



TEA RESEARCH ASSOCIATION  
TOCKLAI TEA RESEARCH INSTITUTE  
CINNAMARA, JORHAT-785 008, ASSAM, INDIA

Ph.-91-376-2360973 / 2360974 / 2360475 Fax: 91-376-2360474, e-mail: [administration.tocklai@tocklai.net](mailto:administration.tocklai@tocklai.net), Web: [www.tocklai.net](http://www.tocklai.net)

Ref: 3622/TOK/G.25/498

4<sup>rd</sup> September, 2025

**Tender No.TRA/Tocklai/2025-26/T-249      Dated 04.09.2025**

Sealed tenders in two parts (Technical Bid & Financial Bid) are invited by the Director, Tea Research Association from authorized parties for procurement of Equipment(s) at Tocklai Tea Research Institute, Tea Research Association, Jorhat - 785008, Assam. Both the bid documents are to be put in sealed envelopes separately super scribing the words “Technical Bid “ & “Financial Bid” which are to be put together in the sealed envelope super scribing the Tender No. The details of required equipments are shown as ‘Annexure – A’ enclosed herewith.

**Last date of issue/receipt of tenders: 24.09.2025 up to 5.00 pm.**

**Terms and Conditions:**

- 1) The tenderer should submit the following documents along with the tender:
  - a) Dealership certificate/authorization certificate
  - b) OEM authorization letter with the tender details along with the details of authorization letter issuer should be provided along with the offer (in-case of bidder is not a manufacturer)
  - c) List of users
  - d) Up-to-date sales tax/GST /income tax clearance certificate
  - e) Bidder should not have any police case and/or black listed. Undertaking must be provided on their company's letterhead. If found incorrect, bids will be rejected.
- 2) **Earnest Money 2% (refundable)** 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 Jorhat.
- 3) **Tender Document Cost (non refundable) of Rs.1,000/-** is to be deposited in the form of **separate Bank Draft** in favour of “Tea Research Association” payable at Jorhat.
- 4) Tenders must accompany with the product catalogues/ specification/ technical datasheet from the OEM.
- 5) Tenderers must quote the warranty period of the product.
- 6) Bidder should not have any police case and/or black listed in any institution of Assam. Undertaking must be provided on their company's letterhead. If found incorrect, bids will be rejected.
- 7) **For Item no-1, tenderers must quote the year-wise rate for CMC or AMC separately for a further period of 2 years beyond the warranty period.**
- 8) **Equipments are to be delivered/installed FOR/CIP at Tocklai Tea Research Institute, Jorhat – 785008, Assam.**

TRA reserves the right to accept or reject the bids without assigning any reason thereof. This tender document can also be obtained from the office of the undersigned during working days from Monday to Friday (8-30 am to 5.00 pm).

**Tender should be accompanied by Tender Document Cost of Rs.1,000/- and Earnest Money 2% of the quoted amount, failing which the tender will be rejected. The drafts for EMD and Tender Document Cost should be enclosed with “Financial Bid” only.** All tenders should be sent to the following address:

The Director,  
Tea Research Association  
Tocklai Tea Research Institute,  
Cinnamara, Jorhat-785 008, Assam.

**DIRECTOR  
TRA**

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](http://www.tocklai.net)

## **Annexure – A**

### **SPECIFICATIONS OF REQUIRED SERVICES**

Sl. No.	Items	Unit No.	Specifications
1.	<b>Multimode Reader</b>	01	<ol style="list-style-type: none"> <li>1. Microplate reader with tandem detection technology with spectrometer-based UV-Vis absorbance, filter or spectral based fluorescence intensity, FRET, TRF, and luminescence.</li> <li>2. Wavelength range for UV-absorbance, Fluorescence and Luminescence must be between (&lt;260 -760nm&gt;)</li> <li>3. The light source should be xenon flash lamp with capacity to take readings from both top and bottom end.</li> <li>4. The instrument must have CCD based advanced Spectrometer detector for UV-Vis; Photomultiplier Tube (PMT) detector for Fluorescence and Luminescence readings.</li> <li>5. Instruments offered with filters must have on-board 6-8 positions each for Excitation and emission filters on the wheel /slider. A minimum of four excitation and four emission filters should be supplied.</li> <li>6. Measurement Modes like Endpoint and Kinetic measurements, SequentialMulti Excitation measurements / Multi Emission measurements</li> <li>7. The instrument must have linear and orbital shaking modes with user-definable time and speed.</li> <li>8. The Instrument should be able to control temperature at least between 4°C to 45°C</li> <li>9. The instrument must be compatible with environment control unit for CO<sub>2</sub> and O<sub>2</sub> with option for upgradation to control and monitor CO<sub>2</sub>/O<sub>2</sub> level in the instrument chamber with its software and control device</li> <li>10. Should be compatible with 6 to 384-wellMicroplates.</li> <li>11. The system must be on-site upgradable to – <ol style="list-style-type: none"> <li>a) Two injectors to dispense reagents and initiate kinetic assays.</li> <li>b) Simultaneous dual emission detection for BRET and FRET assay.</li> <li>c) Future compatible with low volume plate for DNA/RNA/Protein measurement</li> </ol> </li> <li>12. License-free software possible to install on multiple computers should be supplied. The software must compliant with US FDA regulation 21 CFR</li> <li>13. A suitable warranty period must be mentioned with service support in Northeast region</li> <li>14. The system must be supplied with a suitable computer, i5 processor, 8GB RAM, 500 GB SSD, 18-inch monitor, keyboard etc. Also, a compatible UPS for computer must be provided.</li> <li>15. A 1.5-ton AC must be supplied with the instrument</li> </ol>

			<p>along with installation for maintaining conducive environment.</p> <p>16. Minimum warranty of 1 yearafter date of installation</p>
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2.	<b>Hot Air Oven</b>	01	<ol style="list-style-type: none"> <li>1. Microprocessor-based PID-controlled forced convection oven with digital temperature display</li> <li>2. Inner chamber dimension should be 600 x 600 x 900mm [WxDxH]</li> <li>3. Material of construction: The Inner chamber should be made of mirror-finished SS304, the Outer should be powder-coated steel with usable internal volume between 300 to 350 Lts.</li> <li>4. The oven should be fitted with PT-100 temperature sensor with temperature uniformity of <math>\pm 1^{\circ}\text{C}</math> and control accuracy of <math>\pm 0.2^{\circ}\text{C}</math> or better</li> <li>5. Temperature range: Ambient + <math>5^{\circ}\text{C}</math> to <math>250^{\circ}\text{C}</math></li> <li>6. The Inner chamber should have a minimum of 4 stainless steel wire mesh trays with adjustable grooves in the inner part of the oven chamber.</li> <li>7. For over-temperature safety, the oven should have a stand-by thermostat to cut off the heater supply.</li> <li>8. For electrical overload, the oven should be fitted with an MCB</li> <li>9. For uniform air circulation, the oven should be fitted with an air blower with F-class insulation.</li> <li>10. Oven heating elements should be industrial-grade ISI tubular sheathed heater.</li> <li>11. Operating voltage should be 220-240 V with a single-phase connection.</li> <li>12. The product should be CE certified, and the OEM should be ISO certified, and the product should have NABL certification of temperature for a minimum 1 year</li> <li>13. Minimum warranty of 1 year after date of installation</li> </ol>
3.	<b>Bench Top Centrifuge</b>	01	<ol style="list-style-type: none"> <li>1. Non-refrigerated laboratory centrifuge.</li> <li>2. Microprocessor-controlled centrifuge machine with digital LCD/LED display showing speed and time.</li> <li>3. The centrifuge machine (without rotor) should have an RPM of 20000 or more.</li> <li>4. RPM holding accuracy of <math>\pm 100</math> RPM.</li> <li>5. The centrifuge should be provided with an angular rotor with a capacity of 8x50ml.</li> <li>6. The rotor should have an RPM of 10000 or more.</li> <li>7. The centrifuge should be fitted with a brushless induction motor with automatic rotor identification for accurate speed setting.</li> <li>8. The lid should be fitted with a safety feature so that the rotor does not run without closing the lid.</li> <li>9. The centrifuge should have a weight imbalance, over-current and over-heating auto cut-off safety feature.</li> <li>10. Power: 220-240 Volts 50 Hz Single Phase.</li> <li>11. Minimum warranty of 1 year after date of installation</li> </ol>

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