



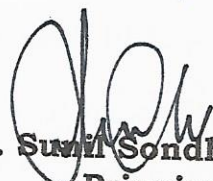
MAHARAJA AGRASEN COLLEGE

University of Delhi
VASUNDHARA ENCLAVE, DELHI-110096

22.03.2016

NOTICE

1. Sealed quotations are invited for purchase of apparatus/instruments for Physics Lab as per detailed technical specification mentioned herein as Annexure-I in the college premises at Vasundhra Enclave.
2. Vendors are required to send their quotations in 2 separate envelopes marked as "Technical" and "Financial". Both the envelopes should be sealed and placed in a larger sealed envelope and marked as College Quotation.
3. The financial Bid shall be opened only if the Technical Bid is found satisfactory by the relevant committee.
4. All the goods purchased must have an on-site warranty of one year.
5. The vendors/suppliers of the goods must have an annual turnover of at least one crore in the last financial year.
6. The vendors/suppliers of the goods must have orders of at least 10 educational institutions on last two years preferably of colleges affiliated to University of Delhi.
7. All vendors/suppliers of the goods must have executed one order of at least 25 lakhs to any educational institution in last one year
8. Those vendors/suppliers who can provide on-site assistance of repairs after the completion of Warranty period will be preferred.
9. The quotation complete in all respects should reach the college by 11th April, 2016.


Dr. Sunil Sondhi
Principal

Technical Specification of apparatus/instruments to be procured in Physics Lab

SNo	Name of the Apparatus	Technical Specification
1	Function Generator	10 MHz function generator with sine, square triangle, ramp pulse, TTL & DC Modulation of any signal by AM , FM, PWM PAM and internal sweep Direct display of amplitude Single push for selection functions Variable pulse duty cycle adjustment High signal purity and constant amplitude flatness through out the entire range Auto ranging 40 MHz Frequency Counter 50 mV rms sensitivity . Internal Modulation Generator Backlit LCD for display of frequency , mode, amplitude Etc.
2	Power Supply	0 to 30 Volt Regulated Power supply(1 & 2 Amp), Voltage and current display Digital meters. Over load indication protection Current /voltage adjustment switches. Line fuse & fuse blown indication
3	e/ m Apparatus	Complete set up with electron gun and Helmholtz coil. 3A power supply with ripple factor < 1% Accelerating potential of 150-300 V Ammeter 0-2 A and voltmeter 0-300V range
4	Ballistic Galvanometer	Suspension Wire : Phosphor Bronze Reflector : Concave Mirror Coil Resistance : 100Ω Lamp & Scale Lamp : Light Source Scale : 30-0-30cm Ballistic Galvanometer Power Supply Supply Voltage : 6V DC Potentiometer : 5kΩ Mains Supply : 90-275V, 50Hz Fuse : 0.5A Optional Resistance Period Sensitivity of coil 100 ohms 10-12 sec. 180 mm
5	Decade Resistance Box	Decade ranges from 0 to 11110W with a resolution of 1W. Rotary switch decade selector

		Tapping points provided across each range to allow the unit to be used as an accurate potential divider. Resistance values + 2% with a rating of 0.25 W maximum per range.
6	Decade Capacitance Box	5% Capacitance substitution from 100pF to 11.111 μ F Four to six Decade Ranges of Capacitance Capacitor rated to 50VDC 50pF internal zero capacitance
7	Decade Inductance Box	5% Inductance substitution from 10 μ H to 111.1mH Four to six Decade Ranges of Inductance
8	Fractional resistance Resistance Box	0.01-50 ohm range Resistances made of Manganin coils
9	Resistance Box	1-10000 ohm range Resistances made of Manganin coils


 CDo: Palthasasathi