

QUOTATION NOTICE

Principal, ASPEE College of Horticulture & Forestry, Navsari Agricultural University, Navsari - 396450, College of Forestry is inviting quotations in sealed cover for supply of (1) Wax Melter (Honeybee wax, Suitable for laboratory Scale) (2) Artificial Insemination kit for honeybees (3) Bird Expeller pro (Make Bird - x, inc.) (4) Ultrason X (Make Bird - X, inc.) (5) Super Quad Blaster (Make Bird - x, inc.) (6) Mantax Blue Caliper (7) Abney's Level (Sokkia Abney's level with 5x Magnification) (8) Borer Starter (Haglof Increment Borer starter) (9) NDVI meter (10) Sap flow meter (11) Water Potential Meter (Plant) (12) Air sampler (monitoring Gaseous Pollutants) rate op per piece base. The quotations in sealed cover are invited by post/courier. Separate quotations should be sent for each of the above items, super scribing the cover with the name of the item and "**Quotation for College of Forestry**". The Last date for receiving quotations is 10/08/2015. Specifications of Instruments are available on www.nau.in. For further quarries contact on Mo. 96625 32811.

**SPECIFICATIONS FOR ADVERTISEMENT IN
DIVYA BHASKAR NEWS PAPER DATED -21.7.2015**

Sr. No.	Name of instrument	Specification	Remark
1.	Wax Melter	Suitable for laboratory scale. With complete wax filtration system which will contain, wax melting tank having water jacketed for wax melting, wax handling pump, wax filter 25 (Stainless Steel Body), wax sheet tank (Stainless Steel) ó heated by electricity & heating control by thermostat.	--
2.	Artificial Insemination kit	Artificial insemination kit for honey bees. (Schley Instrument)	--
3.	Bird Expeller Pro	Make Bird-X, Inc.	--
4.	Ultrason X	Make Bird-X, Inc.	--
5.	Super Quad Blaster	Make Bird-X, Inc.	--
6.	Mantax Blue Caliper	Size ó 80 cm, Material Scale ó Alloy coated aluminium, non-reflective, Material Handle ó Armoured glass fiber poly carbonate plastic, Jaws ó Detachable aluminium and steel	
7.	Abney's Level (Sokkia Abney Level with 5x Magnification)	Graduated ó 0 to ±90, 0 to ±100 on a stationary arc, Vernier reads ó 0 to 10ø Magnification ó 5x. Stadia ratio - 1 to 100, 7-1/2øL. Flat base, brass tube with aluminium arc and carrying case	
8.	Borer Starter (Haglof Increment borer starter)	Metal made with folding chest plate	
9.	NDVI meter	Measurement of reflectance and ambient of plant leaves, turf grass canopy samples with point and shoot technology with following specifications. Specifications: Measurement wave length: 660 nm and 850 nm Distance from lens: 12 inches minimum and 72 inches for accuracy Receptor: (4) photoiodes; (2) for ambient and (2) for reflected light from the sample. Measurement unit: NDVI on a scale of -1 to 1 Measurement interval: 2 seconds per measurement Repeatability: ±5% of reading Measurement capacity: Approximately 3000 measurements and non-volatile Battery life: 2 AAA batteries Including carrying case, USB cable and adapter	This instrument is essential for assessing salinity stress and nutrient status on crop better than visual monitoring system. Can compute Normalized Difference Vegetative Index (NDVI) and can be record quick unbiased results. Not available in the forestry college.
10.	Sap flow meter	Principal of Management: Heat Ratio Method (HRM) Specifications: Measurement Output: Raw Temperatures: 0°C, Heat Pulse Velocity: 60cm ³ m ² hr ⁻¹ , Sap Velocity: cm ³ cm ² hr ⁻¹ , Sap Flow: Litres hr ⁻¹ Measurement Range: -10 to +60cm ³ cm ² per hour,	This instrument is required for measurement of low & zero sap flow rates; Reserves sap flow rates; Night time

		<p>Accuracy: > 0.5 cm³ cm² hr⁻¹; Response time upto 120 seconds; Data computer interface: USB / Wireless RF / GSM modem; Data Storage: 4GB MicroSD Card and expandable upto 16 GB; Heat Pulse: Adjustable from 15 joules to 35 joules; Internal Battery: Lithium Polymer Battery; Charging Voltage: 12 Volt DC; Probe length not less than 35mm; Probe diameter not less than 1.3mm; Data file format should be comma separated values (CSV) format; Operative Temperature: -40°C to +80°C; Operative R/H Range: 0 to 100%; Software should be compactable with windows 7 with standard accessories.</p> <p>Optional item: Power Supply from Mains to Logger 110/240V cable, Multi Converter & data retrieval system (4GB RAM 1TB HDD & Windows 7).</p>	<p>water loss; Radial sap velocity profiles of woody trees and stems including Sap flow of vines. Not available in the department/college.</p>
11.	Water Potential Meter (Plant)	<p>Principal of Management: Psychrometric (Wet Bulb) Depression by Temperature Gradient</p> <p>Specifications: Measurement Output: Chamber Temperatures: 0°C, dT in μ volt, Wet Bulb Depression in μ volt, Corrected Water Potential in Mega Pascal; Measurement Range: -0.05 MPa to -10 MPa, Accuracy: > +/- 0.1 Mpa (1Bar); Response time upto 60 seconds; Data computer interface: USB / Wireless RF / GSM modem; Data Storage: MicroSD Card with 4GB and expandable upto 16 GB; Resolution: not less than 0.01 Mpa (0.1 Bar); Internal Battery: Lithium Polymer Battery; Charging Voltage: 12 Volt DC; Chamber depth: not less than 30mm; Chamber diameter: not less than 25mm; Data file format should be comma separated values (CSV) format; Operative Temperature: -10°C to +50°C; Operative R/H Range: 0 to 99%; Software should be compactable with windows 7 and User Manual with standard accessories</p> <p>Optional item: Power Supply from Mains to Logger 110/240V cable, Multi Converter & data retrieval system (4GB RAM 1TB HDD & Windows 7).</p>	<p>This instrument is essential for continuous <i>in situ</i> measurement of stem and leaf water potential to study the different studies like biotic and abiotic stress. There is no such facility available in the department or college.</p>
12.	Air sampler	<p>For monitoring Gaseous Pollutants like SO₂, NO₂, Cl₂, H₂S, O₃, NH₃ etc.</p> <p>Component of sampling train like suction pump, flow meter, time recorder and timer for auto start / stop sampling. Sampling time: 24 hrs or more</p> <p>Flow rate: 0.3 -2.0 lpm. Silica-gel filters should be provided to remove particulates & moisture in sampling train. Number of impinger: 4 clear/amber impinge for keeping absorbing reagent. Instrument should capable of outdoor sampling (ambient air sampling). Should run on Indian standard domestic electricity power supply.</p>	--

ASPEE College of Horticulture and Forestry
NAU, Navsari

: TERMS AND CONDITIONS:

1. Sealed quotations are invited in the prescribed filled up form reputed reliable, experience and registered company or supplier of scheduled item(s).
2. The envelop should be super-scribed as **Quotations for College of Forestry** at the top of the cover.
3. The quotation document should be reach to the office of Principal, ASPEE College of Horticulture and Forestry, NAU, Navsari -396450 (Gujarat) positively to our office hours on or before 10th August, 2015.
4. The quoted price should be in **Indian Rupees only** inclusive of all taxes including VAT and FOR delivery at the College.
5. Certificate of exemption of customs duty/excise duty will be supplied if required.
6. The name of specific model of the equipment, name of manufacturer and date of release of the product must be mentioned at the top of the form. The product should preferably of ISO, BIS, NSIC or equivalent Process Certificate for manufacturing wherever applicable.
7. Comprehensive onsite warranty for 1 year or more from the date of installation of the items. Please clearly mention the parts, which are not covered under warranty, separately.
8. The payment will be released only after complete supply and successful installation of equipment.