



भारतीय प्रौद्योगिकी संस्थान कानपुर
Indian Institute of Technology Kanpur

ENQUIRY NO. IITK/CHM/MKG/16-17/11

ENQUIRY DATE: 06-02-2017

CLOSING DATE: 23-02-2017

SUB: REQUEST FOR QUOTATION FOR ULTRA LOW TEMPERATURE CIRCULATOR

Dear Sir/Madam,

Kindly send us a sealed quotation (technical and financial) for the following item. Quotation should be addressed to **Dr. Manas K. Ghorai, Department of chemistry, IIT Kanpur, 208016**, and must reach on or before 23th February, 2017.

SPECIFICATIONS FOR ULTRA LOW TEMPERATURE CIRCULATOR

Temperature range	:	- 80 deg C to + 200 deg C
Temperature stability	:	+/-0.05 dg C
Temperature indication	:	Digital LED
Display resolution	:	0.01
Temperature control	:	PID
Multifunction port	:	For external sensor & remote operation
Temperature Control Mode	:	Both Internal & external
Pressure Pump	:	25 LPM / 550 mbar
Suction Pump	:	14 LPM / 350 mbr
Pump Speed Adjustable	:	50 – 100 %
Refrigeration System	:	Air cooled – Dual compressor
Cooling Capacity	:	800 W at -20 Deg C
		400 W at -40 Deg C
		150 W at -80 Deg C

Bath Capacity : 6-8 litres

Additional Features Required

- 1. The unit should be sleek, compact, occupying minimum floor space**
- 2. Should be supplied with caster wheels for easy movement in the Lab**
- 3. Alarm Indication for High Temperature, Low liquid level & refrigeration**
- 4. Low liquid level cut off by means of a float switch**
- 5. At least 3-4 Pre set temperature selection points**
- 6. Auto restart option, once power supply resumes**
- 7. On off timer with real time clock**
- 8. 10 ramp program with edit facility during ramp feature**
- 9. 36 months warranty , from the date of installation**
- 10. 36 months free of cost service support from the date of installation**
- 11. All necessary tubings suitable for the temperature range of the instrument with insulation, connectors etc to be supplied.**

Suppliers offering imported models should have registered with DGS & D and should produce the documentary evidence.

Indigenous manufactures should be NSIC registered company and should attached the certificate with the quotations

All Prices quoted should be FOR IIT Kanpur inclusive of VAT & Delivery charges

Dr. Manas K. Ghorai

SL-208C (Southern Lab)

Department of Chemistry

Indian Institute of Technology Kanpur

Kanpur-208016, U.P.