

NAAC Accredited Institution-'B' grade (CGPA=2.63) (दिल्ली विश्वविद्यालय) (UNIVERSITY OF DELHI)



सेक्टर- 3. द्वारका., Sector-3, Dwarka, नई दिल्सी New Delhi – 110078 दुरआष/TEL. 011-25099380. 25099381, फैक्स/FAX-011-25099380, Website: www.dducollegedu.ac.in

Ref:DDUC/2016-2017/207/-2082

Dated: 04/03/2017

M/s	

Subject: Quotation for purchase of Physics equipment.

Dear Sir,

Quotations are invited in two bid system (Technical and Financial) for supply of Physics equipment (List Enclosed) latest by 20/3/2017 11:30 AM.

The Technical Bid & Financial Bids should be sending in <u>separate sealed</u> envelopes and duly marked on top as Technical Bid/Financial Bid.

Both the bids should be further enclosed in an envelope super scribed <u>"Quotation for Physics equipment"</u> and addressed to "The Principal, Deen Dayal Upadhyaya College, Sector-3, Dwarka, New Delhi-110078". The same should be submitted with the Section Officer (Admin), Room No. 20 (GF).

Terms & Conditions:

- 1. All prices are F.O.R. Deen Dayal Upadhyaya College.
- 2. Delivery should be made in the college premises within 7 days from the date of receipt of the order.
- 3. Sales Tax/VAT if any, applicable should be mentioned separately.
- 4. At least one year Guarantee or Warranty conditions must be clearly specified.
- 5. The Quantity of items can be increased or decreased at the sole discretion of the college
- 6. The technical bid must contain detailed specification, Make, Model, and other relevant information and literature about the items quoted.
- 7. The vendor must submit Earnest Money Deposit (EMD), alongwith Technical Bid, in the form of DD for a sum of Rs. 10,000/- in favor of Principal, Deen Dayal Upadhyaya College. The non-submission of EMD will lead to the rejection of the bid. The EMD of unsuccessful bidders will be returned to them within Three (3) months of selection of vendors. The successful bid, if withdrawn or fails to supply items within stipulated time, is liable for forfeiture of the EMD.

Syarg



दीन दयाल उपाध्याय कॉलेज DEEN DAYAL UPADHYAYA COLLEGE NAAC Accredited Institution-'B' grade (CGPA=2.63) (दिल्ली विश्वविदयालय) (UNIVERSITY OF DELHI)



सेक्टर- 3, द्वारका, . Sector-3. Dwarka, नई दिल्ली New Delhi – 110078 द्रमाष/TEL 011-25099380, 25099381, फेक्स/FAX-011-25099380, Website: www.dducollegedu.ac.in

- The Technical Bid will be opened on 20/3/2017 at 1:00 PM in the Committee Room (Ground Floor) of the college. The bidders may be asked to bring the specimen of their goods for technical approval.
- 9. The Financial Bids of only those vendors will be opened whose technical specifications will be approved by the Technical Committee.
- Special discounts/ rebates, wherever applicable, keeping in view that the supplies are being made to an educational institution, must be indicated clearly.
- 11. Vendor has to supply the goods by 30/3/2017 positively failing which the EMD will be forfeited.
- 12. Articles which fail to satisfy the inspection/tests or does not conform to prescribed specification will be rejected and shall not be accepted and or to be removed/taken by the vendors at his own cost and responsibility.
- The undersigned reserves the right to accept or reject, wholly or partly, any or all quotations without assigning any reason.
- 14. The Technical Committee, may at its discretion, waive any minor non conformity or any minor irregularity in an offer. This shall be binding on all vendors and the undersigned reserves the right for such waivers.
- 15. The payment will be made to the vendor after satisfactory completion of delivery duly certified by the competent Technical Committee.
- 16. The payment will be made through RTGS.

Encl: as above.





Page 3 of 8

Shart

NAAC Accredited Institution-'B' grade (CGPA=2.63)

(दिल्ली विश्वविद्यालय) (UNIVERSITY OF DELHI)

सेक्टर- 3, द्वारका, , Sector-3, Dwarka, नई दिल्ली New Delhi – 110078

दूरभाष/TEL. 011-25099380, 25099381, फैक्स/FAX-011-25099380, Website: www.dducollegedu.ac.in

List of Equipments

S.No	Name of Item	Qty.
1	Set Up for determination of resistivity by Four Probe Method	02
ender	Description of the experimental setup	
sr.No.	1. All Four Probes should be spring loaded, collinear, equal spaced and	
1	be mounted on Teflon bush. This arrangement is to be mounted on a	
	suitable stand and leads are provided for the voltage and current	
	measurement.	
	2. Germanium crystal(pure/doped) in the form of a chip (approx. 1cm x	
	0.8 cm x 0.2 cm) should be provided as a sample (one extra Chip is	
	required)	1
	3. Temperature range of Oven should be from 0 to at least 200°C (
	with over heating protection optional)	
	4. Multirange Digital Voltmeter	
	Range: X1 (0-200mV) & X10 (0-2V)	
	Resolution: 100mV at X1 range	
	Accuracy: $\pm 0.1\%$ of reading ± 1 digit	
	Stability: Within ± 1 digit	
	Input Impedance: not less than 1 Mohm	
	Display:31/2 digit, 7 segment LED with auto polarity and decimal	
	indication Overload Indicator should be present	
	5. Constant Current Generator. : The current supply must be highly	
	regulated and should have digital panel meters.	
	Open Circuit Voltage: 18V	
	Current Range 0-20mA	
	Resolution 10mA	
	Accuracy $\pm 0.25\%$ or ± 1 digit or better	
	Stability Within ±1 digit	
	Load regulation 0.03% for 0 to full load	
	Line regulation 0.05% for 10% change	
	6. Oven power supply should be provided with on-off LED indicator	
2.	Ballastic Galvanometer	
ender	The coil should be suspended by phosphor bronze strip and is fitted with an	10
sr.No.	optically true concave mirror of 50 cm focus.	
4	It should have clamp and free arrangement	
	It should have leveling screws and spirit level for balancing the coil	
	Galvanometer Resistance – approx. 115 ohm	
	CDR: approx. 2000 ohm to 3000 ohm	
	Sensitivity not less than 250mm per micro coulomb at one meter distance.	
	Periodic Time : approx. 12 to 14 seconds	
	It consist of Translucent plastic scale fitted in frame, Length 50 cms, division	

भारत

एक कटम म्यच्यत्ना की भोग



NAAC Accredited Institution-'B' grade (CGPA=2.63) (दिल्ली विश्वविद्यालय) (UNIVERSITY OF DELHI)



सेक्टर- 3, ट्रास्का, , Sector-3, Dwarka, नई दिल्ली New Delhi – 110078

दूरभाष/TEL. 011-25099380, 25099381, फैक्स/FAX-011-25099380, Website: www.dducollegedu.ac.in

	25.0.25 10.50 TI	1	
		cale is mounted on a stand and its height can be	
	a Step down transformer.	s fitted with a lamp operated on Mains through $220 \text{ V} + 10\%(50 \text{ Hz})$	
3.	Millikan Oil Drop Method Setu		01
J. Tender	1. A oil drop chamber should have a pair of horizontal parallel plate electrodes		01
sr.No.	separated by approx. 5 mm thick ebonite ring with a hole for viewing the oil droplets.		
6		ay the oil droplets from hole present in the	
		ent to illuminate the space between the parallel	
	plate electrodes.		
	-	crews at the base in order to make the parallel	
	-	nd a water-level placed on top of the panel is	
	essential to verify it.		
	3. A microscope with CCD camera (good quality) head is required to view and		
	transmit image of oil droplets between		
		variable voltage at least in the range of $0 - 800$	
	grounded.	and the lower plate should be permanently	
		he potential applied to the upper plate as well as	
		isplay the time for which the oil droplet is	
	allowed to move between the plates.		
	6. Further, a timing device with two keys i.e, .'Clear' key, and 'Start/Stop' should		
	be there on the main set up.	5 , 5, 1	
	7. A monitor of good resolution with	graduated screen should be provided.	
		d with procedure, description of apparatus and	
	test readings. Extra bottle of Oil should		
4.	Setup to determine Ionization		3
Tender		ated power supply with two multi-range meters	
sr.No.	for measuring Voltage and current accurately Should be supplied with valve		
7	2d21 (extra 2 valves should be		
-	cost of additional valve should	also be mentioned	20
5.	Reading Telescope with Stand		20
Tender sr.No.	The telescope is fitted on universal clamp which can be moved on Steel pillar fitted on		
8	heavy tripod base with three leveling screws. The diameter of pillar should be approx half inch and length of the pillar should be approx. 2 ft. / 6 ft.		
6.			2
0. Tender	Set Up To determine the comple		2
sr.No.		e Plasmon resonance (SPR) technique/	
17		x of a dielectric using SPR technique	
	TECHNICAL SPECIFICATION	DEFINITION	
	Measuring principle	Surface Plasmon Resonance	
	Excitation wavelength	685 nm, power = 5 mW (p-polarized)	
	Angular resolution	0.01°	
	Motor	Programmable micro-controlled steppe	

भारत

Heles)

एक कटम स्टब्स् की ओग

Page 4 of 8

Shart.



दीन दयाल उपाध्याय कॉलेज DEEN DAYAL UPADHYAYA COLLEGE NAAC Accredited Institution-'B' grade (CGPA=2.63)



(दिल्ली विश्वविद्यालय) (UNIVERSITY OF DELHI)

सेक्टर- 3, ट्टारका, , Sector-3, Dwarka, नई दिल्ली New Delhi – 110078

दूरभाष/TEL. 011-25099380, 25099381, फैक्स/FAX-011-25099380, Website: www.dducollegedu.ac.in

		matar
	Mode of operation	motor
	Mode of operation	Concentric and coplanar movement of
	Rotation direction	sample and detector in user defined steps Both clockwise and anti-clockwise direction
	Rotation direction	(0.01°)
	Power resolution	0.01 mW
	Sensor	Gold coated substrate (3 Nos.), dielectric
	Sensor	coated Au/prism
		(3 Nos.)
	Measurement media	Solid, liquid or gaseous (optional)
	Laser mount	Kinematic mount to align the laser beam
		precisely in horizontal direction with respect
		to prism table and detector
	Detector	Silicon photo detector of high resolution
		(0.01 mW)
	Measuring wavelength range of	
	detector	
	Operating temperature range	5 °C to 55 °C
	Electrical Power requirements	230 V, 50 Hz
		protection of eyes are to be provided, price
	is to quoted separately)	protocilism of eyes are to be provided, price
		to operate both the stepper motors for the
	movement of prism table (sample) and	nd detector to move them in clockwise and
	anticlockwise direction simultaneously in	n synchronized manner.
	 Soft switches are provided on the from the f	ont panel to feed the desired angle of rotation to
	the prism table.	
	2. The entire system should be table top	o and attached to one unit only.
	supply the list of these institutes with	d three systems to the academic institutes and
	4. Complete Manual should be provided	
7.	Set Up to study Electron Spin Re	
Tender		esonance 1 ency oscillator should have frequency range
sr.No.	of approximately 12–16 MHz.	ncy oscillator should have frequency range
21	Phase Shifter :	
	2 50 Hz Sweep Unit :	
		should be be stabilized for ripple free voltage. b)
	Helmholtz Coils Power Supply : power supp	ply should consists of a step down transformer
	(220 to 35 V AC). Variable coil current shou	Id be provided in 10 steps using a band switch. the
	current should be displayed on a 3 1/2 digi	
	4 Helmholtz coils fitted with R.F. Coil: One	e (. No, of turns: 500 in each coil, Diameter of the
	winding: minimum14 cm, Separation of the	
	5 Sample - DPPH (inside R.F. Coil) is 6. complete Manual.	s to be placed in a plastic tube,
	XA	Page 5 of 8
	र्भाभ) (स्वच्छर)	at Artant

क कटम उठछरना की सोव





NAAC Accredited Institution-'B' grade (CGPA=2.63) (दिल्ली विश्वविद्यालय) (UNIVERSITY OF DELHI)

सेक्टर- 3, द्वारका, , Sector-3, Dwarka, नई दिल्ली New Delhi – 110078

दूरभाष/TEL. 011-25099380, 25099381, फैक्स/FAX-011-25099380, Website: www.dducollegedu.ac.in

The setup should be complete in all respect. 8. Set up to study Zeeman Effect Tender 1. High Resolution Fabry Perot Etalon 1 sr.No. 2. Low pressure Mercury Discharge Tube 3. H.V. Power Supply for mercury tube 22 4. Narrow Band Interference Filter, (Central Wave Length 546nm Tmax 74% or better HBW upto 8nm or better) Polarizer with lens. 5. 6. Optical Bench of good quality 7. CCD Camera: (High Resolution CCD Camera) Telescope with Focusing Lens: 8. TV Monitor 14": 9. 10. Electromagnet Field Intensity: 7.5KG at 10mm air-gap with flat pole pieces Pole Pieces: 50mm diameter Energizing Coils : Two, each with a resistance of about 3.0W Power Requirement :0-30Vdc, 4A, if coils are connected in series 11. **Constant Current Power Supply** (Protection against the overload/short-circuit) Current Range: Smoothly adjustable from 0-4A Load Regulation: 0.1% for load variation from 0 to max. Line Regulation: 0.1% for ±10% mains variation Display: 3½ digit, 7 segment LED DPM Power :220V ±10%, 50Hz 12. Digital Gaussmeter Range: 0-2KG & 0-20KG Resolution: 1G at 0-2KG range Accuracy: ±0.5% or better Temperature :Upto 50°C Display :3½ digit, 7 segment LED DPM with auto polarity and over flow indication Power 220V ±10%, 50Hz Hall Probe – InAs Transducer: Special Feature Indicate the direction of the magnetic field A complete manual with test reading is required. The setup should be complete in all respect. 9. Determination of Planck's Constant and Work Function of Materials 2 Tender by Photoelectric Effect sr.No. Photo Sensitive Device : Vacuum photo tube. 1. 28 2. Light source : Halogen tungsten lamp 12V/35W. 3. Colour Filters : 635nm, 570nm, 540nm, 500nm & 460nm. Accelerating Voltage : Regulated Voltage Power Supply, Output: ± 15 V continuously variable through multi-turn pot Display : 3½ digit 7-segment LED Accuracy : ± 0.2% or better Current Detecting Unit : Digital Nano ammeter Range : 1000 mA, 100 mA, 10 mA & 1mA with 100 % over ranging facility Resolution : 1nA at 1 mA range or better

Telest

एक कहार प्रतत्त्वना की ओग

आस

Page 6 of 8





NAAC Accredited Institution-'B' grade (CGPA=2.63)

(दिल्ली विश्वविद्यालय) (UNIVERSITY OF DELHI)

सेक्टर- 3, द्वारका, , Sector-3, Dwarka, नई दिल्ली New Delhi – 110078

द्रभाष/TEL. 011-25099380, 25099381, फैक्स/FAX-011-25099380, Website: www.dducollegedu.ac.in

	Display : 3½ digit 7-segment LED	
	Accuracy : ±0.2% or better	
	6. Power Requirement : 220V ± 10%, 50Hz.	
	7. Optical Bench : The light source can be moved along it to adjust the distance	
	between light source and phototube scale length is 400 mm. A drawtube is provided to	
	install colour filter, a focus lens is fixed in the back end.	-
10.	Set up to find the Inductance of the Coil using Anderson's Bridge	3
Tender	Method	
sr.No.	Set up should consist of the following:	
29	Main Features:	
	R = The Decade resistance dials having range X1000 ohms, X100 ohms and X10 ohms.	
	r= three more decades of same value as in R.	
	S.= Two decade resistance dials having range x10 ohms and 0.1 ohms.	
	P=Q=Two fixed resistances of 1000 ohms each.	
	C=Two fixed standard capacitor. (in micro F) L=Three unknown inductances (in milli H). Inbuilt AC Supply frequency 1KHz, 5Volts D.C.	
	Supply, galvanometer for DC Balance supplied with Head phone for AC/ With one electronic null	
	Detector with sensitivity knob and selection switch marked with A.C. & D.C. both.	
	Additional features optional - having arrangement to connect with CRO to have results- see picture	
	attached herewith.	
	Circuit is engraved and the components are mounted on the top of sun mica bakelite sheet. Patch	
	cord suitable to the terminals are supplied with the board. A complete working manual containing	
	theory circuit details and operating instruction is supplied with the experimental board. With on/off	
	switch with indicating lamp	-
11.	Set up to compare the capacitance using De Sauty's Bridge	3
Tender	Method	
sr.No.	Set-up should consist of the following.	
30	Main Features:	
	R_1 = Three Decade resistance dials having range X1000 ohms, X100 ohms and X10	
	R_1 = Three Decade resistance dials having range X1000 ohms, X100 ohms and X10 ohms.	
	ohms.	
	ohms. R_2 = Three more decades of same value as in R_1	
	ohms. R_2 = Three more decades of same value as in R_1 C_1 = Single decade Capacitance dial range of x 0.1 microfd.	
	ohms. R_2 = Three more decades of same value as in R_1 C_1 = Single decade Capacitance dial range of x 0.1 microfd. C_2 = Four unknown Capacitors fixed on the board. (Optional: should have the	
	ohms. R_2 = Three more decades of same value as in R_1 C_1 = Single decade Capacitance dial range of x 0.1 microfd. C2= Four unknown Capacitors fixed on the board. (Optional: should have the provision on the board that extra Unknown C can be added or removed)	
	ohms. R ₂ = Three more decades of same value as in R ₁ .C ₁ = Single decade Capacitance dial range of x 0.1 microfd. C2= Four unknown Capacitors fixed on the board. (Optional: should have the provision on the board that extra Unknown C can be added or removed) Inbuilt AC Supply frequency 1KHz, 10Volts (peak to peak) D.C. Supply supplied with	
	ohms. R_2 = Three more decades of same value as in R_1 C_1 = Single decade Capacitance dial range of x 0.1 microfd. C2= Four unknown Capacitors fixed on the board. (Optional: should have the provision on the board that extra Unknown C can be added or removed) Inbuilt AC Supply frequency 1KHz, 10Volts (peak to peak) D.C. Supply supplied with Head phone/electronic null detector with sensitivity knob.	
	ohms. R_2 = Three more decades of same value as in R_1 C_1 = Single decade Capacitance dial range of x 0.1 microfd. C2= Four unknown Capacitors fixed on the board. (Optional: should have the provision on the board that extra Unknown C can be added or removed) Inbuilt AC Supply frequency 1KHz, 10Volts (peak to peak) D.C. Supply supplied with Head phone/electronic null detector with sensitivity knob. Circuit is engraved and the components are mounted on the top of sun mica	
	ohms. R_2 = Three more decades of same value as in R_1 C_1 = Single decade Capacitance dial range of x 0.1 microfd. C2= Four unknown Capacitors fixed on the board. (Optional: should have the provision on the board that extra Unknown C can be added or removed) Inbuilt AC Supply frequency 1KHz, 10Volts (peak to peak) D.C. Supply supplied with Head phone/electronic null detector with sensitivity knob. Circuit is engraved and the components are mounted on the top of sun mica bakelite sheet. Patch cord suitable to the terminals are supplied with the board. A	
	ohms. R ₂ = Three more decades of same value as in R ₁ .C ₁ = Single decade Capacitance dial range of x 0.1 microfd. C2= Four unknown Capacitors fixed on the board. (Optional: should have the provision on the board that extra Unknown C can be added or removed) Inbuilt AC Supply frequency 1KHz, 10Volts (peak to peak) D.C. Supply supplied with Head phone/electronic null detector with sensitivity knob. Circuit is engraved and the components are mounted on the top of sun mica bakelite sheet. Patch cord suitable to the terminals are supplied with the board. A complete working manual containing theory circuit details and operating	
	ohms. R_2 = Three more decades of same value as in R_1 C_1 = Single decade Capacitance dial range of x 0.1 microfd. C2= Four unknown Capacitors fixed on the board. (Optional: should have the provision on the board that extra Unknown C can be added or removed) Inbuilt AC Supply frequency 1KHz, 10Volts (peak to peak) D.C. Supply supplied with Head phone/electronic null detector with sensitivity knob. Circuit is engraved and the components are mounted on the top of sun mica bakelite sheet. Patch cord suitable to the terminals are supplied with the board. A complete working manual containing theory circuit details and operating instruction is supplied with the experimental board. With on/off switch with	
	ohms. R_2 = Three more decades of same value as in R_1 C_1 = Single decade Capacitance dial range of x 0.1 microfd. C2= Four unknown Capacitors fixed on the board. (Optional: should have the provision on the board that extra Unknown C can be added or removed) Inbuilt AC Supply frequency 1KHz, 10Volts (peak to peak) D.C. Supply supplied with Head phone/electronic null detector with sensitivity knob. Circuit is engraved and the components are mounted on the top of sun mica bakelite sheet. Patch cord suitable to the terminals are supplied with the board. A complete working manual containing theory circuit details and operating instruction is supplied with the experimental board. With on/off switch with indicating lamp	
	ohms. R_2 = Three more decades of same value as in R_1 C_1 = Single decade Capacitance dial range of x 0.1 microfd. C2= Four unknown Capacitors fixed on the board. (Optional: should have the provision on the board that extra Unknown C can be added or removed) Inbuilt AC Supply frequency 1KHz, 10Volts (peak to peak) D.C. Supply supplied with Head phone/electronic null detector with sensitivity knob. Circuit is engraved and the components are mounted on the top of sun mica bakelite sheet. Patch cord suitable to the terminals are supplied with the board. A complete working manual containing theory circuit details and operating instruction is supplied with the experimental board. With on/off switch with indicating lamp	
12.	ohms. R_2 = Three more decades of same value as in R_1 C_1 = Single decade Capacitance dial range of x 0.1 microfd. C2= Four unknown Capacitors fixed on the board. (Optional: should have the provision on the board that extra Unknown C can be added or removed) Inbuilt AC Supply frequency 1KHz, 10Volts (peak to peak) D.C. Supply supplied with Head phone/electronic null detector with sensitivity knob. Circuit is engraved and the components are mounted on the top of sun mica bakelite sheet. Patch cord suitable to the terminals are supplied with the board. A complete working manual containing theory circuit details and operating instruction is supplied with the experimental board. With on/off switch with indicating lamp . Additional features optional- having arrangement to connect with CRO to have results	3
12. Tender	ohms. R_2 = Three more decades of same value as in R_1 C_1 = Single decade Capacitance dial range of x 0.1 microfd. C2= Four unknown Capacitors fixed on the board. (Optional: should have the provision on the board that extra Unknown C can be added or removed) Inbuilt AC Supply frequency 1KHz, 10Volts (peak to peak) D.C. Supply supplied with Head phone/electronic null detector with sensitivity knob. Circuit is engraved and the components are mounted on the top of sun mica bakelite sheet. Patch cord suitable to the terminals are supplied with the board. A complete working manual containing theory circuit details and operating instruction is supplied with the experimental board. With on/off switch with indicating lamp . Additional features optional- having arrangement to connect with CRO to have results Set up to study Characteristics of Tunnel Diode	3
12. Tender sr.No.	ohms. R_2 = Three more decades of same value as in R_1 C_1 = Single decade Capacitance dial range of x 0.1 microfd. C2= Four unknown Capacitors fixed on the board. (Optional: should have the provision on the board that extra Unknown C can be added or removed) Inbuilt AC Supply frequency 1KHz, 10Volts (peak to peak) D.C. Supply supplied with Head phone/electronic null detector with sensitivity knob. Circuit is engraved and the components are mounted on the top of sun mica bakelite sheet. Patch cord suitable to the terminals are supplied with the board. A complete working manual containing theory circuit details and operating instruction is supplied with the experimental board. With on/off switch with indicating lamp . Additional features optional- having arrangement to connect with CRO to have results	3

भारत

क अटम म्लास्क्रम की भोग

Page 7 of 8

Stand





NAAC Accredited Institution-'B' grade (CGPA=2.63)

(दिल्ली विश्वविद्यालय) (UNIVERSITY OF DELHI)

सेक्टर- 3, द्धारका, , Sector-3, Dwarka, नई दिल्ली New Delhi – 110078

दूरभाष/TEL. 011-25099380, 25099381, फैक्स/FAX-011-25099380, Website: www.dducollegedu.ac.in

13.	Power supply (Triple output)	30
Tender	Input Voltage 230V AC, ±10%, 50Hz, 1 Phase	
sr.No.	Output Voltage and Current 0 to 32V/2A ±12V to ±15V/0.5A 4.50 to	
43	5.50V/5A	
	Line Regulation $\pm 0.1\%$	
	Load Regulation ±0.1%	
	Output Ripple 1mVrms Operating Temp. 0 to 50°C	
	3 Digit Display V & I	
	Display Accuracy ± 3 counts	
	Electrically FloatingOutputs	
	Upto 500V DC w.r.t. Ground	
14.	Benchtop LCRQ-D Bridge -Meter	2
Tender	Variable Measured L, C, R, Q and D	-
sr.No.	Measurement Modes Series or Parallel	
46	Sort Modes Absolute value or nominal value	
	Measurement Frequency Selectable 100 Hz or 1KHz or higher	
	Accuracy $\pm 0.25\%$ of nominal	
	Max Voltage across 0.285Vrms (0.8V p-p)	
	Display 4 digit LED	
	Connecting to Component Under Test	
	4 terminal integral test jig	
	Measurement Range :	
	Inductance 0.1µH to 9999H Cap. range 0.3pF to9999µF Input Impedance	0
	0.001Ω to 100Ω	
	Resolution Inductance : 0.1µH ,Capacitance : 0.1pF ,Resistance : 0.001Ω	
	Quality Factor : 0.01	
	Input protection The input is protected against connection of capacitor of upto	
	10mF charged to not more than 50V	
15.	Microprocessor Kit (8085 Microprocessor)	40
Tender	8085CPU@6.144MHz, 32K EPROM, 8K/32K RAM, Mem expansion-64KB,	
sr.No.	48 I/O Lines & 3 Timer Counters, RS-232-C I/F, Assembler/Dissembler, 50 Pin	
48	FRC connector, 16*2 / 20*2 LCD Display, 104 Keys Kbd, RTC(optional). In	
	Built Regulated Power Supply	

Principal

भारत एक कटम म्वच्छता की सोर

Page 8 of 8