

GAUHATI UNIVERSITY
Gopinath Bordoloi Nagar, Guwahati-14
Notice Inviting Quotations

NIQ NO: GUIST/SB/DBT-TWIN/2017- T001

Date: 25/04/2017

Sealed quotations from reputed vendors, dealers and suppliers are invited to supply, installations etc for the following items for the Department of Bioengineering and Technology, Gauhati University for the DBT twinning Project entitled “**Integrated approach to understand agarwood formation and value addition of agarwood (*Aquilaria malaccensis*)**” The last date of submitting the quotations to the undersigned is 10th May, 2017. The sealed quotations are to be submitted in the Department of Bioengineering and Technology, Gauhati University on all working days till the last date during 10 am to 4 pm. Sealed quotations are to accompany earnest money (DD in favour of Registrar, GU) amounting to 2% of the total quoted value.

Rates must be shown in following order:

Sl No	Item	Detail Specification	Unit Price	Tax	Price with Tax

Date of opening of quotation will be notified on the last date of submission. Representatives of the agencies may attend the Quotation Opening Meeting.

The GU reserves the right to modify/cancel the requirements.

All terms and conditions will be as per Gauhati University rules, regulations and decisions.

Laboratory Items:

Sl.	Items	Specification
1.	REAL TIME PCR SYSTEM (Quantity 1 no.)	An automated system for both real-time PCR and post-PCR (end-point) analysis using in-built Peltier based block with full license for PCR process. The system should offer the following specifications: <ul style="list-style-type: none"> • A Peltier based 96x 0.2ml well thermal cycle • Temperature range of 4 °C-100 °C is essential. • Maximum Block ramp rate of 6.5 Deg C/Sec or more. • Reaction volume 10-100 µL and should use Universal thermal cycling conditions. • Standard transparent 96-well plates or individual ltransparent PCR tubes or 8 strip tubes compatibility. • Run time of less than 30 minutes for 40 cycles in Fast Mode • The System should be combined at least 4 coupled excitation and emission filter sets to enable collection of wavelengths during a single run for multiplexing on the 96-well block

		<p>instrument.</p> <ul style="list-style-type: none"> • Dynamic range up to 10 orders of Magnitude. • Three independent Peltier Block to provide Three independent temperature zones to run three different assays with varying annealing temperature at the same time. Each block having the ability to set up PCR with specific temperature differential of up to 5 degree centigrade between blocks and 25 Deg from one end to another. • The instrument should include a heated lid assembly that heats the top half of the sample plates and provides an effective seal to minimize reaction mixture evaporation. • The excitation by White LED light source with a > 5years life span and detection by CCD/sCMOS • System must collect data for all filters for all wells regardless of plate setup. • System should be capable for detection of 10 dyes FAM™/SYBR® Green, VIC®/JOE™/HEX/TET, ABY®/NED™/TAMRA™/Cy3, JUN®, ROX™, Texas Red® dyes on a single plate. • The data collection and instrument control software should provide multicomponenting algorithm for de convolution of multiple dye signal with minimum cross talk. • It should be possible to alter the plate setup after the completion of run. • System should have option like Stand-alone, PC connected, or direct connection to Cloud via LAN or Wi-Fi. The instrument online software allows users to batch analyze up to 500 experiments simultaneously. The instrument should be UL, CE, C-TICK, WEEE, and MIQE compliant • System should be an open platform enabling use of various chemistries without hardware change. • It should be standardized for Taqman-MGB Probe based 5' Nuclease Assay and SYBR Green Chemistry, to be set-up on single plate with seamless switchover during the run. • Pre-validated and functionally tested Taqman Gene Expression Assays as well as Taqman SNP Genotyping Assays should be readily available. • The system should be capable of applications such as Absolute quantitation; Simultaneous analysis of data for relative quantitation for 10 number of plates of 96 wells each; Multiplex-PCR minimum 4 targets, allelic discrimination (SNP), miRNA profiling, Dissociation curve analysis, Copy number variation, Pathogen detection and plus/minus assay using internal positive control. The normalization of reaction due to non-PCR related fluctuations such as pipetting variations should be possible by using ROX™ or any calibrated dye. • The instrument is to be supplied with 3 KVA On-Line UPS System with 2 Hours Battery Back-up using SMF (Sealed Maintenance Free) Batteries including battery rack and interconnecting cables (inclusive of all upto installation)
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2.	DEEP FREEZER (-80 °C) (Vertical Ultra Low Freezer)	<ul style="list-style-type: none"> • Volume: minimum 480 litres and is able to store 2 2mL vials: 32,000 or more • Temperature range: -50°C to -80°C • Control: Microprocessor controlled monitoring system • Internal doors 4 with 4 Inner Compartments. • It should have Auto voltage safeguard & adjustable warm/cold alarms • Insulation: High Density HFC-blown Polyurethane Foam of 127 mm • Alarm System: audible/visual alarm system with battery back-up of temperature deviation, door open, low battery. • Power consumption should be less than 19 KW/day • It should have standard data output system • Warranty: 2 years and 4 years for compressor. • It should meet the quality standards (CE & UL). • Pressure equalization port for reopening of door within a minute. • Optional feature for 21CFR Part 11 Compliance Wireless data monitoring for the freezer temperature with SMS alert facility should be quoted for future up gradation. • The instrument is to be supplied with 5 KVA On-Line UPS System with 2 Hours Battery Back-up using SMF (Sealed Maintenance Free) Batteries including battery rack and interconnecting cables (inclusive of all upto installation)
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1. **Package deal preferred**
2. **Warranty for 2 years to be included in the offer**
3. **AMC for next 3 years to be included in the offer**
4. **Rates should be quoted up to CIF Guwahati for imported items, and up to Gauhati University, Guwahati for others.**
5. **Road permit, custom duty clearance should be taken care by the suppliers, with the DSIR certificates etc may be provided from the University side if required.**

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