



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.17/1561

8th September 2017

Tender No. TRA-Tocklai/17-18/T-12 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 Instruments / Equipments under **N.T.R.F. sponsored Quality Control Laboratory at Tocklai Tea Research Institute, Cinnamara, Jorhat – 785008, Assam**. Both the bid documents are to 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 issue/receipt of tenders: 04.10.2017 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%** 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) 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.

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 a.m to 5.00 p.m.) or **may be down loaded from the website –www.tocklai.net**.

Tender should be accompanied by separate Bank Draft of Rs.1000/- 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 Jorhat. **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,
Tea Research Association
Tocklai Tea Research Institute,
Cinnamara, Jorhat-785 008, 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



Annexure - A**Equipments & Specifications**

Sl. No	Items & Unit	Specifications
1.	Analytical Balance – 1 Unit	Standard Specification: <ul style="list-style-type: none"> Max capacity: 0.....120g, Readability:0.01/0.1 mg, Repeatability: 0.03/0.08 mg, Linearity: 0.15 mg or better, Fully Automatic Temperature Controlled Calibration, LCD display, Tare facility: Full range. Build in interface for printer/PC connectivity.
2.	Precision Balance – 1 Unit	Standard Specification: <ul style="list-style-type: none"> Weighing range: 0.....220 g, Readability: 0.001 g, Repeatability: 0.001 g, Linearity: 0.002 g, Fully Automatic Internal Calibration, LCD display, Tare facility: Full range. Build in interface for printer/PC connectivity.
3.	Hot air oven – 1 Unit	Standard Specification: <ul style="list-style-type: none"> Double walled, inner wall good quality SS make, outer body mild steel sheet, insulation by fibre glass wool. Shelves: adjustable SS perforated trays. Temp range: 5-250oC. Temp should be calibrated. Air circulation by blower control panel. Inner chamber size: 24"x24"x36"...3 no Stainless Steel trays
4.	Muffle Furnace – 1 Unit	Standard Specification: <ul style="list-style-type: none"> Max temp: 1000 °C, Working temp: 900 °C, Temp controller: digital with an accuracy±1%. It should be calibrated, Muffle size: 6"x6"x12"
5.	Vortex – 1 Unit	Standard Specification: <ul style="list-style-type: none"> With speed regulator. Unique touch feature operates the unit tube is pressed on the rubber cap.
6.	Fume Chamber/ Hood – 1 Unit	Standard Specification: <ul style="list-style-type: none"> Inner chamber insulated by heat & fire proof sheet, working table acid /alkali resistant Granite, Door-sash door heat resistant toughened glass move up and down. Blower consists of 1/4HP 1440 rpm motor, Scrubber made of PVC pipe. Working chamber size 3'x2'x2'
7.	Refrigerated Centrifuge – 1 Unit	Standard Specification: <ul style="list-style-type: none"> Max speed 15,000 rpm, Temp.: -10 to + 40oC, LCD display, speed increment 10 rpm, low. Rotor: 100 ml; 50 ml; 15ml; 1.5/2.0mL
8.	Deep fridge – 1 Unit	Standard Specification: <ul style="list-style-type: none"> Capacity 400L, No of doors: 2, Temp: -20 °C
9.	Refrigerator – 1 Unit	Standard Specification: <ul style="list-style-type: none"> Capacity 400L, frost free, door: 3
10.	Homogenizer	Standard Specification:

		- 1 Unit	<ul style="list-style-type: none"> Table top automatic multi-sample (up to 6 samples) homogenizer with support stand and suitable rotor for made tea processing with digital display, max rpm: 30,000 or more.
11.	Low volume concentrator	- 1 Unit	Standard Specification: <ul style="list-style-type: none"> Tube capacity: 50 with suitable rack for 16 ml tube. Temp range: ambient to 900C, with timer, gas pressure regulators for each channel.
12.	Nitrogen Generator	- 1 Unit	Standard Specification: <ul style="list-style-type: none"> Noise free nitrogen generator. Purity UHP grade, flow 32 L/min. outlet pressure 100 psi.
13.	Millipore water purification system	- 1 Unit	Standard Specification: <ul style="list-style-type: none"> Both pure (Type 2) and ultrapure (Type 1) water to be produced directly from potable water. With storage tank of 50 L. Type 2 flow rate: 5 l/h& Type 1 flow rate: 2L/min
14.	Sonicator	- 1 Unit	Standard Specification: <ul style="list-style-type: none"> Ultrasonic bath with digital display of timer & temp, capacity: 5L

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