

उदय प्रताप कालेज, वाराणसी

(स्वायत्तशासी संस्था)
नैक पुनर्मूल्यांकित 'B' ग्रेड



Udai Pratap College, Varanasi

(Autonomous Institution)

NAAC Re-accredited 'B' Grade

College with Potential for Excellence, DST-FIST & DBT-Star College

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Ref. No. 637 /Quotation/2021-22

Date: 20.12.2021

**NOTICE INVITING QUOTATIONS FOR PURCHASE OF
EQUIPMENTS/APPARATUS**

Sealed Quotations are invited from reputed agencies/firms for supplying equipment/appartus for four Science Department Physics, Chemistry, Botany & Zoology under D.B.T. Star Scheme. Please Quote your lowest rate along with make & send it by speed/registered post in sealed envelope in favour of Principal, Udai Pratap College, Varanasi. Quotations are to be sent separately for each department and name of the department should be mentioned on top of the envelop. The list of equipments/apparatus for each department is attached herewith.

Last date for receipt of Quotations is 08.01.2022. The Qoutation received after the mentioned date will not be considered. No Qoutation will be entertained by any other method.

**Programme Coordinator
DBT**

Principal

LIST OF EQUIPMENTS (REVISED)
Department of Physics (DBT Star Status)

S.NO.	NAME OF EQUIPMENTS
1	Bending of Beam Apparatus
2	Viscosity Apparatus
3	The Frequency of AC Mains using a Horse shoe Magnet
4	Thermal Conductivity of Metals.
5	H.H. Galvanometer
6	Inertia Table: Moment of inertia of an irregular body by
7	Force constant of a given spring by static and dynamic methods
8	Photomultiplier Tube
9	Modulus of rigidity by statistical method (Barton's apparatus)
10	Poisson's ratio of rubber by rubber tubing
11	Photomultiplier Tube, housing Power Supply and mounting coupling for Monochromator
12	Solor Photo Voltaic Cell(PV Cell)
13	Desk Top PC With 16 GB RAM & I7 Processor
14	Sound Level Meter(Measurement of Sound Pollution)
15	Four Probe Set-Up for measuring the Resistvity Semiconductor.
16	Pulse Amplitude Modulation Demodulation Apparatus.
17	Pulse Position Modulation and Demodulation Apparatus.
18	Frank-Hertz Experitment Complete Setup.
19	CRO Dual Tracer Two Channel.
20	RF-Oscillator
21	Photo Detector with digital meter
22	Digital Gauss meter Scientific DGM 102,202,204
23	He-Ne Laser with power supply
24	Electron Spin Resonance Spectrometer Scientific ESR -104 without CRO
25	Magnetic Hysteresis loop tracer Scientific HLT-111 without CRO
26	Optical Fibre Experimental Setup
27	Constant Deviation Spectrograph & Constant current power supply for Zelman Effect study
28	F.P Etalon, CDS prism 1.78u, Neon Tube with power supply , wooden stand for tube, Micrometer eyepiece & condensing lens.
29	Electromagnet Mag Field 20 K.Gauss.
30	Apparatus for Study the Variation of Magnetic Field with Distance.
31	Students Potentiometer
32	Callender & Barne's Apparatus
33	Bi-Quartz Polori meter Experiment Apparatus.
34	Nodal Slide Assembly Complete set.
35	Newton's Ring method Apparatus

36	Transistor (PNP-NPN) Experiment Apparatus.
37	Bi-Prism Assembly Complete set.
38	Stefan's Constant Apparatus (value of Stefan's Constant)
39	Verification of Stefan's law
40	Variation of thermo-emf across two junctions of a thermocouple with temperature
41	Temperature coefficient of resistance by Platinum resistance thermometer
42	Characteristics of PN Junction, Zener and Photo diode
43	Half wave & full wave rectifiers and Filter circuits
44	Unregulated and Regulated power supply.
45	LCR Resonance Apparatus
46	Study of Hartley oscillator
47	Study of Wein Bridge oscillator
48	Capacity of condenser Apparatus with Ballistic Galvanometer
49	Modulus of rigidity Barton's apparatus, Complete setup
50	Lee's Disc method (conductivity of Bad conductor apparatus) Complete setup.
51	Plank's Constant Apparatus by vacumm type Photo Cell Complete set.
52	OPTO Electronic Devices/Photo Diode Characteristics (CR) with Variac and lamp and scale stand
53	Magnetic Susceptibility of FeCl_3 by Quincke's method
54	Specific resistance (resistivity) of a given wire using P.O.Box
55	Specific charge (e/m) of an electron using magnetron tube
56	Thevenin's, Superposition, Reciprocity and Maximum Power Transfer theorems
57	Transistor Bias Stability
58	Comparative Study of CE, CB and CC amplifier
59	Clippers and Clampers
60	Study of Emitter Follower
61	Frequency response of single stage RC coupled amplifier
62	Frequency response of single stage Transformer coupled amplifier
63	Effect of negative feedback on frequency response of RC coupled amplifier
64	Study of Schmitt Trigger
65	Fresnel Biprism: Wavelength of sodium light
66	Polarimeter: Specific rotation of sugar solution
67	Energy band gap of semiconductor by reverse saturation current method
68	Energy Band Gap of a P-N junction Diode.

69	Characteristics of given Thermistor and its energy band gap
70	Hybrid parameters of transistor
71	FET Conventional Amplifier
72	Study and Verification of AND gate using TTL IC 7408
73	Study and Verification of OR gate using TTL IC 7432
74	Study and Verification of NAND gate and use as Universal gate using TTL IC 7400
75	Study and Verification of NOR gate and use as Universal gate using TTL IC 7402
76	Study and Verification of NOT gate using TTL IC 7404
77	Study and Verification of Ex-OR gate using TTL IC 7486
78	FET Characteristics Apparatus.
79	Green Diode Laser Apparatus.
80	Red Diode Laser
81	F.P Interferometer(Student model)
82	Hall Effect Experiments
83	Operational Amplifier Trainer IC-741
84	Study of Multivibrator
85	Surface Tension by Searle's method Apparatus.
86	Digital Multimeter 3 ^{-1/2} digits
87	Spectrometer Prism 38x38 mm
88	Grating 15000 Lins / Inch
89	Micrometer Screw Gauge, (20x1 mm) S.Steel
90	Vernier Callipers
91	Lamp and Scale Arrangement use with 220 volts AC
92	Spare 10x Ramsdem Eyepiece with cross line
93	Ballistic Galvanometer Coilresistance 500 ohms
94	Spare Polari meter tubes
95	Stop Watch,Racer,Manual
96	Electromagnet Transformer
97	Stop Clock
98	D.C. Voltmeter 0-15,0-25 & 0-100V
99	D.C Milliammeter 0-25,0-50& 0-100mA
100	D.C. Micrometer 0-100,0-250 & 0-500 μ A
101	D.C. Ameter 0-1,0-5 & 0-10A
102	A.C Voltmeter 0-15,0-25 & 0-100V
103	D.C. Galvanometer Grade 30-0-30
104	Rheostat 4Amp,8 Ω
105	Rheostat 4Amp,20 Ω

106	Rheostat 4Amp,47Ω
107	Thermometer 0-150 Mercury
108	Thermometer 0-150 Mercury Alcohol
109	Photo Diode S1-100 for opto electronics photo diode apparatus
110	Transistor BFW-10 (for FET)
111	Nodal lens Convex FL-10/15/20cm
112	Nodal Lens Concave FL-30/45/60 cm
113	Plano Convex Lenses(FL-100 & 200cm)for Newton's Ring Apparatus
114	Banana Socket 4mm Size
115	Banana Terminal Stackable Pin Multiple Connections 04 mm
116	CRO connector (BNC Connector with leads)
117	UJT 2646
118	IC-7400,7402,7408,7410,7420,7430,7432,7447, 74150, 74154

Shg
17/11/2021
Coordinator

Forwarded

For. Head

Shg
17/11/2021

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Forwarded for Approval
Jurnal.



DEPARTMENT OF CHEMISTRY
Uday Pratap Autonomous College
Varanasi -221002

Ref. No. :.....

Date:22-11-2021


List of Equipments
Name of Equipment

S.No.	Name of Equipment
1.	Hot Plate with Magnetic Stirrer
2.	pH Meter
3.	Conductometer
4.	Potentiometer
5.	Visible Spectrophotometer
6.	Scientific Digital Balance
7.	Heating Mantle
8.	Thermometer
9.	Colorimeter
10.	Column for Chromatography
11.	UV-Visible Spectrophotometer Systronic 118
12.	Digital M.P. Apparatus
13.	High speed Centrifuge Machine REMI R8C
14.	Double Walled Condenser & Clamps
15.	M.P.Apparatus
16.	Conductometer
17.	pH Meter
18.	Potentiometer
19.	Digital Balance
20.	Freeze 265 Lit
21.	Micro wave
22.	Polarimeter
23.	Distillation Plant
24.	Centrifuge Machine
25.	Chemical Balance
26.	Thermometer
27.	Column for Chromatography
28.	UV Visible (Less Than 1 Lak)
29.	Double Wall Condensor
30.	Water Bath
31.	Oil Bath
32.	Wire-Gauge
33.	Chimney
34.	Stand
35.	On Line Constant Voltage Stabilizer
36.	Incubation Bottle 300 ml Volume, Air Compressor, 20°C incubator
37.	Wensar Double Beam UV-VIS Spectrophotometer

LIST OF EQUIPMENTS
Department of Botany

(To be Purchased under DBT STAR SCHME)

1	Monocular Microscope
2	Digital burette
3	Digital Psychrometer
4	Digital PH meter (Pocket)
5	Laboratory electronic balance (0.001 gm)
6	Carbon digestion and distillation unit
7	Handy autoclave micropipete PP (01 ml)
8	Heating Mental
9	Horizontal electrophoresis Unit
10	Vertical Electrophoresis Unit
11	Transilluminator (Portable)
12	Microware USB Digital Microscope Magnifier 8 LED 1600 x Magnification Endoscope Mini Camera With USB Adapter
13	Digital Monocular Microscope and imaging Software
14	Portable Air Sampler
15	Fine Particulate Sampler
16	Digital Water Sample analysis Kit
17	Portable Micro Centrifuge
18	Manti Digital Soil and Water Analysis kit 5 Parameters
19	Soxhlet complete with alluihn Condenser Interchangeable Joint(100 ml Capacity)
20	Monocular Microscope


22-11-2021
Coordinator





Head
22.11.2021

LIST OF EQUIPMENTS
Department of Zoology

1	PH Meter
2	Water Analyzer
3	Sartorius Balance
4	Incubator
5	Glucometer With Kit
6	Wet and Dry Bulb Thermometer
7	Occulometer
8	Hemoglobinometer
9	Max. Min. Thermometer
10	Hair Hygrometer
11	Large Thermometer with probe
12	Plankton Counter
13	Vertical Gel Electrophoresis Setup with Power Pack
14	Horizontal Gel Electrophoresis Setup with Power Pack
15	Gel Rocker
16	Olympus Binocular Microscope
17	Clinical Centrifuge
18	Plankton Net
19	Colorimeter
20	Autoclave
21	Magnetic Stirrer
22	Table Top Centrifuge (Spin Win)
23	Double Distillation Unit
24	Laminar Flow hood
25	Micropipette 2-20 μ l 6-50 μ l 20-200 μ l 200-1000 μ l
26	BOD Incubator
27	Voltage Stabilizer
28	Monitor-LG /Dell / Zebronics 18.5"
29	Mouse


Coordinator


Head