

INDIAN INSTITUTE OF TECHNOLOGY KANPUR

DEPARTMENT OF CHEMISTRY

DATED: 21/04/2016

Kindly send us urgent sealed quotations for the following items against tender number **IITK/CHM/JKB/16-17/3**. Quotations should be addressed to Prof. Jitendra K. Bera, Chemistry Department, IIT Kanpur, Kanpur - 208016. The last date for receipt of sealed quotations was **09/05/2016**, extended upto 25.5.2016 for submission of quotations.

S. No.	Item	Specifications
1.	Solvent Purification System (Imported)	<ul style="list-style-type: none"> ▪ External Dimensions: 1300 mm (W) x 2032 mm (H) x 1070 mm (D) ▪ System Control: Manual ▪ Operation: Hand Valves Dispense Solvent ▪ Material: Stainless Steel (1.4301 / US 304) ▪ Castors and levelling feet for Easy Mobility: should be included ▪ Manifold: Stainless Steel Piping with Three Way Hand Valve ▪ Work Shelf: Height adjustable Shelving with spill tray ▪ Clamping Posts: should be Included ▪ Vacuum Pump: Oil Free Diaphragm Pump with speed: 20 L/min, vacuum less than 8 mbar. ▪ Solvent Flow Rate: <1,000 ml / Minute ▪ Electrical Power: 230 V / 50-60Hz, 10 Amps, 115V/50-60Hz, 15 Amps for Vacuum Pump ▪ Integrated Safety Cabinet, Fire resistivity type 90, to house 5 solvent reservoirs. ▪ Vapor Removal / Exhaust: Vapor Hood with 4" Connection & Emergency Cut-off Valve ▪ Process: Closed Loop System ▪ Dispensing: From SPS and / or from Glove box system ▪ Inlet Pressure: Inlet Pressure Set Between 4.0 bar and 6.0 bar ▪ Working Pressure: Working Pressure Set between 0.3 bar and 0.5 bar ▪ Purge hose: included type PTFE ▪ Solvent Regulation: Independent Regulator for Each Solvent to adjust flow rate and pressure. ▪ Solvent Line Material: Color Coded Stainless Steel Line (1.4301 / US 304) ▪ Dispensing adapter: Teflon, NS 14/23 ▪ Particle Filtration: Filter Columns Equipped with Pre-Filters ▪ 5 Double Purification stainless steel columns (2 columns per solvent). ▪ Each Column capacity should be at least one gallon. ▪ 800L solvent capacity, before replacement of the double purification column. ▪ 5 Solvent Reservoirs Stainless steel (1.4301 / US 304). ▪ 17L capacity per reservoir. ▪ 5 x 250 ml round bottom collection flask with: ▪ 1 x NS 29/32 connection with ground neck. ▪ 1 x NS 14/23 opening with ground neck and PTFE cut-off cock. ▪ 1 x opening to draw solvents with a syringe, inner Ø 10 mm. with screw

		<p>cap for septum plug; with PTFE cut-off cock.</p> <ul style="list-style-type: none">▪ 1 x NS 14/23 opening with ground neck and PTFE cut-off cock on the bottom.▪ Big openings with DN40 flanges on the columns for an easy load replacement.▪ System should be fully enclosed - purification columns and reservoirs.▪ Integrated vapor collection hood over the solvent dispensing spigots.▪ Proper Grounding of Electro Static Charging and Emergency cut off. <ul style="list-style-type: none">▪ System should follow European Safety Standards.▪ System should be CE and UL certified.▪ Specifications should be supported by original brochures and catalogues.▪ Company should have latest authorization from the principal.▪ Record of sale of at least 20 units to IITs, IISERs and IISc should be included.▪ Local service (Kanpur / Lucknow) should be available.▪ One year warranty from the date of arrival on delivery site.
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