



# Nagaland University

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**DBT Sponsored Network R&D Project 'Orchid Bioresources of the North-East India – Conservation, Database Development and Information Networking'**

*Prof. Chitta Ranjan Deb*

*Department of Botany & P. I., DBT Project*

No.: NU/BOT/CRD/DBT-NW2/2016-11

Dated: May 19, 2016

## Short Tender Notice

Short Tender is being invited from the eligible suppliers for procurement of Laboratory Equipments as mentioned below. Interested suppliers may send their lowest rate quotation(s) with detailed specification and terms and conditions in sealed envelope to Prof. Chitta Ranjan Deb, Principal Investigator, DBT Project, Department of Botany, Nagaland University, Lumami 798627, Nagaland on or before June 05, 2016. Rate quotation(s) received after June 05, 2016 will not be considered. Department reserve the right not to select the lowest rate if the model(s) and specifications are found not suitable.

(Chitta Ranjan Deb)  
P.I., DBT Project

Copy to:

1. The Dean, RDC, NU, Lumami for information.
2. To the Head, Department of Botany, NU, Lumami for information and necessary action.
- ✓ 3. The System Administrator, NU, Lumami, with a request to upload in the University website.
4. The Editor, Nagaland Post, Dimapur with a request to publish as an advertisement.
5. Office copy.

*Chitta Ranjan Deb*  
(Chitta Ranjan Deb) 19/5/16  
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Details of Equipments to be procured for the DBT funded project 'Orchid Bioresources of the North-East India – Conservation, Database Development and Information Networking'

Sl. No.	Description of the Equipment	Quantity
1	<b>Global Position System</b> with Camera or without Camera and accessories	1 No.
2	<b>Digital SLR Camera</b> with extra zoom lens (at least 25 mega pixel) with accessories	1 No.
3	<b>Orchidarium: Dimension: 12 m x 8 m (LxW) (96 m<sup>2</sup>)</b> Side height: 2.8 m; Centre height 3.75 m Shape: Arc; Double door room: 2.1 x 2.1 x 2.5 m (LxWxH); Doors: 2 Nos. (1.9 x 0.9 m) Structure made by ZTP-Technology G. I. pipe (38mm x 32 mm) and 25mm GI pipe in combination. Horizontal pipes for hanging orchids Covering: By 75% UV stabilized agroshading net, color: green/black Electrical work: With fire resistant grade copper cable with MCB. Civil work: Structure will be raised on cc blocks (1x1x2ft) Floor: Levelled natural soil. Micro Sprinkler System: Micro sprinkler system will be fitted at 2 m distance & connected to 1000 lits. Tank and mono block pump (1.0 HP).	1 No.
4	<b>Water purification system</b> (additional with 2 storage reservoirs) <b>Specification:</b> Reverse Osmosis, Ultra pure Ion Exchange System with UV Photo-oxidation; Pretreatment system with Activated Carbon Filter, Hardness Stabilizer, Filter Insert, 5µm, 1µm, 0.5µm of 10" cartridge; Micro-processor based table top model with Reverse Osmosis, Ultra pure water System, re-circulation pump to generate ASTM Type II and ASTM Type I quality water for molecular biology applications and HPLC, ICPMS, TOC, etc. RO Permeate Output capacity ~6 ltrs/hr Ultra pure water capacity ~1.0ltr/min Ultra pure water Conductivity 0.055µS/cm TOC value 1 - 5 ppb UV Photo-Oxidation with 185 and 254nm Ultra filtration Module, should be internal and not external Endotoxines < 0.01 EU/ml Integrated tank capacity 6 ltr with vent filter, conical bottom and food grade polyethylene	1 No.
5	<b>Laminar Flow Cabinet/Bio safety Cabinet.</b> Specification: Class II Biosafety Cabinet Type A2 design. Should include a germicidal UV lamp, set of arm rest, an electrical outlet and a support stand provided with leveling bases. Size 4 feet width and the front window must have 8/ 10" sash opening with <b>working surface and drain Pan of stainless steel 304.</b> <b>Motor should be DUAL DC &amp; must automatically adjust the airflow speed (balancing inflow and down flow) without the use of a damper to ensure continuous safe working conditions.</b> The microprocessor based Cabinet should use differential pressure sensor to display the inflow and down flow air velocities in real-time on an LED/LCD display; Should have port for vacuum tubing and cables on the sides; HEPA/ULPA Filter should be 99.995% MPPS (Most Penetrating Particle Size); UV light must be programmable to allow for specific exposure times from 0 to 24 hours. Lightening power should >1100 Lux (100fc); cabinet noise level must be less than 65 dB(A) <b>Cabinet should be NSF (National Sanitation Foundation) certified and certificate of the quoted model should be attached. (NO DEVIATION WILL BE ACCEPTED)</b> Power Consumption in Normal mode :200W ±10% CE certified with Warranty of 3 year and optional extended warranty for 2 years	1 No.
6	<b>Plant Tissue Culture Rack</b> <b>Specification:</b> With photoperiodic simulation caster rack with CFL lights used for Cell & Tissue Culture; fitted with 6 wheels in each rack, separate switch board for each rack. All the racks should be connected to one photoperiod regulator; Size: 6' x 4' with 5 shelves provided with hylem sheet (plane sheet) screw fitted.	5 Nos.

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