

**TEA RESEARCH ASSOCIATION**  
**Tocklai Experimental Station,**  
**Jorhat-785 008, Assam, India.**

**Tender No. TRA-11<sup>th</sup> Plan/10-11/T-11**

**Tender Document**

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. 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: 24.05.2010 (**Extended to 11.06.2010**) (8-30 a.m. – 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 /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 the Director, 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](http://www.tocklai.net)**.

Tender should be accompanied by separate Bank draft of Rs.100/- as tender cost (non refundable) and Earnest Money 2% of the quoted amount. Both the drafts should be drawn in favour of the Director, Tea Research Association payable at Jorhat. **The drafts for EMD and Tender Cost should be enclosed with “Price Bid” only.** All tenders should be sent to the following address:

The Director,  
Tea Research Association  
Tocklai Experimental Station,  
Cinnamara, Jorhat-785008.

**DIRECTOR**

## Annexure - A

### Equipment and Specification

SI. No.	NAME OF EQUIPMENT	SPECIFICATIONS
1	Fermentor	Fabrication of a Fermentor - Steel tank, Capacity 100 ltr. having system of sterilization, temperature control (25°C-35°C), pH control and dissolve Oxygen and stir facilities (Agitating system)
2	Chinese Panning Machine	Standard make.
3	Taiwan type Roller	Standard make.
4	Mini Dryer with Heater	Standard make.
5	Sorting Machine	Standard make.
6	Ultra High Performance Liquid Chromotography (UHPLC) System	a) Pressure range upto 11,000 PSI b) Flow range with accuracy limit: 100-4000 µl/min ±0.1% at 1000 µl/min. c) Data collection facilities – Dynamic data processing. d) Temperature range of column compartment with accuracy : 20°C - 50°C, ±0.5°C, e) Range of injection volume with accuracy limit: 1 – 100 µl, ±0.5% f) Name of detectors with their specifications: UV/VIS; ELSD; Fluorescent detector and DAD detector.
7	Computer with accessories and external Hard Disc	Dell 230s Slim Tower Intel® Core™2 Duo Processor E7500. Genuine Window ®7 Home Basic 32 bit (English). 2GB (2X1GB) NECC Dual Channel DDR3 1333 MHz SDRAM Memory. Dell 18.5” Wide Screen Flat Panel LCD Monitor. 320GB SATA 3.0 Gb/s with Native Command Queuing. 16X max SATA DVD+/-RW with Dual Layer Write Capabilities. Intel® GMA X4500 with HP Photo Scanner G series at least 96 bit with 4800 x 9600 dpi resolution and one External hard drive 500GB
8	Pressure plate assembly	Standard make. For measuring soil water retention at -0.5 and -1.5 MPa matric potential
9	Portable soil testing kit	Standard make. For field estimation of soil pH, Ammonium-N, Nitrate-N, electrical conductivity, sulphate-S

		available boron, ODR etc
10	Soil penetrometer	Standard make. CONE PENETROMETER. For measuring soil compaction under field condition
11	Field implements	Spade, soil sampling augers of different types
12	Electroantennogram	Micromanipulator, Type MP-15 Stimulus Controller unit type CS-55 Stimulus applicator Serial data-acquisition interface, type-IDAC-2 EAG and software Glass fiber light source with necessary cables and tubes
13	Automatic Spore Counter	Microbial cell and particle counting Accessories such as including data processing and image analyzing system.

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