



Tea Research Association

Tender No. TRA-KOL/TLabs/2024-25/01 dated 02.04.2024

The Secretary, Tea Research Association (TRA) invites sealed tenders in two parts (**Technical Bid & Financial Bid**), from reputed manufacturers / authorized dealers/importers for the supply of Instrument / Equipment under the DST sponsored project entitled "Camellia-IDrone An Intelligent Automatic System for the Pest Infestation Assessment and Spraying Intervention in Tea Plants of North-East Region (DST/TDT/TDP-56/2022)" and the NTRF sponsored project entitled "Profiling of characteristic volatile flavour constituents (VFC) and nonvolatile quality components of Indian teas from Darjeeling, Assam, Dooars and other countries Project (Code No. NTRF:218/2024)" for item no 1 & 2 in annexure A, respectively at TLabs, Tea Research Association, Kolkata, West Bengal -700016. Both the bid documents are to be put in sealed envelopes separately superscribing the words "Technical Bid" & "Financial Bid" which are to be put together in the sealed envelope superscribing the Tender No. The details of instruments/equipment are shown as 'Annexure – A' enclosed herewith.

Last date for receiving bids: April 22, 2024, up to 5.00 p.m.

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% (refundable) of the quoted amount is to be deposited by the tenderer in the form of a Bank draft/Bankers certificate in favour of "Tea Research Association" payable at Kolkata.
- 3) Tender Document Cost (non-refundable) of Rs.1,000/- is to be deposited in the form of a separate Bank Draft in favour of "Tea Research Association" payable at Kolkata.
- 4) Tenders must accompany the product catalogues/specifications.
- 5) Tenderers must quote the warranty period of the product.
- 6) Tenderers must quote the year-wise rate for CMC or AMC separately for a further period of 4 years beyond the warranty period (1-year Standard warranty + 4 years CMC/AMC).
- 7) Instrument/equipment is to be delivered/installed FOR/CIP at **TLabs, Tea Research Association, Kolkata, West Bengal -700016.**

TRA reserves the right to accept or reject the bids without assigning any reason thereof. The tender document can be downloaded from the website www.tocklai.org.

The tender should be accompanied by a Tender Document Cost of Rs.1,000/- and Earnest Money 2% of the quoted amount, failing which the tender will be rejected. The Bank Draft for EMD and Tender Document Cost should be enclosed with "Financial Bid" only.

All tenders should be sent to the following address: "**Secretary, Tea Research Association, 113, Park Street, 9th Floor, Block B, Kolkata-700016, West Bengal, India**".

**Secretary
Tea Research Association**

Annexure – A

SI No.	Item	Unit No.	Specifications
1	Low Volume Concentrator	01	<p>For fifty samples with timer Microprocessor based water bath with adjustable temperature as well as timer for purging Nitrogen Gas with individually controlled sample concentration and pressure gauge. Timer Range: 0 to 5 hours or more, Time set up Keys with 1-5 min increments, Temperature Range : Ambient to 100°C, Temperature set up with 1° increment, Digital display, Gas Station/ gas line : 5 Nos. or more with LED indication, Gas regulator range : 0 to 100 psi (approx.) , Fully microprocessor control , S.S Rack with suitable glass tube (capacity 10 mL or more) -1000 pcs. Nozzle cap- 100 pcs. Standard fittings like Nuts, Ferrules, Union, Couplings, clamps, Hardware etc for coupling with N₂ generator (Peak Scientific) and Installation.</p> <p style="text-align: center;">IQ/OQ/PQ DOCUMENTS AND INSTALLATION</p>
2	Headspace- Solid Phase Micro Extraction (HS-SPME) Arrow autosampler system	01	<p>HS-SPME Arrow system for Volatile flavour constituents (VFC) analysis with Agilent make 7890B GC & 7000D MS system. Software compatibility should be with the present Masshunter (Agilent make) softer to run the system. This should also contain Fiber conditioning module, Agitator, and sample rack for VFC analysis (10/20 mL) as well as normal residue analysis (1.5/2 mL).</p> <p>Also kindly incorporate the suitable Column (may be DB 624 or else) along with the SPME cartridge (such as 65-µm polydimethylsiloxane divinylbenzene or else) for VFC analysis of tea samples.</p> <p style="text-align: center;">IQ/OQ/PQ DOCUMENTS AND INSTALLATION</p> <p>Training to operate the system and analysis the VFC.</p>