

INDIAN INSTITUTE OF TECHNOLOGY KANPUR
IIT Post office, Kanpur 208016, U.P
Department of Physics

Dr. Soumik Mukhopadhyay
Department of Physics
I.I.T. Kanpur
Kanpur 208016, U.P.
e-mail: soumikm@iitk.ac.in

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Enquiry no.: PHY/MSC LAB/2013-14/EQP/1

Enquiry date: 30.08.2013

Closing date: 12.09.2013

Sealed quotations should reach the undersigned latest by 4.00 pm on **12th September, 2013** for complete experimental setup of following experiments:

S.N	Complete experimental setup	Qty.	Remark
1	Bragg's diffraction with microwave complete setup	02	Details given below
2	Characteristics of Klystron complete setup (in X-band)	02	-do-
3	Study of gunn oscillator complete setup (in X-band)	02	-do-

Quotation must contains the price of individual items.

One complete setup of Bragg's diffraction with microwave in X-band consist of following items:

- 1.Klystron power supply, (1 No.)
- 2.Klystron mount (1 No.)
- 3.Klystron tube 2K25 (2 No.)
- 4.Variable attenuator (1 No.)
- 5.Pyramidal waveguide horn (2 No.)
- 6.Detector mount (1 No.)
- 7.Diffraction spectrometer (mechanical turn table with crystal structure made of small steel balls) (1 No.)
- 8.Wave guide stands (2 No.)
- 9.Cooling fans (1 No.)
- 10.Direct reading frequency meter (1 No.)
- 11.Isolator (1 No.)
- 12.Co axial wave guide adaptor (1 No.)
- 13.Coaxial cable N-N (1 No.)
- 14.VSWR meter (1 No.)

2. One complete setup of Characteristics of Klystron (in X-band) consist of following items:

- 1.Klystron power supply (1 No.)
- 2.Klystron mount (1 No.)
- 3.Klystron tube 2K25 (2 No.)
- 4.Isolator (1 No.)
- 5.Frequency meter, Direct reading type (1 No.)
- 6.Variable attenuator (1 No.)
- 7.Slotted section (1 No.)
- 8.Tunable probe (1 No.)
- 9.Detector mount (1 No.)

- 10.Movable short (1 No.)
- 11.Matched termination (1 No.)
- 12.VSWR meter solid state (1 No.)
- 13.Wave guide stands (4 No.)
- 14.Slide screw tuner (1 No.)
- 15.Cooling fan (1 No.)
- 16.BNC – BNC cable (1 No.)
- 17.BNC- open cable (1 No.)
- 18.Fixed short (1 No.)

3. One complete setup of Gunn oscillator (in X-band) consist of following items:

- 1.Gunn power supply (0-10V,750mA max.900-1100Hz, (1 No.)
- 2.Gunn oscillator 8.5-11.5GHz, 50mW (2 No.)
- 3.Pin Modulator (2 No.)
- 4.Isolator (1 No.)
- 5.Frequency meter, Direct reading type (1 No.)
- 6.Variable attenuator (1 No.)
- 7.Slotted section (1 No.)
- 8.Tunable probe (1 No.)
- 9.Detector mount (1 No.)
- 10.Movable short (1 No.)
- 11.Matched termination (1 No.)
- 12.VSWR meter solid state (1 No.)
- 13.Wave guide stands (4 No.)
- 14.Slide screw tuner (1 No.)
- 15.Cooling fan (1 No.)
- 16.BNC – BNC cable (1 No.)
- 17.BNC- open cable (1 No.)
- 18.Fixed short (1 No.)
- 19.Rotary vane wave guide type
- 20.Smith chart of 100 pcs

Terms and conditions:

- Quotations should have a validity of a minimum of 60 days.
- All the equipment should be provided with a replacement warranty of 1 year against manufacturing defects.
- All the parts should be replaced free of cost in case of any damage in transit / deviation from specifications.
- Maximum possible educational discount should be specified on the quotation since all are for teaching purposes.
- Quotations are required in a sealed envelope with enquiry number mentioned on the envelope.
- Quantity of items may vary (increase/decrease) in order
- The delivery period should be within 60 days of placing the purchase order.
- The rate offered should be F.O.R Kanpur for firms located outside Kanpur and free delivery at the Institute premises for local firms.
- Institute is exempted from payment of E. Duty under notification no.10/97
- Institute is entitled to avail concession rate of sales tax as admissible under Sub-sec 5 of Sec 8 C.S.T Act 1956 applicable to Educational/Research institution in inter-state purchase.