MAHARSHI DAYANAND UNIVERSITY ROHTAK UNIVERSITY INSTITUTE OF ENGINEERING & TECHNOLOGY SHORT TERM TENDER NOTICE

Sealed tender super_subscribing "Tender for Physics Lab Equipments" are invited for the purchase of various Physics Lab Equipments latest by 04.02.2015 alongwith earnest money equal to 2% of involved value in the shape of Demand Draft in favour of Finance Officer, M.D.University, Rohtak for more details visit ac.in www.mdurohtak. Tenders will be opened on 05.02.2015 at 2:30 p.m. in the office of the Director, UIET, M.D.University, Rohtak

REGISTRAR

Sy

Subject: - Quotation / TENDER

Sir, TERMS + Condutiony.

The articles/material as per specification given below/ attached are required to be purchased for UIET. You are requested to kindly quote your rate for the same. The terms and conditions for quoting/tendering the rates are given below, may kindly be kept in view while you do so. Your quotation will interalia be subject to the following conditions:-

- 1. All charges payable by the University should clearly be stated.
- 2. The quotation should submitted only if the material is available in your ready stock or can be supplied within after the order is placed.
- 3. Sealed tenders/quotations should reach the office of the undersigned on/before 4.13/15. quoting our reference and due date of opening on the envelope.
- 4. The quotation/tender will be opened on standard at 2.3.4. at 2.3.4. in the presence of the parties or their representatives who so ever like to be present.
- 5. An amount equal to 2% of quoted amount in the shape of Bank Draft in favour of the Finance Officer, Maharshi Dayanand University, Rohtak as earnest money should accompany the quotation/tender, in absence of which the tender/quotation will not be entertained.
- 6. As far as possible the rates should be quoted for the make and specification of the items given. In case any alternative/equivalent item is offered, its specification and leaflets many be sent with the tender/quotation. The sample of material should accompany the tender/quotation for record.
- 7. The acceptance of goods is subject to the approval of Inspection Committee.
- 8. Dispute, if any, will be subject to Rohtak Jurisdiction.
- 9. The University reserves the right to reject any or all quotations/tenders without assigning any reason thereof.
- 10. If your rates are approved by D.G.S. & D. and other Central/State Agency, the rates of the same must be quoted and the copy of the rate contract be attached.

- 11. Supplies shall be executed within the time specified in the supply order which may be extended by the registrar on the application of the supplier explaining reasons/circumstances due to which time limit could not be adhered to. In the event of the supplier failing to supply the material within time, he shall be liable to pay as compensation an amount equal to one percent or such small amount as the Registrar may decide on the said amount of the contract, for every day that quantity remains incomplete, provided that the entire amount of compensation shall not exceed 10 percent of the total amount of contract. An appeal against these orders shall however lie with the Vice-Chancellor whose decisions shall be final.
- 12. In case the contractor backs out of his contract, the earnest money deposited by him shall be forfeited besides any other action may be considered necessary by the Vice-Chancellor.
- 13. The quantity of material/supplies shall be subject to increase or decrease on the tendered rates. This increase or decrease shall be communicated by the University within Days of acceptance of the tender.
- 14. Guarantee period for equipment/machines should be clearly specified.
- 15. 100% payment will be made on receipt and inspection of goods to ensure the specifications and their good conditions.
- 16. The rates accepted by the University shall be applicable up to and the supplier shall have to make supply during the period as and when required.
- 17. The Registrar reserves the right to reject or accept any offer without assigning any reason.

DIRECTOR (UIET)

Specification of Equipments for Physics lab

S.No	Description/Specifications	Qty
01.	Post office box Trainer.	06
	The trainer should have: On Board	
	DC Power Supply : 5V	
	Galvanometer; Deflection: 30 – 0 – 30; Resistance: 80 W	
	Unknown Resistance Type : Variable ;Range : $0 - 10 \text{ K}\Omega$	
	Wire Samples: Constantan: 1 meter; Nichrome: 1 meter	
	Mains: $230 \text{ V AC} \pm 10\%$, 50 Hz	
	Fuse: 500 mA	
02.	Stewart and Gee's Apparatus.	05
	DC Power Supply: 5V, 2.6A; DC Ammeter: 0 - 3A	
	Tangent Galvanometer: Type: Stewart and Gee; Scale: 50 -	
	0 - 50 cm	
	Magnetometer : Pointer : Aluminum ; Quadrant : 0° - 90°	
	(Four)	
	Coil: Bobbin: Aluminum; Diameter: 19 cm; Wire:	
	Insulated copper	
	Turns: 0 to 5, 50, 100, 200, 500	
	Mains Supply: $230V \pm 10\%$, $50Hz$	
03.	Photo Vacuum tube Apparatus.	03
	DC Power Supply : 0-5 V	
	Filters: Colors: Violet, Royal Blue, Tokyo Blue, Green,	
	Yellow, Red	
	Light Source : Halogen lamp 50 W	
	Rail : 50 cm	
	DC Voltmeter; Type:LCD; Display: 3½ digit; Range: 200	
	mV - 200 V	
	DC Ammeter; Type: LCD; Display: 3½ digit; Range: 2 µA -	
	200 mA	
	Mains: 230 V ±10%, 50 Hz	
	Fuse: 0.5 A	
04.	Four probe method apparatus.	03
	Contacts : Spring loaded ; Space between Probes : $2 \text{ mm } \pm 2\%$;	
	Probes : Collinear	
	Sample :Material : Germanium Crystal ;Type : P type	
	Oven: Maximum Temperature: 200°C; Heater Resistance:	
	37V;	
	Heater Voltage: 45 V (approx.)	
	Measurement Unit :Display : LCD 16 x 2 Characters ;Range :	
	0-2 V	
	Constant Current Generator: Current Range: 0 to 20 mA;	
	Resolution:1 mA	
	Open Circuit Voltage: 18 V	
0.7	Oven Power Supply :Input : 230 V AC ±10%, 50 Hz	0.7
05.	Newton's Rings Setup.	05
	Sodium vapour lamp as the monochromatic (5893Å) and broad light	
	source Lens: Type: Plano – convex.; Focal Length: 100 cm; Diameter: 6	
	cm	
	Newton's Ring Microscope	
	Magnification: 30X; Weight: 5.7 kg;	
	Horizontal Movement Limit: 9 cm	
	Least Count of Circular Scale: 0.001 cm	
	Sodium Vapour Lamp Light source enclosed in a metal case with	

	holes for cooling.	
	Wavelength: 5893 Å; Operating Wattage: 35 W	
	Mains Supply : 230 V ±10%, 50 Hz	
06.	Fresnel Biprism setup.	04
	Optics bench: Length: 1.5 m	
	Biprism :Dimension : 50 x 40 mm ;Material : Glass ;	
	Refractive index: 1.54	
	Convex Lens :Type : Double Convex ;	
	Focal Length: 100 mm; Dia: 50 mm	
	Micrometer Eyepiece: Range: 30-0-30 mm; Least Count: 0.005	
	mm	
	Screen: Horizontal Scale: 100-0-100 mm; Vertical Scale: 85-0-85	
	mm	
	Light Source : Sodium Vapour Lamp .	
	Wavelength: 5893 Å; Operating Wattage: 35 W	
	Mains Supply: 230 V ±10%, 50 Hz	
07.	refractive index of a prism.	04
07.	Spectrometer	04
	Base: Type: Cast iron; Circle dia: 150 mm. (6")	
	Scale: Type: Stainless Steel; Main scale: 0 - 360°;	
	• •	
	Vernier scale: 30 div; Collimator: Tube length: 160 mm.	
	Focal length of Achromatic lens :: 175 mm. (approx.)	
	Telescope: Tube length: 185 mm.	
	Focal length of Achromatic lens: 175 mm. (approx.)	
	Prism :Geometry : 50 X50 mm. equilateral ; Refractive index : 1.51	
	Hollow prism: 50 X 50 mm. equilateral	
	Plane transmission grating: 15,000 l/inch	
	Light source : Mercury lamp enclosed in a metal case	
	Output Power: 160 W. Wavelength: 400 - 800 nm	
08	Michelson's Interferometer	02
	Interferometer Base: Machined MS base of 6 kg with rubber sheet	
	attached at bottom to reduce vibration	
	Micrometer: Least count: 0.001 mm; Range: 0 - 25 mm	
	Beam Splitter: Type: Cubic; Size (mm): 15 x 15 x 15	
	$R\%/T\% : 50 / 50$; Flatness : $\lambda/4$ (at 632 nm)	
	Mirror : Type : Circular	
	Diameter: 25 (5mm thick)	
	Second Mirror: Fabricated on Beam Splitter	
	Source 1: Sodium Vapour Lamp	
	Wavelength: 5893 Å; Operating Wattage: 35 W	
	Mains Supply: 230 V $\pm 10\%$, 50 Hz	
	SourceII: Diode LASER (Battery operated) 630nm	
09	Polarimeter	06
	Circular scale graduated from 0° to 360°	
	Sodium vapour lamp light source	
	Polaroid: Thickness: 0.1 mm.; Diameter: 26 mm	
	Type: Nitrocellulose polymer	
	Half wave plate :Wavelength : 589 nm ;Type : Quartz	
	Objective lens: Type: Double Convex; Focal length: 50 mm	
	Eye piece : Type : Double Convex ;Focal length : 200 mm	
	Polarimeter tube: Length: 100 mm; Material: Borosilicate	
	Volume: 23 ml	
	Sodium Vapour Lamp Light source Wayslangth: 5803 Å: Operating Wattage: 35 W	
	Wavelength: 5893 Å; Operating Wattage: 35 W	
1.0	Mains Supply : 230 V ±10%, 50 Hz	100
10	Desauty's Bridge Setup	08
	Variable decade resistance rotary switch,	
	Variable capacitance using gang type capacitor, Digital null detector	
	3.5 digit LED, with high-low sensitivity selector with 1KHz bridge	
	oscillator having short circuit protection. Test capacitors: Air &	
	dielectric medium parallel plate aluminum sheet stag type capacitors	<u>L</u>
	Page 2 of 4	

11.	Sonometer	06
	Length of wire: 88cm; Weight of wire: 0.0018kg (approx.)	
	Weight (6 nos.): 0.5kg (each)	
	Power Supply : $230V \pm 10\%$, $50Hz$	
	AC Power Supply: 6V, 500mA	
	Coil: No. of Turn: 800; Wire dimension: 0.404	
	Maximum current: 0.363 Amps; Inductance (apprx): 9.2 mH	
12.	Ultrasonic Interferometer	03
12.	Ultrasonic Interferometer	
	Quartz Crystal	
	Diameter: 20 / 14 mm; Thickness: 1.4 mm; Frequency: 2 MHz	
	Liquid Cell	
	Optimum Quantity of Liquid: 12 cm	
	Max. Displacement: 25 mm of the Reflector	
	Least Count of Micrometer: 0.01 mm	
	Distance Measurement:	
	Ultrasonic Transducer: 28 cm to 1.0 m (approximately)	
	Clock Generator: 40 kHz	
	Amplifier: 60 dB	
	Threshold Detector: 0 to 9 V DC	
	Buzzer Indicator: 1.5 - 15 V DC	
	Mains Supply: 230 V $\pm 10\%$, 50 Hz	
	Fuse : 500 mA	
	Display: LCD	
13.	High resistance-(Leakage Method)	04
13.	DC Power Supply: 12V	04
	Ballistic Galvanometer	
	Type: Moving Coil	
	Suspension Wire: Phosphor Bronze	
	*	
	Reflector: Concave Mirror	
	Coil Resistance : 500Ω	
	Lamp & Scale	
	Lamp: Laser Light Source	
	Scale: 30-0-30cm	
	Unknown Resistances: Selectable by rotary switch	
	$R1 = 20M\Omega$; $R2 = 40M\Omega$; $R3 = 60M\Omega$; $R4 = 80M\Omega$	
	Capacitors : Selectable by rotary switch	
	$0.22\mu F$; $0.33\mu F$; $0.47\mu F$	
	Mains Supply: $230V \pm 10\%$, $50Hz$	
14.	Solar Cell	05
	Solar Panel: Consists of 6 solar cells	
	Maximum Voltage of each solar cell: 1.5V	
	Maximum Current of each solar cell: 150mA	
	On Board Voltmeter: 0 -10V; On Board Ammeter: 0 - 500mA	
	Potentiometer: 5K	
	2 AA Rechargeable NiCd Battery : 1.2V	
	On board Applications like: Bulb: 1.2V, 270mA	
	* *	
	Fan: 1.5V, 400mA; FM Band Radio: 12V	
1.7	Mains Supply: 230V ±10%, 50Hz	00
15.	P-N diode Characteristics	08
	On Board DC power supply: +12V DC	
	Ammeter & voltmeter	
	A Range: Multi range 1µA to 200mA 3 ½ digit LCD	
	V Range: Multi range 1mV to 200V 3 ½ digit LCD	
	Mains: 230V AC ±10%	
16.	Hall effect Experiment setup	04
•	Specifications:	
	Gauss and Tesla meter	
	Microcontroller Based Alphanumeric LCD Display for	
ĺ	Measurement of	
1	Magnetic Field in Gauss and Tesla, With PC Interface facility.	

_	T	
	Sensor: InAs for better sensitivity; Range: 0-5 kG	
	Mains: 230 V AC ±10 %, 50 Hz	
	2) Measurement unit	
	Microcontroller Based Alphanumeric 4 line LCD Display	
	Probe Current: 20 mA (max.); Heater current: 0-700 mA	
	Temperature : 0-100°C ;Mains : 230 V AC ±10%, 50 Hz	
	PC interface : RS232/USB	
	A) Hall probe	
	Crystal: p-type lightly doped	
	Resistivity: As on probe; Thickness: As on probe	
	B) Temperature Sensor: PT-100	
	3) Constant Current Power Supply	
	Current range: 0 to 3.5 A; Output Voltage: 20 V	
	Display: Microcontroller based LCD, 16 x 2 line;	
	- *	
	Mains: 230 V AC ±10%, 50 Hz	
	4) Electromagnet	
	Poles: 25 mm diameter; Coils: 2 Nos.; Resistance: 5 Ohms	
	(approx)	0.0
17.	B-H curve Tracer	03
	Magnetic field measurement unit	
	Display: 3½ digit LCD	
	Mains Supply : $230 \pm 10\% / 50 \text{ Hz}$	
	Sample : Type : Nickel, Hard Steel, Soft Steel	
	Length: 39 mm each; Diameter: 1.2 mm each	
	Diameter of pickup coil: 3.21 mm	
	Oscilloscope: 30 MHz dual trace with microcontroller based	
	LCD display for V/div & Time/div. XY mode.	
18.	LCD display for V/div & Time/div. XY mode. Michelson's Interferometer using He- Ne Laser Light source	02
18.	Michelson's Interferometer using He- Ne Laser Light source	02
18.	Michelson's Interferometer using He- Ne Laser Light source Micrometer: Least count: 0.001 mm; Range: 0 - 25 mm	02
18.	Michelson's Interferometer using He- Ne Laser Light source Micrometer: Least count: 0.001 mm; Range: 0 - 25 mm Beam Splitter: Type: Cubic; Size (mm): 15 x 15 x 15	02
18.	Michelson's Interferometer using He- Ne Laser Light source Micrometer: Least count: 0.001 mm; Range: 0 - 25 mm Beam Splitter: Type: Cubic; Size (mm): 15 x 15 x 15 R%/T%: 50 / 50; Flatness: λ/4 (at 632 nm)	02
18.	Michelson's Interferometer using He- Ne Laser Light source Micrometer: Least count: 0.001 mm; Range: 0 - 25 mm Beam Splitter: Type: Cubic; Size (mm): 15 x 15 x 15 R%/T%: 50 / 50; Flatness: λ/4 (at 632 nm) Mirror: Type: Circular	02
18.	Michelson's Interferometer using He- Ne Laser Light source Micrometer: Least count: 0.001 mm; Range: 0 - 25 mm Beam Splitter: Type: Cubic; Size (mm): 15 x 15 x 15 R%/T%: 50 / 50; Flatness: λ/4 (at 632 nm) Mirror: Type: Circular Diameter: 25 (5mm thick)	02
18.	Michelson's Interferometer using He- Ne Laser Light source Micrometer: Least count: 0.001 mm; Range: 0 - 25 mm Beam Splitter: Type: Cubic; Size (mm): 15 x 15 x 15 R%/T%: 50 / 50; Flatness: λ/4 (at 632 nm) Mirror: Type: Circular Diameter: 25 (5mm thick) Second Mirror: Fabricated on Beam Splitter	02
	Michelson's Interferometer using He- Ne Laser Light source Micrometer: Least count: 0.001 mm; Range: 0 - 25 mm Beam Splitter: Type: Cubic; Size (mm): 15 x 15 x 15 R%/T%: 50 / 50; Flatness: λ/4 (at 632 nm) Mirror: Type: Circular Diameter: 25 (5mm thick) Second Mirror: Fabricated on Beam Splitter Source: He-Ne LASER (630 nm) with power supply.	
18.	Michelson's Interferometer using He- Ne Laser Light source Micrometer: Least count: 0.001 mm; Range: 0 - 25 mm Beam Splitter: Type: Cubic; Size (mm): 15 x 15 x 15 R%/T%: 50 / 50; Flatness: λ/4 (at 632 nm) Mirror: Type: Circular Diameter: 25 (5mm thick) Second Mirror: Fabricated on Beam Splitter Source: He-Ne LASER (630 nm) with power supply. Traveling Microscope	02
	Michelson's Interferometer using He- Ne Laser Light source Micrometer: Least count: 0.001 mm; Range: 0 - 25 mm Beam Splitter: Type: Cubic; Size (mm): 15 x 15 x 15 R%/T%: 50 / 50; Flatness: λ/4 (at 632 nm) Mirror: Type: Circular Diameter: 25 (5mm thick) Second Mirror: Fabricated on Beam Splitter Source: He-Ne LASER (630 nm) with power supply. Traveling Microscope Base: Iron; Scale: Stainless Steel	
	Michelson's Interferometer using He- Ne Laser Light source Micrometer: Least count: 0.001 mm; Range: 0 - 25 mm Beam Splitter: Type: Cubic; Size (mm): 15 x 15 x 15 R%/T%: 50 / 50; Flatness: λ/4 (at 632 nm) Mirror: Type: Circular Diameter: 25 (5mm thick) Second Mirror: Fabricated on Beam Splitter Source: He-Ne LASER (630 nm) with power supply. Traveling Microscope Base: Iron; Scale: Stainless Steel Vertical Scale	
	Michelson's Interferometer using He- Ne Laser Light source Micrometer: Least count: 0.001 mm; Range: 0 - 25 mm Beam Splitter: Type: Cubic; Size (mm): 15 x 15 x 15 R%/T%: 50 / 50; Flatness: λ/4 (at 632 nm) Mirror: Type: Circular Diameter: 25 (5mm thick) Second Mirror: Fabricated on Beam Splitter Source: He-Ne LASER (630 nm) with power supply. Traveling Microscope Base: Iron; Scale: Stainless Steel Vertical Scale Main Scale: 0-150mm; Vernier Scale: 0-1mm; Least Count:	
	Michelson's Interferometer using He- Ne Laser Light source Micrometer: Least count: 0.001 mm; Range: 0 - 25 mm Beam Splitter: Type: Cubic; Size (mm): 15 x 15 x 15 R%/T%: 50 / 50; Flatness: λ/4 (at 632 nm) Mirror: Type: Circular Diameter: 25 (5mm thick) Second Mirror: Fabricated on Beam Splitter Source: He-Ne LASER (630 nm) with power supply. Traveling Microscope Base: Iron; Scale: Stainless Steel Vertical Scale Main Scale: 0-150mm; Vernier Scale: 0-1mm; Least Count: 0.01mm	
	Michelson's Interferometer using He- Ne Laser Light source Micrometer: Least count: 0.001 mm; Range: 0 - 25 mm Beam Splitter: Type: Cubic; Size (mm): 15 x 15 x 15 R%/T%: 50 / 50; Flatness: λ/4 (at 632 nm) Mirror: Type: Circular Diameter: 25 (5mm thick) Second Mirror: Fabricated on Beam Splitter Source: He-Ne LASER (630 nm) with power supply. Traveling Microscope Base: Iron; Scale: Stainless Steel Vertical Scale Main Scale: 0-150mm; Vernier Scale: 0-1mm; Least Count: 0.01mm Horizontal Scale	
	Michelson's Interferometer using He- Ne Laser Light source Micrometer: Least count: 0.001 mm; Range: 0 - 25 mm Beam Splitter: Type: Cubic; Size (mm): 15 x 15 x 15 R%/T%: 50 / 50; Flatness: λ/4 (at 632 nm) Mirror: Type: Circular Diameter: 25 (5mm thick) Second Mirror: Fabricated on Beam Splitter Source: He-Ne LASER (630 nm) with power supply. Traveling Microscope Base: Iron; Scale: Stainless Steel Vertical Scale Main Scale: 0-150mm; Vernier Scale: 0-1mm; Least Count: 0.01mm Horizontal Scale Main Scale: 0-180mm; Vernier Scale: 0-1mm; Least Count:	
	Michelson's Interferometer using He- Ne Laser Light source Micrometer: Least count: 0.001 mm; Range: 0 - 25 mm Beam Splitter: Type: Cubic; Size (mm): 15 x 15 x 15 R%/T%: 50 / 50; Flatness: λ/4 (at 632 nm) Mirror: Type: Circular Diameter: 25 (5mm thick) Second Mirror: Fabricated on Beam Splitter Source: He-Ne LASER (630 nm) with power supply. Traveling Microscope Base: Iron; Scale: Stainless Steel Vertical Scale Main Scale: 0-150mm; Vernier Scale: 0-1mm; Least Count: 0.01mm Horizontal Scale Main Scale: 0-180mm; Vernier Scale: 0-1mm; Least Count: 0.01mm	
	Michelson's Interferometer using He- Ne Laser Light source Micrometer: Least count: 0.001 mm; Range: 0 - 25 mm Beam Splitter: Type: Cubic; Size (mm): 15 x 15 x 15 R%/T%: 50 / 50; Flatness: λ/4 (at 632 nm) Mirror: Type: Circular Diameter: 25 (5mm thick) Second Mirror: Fabricated on Beam Splitter Source: He-Ne LASER (630 nm) with power supply. Traveling Microscope Base: Iron; Scale: Stainless Steel Vertical Scale Main Scale: 0-150mm; Vernier Scale: 0-1mm; Least Count: 0.01mm Horizontal Scale Main Scale: 0-180mm; Vernier Scale: 0-1mm; Least Count:	
	Michelson's Interferometer using He- Ne Laser Light source Micrometer: Least count: 0.001 mm; Range: 0 - 25 mm Beam Splitter: Type: Cubic; Size (mm): 15 x 15 x 15 R%/T%: 50 / 50; Flatness: λ/4 (at 632 nm) Mirror: Type: Circular Diameter: 25 (5mm thick) Second Mirror: Fabricated on Beam Splitter Source: He-Ne LASER (630 nm) with power supply. Traveling Microscope Base: Iron; Scale: Stainless Steel Vertical Scale Main Scale: 0-150mm; Vernier Scale: 0-1mm; Least Count: 0.01mm Horizontal Scale Main Scale: 0-180mm; Vernier Scale: 0-1mm; Least Count: 0.01mm	
19.	Michelson's Interferometer using He- Ne Laser Light source Micrometer: Least count: 0.001 mm; Range: 0 - 25 mm Beam Splitter: Type: Cubic; Size (mm): 15 x 15 x 15 R%/T%: 50 / 50; Flatness: λ/4 (at 632 nm) Mirror: Type: Circular Diameter: 25 (5mm thick) Second Mirror: Fabricated on Beam Splitter Source: He-Ne LASER (630 nm) with power supply. Traveling Microscope Base: Iron; Scale: Stainless Steel Vertical Scale Main Scale: 0-150mm; Vernier Scale: 0-1mm; Least Count: 0.01mm Horizontal Scale Main Scale: 0-180mm; Vernier Scale: 0-1mm; Least Count: 0.01mm Eyepiece: 10x (Ramsden)	03
19.	Michelson's Interferometer using He- Ne Laser Light source Micrometer: Least count: 0.001 mm; Range: 0 - 25 mm Beam Splitter: Type: Cubic; Size (mm): 15 x 15 x 15 R%/T%: 50 / 50; Flatness: λ/4 (at 632 nm) Mirror: Type: Circular Diameter: 25 (5mm thick) Second Mirror: Fabricated on Beam Splitter Source: He-Ne LASER (630 nm) with power supply. Traveling Microscope Base: Iron; Scale: Stainless Steel Vertical Scale Main Scale: 0-150mm; Vernier Scale: 0-1mm; Least Count: 0.01mm Horizontal Scale Main Scale: 0-180mm; Vernier Scale: 0-1mm; Least Count: 0.01mm Eyepiece: 10x (Ramsden) Sodium light source with Power Supply	03
19.	Michelson's Interferometer using He- Ne Laser Light source Micrometer: Least count: 0.001 mm; Range: 0 - 25 mm Beam Splitter: Type: Cubic; Size (mm): 15 x 15 x 15 R%/T%: 50 / 50; Flatness: λ/4 (at 632 nm) Mirror: Type: Circular Diameter: 25 (5mm thick) Second Mirror: Fabricated on Beam Splitter Source: He-Ne LASER (630 nm) with power supply. Traveling Microscope Base: Iron; Scale: Stainless Steel Vertical Scale Main Scale: 0-150mm; Vernier Scale: 0-1mm; Least Count: 0.01mm Horizontal Scale Main Scale: 0-180mm; Vernier Scale: 0-1mm; Least Count: 0.01mm Eyepiece: 10x (Ramsden) Sodium light source with Power Supply Sodium Vapour Lamp.	03
20.	Michelson's Interferometer using He- Ne Laser Light source Micrometer: Least count: 0.001 mm; Range: 0 - 25 mm Beam Splitter: Type: Cubic; Size (mm): 15 x 15 x 15 R%/T%: 50 / 50; Flatness: λ/4 (at 632 nm) Mirror: Type: Circular Diameter: 25 (5mm thick) Second Mirror: Fabricated on Beam Splitter Source: He-Ne LASER (630 nm) with power supply. Traveling Microscope Base: Iron; Scale: Stainless Steel Vertical Scale Main Scale: 0-150mm; Vernier Scale: 0-1mm; Least Count: 0.01mm Horizontal Scale Main Scale: 0-180mm; Vernier Scale: 0-1mm; Least Count: 0.01mm Eyepiece: 10x (Ramsden) Sodium light source with Power Supply Sodium Vapour Lamp. Wavelength: 5893 Å; Operating Wattage: 35 W Mains Supply: 230 V ±10%, 50 Hz	03
19.	Michelson's Interferometer using He- Ne Laser Light source Micrometer: Least count: 0.001 mm; Range: 0 - 25 mm Beam Splitter: Type: Cubic; Size (mm): 15 x 15 x 15 R%/T%: 50 / 50; Flatness: λ/4 (at 632 nm) Mirror: Type: Circular Diameter: 25 (5mm thick) Second Mirror: Fabricated on Beam Splitter Source: He-Ne LASER (630 nm) with power supply. Traveling Microscope Base: Iron; Scale: Stainless Steel Vertical Scale Main Scale: 0-150mm; Vernier Scale: 0-1mm; Least Count: 0.01mm Horizontal Scale Main Scale: 0-180mm; Vernier Scale: 0-1mm; Least Count: 0.01mm Eyepiece: 10x (Ramsden) Sodium light source with Power Supply Sodium Vapour Lamp. Wavelength: 5893 Å; Operating Wattage: 35 W Mains Supply: 230 V ±10%, 50 Hz Mercury Lamp Light Source.	03
20.	Michelson's Interferometer using He- Ne Laser Light source Micrometer: Least count: 0.001 mm; Range: 0 - 25 mm Beam Splitter: Type: Cubic; Size (mm): 15 x 15 x 15 R%/T%: 50 / 50; Flatness: λ/4 (at 632 nm) Mirror: Type: Circular Diameter: 25 (5mm thick) Second Mirror: Fabricated on Beam Splitter Source: He-Ne LASER (630 nm) with power supply. Traveling Microscope Base: Iron; Scale: Stainless Steel Vertical Scale Main Scale: 0-150mm; Vernier Scale: 0-1mm; Least Count: 0.01mm Horizontal Scale Main Scale: 0-180mm; Vernier Scale: 0-1mm; Least Count: 0.01mm Eyepiece: 10x (Ramsden) Sodium light source with Power Supply Sodium Vapour Lamp. Wavelength: 5893 Å; Operating Wattage: 35 W Mains Supply: 230 V ±10%, 50 Hz Mercury Lamp Light Source. Light source: Mercury lamp.	03
20.	Michelson's Interferometer using He- Ne Laser Light source Micrometer: Least count: 0.001 mm; Range: 0 - 25 mm Beam Splitter: Type: Cubic; Size (mm): 15 x 15 x 15 R%/T%: 50 / 50; Flatness: λ/4 (at 632 nm) Mirror: Type: Circular Diameter: 25 (5mm thick) Second Mirror: Fabricated on Beam Splitter Source: He-Ne LASER (630 nm) with power supply. Traveling Microscope Base: Iron; Scale: Stainless Steel Vertical Scale Main Scale: 0-150mm; Vernier Scale: 0-1mm; Least Count: 0.01mm Horizontal Scale Main Scale: 0-180mm; Vernier Scale: 0-1mm; Least Count: 0.01mm Eyepiece: 10x (Ramsden) Sodium light source with Power Supply Sodium Vapour Lamp. Wavelength: 5893 Å; Operating Wattage: 35 W Mains Supply: 230 V ±10%, 50 Hz Mercury Lamp Light Source. Light source: Mercury lamp. Output Power: 160 W. Wavelength: 400 - 800 nm	03
19. 20. 21.	Michelson's Interferometer using He- Ne Laser Light source Micrometer: Least count: 0.001 mm; Range: 0 - 25 mm Beam Splitter: Type: Cubic; Size (mm): 15 x 15 x 15 R%/T%: 50 / 50; Flatness: λ/4 (at 632 nm) Mirror: Type: Circular Diameter: 25 (5mm thick) Second Mirror: Fabricated on Beam Splitter Source: He-Ne LASER (630 nm) with power supply. Traveling Microscope Base: Iron; Scale: Stainless Steel Vertical Scale Main Scale: 0-150mm; Vernier Scale: 0-1mm; Least Count: 0.01mm Horizontal Scale Main Scale: 0-180mm; Vernier Scale: 0-1mm; Least Count: 0.01mm Eyepiece: 10x (Ramsden) Sodium light source with Power Supply Sodium Vapour Lamp. Wavelength: 5893 Å; Operating Wattage: 35 W Mains Supply: 230 V ±10%, 50 Hz Mercury Lamp Light Source. Light source: Mercury lamp. Output Power: 160 W. Wavelength: 400 - 800 nm Mains supply: 230 V ±10%, 50 Hz	03
20. 21.	Michelson's Interferometer using He- Ne Laser Light source Micrometer: Least count: 0.001 mm; Range: 0 - 25 mm Beam Splitter: Type: Cubic; Size (mm): 15 x 15 x 15 R%/T%: 50 / 50; Flatness: λ/4 (at 632 nm) Mirror: Type: Circular Diameter: 25 (5mm thick) Second Mirror: Fabricated on Beam Splitter Source: He-Ne LASER (630 nm) with power supply. Traveling Microscope Base: Iron; Scale: Stainless Steel Vertical Scale Main Scale: 0-150mm; Vernier Scale: 0-1mm; Least Count: 0.01mm Horizontal Scale Main Scale: 0-180mm; Vernier Scale: 0-1mm; Least Count: 0.01mm Eyepiece: 10x (Ramsden) Sodium light source with Power Supply Sodium Vapour Lamp. Wavelength: 5893 Å; Operating Wattage: 35 W Mains Supply: 230 V ±10%, 50 Hz Mercury Lamp Light Source. Light source: Mercury lamp. Output Power: 160 W. Wavelength: 400 - 800 nm Mains supply: 230 V ±10%, 50 Hz Table top Ammeter	03 05 05
19. 20. 21.	Michelson's Interferometer using He- Ne Laser Light source Micrometer: Least count: 0.001 mm; Range: 0 - 25 mm Beam Splitter: Type: Cubic; Size (mm): 15 x 15 x 15 R%/T%: 50 / 50; Flatness: λ/4 (at 632 nm) Mirror: Type: Circular Diameter: 25 (5mm thick) Second Mirror: Fabricated on Beam Splitter Source: He-Ne LASER (630 nm) with power supply. Traveling Microscope Base: Iron; Scale: Stainless Steel Vertical Scale Main Scale: 0-150mm; Vernier Scale: 0-1mm; Least Count: 0.01mm Horizontal Scale Main Scale: 0-180mm; Vernier Scale: 0-1mm; Least Count: 0.01mm Eyepiece: 10x (Ramsden) Sodium light source with Power Supply Sodium Vapour Lamp. Wavelength: 5893 Å; Operating Wattage: 35 W Mains Supply: 230 V ±10%, 50 Hz Mercury Lamp Light Source. Light source: Mercury lamp. Output Power: 160 W. Wavelength: 400 - 800 nm Mains supply: 230 V ±10%, 50 Hz	03