

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

Tender No. TRA-11th Plan/09-10/T-9

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: 21.12.2009 (8-30 a.m. – 5.00 p.m.)

Date and time of opening tender: 23.12.2009 at 3.00 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**.

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

Sl. No.	NAME OF EQUIPMENT	SPECIFICATIONS
1.	COMPUTER : iMAC Project: "Tea Bioinformatics"	<p>Processor: 3.06GHz Intel Core 2 Duo</p> <p>Cache: 3MB shared L2 cache</p> <p>Front side bus: 1066MHz —</p> <p>Memory: 4GB (two 2GB SO-DIMMs) of 1066MHz DDR3 SDRAM</p> <p>Hard drive: 500GB Serial ATA4; 7200 rpm</p> <p>Optical drive: Slot-loading 8x SuperDrive with 4x double-layer burning (DVD±R DL / DVD ± RW/CD-RW)</p> <p>Display: 21.5-inch (viewable) LED-backlit glossy 16:9 widescreen TFT active-matrix display; 1920 by 1080 pixels; millions of colours; IPS technology</p> <p>Video: Built-in iSight camera</p> <p>Graphics: NVIDIA GeForce 9400M with 256MB of DDR3 SDRAM shared with main memory3</p> <p>FireWire: One FireWire 800 port; 7 watts</p> <p>USB: Four USB 2.0 ports</p> <p>SD Card: SD card slot</p> <p>Audio: Built-in stereo speakers with two internal 17-watt high-efficiency amplifiers, built-in microphone, optical digital audio output/headphone out, optical digital audio input/audio line in</p> <p>Ethernet: Built-in 10/100/1000BASE-T (Gigabit)</p> <p>Wireless: Built-in AirPort Extreme 802.11n Wi-Fi wireless networking2</p> <p>Included accessories : Apple Wireless Keyboard and Magic Mouse</p>

		Other: Built-in IR receiver Software: iWork, Aperture, Logic Express, Final Cut Express
2.	Tableting Machine Complete Set	Including following machine: 1. Vibro Shifter 2. Mixer (RMG) 3. Fluid Bed Dryer (FBD) 4. Blander (Hexagonal) 5. Tablet Press Machine
3.	Extractor for Tea Liquor	Including following machine: 1. Tea Liquor Shocking 2. Coarse filtration unit for liquor filtration 3. Manufacturing vessel 4. Zero hold up filter press 5. Interconnecting pipeline 6. Transfer pumps 7. Integrated control panel 8. Working platform Complete plant with electric machine.
4	Centritherm Evaporator / Concentrator	Capacity above 5 ltrs. Temperature starting from below ambient.
5	High volume Refrigerated Centrifuge	Capacity 4 to 5 ltrs of sample Tube holding capacity.
6	Soil core sampler (full set) of different sizes with accessories)	Standard (Supplier Eijkelkemp) with 100 nos steel core (100 cc volume capacity)
7	Permeameter field kit (With accessories)	Standard as available
8	Aggregate analyser with accessories	Standard (Daiki Rika Kogyo Co. Ltd Tokyo, Japan)
9	Penetrometer	Standard as available (cone type)
10	Pressure plate apparatus	For soil moisture tension curve (0.1 bar to 15 bar) Soil moisture equip, Santa Barbara, Calif. USA
11	Portable kit for measuring pH, EC, ODR	Standard as available
12	Liquid handling device	Micropipette (50 to 1000 micro litre cap.). Dispenser (25 and 50 ml capacity)
13	Mili Q system	Standard as available(Fe free)