



Department of Basic Sciences and Social Sciences
NORTH-EASTERN HILL UNIVERSITY
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Notice Inviting Tender

Sealed quotations are invited from reputed manufacturers/authorized dealers for supply of instruments for the DST-SERB funded project entitled **“Bottom-Up Nanobiocomposite Film of Protein, Polymer and Nanoparticles by Langmuir Blodgett/Layer by Layer Technique for Pesticide Sensing Application”** in the Department of Basic Sciences and Social Sciences, North-Eastern Hill University, Shillong. The instruments along with specifications are listed in the **Annexure-I**. The quotation should reach the undersigned by post on or before the **12 May, 2017 (up to 5:00 pm)**. Quotation received after the due date and time will not be entertained.

The undersigned reserves the right to accept or reject the tender without stating any reason whatsoever.

Terms and Conditions:

1. The supply should be completed within 30 days from the date of issue of supply.
2. The instruments should be delivered and installed without any additional cost.
3. Users list should be attached along with the quotation.
4. The company should provide factory trained engineers for maintenance.
5. Quotation should be inclusive of VAT, CST, transport, installation charge etc.
6. The payment will be completed only after the installation of the instruments. Necessary bank details should be provided along with the triplicate bills.

Sd/-

Dr. MrityunjoyMahato
(Principle Investigator, DST-SERB project)

Copy to:

1. NDVN, NEHU
2. DR (Academic), NEHU
3. Department of BSSS, NEHU

ANNEXURE-I

Table for Instruments and Its Technical Specification

Sl No	Instruments	Specification	Quantity
01	Langmuir-Blodgett System	(A) <u>Regarding Trough, Barrier and Deeper</u>	01
		<input type="checkbox"/> Mini Trough	
		<input type="checkbox"/> Double Barrier	
		<input type="checkbox"/> Trough & Barrier Fully made of High Purity PTFE	
		<input type="checkbox"/> Symmetric Compression	
		<input type="checkbox"/> Inner Working Area: 305 mm (L) X 105 mm (W)	
		<input type="checkbox"/> Outer Trough Dimension: 365 mm (L) X 165 mm (W) X 30 mm	
		<input type="checkbox"/> Deposition Well Dimension: 105 mm (L) X 40 mm (W) X 60 mm (H)	
		<input type="checkbox"/> Trough Volume: 375-400 ml	
		<input type="checkbox"/> Deeper should be able to fit CV electrode for film deposition	
		(B) <u>Control Unit of LB System</u>	
		<input type="checkbox"/> Fully Automatic & PC-controlled	
		<input type="checkbox"/> Sensor Resolution: 0.01 mg	
		<input type="checkbox"/> Surface Pressure Range: up to 80 mN/m	
		<input type="checkbox"/> Surface Pressure Sensitivity: Better than 0.005 mN/m	
		<input type="checkbox"/> Measurement Accuracy: ± 0.1 mN/m	
		<input type="checkbox"/> Dipping, Lifting & Compression Speed: 0.5-250 mm/min	
		<input type="checkbox"/> Dipping, Lifting & Compression Speed Resolution: 0.01 mm/min	
		<input type="checkbox"/> Power: Universal Input	
		(C) <u>LB Chamber Environment</u>	
		<input type="checkbox"/> Fully Transparent	
		<input type="checkbox"/> Three Sided Transparent Acrylic	
		<input type="checkbox"/> Front Sided Openable Glass Door	
		<input type="checkbox"/> Chamber Illumination Provision	
<input type="checkbox"/> Chamber Exhaust Provision			

	<input type="checkbox"/>	Dipping, Lifting & Compression Speed Resolution: 0.01 mm/min	
	<input type="checkbox"/>	Power: Universal Input	
	(D) <u>Software Specification</u>		
	<input type="checkbox"/>	User-friendly Windows® XP, Windows® 7, Windows® 8 & Windows® 8.1 compatible Software	
	<input type="checkbox"/>	Unlimited Deposition Cycles	
	<input type="checkbox"/>	Unlimited Drying & Wetting Time	
	<input type="checkbox"/>	Unlimited Editable Programs	
	<input type="checkbox"/>	Real-time Display of Control Processes in Software	
	<input type="checkbox"/>	Compression Isotherm Recording	
	<input type="checkbox"/>	Pressure Area Isotherm Measurement	
	<input type="checkbox"/>	Surface Pressure vs. Time Measurement at Constant Area	
	<input type="checkbox"/>	Hysteresis Measurement	
	<input type="checkbox"/>	Area vs. Time Measurement at Constant Surface Pressure	
	<input type="checkbox"/>	Mono & Multi-layer Transfer to Solid Substrate	

Address for sending the Quotation:

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