm ▪ Progressive scan – low dark current ▪ Continuous variable shutter speed ▪ High sensitivity for fluorescence detection ▪ Live or exposure time modes ▪ Binning options ▪ Touch Screen ▪ In built software with computer and printer should be supplied with the machine ▪ Compatible Servo Controlled Stabilizer should be supplied ▪ Should have minimum 1 year warranty and CMC for 3 years beyond warranty period ▪ Working Table: Anti-vibration table for Instrument
20.	Hot air oven – 1 Unit	<p>Standard Specification:</p> <ul style="list-style-type: none"> ▪ Capacity: 97 L or more ▪ Temperature deviation from set value at 150°C, spatial: ±1.8°C ▪ Temperature deviation from set value at 150°C, over time: ±0.2°C ▪ Heat-up time: 4 min ▪ Recovery time: 9 min ▪ Heat-up time with boost heat active (to set temperature of 300°C): 0.16 min ▪ Heat dissipation to environment (at set temperature of 150°C and room temperature of 25°C) : 275±10% W ▪ Overall dimensions (W × H × D): 25.2 inch × 32.3 inch × 22.2 inch ▪ Overall weight: 44 kg ▪ No. of Shelves (min) : 12 ▪ Loading capacity per shelf: 25 kg ▪ Max. overall loading capacity per device: 55 kg ▪ Power consumption: 1440 W ▪ Maximum current: 12 A ▪ Protection class: I ▪ Noise level: 45 dB(A) ▪ Should have minimum 1 year warranty and CMC for 3 years beyond warranty period ▪ One compatible Servo controlled Stabilizer should be supplied along with the machine. ▪ Working Table: Anti-vibration table for Instrument
21.	Hot plate – 1 Unit	<p>Standard Specification:</p>

		<ul style="list-style-type: none"> ▪ Hotplate should be made of chemical resistance ceramic glass ▪ Maximum Volume : 10 to 12 liter of H₂O ▪ Temperature range should be minimum 50°C to 500°C. ▪ Heating rate minimum 5.0K/min or better ▪ Instruments should have fixed Temperature safety circuit at 550 °C. ▪ Instrument should have hot Top indicator for hot surface warning ▪ Temperature setting via digital LED display ▪ Protection class according to DIN EN 60529 IP 21 or equivalent ▪ Should have digital error code display for easy maintenance & operation ▪ Should have Elevated control panel for protection against leaking liquids. ▪ Hotplate dimension : not less than 175 x 175 mm ▪ Voltage [V] 230, Frequency [Hz] 50/60, ▪ One compatible Servo controlled Stabilizer should be supplied along with the machine. ▪ Should have minimum 1 year warranty and CMC for 3 years beyond warranty period
22.	Magnetic stirrer with hot Plate – 1 Unit	<p>Standard Specification:</p> <ul style="list-style-type: none"> ▪ Hotplate should be made of chemical resistance ceramic glass ▪ Stirring Capacity of up to 5 Liters (H₂O) or better ▪ Temperature range should be minimum 50°C to 500°C. ▪ Heating rate minimum 2.5K/min or better ▪ Heat output maximum 1000 Watt ▪ Instruments should have fixed Temperature safety circuit at 550 °C. ▪ Temperature setting via digital LED display ▪ Speed control with scale with speed range 100 – 1500 rpm or better. ▪ Protection class according to DIN EN 60529 IP 21 or equivalent ▪ Should have digital error code display for easy maintenance & operation ▪ Should have Elevated control panel for protection against leaking liquids. ▪ Hotplate dimension : not less than 100 x 100 mm ▪ Voltage [V] 230, Frequency [Hz] 50/60, ▪ One compatible Servo controlled Stabilizer should be supplied along with the machine. ▪ Should have minimum 1 year warranty and CMC for 3 years beyond warranty period
23.	Midi sub system including power supply unit – 1 Unit	<p>Standard Specification:</p> <ul style="list-style-type: none"> ▪ Principal material: acrylic ▪ Inner Tank Dimension:215×141×55mm ▪ No of trays: ▪ 130×130- 1 nos ▪ 130×65mm- 2nos ▪ 65 ×65mm- 4 nos ▪ No. of combs: ▪ 13 Well Analytical Acrylic Comb: 1.5 mm thick × 1 No. ▪ 8 Well Analytical Acrylic Comb: 1.5 mm thick × 4 Nos. ▪ 3 Well Preparative Acrylic Comb: 3 mm thick × 1 No. ▪ Gel casting tray, connecting cords and Electrodes ▪ Euro Model Digital Power Supply Unit ▪ Out put DC voltage: 10-300 V

			<ul style="list-style-type: none"> ▪ variable Output current: 4-400 mA, ▪ 4 parallel outputs, ▪ 4 mm sockets ▪ Display: Digital ▪ One compatible Servo controlled Stabilizer should be supplied along with the machine. ▪ Should have minimum 1 year warranty and CMC for 3 years beyond warranty period
24.	Vortex mixer	- 1 Unit	<p>Standard Specification:</p> <ul style="list-style-type: none"> ▪ Speed: 500 to 3000 rpm ▪ Acceleration time: 3 sec ▪ Orbit: 2 mm ▪ Maximum tube diameter: 15 mm ▪ Capacity: 16 × 1.5, 8 × 0.5 and 8 × 0.2 ml tube ▪ Operating temperature range: +4 to 40°C ▪ Should have minimum 1 year warranty and CMC for 3 years beyond warranty period
25.	Lab desk	- 1 Unit	<p>Standard Specification:</p> <ul style="list-style-type: none"> ▪ 35ft × 7ft acid proof laboratory desk with water connection including basin, tap, drawers, reagent rack, electric points etc. ▪ Should have minimum 1 year warranty and CMC for 3 years beyond warranty period

Note: Price quoted for each Instruments / Equipments to be FOR/CIP with delivery/installation/training at Upper Assam Advisory Centre, Tea Research Association, Dikom -786101, Dibrugarh, Assam.

**Office of the In-Charge, Upper Assam Advisory Centre, Tea Research Association, Dikom-
786101, Dibrugarh, Assam, India
TECHNICAL BID (FOR ENVELOP I)**

I. General Particulars:

The Bidder should provide the following particulars along with relevant supporting documents:

1. Name of the firm	:	
2. Status of the firm (please tick) Proprietorship/ Partnership/ Co-operative/Company	:	
3. Name of the Proprietor/Partner/Managing Director (as the case may be)	:	
4. Mailing address	:	
5. Firm Registration No	:	
6. GST Registration No	:	
7. (i) Tel. No	:	
(ii) Mobile No.	:	
(iii) Fax No	:	
(iv) E-mail address(es)	:	
8. Name and designation of the person authorized to make commitments to the Upper Assam Advisory Centre	:	
9. Year of establishment of the Organization	:	
10. Description of business and business background (on firm's letter head with seal).	:	
11. Client profile (On firms' letter head with seal).	:	
12. Address of the firm's office/ establishment in Guwahati/ Dibrugarh/Assam (if any)	:	
13. Details of similar work of Govt./ Semi Govt./ Autonomous/ Local bodies / Universities/ other institutions during last two years (on firm's letter head with seal)	:	
14. Turnover details for past two years, please enclose Profit & Loss A/c and Balance Sheets duly audited by Chartered Accountant. (Attach copies of Work Order and satisfactory completion of work)	:	
15. Details of Bank Account No.	:	
(i) Name of the Bank	:	
(ii) Branch Code	:	
(iii) IFSC Code	:	
(iv) MICR Code	:	
16. Details of Tender Processing fee (non- refundable)	:	
(i) Amount	:	
(ii) D. D. No	:	
(iii) Date	:	
(iv) Bank name	:	
17. Details of EMD fee	:	
(i) Amount	:	

(ii)	D. D. No	:	
(iii)	Date	:	
(iv)	Bank name	:	

❖ DECLARATION ❖

1. We confirm that we shall abide by all the terms and conditions contained in the application for pre-qualification.
2. All the details mentioned above are true and correct and if there are misrepresentations of facts on any matter at any stage, competent Authority of Upper Assam Advisory Centre, Tea Research Association, Dikom-786101, Dibrugarh, Assam has the right to reject the proposal and disqualify us from the process.
3. We hereby acknowledge and unconditionally accept that Upper Assam Advisory Centre, Tea Research Association, Dikom-786101, Dibrugarh, Assam can at its absolute discretion apply whatever criteria, if deems appropriate for short listing of bidders.
4. We also confirm that we have noted the contents of the enclosed documents forming part of it and have ensured that there is no deviation in filling our offer in response to the tender. The Upper Assam Advisory Centre, Tea Research Association, Dikom-786101, Dibrugarh, Assam shall have the option to disqualify us in case of any such deviations.
5. After receipt of purchase order and upon supply of the item, if Upper Assam Advisory Centre, Tea Research Association, Dikom-786101, Dibrugarh, Assam detects deviation of any specifications of the supplied items, we understand that Upper Assam Advisory Centre, Tea Research Association, Dikom-786101, Dibrugarh, Assam has the right to cancel the Purchase order. We agree to take back the supplied item(s) at our own cost.
6. We have enclosed all the relevant documents as mentioned above.

Signature & Seal of Bidder

Date:

FINANCIAL BID (FOR ENVELOPE-II)

Rates must be shown in following order:

Sl No	Item with (Specification)	Quantity	Unit Price (in Rs.)	Tax applicable (in Rs.)	Total Price (in Rs.)
			Total Price w/o Tax		
			Tax:		
			Total Price with Tax		

PS.: Total price should not have any hidden cost

Price should be included with CMC for three years beyond warranty period

Signature & Seal of Bidder

Date:

***** **END** *****