

Punjab Institute of Technology, GTB Garh (Moga)

(A Constituent College of Maharaja Ranjit Singh Punjab Technical University, Bathinda)

PITGTBG/DIR/18-19/ 631

Date 24-01-2019

To,

Regd.

All Firms,
As per list attached.

Sub: Quotations for purchase of Equipment for Chemistry Lab at PIT, GTB Garh (Moga) (A constitute college of Maharaja Ranjit Singh Punjab Technical University, Bathinda).

Sir/Madam

1. You are requested to quote the rates the items shown in the Appendix 'A' and 'B' Separately attached to this letter.

02. Following shall be taken note of while quoting the rates:-



- a) The rates will be F.O.R PIT, GTB Garh (Moga).
- b) University is registered with the Department of Scientific and Industrial Research (DSIR) vide registration no. TU/V / RG- CDE(1252)/ 2017 Dated 25th January 2017 and therefore, eligible for GST on concessional rate as per above mentioned notification.
- c) Quotation received later than due date are liable to be ignored/rejected.
- d) Quotation must be submitted on letter head of the firm with all particular, any other format will not be acceptable.
- e) The quality of the items to be quoted should be best available in the market.
- f) The enveloped must bear the word:-

"QUOTATION FOR purchase of Chemistry lab equipment's
Enquiry No. As above dated _____
Due on 12 Feb 2019

IMPORTANT :- In the absence of information as required under 2 (f) above, if an envelope is received & opened inadvertently, the university/college will not be responsible and the quotation may not be considered even if quoting lowest rates.

03. The quotations duly completed should be in the name of Director, PIT, GTB Garh (Moga) and should reach the Office of Director, PIT, GTB Garh (Moga) by 12-02-2019 up to 3:00 PM and the same shall be opened at 04:00 PM on same date. Your representative may be present during the opening of the quotations.

04. Proper sealed quotation must be delivered through registered post, no by hand quotation will be accepted.


Director, PIT,
GTB, Garh.


- Cc:-
- 1) Registrar, MRSPTU, Bathinda.
 - 2) Finance Officer, MRSPTU, Bathinda.
 - 3) Store & Purchase, MRSPTU, Bathinda.
 - 4) Incharge, Computer Centre, MRSPTU Bathinda to upload a copy on university website.
 - 5) Incharge, Computer Dept., PIT, GTB Garh to upload a copy on College website.
 - 6) Master File.

Moga-Kotkapura Road, GTB Garh-142049 (Pb)
Ph: +91-1636-280806; Email-pitgtb@yahoo.in

APPENDIX - A

List of General Equipment in Chemistry Lab

Sr. No.	Name of Equipments	Qty.	Remarks
1	Hot air oven	01	Annexure-I
2	Ion exchanger digital (for deionized water)	01	--
3	Hot plate	01	Annexure-II
4	Graduated Temperature with proper calibration for measuring temperature upto 200°C	02	--
5	Magnetic Stirrer	04	Annexure-III
6	Digital Conductivity meter	04	Annexure-IV
7	Digital Weighing balance	02	Annexure-V
8	Iodine chamber	02	--
9	Ball and stick modal kit	01	--
10	Digital Colorimeter	02	Annexure-VI

- Refer annexures for detail specification is annexed herewith.

Annexure -I Hot Air Oven

Specifications :

- Double walled Unit
- Inner chamber made of S.S.304 \
- Outer Chamber of Mild Steel with Powder coating
- Gap Between the two walls filled with glass wool insulation to avoid heat loses of 65 mm
- Heat element made of high grade chrome plated nichrome wire
- Heater placed at the right & left side of the inner chamber
- Enable with thermostat control of Temperature
- Temp. Range 50°c to 250° accuracy +0.2°c
- Air Ventilation palced on top of both sides to remove heat gases and fumes
- control Switch & pilot lamps fitted on front panel
- PID Digital Temp. Controller cum indicator with accuracy + 0.2°
- Air circulation Fan for Uniform Temp

Size :

Inner Size in Inches Watts (W X D X H)	No. of Sheets	Capacity of LTR	Rating
18" X 18 " X 18"	3	90	2000

Annexure - II

Hot Plate

- **Rectangular Body made of thic M.S.**
- **Top Plate with supporting of ceramic beads which ensures air insulation between plate and base unit.**
- **Selection cast iron M.S. casting plate**
- **Maximum surface temperature 400 c.**
- **Temperature controlled by controller manually**
- **Long last nicchrome Elements**
- **Work on 230 Volts A. / C only.**

Annexure - IV

Digital conductivity meter

Measuring unit comprising MHO in range of 01 $\mu\Omega$ to 200 m Ω in six ranges including 200 m Ω , 20 m Ω , 2 m Ω , 200 $\mu\Omega$, 20 $\mu\Omega$, 2 $\mu\Omega$. Further, these feature accuracy of $\pm 1\% \pm$ last 2 digits and come in ABS body finish so as to provide for longer service life standards. With instant warning period, should deliver standard conductance of 1.000 m Ω with stirrer speed of 200 RPM (fixed).

Features:

- Unit of meas: MHO
- Range : 01 $\mu\Omega$ to 200 m Ω in Six ranges
- Six ranges : 200m Ω , 20 m Ω , 2 m Ω , 200 $\mu\Omega$, 20 $\mu\Omega$, 2 $\mu\Omega$.
- Accuracy : $\pm 1\% \pm$ last 2 digits
- Power required : 230 V AC $\pm 10\%$, 50 Hz, 5 VA or 9 V battery
- Weight : 1 Kg. (Approx.)
- Body: ABS
- Auto calibrated
- Warming Period: Instant
- Dimension : - 80 mm (H) 235 mm (W) 150 mm (L)
- Standard conductance : Conductance of 1.000 m Ω
- Electrode : Cell K = 1 - PVC sleeved
- Stirrer speed : 200 RPM set, Screwdriver and Dust proof cover

Annexure - III

MAGENITIC STIRRER

1. Body made by mild steel powder coated or complete stainless steel
2. Top plate made by stainless steel
3. Heating range 5*c degree to 400*c degree
4. Capacity 2 & 5 liter
5. volts 230 watts 1 kw
6. Temperature controlled with energy regulator
7. The motor with high low speed controller

Annexure-V

Digital Weighing Balance

- Pan size of 200x270 mm and capacity of 500 g.
- High resolution up to 30,000 counts.
- Easy to read High bright red LED display.
- Built in rechargeable battery for continues use.
- Rust proof of stainless steel platter.
- Fast Weighing response time.
- Overload protection Design.
- Auto Power Off, Battery Indicator.
- Measurement must up to milligram level.

Annexure-VI

Specification of Digital Colorimeter

Model No.	BST/PCM/1312
Wave Length Range	400 to 700nm
Resolution	1% T, 0.01 Abs., 1 Conc., 1 K Factor
% Transmission	0 - 100% T
Absorbance	0 - 1.99 A
Concentration	0- 19999
K Factor	1 - 19999
Photo Detector	Silicon Photodiode/Photo Cell
Display	16x2 line alphanumeric LCD display with backlit for %T, Abs., Conc., K Factor
Keyboard	8 Keys, soft touch membrane type
Data Storage	Upto 100 samples
Light Source	6.8V, 0.3Amp. Tungsten Lamp
Sample System	10 mm path length matched glass test tubes
Filters	420, 440, 490, 520, 540, 570, 600, 700nm
Printer Interface	Centronics Parallel Printer interface for any dot matrix printer
Weight	2.5 Kg. (Approx.)
Power Supply	230V AC+10% 50Hz. with in-built stabilizer
Accessories	Matched Test Tube Set of 5, Operation Manual, Dust Cover, Spare Lamp

List of Firms for General Equipment's

Firm No. 1	Firm No. 2	Firm No. 3	Firm No. 4	Firm No. 5	Firm No. 6	Firm No. 7	Firm No. 8	Firm No. 9	Firm No. 10
Innovative Engg. 179, Bengali Mohalla, Ambala Cantt, Haryana 8708634395 email: innovativeengineers17@gmail.com	New India Scientific, 25 Agrasen Nagar, Ambala Cantt, Haryana 08708892860 email: newindiascientific17@gmail.com	Savraj Traders, 645/1 Twakli More, Patiala, Punjab 9988096898 email: savraj.traders@gmail.com	Laboratory Instruments Co. Shiv Niwas, opposite Punjabi Mohalla, P.O cross Road no. 1, Ambala Cantt, Haryana 9896807288 jollylalita@yahoo.co.in	Arihant International, 35, Industrial Area, Block A, New Rishi Nagar, Hambran, Distt. Ludhiana, Punjab 9023804600 email: sales@titusind.com	Satish Brothers, 4309/20, Marble House, Punjabi Mohalla, Ambala Cantt 1712642617, 9416020617 email: info@sibaindia.com, info@satishbrothers.com	M/s Kriday Scientific Solutions, #95, Gandhi Nagar, Behind BD Floor Mill, Ambala Cantt, Haryana	Kapur Scientific Traders, Timber Market Ambala Cantt., Haryana 9896123032 email: sales@kapurscientific.com	Everest Scissors, 9238/5, Multani Dhanda Pharaganj, New Delhi-11055 9711197771 Manjumahajanl@gmail.com	Hindustan Apparatus MGF Co. 114 Favourite Industrial estate. Halav Poll, Masrani Lane, Kurla west, Mumbai-400070 Hamco17@yahoo.com 09892063369