DEPARTMENT OF CHEMICAL ENGINEERING INDIAN INSTITUTE OF TECHNOLOGY - DELHI HAUZ KHAS, NEW DELHI – 110016

Dated: 30th Aug 2012

NOTICE INVITING QUOTATIONS

Sub: Purchase of "LANGMUIR TROUGH"

Sealed quotations in separate envelopes of technical and commercial bid kept in a one sealed outer envelope are invited for purchase of a Langmuir Trough as per specifications given below.

SPECIFICATIONS:

Serial No.	Description	Specification	Unit
110.			
1	Two-in-	Double Barrier	1
	One	Symmetric Compression	
	Langmuir	• Fully Automatic & Computer Controlled	
	Trough as	• Pressure Range: 0-100 mN/m	
	for the	• Film Balance Resolution: 0.005 mN/m	
	above	• Sensistivity: Better than 0.5 mN/m	
	subject	• Accuracy: ±0.1 mN/m	
	instrument	• Dipping & Lifting Speed: 0.5-90 mm/min	
		Barrier Speed: 0.5-150 mm/min	
		• Speed Adjustment: 0.1 mm/min Increments	
		Unlimited Deposition Cycles	
		• Depth of Dipping Area: 60 mm (Maximum)	
		• Working Area: 600 mm X 200 mm	
		• Trough Dimension: 630 mm X 230 mm	
		Trough Material: Total Teflon	
		Barrier Material: Total Teflon	
		Barrier Movement Resolution: 0.01 mm	
		• Dipper Movement Resolution: 0.005 mm	
		• Operating Voltage: 200-230 V; AC (50-60 Hz)	
		Compression Isotherm Recording	
		Pressure Area Isotherm Measurement	
		Surface Pressure vs. Time Measurement at Constant Area	
		Constant Suface Pressure Measurement in the Confind Area	
		Mono & Multi-layer Transfer to Solid Substrates	
2	Aspirator Pu		1
3	Environmen	tal Dust-hood	1
4	Branded PC	compatible with LB-2007DC System	1
5	Micro-syring	ge - 250 µl	2
6		ter Circulation Bath incorporated in Teflon Trough	1
7	Semi-micro l	Balance with Wilhelmy Plate used as Pressure Sensor	1
8	Teflon Brick	s used as sub-phase volume reducer	10
9	WinLB Softs	ware	1
10	Paper Wilhe	lmy Plates (in nos.)	250
11	Fixed 'X' positioning stage on top of the Dust Hood for the Automatic Movement of the		
	Balance with Wilhelmy Plate for Multipoint Surface Pressure Measurement through the		
	appropriate channel on the Dust Hood. The Balance should be moved up to 10 cm bi-		

	directional		
12	Accessories	Align Key Set / Screw Driver Set/Coupling Rubber Tube / Tweezers/ Micro Switch/Magnetic Torpedo Level / Silk Thread / Extension Board Filter Paper / Hook/ Tissue Paper / Inlet-Outlet Pipe	1

Terms and conditions

1. Quotations must be in sealed envelope; technical and commercial bid must be sent separately in two sealed envelopes & then put together in one envelope. The quotes must reach the following address by 21st September 2012, 17:00 hours latest.

Prof. A. N. Bhaskarwar

Department of Chemical Engineering.

Indian Institute of Technology, Delhi

Hauz Khas New Delhi - 110016.

[Kind Attn: Lab II-384]

- 2. Price must be quoted CIF New Delhi.
- 3. Please specify warranty period.
- 4. Indian agency certificate must be enclosed if applicable.
- 5. Propriety certificate might be enclosed if applicable.
- 6. Payment through L/C.
- 7. Validity of quotations should be at least 3 months.
- 8. Period of delivery should be mentioned.
- 9. Educational discount should be mentioned.
- 10. No advance payment will be made.

Remarks: The Institute reserves the right to accept or reject any of quotations without assigning the reason thereof.

Prof A. N. Bhaskarwar

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NOTE-These pages are to be displayed on the IIT-D website.