



GOVERNMENT OF WEST BENGAL
Office of the Principal, Jhargram Raj College
JHARGRAM:: 721507

TenderNotice

No. 291/NIT/2022-23

Date: 07.07.2022

Sealed Tender are invited from reputed and bonafide enlisted suppliers/dealers/agencies/companies for supply of the items as noted below to the Jhargram Raj College, Jhargram.

'A' (Computers, electronic goods and accessories)

1. Desktop Computers (HP, Ci5 6gen/ 1TB/4GB DDR 4/Optical Drive/Win10 Pro/Monitor (19"), Mouse, Keyboard,3yrs onsite)
2. Laptop (DELL,/HP-Pavilion i6-i7 Ci5-8250U Processor (6MB Cache, up to 3.4 GHz)/ 8GB/1TB/2GB Graphics/Win 10 Home/15.6")
3. External Hard Disk (1TB, Seagate)
4. External Hard Disk (2TB, Seagate)
5. UPS 600VA (APC)
6. LASER Printer(a. HP P1108 Mono LaserJet, b. HP M1005 132A Mono Print/Scan/Copy)
7. LASER Colour Printer (Canon/HP)
8. Scanner(Canon/HP)
9. Hand Scanner
10. LASER Printer cum Scanner(Canon/HP)
11. Cartridge (HP laser Jet P 1108, 88A, 12A (Canon MF 4820 D)
12. Copier (Canon)
13. LCD Projector with Screen (1000 Lumens)
14. LED Projector (Epson/Sony/BENQ)
15. Projector Stand
16. Projector Screen
17. Inverter (Microtech/Luminous)
18. Refrigerator (Whirlpool 320 Litt.)- Double Door/Single Door
19. Air cooler (Voltas/Blue Star/Samsung)
20. Water Purifier (Kent/2Ton)
21. Air Conditioner (Voltas 185 EYS 1.5 ton/2 ton, 5 Star/Samsung- Copper)
22. Vacuum Cleaner (KENT/Others)
23. Aqua Guard (Eureka Forbes, RO+UV+MTDS)
24. Exide Battery (50AH, 100AH, 150AH)
25. Smart Board (Infrared sensor technology 4 point touch, Interactive whiteboard, standard communication distance1.5m, support10-15m. Power consumption <100mA, Support Screen record. Supported Window 8,10.
26. Pen Drive (32 GB, HP)
27. Pen Drive (16 GB, HP)
28. Digital Calculator (Casio, FX-9860GII)
29. Digital Calculator (Casio, DJ-120D+Dekstop Calculator)
30. Digital Camera (Nikon D7200, DSLR)
31. Pedestal Fan (Havells)
32. Brass Lighting Lamp (Seyon Kerala)
33. High Capacity Extension Board
34. Digital Voice Reorder with built in USB
35. Compact Portable sound system with cordless mouth piece
36. Toner for photocopier : NPG 51, NPG 28, NPG 59 (Canon)
37. Colour Cartridge : SPS 130A/CF350A/CF351A/CF352A/CF353A.

'B' (Software)

1. Operating Systems: Windows 10
2. Antivirus (Quickheal total security, multi users(10)/above
3. SOUL Software for Library

'C' (Instruments)

1. He-Ne LASER (2W & 5W)
2. Optical Honey comb table top (Holmarc make model TT 180-150)
3. Vibration isolation for optical table (Holmarc AVI2045)
4. Optical Mounts (Holmarc make: a. Posts P23, P40, P50, P75 b. Post Holder a. PH 30, PH 50, PH 75, PH 100, Ph 150; c. Post base PB 6525, PB 7525; d. Right angle post clam RAC-12,)
5. Kinematic mirror mounts (Holmarc BM-CS-25)
6. Translation stage (Holmarc BM-CS-25)
7. Optical components (Plano convex lens of dia 1 inch, Metal mirror of dia 1 inch, dielectric mirror of dia 1 inch, Plate beam splitter, Beam samplers All optics for He Ne wavelength)
8. Photo detector (Photodiode based, for He-Ne Laser)
9. Digital Oscilloscope (Tektronics)
10. Set-up for determination of conductivity of Copper by Angstrom method.
11. Set-up for Millikan's oil drop method
12. Set-up for determination of absorption line of iodine
13. Set-up for studying Zeeman effect by external magnetic field
14. Set-up for electron spin resonance (ESR)
15. Ballistic galvanometer (Oxford/ Inco make)
16. Dead-beat galvanometer (Oxford/ Inco make)
17. Platinum resistance thermometer (Inco make)
18. Spectrometer (Vernier Constant 20") (Inco/Devco make)
19. Hot plate heating mantle
20. Set-up for measuring AC dielectric constant with frequency
21. Set-up for measuring complex dielectric constant and plasma frequency of metal using surface plasmon resonance.
22. Set-up for Hall coefficient measurement of semiconductor
23. Set-up for analysing elliptically polarized light by Babinet's compensator
24. Set-up for determination of wavelength and velocity of ultrasonic wave in liquid by diffraction
25. Autoclave (SS)
26. Hemocytometer
27. Spinwin micro centrifuge
28. Pipetman Micropipettes
29. UV Transilluminator
30. Vertical Gel Electrophoresis Unit with powerpack
31. Horizontal Gel Electrophoresis unit
32. Heathrow vortexer
33. Ultra freezer (-30C)
34. Balance Electrical Digital (Winer, 1mg-200mg)
35. Air Oven (Hot) (18x18x24 SS Digital)
36. Electrical Water Bath (6 hole)
37. Micro-pipette (Tarson, 1ml & 10 ml)
38. Polarimeter
39. UV-spectrophotometer (Eylla, Japan)
40. Electrode (Silver, Systronics)
41. Electrode (Platinum, Systronics)
42. Electrode (Glass, Systronics)
43. Electrode (Calomel, Systronics)
44. PH meter (Systronics)
45. Conductometer (Systronics)
46. Potentiometer (Systronics)
47. Magnetic stirrer (Remi 2MLH)
48. Magnetic Bar
49. Oil bath set-up
50. Water Container (Carboy-10Lit.)
51. Steel Distillation Set (EI, 4 litres/hour capacity)
52. Thermostatic Water bath (6 holes)
53. Iron Removal Plant
54. Educational Globe (8inch, Mathematics)
55. Hand Grip Dynamometer
56. Leg and Back Dynamometer

57. Weighing Machine
58. Height Scale (Stadiometer)
59. Skinfold Caliper
60. Victory Stand
61. Solar Panel
62. Incubator shaker(for bacteriology)
63. Glass washer.

'D' (Networking)

1. Supply and installation of Networking for computers in college premises:

- Cat 6 Cable
- Fibre Optic Cable
- LIU
- Patch Panel
- Switch
- IO Box and module
- Patch Cord
- Network Rack etc.

'E' (Glass and Chemicals)

1. Bio-chemicals for CBCS Honours course
2. Plasticware & storage boxes for ultra freezer
3. Scientific Equipments, Glass goods and chemicals items (please contact for details also visit college website www.jrc.ac.in with HOD of the Dept. of Physics, Chemistry, Botany, Zoology, Physiology)

'F' (Furniture)

1. Computer Table
2. Small Writing Table (Supreme/Others)
3. Revolving Chair
4. Wooden Chair
5. Plastic Chair (Supreme)
6. Metal Chair with cushion
7. Steel Almirah (Godrej)
8. Steel Almirah with Glass Door Storwell (Godrej)
9. Locker Cabinet with 12 lockers
10. Steel Locker Cabinet
11. File Cabinet
12. Key Cabinet
13. Glass Front Wooden Notice Board (4'x3')
14. Wooden cabinets with glass front
15. Green Glass Board
16. White Board (7'x4')
17. Granite Table Top
18. Wooden Cupboard
19. Wall Clock (Ajanta)
20. 10 mm Glass top for Table (12'x8')
21. Black Granite Top on the Wooden Working Desk (10.5'x5')
22. Black Granite Top on the Wooden Working Desk (12'x5')
23. Black Granite Top on the Wooden Working Desk (16'x3.5')
24. Black Granite Top on the Wooden Working Desk (22'x3')
25. Black Granite Top on the Wooden Working Desk (6'x2')
26. Black Granite Top on the Wooden Working Desk (24'x5')
27. Black Granite Top on the Wooden Working Desk (18.5'x2.5')
28. Black Granite Top on the Wooden Working Desk (17.5'x4')
29. Black Granite Top on the Wooden Working Desk (10'x2.5')
30. Black Granite Top on the Wooden Working Desk (22'x2.5')
31. Black Granite Top on the Wooden Working Desk (10'x2.5')
32. Black Granite Top on the Wooden Working Desk (12'x5')
33. Wooden Notice Board with Glass Cover
34. Display Board (Name)
35. Iron Flag Pole Stand

36. Garden Umbrella
37. Khokho post
38. Gymnastic Mattress

'G' (College Beautification, Innovation and Best Practices)

1. Medicinal Gardening
2. Landscape Gardening
3. Arboretum
4. Tree Census
5. Vermi composting Unit
6. Net House/Green House
7. Fencing and Lawn
8. Signage and Tagging
9. Extension Activities, Field Projects, Flex, Banners, Transport etc.

'H' (Others)

1. Table Cover
2. Curtain
3. Door Mat
4. Volleyball
5. Football
6. Badminton Racket
7. Badminton Shuttle Cork

"I" Repairing & Maintenance items

SL.NO.	Name of Articles	Items
01.	Gymnasium related items	1) Resistance Bicycle-03,
		2) Treadmill-03
		3) Stepper -02
		4) Vibrator -01
		5) Electronic Massage Chair-03
		6) Steam bath chamber-02
		7) Souna bath chamber-01
02	Others repairing items	1) Repairing of Inverter & Battery
		2) Repairing of Colour Printer
		3) Repairing of Photocopier Machine
		4) Repairing of Steel / Wooden Almirah & Lock / Chair & Table
		5) Repairing of Aquaguard, Microscope, refrigerator/LCD projector
		6) Repairing of Desktop Computer related items

'J' (Office Stationeries, equipments, printing articles)

List of Stationery Articles

SL.NO.	Name of Articles	Brand
1	Alpin	King
2	Cover file	Amb.Clastic/Blackbardmetro/Blackbard Clasic
3	Document file	Keya 20L/40L
4	White Board	
5	Binder Clip	1" /2"
6	Fevistic	15gm./8gm.
7	Pen Drive	8GB,16GB,32GB, Trasant/HP
8	Toilet Brush(Nylon)	
9	Plastic Waste Paper Basket	Plastic
10	Cloth Duster	Ordinary/Best Quality
11	Chalk(White)	Kores(144 Stick)
12	Chalk (Colour)	Kores(50Stick)
13	Cup Plate	Laopala/bone chaina
14	Cello Tape	
15	Water Glass	Year/Best
16	Favicol Tube	Favicol
17	Table Cloth	Good Quality/Velvet/Medium Quality
18	Door Screen	Good Quality/Medium Quality
19	Stock Register	Bharat St.
20	Foron	Best
21	Gum, 700ml.	Camel
22	Gems Clips[Poly/Steel]	Dayal
23	Ordinary Lock	7 L Hidco
24	Navtal Lock	Godrej 5,6,7,8,12 lever
25	Bleaching Powder	Device
26	Both Side Dot Pen	Link-Woody/Prince
27	Paper Weight	Glass
28	F.S.Paper White	Super Fine, Omex/Ujjal Dear
29	F.S. Paper Rule	Super Fine, Omex/Ujjal Dear
30	Pen Stand	Morrision
31	Bond Register	Best Quality/Ordinary
32	Bond Register	Best Quality/Ordinary
33	Bond Register	Best Quality/Ordinary
34	Bond Register	Best Quality/Ordinary
35	Bond Register	Best Quality/Ordinary
36	Bond Register	Best Quality/Ordinary
37	Rubber Band	Best Quality/Ordinary
38	Sutli	Best Quality/Ordinary
39	Vim Powder	Vim
40	Candle	
41	Xerox Paper	Modi A4 Spetrum/JK
42	Xerox Paper	Modi/JK-FS/A3
43	Computer Paper	Bilt Copy PowerA4
44	Sealing Wax	8 Stick
45	Thread Cotton	No.595
46	Tag-9"	Best Quality
47	Plastic Mug	
48	Plastic Jug	

49	Life Buoy Soap	Life Buoy- Big
50	Seat Cushion	
51	Dettol	100ml
52	Needle	
53	Naptholin Ball	Bengal Chemical
54	Muratic Acid	
55	Finger Grip	
56	Blank CD	Moser Bear/Sony
57	Re-writable Blank CD	Moser Bear
58	Battery (Pencil/Laser torch)	Eveready
59	Knife	Steel Plain
60	Marker Pen	Art Line-500/camlin
61	Wooden Pencil	Nataraj
62	Computer Cartridge	HP
63	Gel Pen	Renolds- Racer Renolds-Trimax
64	OHP Marker Pen	Camlin
65	Flower Vase	Good Quality Brass Ordinary
66	Plastic Scale	Camel
67	Door Coir Mattress	Coconut Rope, Nylon
68	Candle Large	Thik with Stand
69	Key Bag	Leather- Big , Small
70	Duster	Nylon
71	Stapler	Kangaroo
72	Hand Towel	Bombay Dying Tulip
73	Correction Pen	Flair
74	Calculator	Orpat
75	Eraser	Non-dust
76	Flower Broom	Best
77	Glass for Table	Modi
78	Towel	Sky/VIP Master/one colour(72x36")
79	Teaspoon/Dinner Spoon	Stainless Steel
80	Scissors	Dayal 16cm/22mm/32mm
81	Dinner Plate	Laopola
82	Flask	Eagle 2.2 L/ 1 L.
83	Plastic Bucket	10 L/20 L.
84	Board Duster	Dayal
85	Peon Book	Bharat St.- 50 Pages
86	Board Pin	Plastic
87	Big Stapler	Kangaroo HP-10/HP45
88	Channel File	Best A-4/FC
89	Dot Pen	Linc siren Neo Brain AD
90	Herpic	Herpic
91	Laser Jet 12 A	HP- Black
92	Laser Jet 1600	HP Black, HP Colour
93	Laser Jet 88A/80A	HP
94	Fax Carbon roll	Panasonic FP-701
95	Table Tray with Clip	Plastic
96	Liquid Soap	Dettol/Lifeboy
97	Complete Dinner set	Laopola 35 Pc
98	CD Keeping Box	80 CD Capacitor
99	Match	
100	Broom	Best Quality
101	Envelope Brown	11"x9"/ 6"x12"
102	Stapler Pin	Kangaroo No.-10/ No-24/6
103	Phenyl Black/ Scented	Harmer
104	DFC Paper	8.6 Kg/ 8 Kg
105	Stamp Pad Ink	Camlin

106	Pen Ink	Camel
107	Writable DVD	Moser Baer
108	Rewritable DVD	Moser Baer
109	Photographic Paper	Desmatt 270GSM/185 GSM
110	Catalogue Card	
111	Spine Level	
112	Dot Matrix Paper	Silverton
113	Dot Matrix Paper	Silverton
114	Stamp Pad	Faber-Castell
115	Type Carbons	Kores
116	Pencil Carbons	Kores
117	Digital Clock	Ajanta 105
118	Globe 12"	Academi
119	Electric Kettle	Orpat 1/ 1.2 Lit.
120	Laser Jet 326	Canon
121	Student Attn.Reg. 6 Part/8 Part.	Bharat Stn.
122	Different size of Rubber Stamp	
123	Mirror	
124	Toilet Hanger	
125	Plastic rack with mirror for toilet	
126	Umbrella for Security Guard	K.C.Pal
127	LED ChargerTurch light/Emergency Table lamp	
128	Ink for Fountain Pen	
129	Room Freshner	
130	Koycera (FS-1020MFP)	Toner
131	Graph paper (M.M)	
132	Sand Paper (100) (120)	
133	Table lamp	
134	Toilet Freshner (Odonil/Godrej)	
135	Digital Weight machine	
136	Laser Torch	

List of Printing Articles

SL NO.	ITEMS OF PRINTING ARTICLES
1	Teacher's Performance Report (100 Pages Book) .
2	Cash Book (Lather Binding 500 Pages Book) each book .
3	Demand Register (500 Pages) each Book .
4	Staff Attendance Register (50) Pages each Book .
5	Students Attendance Register- 6 fold .
6	Students Attendance Register- 8 fold .
7	Aquittance Register 100 Pages Book .
8	Admission Register 300 Pages Book .
9	Hostel Chart Register 300 Pages Book .
10	Hostel Chart Pad 100 Pages Book .
11	Guest Meal 100 Pages Book .
12	Due Clearance Pad .
13	Collection Slip 100 Pages Book .
14	G.P.F. Group-D 100 Pages Book .
15	T.R. Form- 13 100 Pages Book .
16	T.R. Form- 31 100 Pages Book .

17	Library Day Issue Card 100 Pages Book.
18	Hostel Accommodation Form 100 Pages .
19	Office Pad Big Size 100Pages .
20	Office Pad Small Size 100 Pages .
21	Pay-in-slip (10 Pages Book) White -Per Book .
22	Pay-in-slip (10 Pages Book) . Colour.
23	Character Certificate- 100 Pages Book.
24	Identity Card Students related
25	Identity Card- Teachers & Office Staff
26	Clearance Certificate for Teacher-100 Pages Book .
27	Requisition Slip for Library-100 Pages Book .
28	Admission Requisition form-100 Pages Book .
29	Library Card Per-1000 .
30	Document of Admission Register & Result Register 200 Pages Book .
31	Library Card Issue Register-100 Pages Book .
32	Library Address Register for Students-100 Pages Book .
33	Library Book Binding (Board with Raxin) Each Book .
34	G.P.F . Register- 300 Pages Book .
35	Allotment Register- 100 Pages Book .
36	Contingent Register- 300 Pages Book .
37	Daily Marketing Bill for Girls Hostel- 30 Pages Book .
38	Advanced Received Book for Girls Hostel- 100 Pages Book .
39	Girls Hostel Leaving Certificate- 100 Pages Books .
40	Girls Hostel Certificate-50 Pages Book .
41	Demand Register-300 Pages Book .
42	Hostel Daily Cash Account Register- 300 Pages Book .
43	Mess Chart Register- 300 Pages Book .
44	Order Book- Containing- 150 Pages Book .
45	Daily Marketing Bill-100 Pages Book .
46	Anti- Ragging Form(5 Pages Per Set) .
47	A bill Extract (100 Pages Book) .
48	Accession Register (Library) 500 Pages Book .
49	Catalogue Register (Library) 300 Pages Book .
50	Non-Teaching Staff Book issue Register- 200 Pages Book .
51	Teacher's Issue Slip 100 Pages .
52	Daily Collection Register (Lather Binding) 500 Pages Book .
53	Bill Register 200 Pages Book .
54	Mark sheet Printing for P.G., Department
54	Abstract Register- 200 Pages Book .
55	T.R.Form No. 7 100 Pages .
56	Department Book Register (Library) 500 Pages Book.
57	Non-Teaching Staff Book issue Register- 200 Pages Book .
58	Author Index-500 Pages Book.
59	Title Index- 500 Pages Book .
60	Envelope With Print Per 1000 Pcs Medium .
61	Envelope With Print Per100 A4 Size .
62	Window Envelope With Print Per 1000Pcs .
63	A4 Computer Paper Per Rim 500 Pages .
64	Xerox Paper Per Rim .
65	Four Fold Cover file With Print Good Quality.
66	Two Fold Cover file with Print Good Quality.
67	Flex Print (Per Sq. ft.) .
68	Gazetted & Non- Gazetted form Per 100 Pages Book .
69	Single side Identity card Digital with cover & Less .

** For any other query regarding specification, if any, please contact with respective HODs.

Tender completed in all respect should reach in the office of the Principal, Jhargram Raj College, Jhargram latest by 11.00 Hours on 14th July, 2022.

The tender will be opened on the same day at 13.00 Hours.

Rates & specification should be quoted in the respective tender inclusive of all taxes and delivery charges, if any.

Rates inclusive of all taxes should be valid up to 31.03.2023.

The detailed terms and conditions of the tender and item wise number and specification may be obtained from the office of the undersigned and it can also be seen on college website- www.jrc.ac.in.

The undersigned reserves every right to reject /cancel any or all tender and to alter/amend the terms & conditions of the tender without assigning any reason thereof, if required.

Sd/- Dr. D.Roy
Principal
Jhargram Raj College.

No. 291(8)/NIT/2022-23 Date 07.07.2022

Copy forwarded for information and taking necessary action to:

1. The Hon'ble District Magistrate, Jhargram
2. The Sub-Divisional Officer, Jhargram.
3. The Treasury Officer, Jhargram.
4. The Block Development Officer, Jhargram.
5. The Post Master, Jhargram.
6. The Chairman, Jhargram Municipality.
7. College Notice Board.
8. The Convener of the Purchase Sub- Committee, Jhargram Raj College with a request to upload this tender notice in the College Website at the earliest.

Principal
Jhargram Raj College.

Principal
Jhargram Raj College



GOVERNMENT OF WEST BENGAL
Office of the Principal, Jhargram Raj College
JHARGRAM:: 721507

Tender Notice

No. 292/NIT-2022-23

Date:07.07.2022

Sealed Tenders are invited from reputed and bonafide enlisted suppliers/dealers/agencies/companies for installation of fully online portal for admission to the **B.A., B.Sc. B.com. & M.A./M.Sc.** Courses including payment gateway, application, merit list preparation, complete online counseling, registration uploading to V.U. website (U.G. & P.G.), submission of final data for student management system database (UG.& P.G.) The cost of cloud server where the modules are to be installed is to be mention separately. The facility should include SMS alert and OTP generation. Tenders completed in all respect should reach in the Office of the Principal, Jhargram Raj College, Jhargram latest by 11.00 hours on 14th July, 2022 and the Tenders will be opened on the same day at 13.00 Hours.

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Rates and specification should be quoted in the respective Tender inclusive of all taxes and delivery charges, if any. Rates inclusive of all taxes should be valid up to 31.03.2023.

The detailed terms and conditions of the tenders may be obtained from the Office of the undersigned and it can also be seen on College website- www.jrc.ac.in

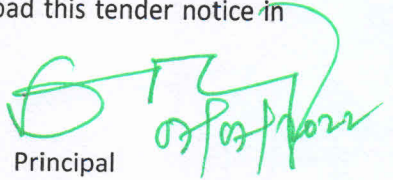
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Sd/- Dr. D. Roy
Principal
Jhargram Raj College.

No. 292 (10)/ NIT-2022-23 Date:07.07.2022

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3. The Treasury Officer, Jhargram.
4. The Block Development Officer, Jhargram.
5. The Chairman, Jhargram Municipality.
6. The Convener, Purchase Sub- Committee, Jhargram Raj College.
7. The Convener, U.G./P.G. Admission Committee, Jhargram Raj College.
8. The Post Master, Jhargram Post office.
9. College Notice Board.
10. The Convener, Website Sub-Committee, Jhargram Raj College with a request to upload this tender notice in the College website.


Principal
Jhargram Raj College.
Principal
Jhargram Raj College

List for Purchase Guide/Requisition in the Department of Zoology according to VU Course

Equipment	Justification	Approx. cost
1. Water distillation Unit (Borosil or others)	Preparation of reagents & blank for different practical	Rs 50,000/- (for 1.5 L – 8 L capacity for Borosil R) Rs. 15,000/- for Borosilicate
2. Sedgewick rafter Counting chamber (preferably chamber size 1000mm with 1 ml capacity, glass made with covering)	Observation & counting of phyto- & zooplankter	Rs 1000/- onwards
3. Plankton net (bolting Silk material, mesh size preferably 50-100 μ) with handle & collector	Collection of phyto- & zooplankter	Rs 400/- approx. (local made)
4. Digital Turbidity meter	Observation of turbidity of water body	Rs. 4000/- onwards for local
5. Portable Turbidity meter	Observation of turbidity of water body during field work	Rs. 25,000/- (Lutron or others)
6. Portable pH meter	Observation of pH of water body during field work	Rs 8,000/- onwards (Hanna or others)
7. Portable DO meter	Observation of dissolved oxygen of water body during field work	Rs 4,000/- approx. for local & Rs. 10, 000/- for branded like Lutron
8. LCD projector	Power point presentation study & also more ease of class teaching	Rs. 35,000/- (Epson)
9. Laptop	-do-	Rs. 30,000/-
10. Automatic rotary Microtome	Preparation of tissue section in histological study	Rs. 70,000/- onwards
11. Van Dorn bottle (2 liters capacity)	Sampling of water with prevailing currents at different depths	
12. Sahil's Haemoglobinometer (Labpro or others)	Estimation of haemoglobin of blood	Rs. 1500/- onwards
13. Haemocytometer	Estimation of blood cells of blood	-do-
14. Soil testing kit	Estimation of N, P, K of soil	Rs. 3000/- approx. for Luster leaf or any other company
15. Water testing kit	Estimation of various parameter of water for field purpose	Rs. 1800/- approx.
16. Ring cast net	Study of crafts and gear used in Fisheires	Rs. 3000/- approx.
17. Digital TDS meter	Study of total dissolved solids	Rs. 2500/- approx.

Rick 26/07/2020
Head
 Deptt. of Zoology
 Jhargram Raj College
 Govt. of West Bengal

18. GPS Tracker (Garmin or others)	Study of field technique	Rs. 15,000/-
19. Spotting Scope	-do-	
20. Range finder	-do-	
21. Tissue Homogenizer	DNA isolation & other practicals	
22. ELISA kit and ELISA reader	Estimation of plasma level of hormone	

Rick. 06/07/22

Head
 Deptt. of Zoology
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List of Consumables (chemicals glassware) to be purchased

Sl no.	Item	To be used for	Remark
1	Formaldehyde	Formalin , Bouin's fluid preparation	
2	Distilled water	„	
3	Absolute alcohol	Preservative	
4	Methyl alcohol	Substitute of 3	
5	DPX	Mounting media	
6	Xylene	Clearing agent	
7	Coverslip round	Mounting	Blue star
8	Coverslip square	„	„
9	Glycerin	„ media	
10	Picric acid	Bouin's fluid preparation	
11	Glacial acetic acid	„ acetoalcohol	
12	Mercuric chloride/Schaudinn's fluid	Schaudinn's fluid preparation	poison
13	Chloroform	Carnoy's fluid preparation	
14	Carmin powder	Acetocarmine	
15	Borax	Preparing borax carmine, ecology lab	
16	Ready made haematoxylin	Stain	
17	Eosin powder/readymade eosin solution	„	
18	Leishman powder/Leishman stain	„	
19	Methylene blue solution	„	
20	Orcein powder	„	
21	Acetic acid	Preparing orcein stain & other	
22	Iodine crystal	Gm stain	
23	Potassium iodide	„	
24	Platinum loop	Microbiology	
25	Potassium hydroxide	Scale, nephridia etc. study	
26	Sodium chloride	Ecology & parasitology lab	
27	Dissection box	Dissection	
28	Watchmaker forceps	„	
29	Triangular needle	„	
30	Watch glass (small + large)	„	Borosil
31	Glass funnel small	Titration, lab	„
32	Measuring glass cylinder 250 ml	„	„
33	Small beaker 100ml, 250 ml, 500 ml	„	„
34	Conical flask 250 ml, 500 ml	„	„
35	Burette 25 ml	„	Tarson
36	Burette stand	„	„
37	Burette clamp	„	„
38	Glass dropper	„	
39	Nonabsorbent cotton	„	
40	Pipette 1ml, 2ml, 5ml, 10 ml	„	Borosil
41	Test tube	„	
42	Burette stand	„	Tarson
43	Pipette stand	„	„
44	Test tube holder	„	

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45	Test tube rack	„	
46	Glass vial with cork	staining	
47	Staining vial with 5 slide capacity	„	
48	Rack for glass vial (staining)	„	
49	Petridish glass , small +large	Microbiology	
50	-do- plastic	„	
51	Slide holder		
52	Sodium thiosulfate	Ecology lab	
53	Spirit lamp glass	lab	
54	Rectified spirit	„	
55	Sulfuric acid	„	
56	Sodium hydroxide	„	
57	Plankton net	Ecology lab	
58	pH buffer capsule 4	Probe maintenance	
59	Potassium chloride	„	
60	Sodium sulfite	„	
61	Aluminium foil	„	
62	Methyl orange indicator	Ecology lab	
63	Phenolphthalein indicator	„	
64	EDTA	„	
65	Eriochrome black T	„	
66	Ammonia buffer	„	
67	Ammonium hydroxide	„	
68	Ammonium chloride	„	
69	Magnesium salt of EDTA	For complexometry	
70	Ammonia solution	„	
71	Gloves	lab	
72	Whatmann's filter paper	„	
73	Erlenmeyer flask /conical	„	Borosil
74	Carboxymethyl cellulose	„	
75	Glycerol monostearate	„	
76	Gelatin	„	
77	Sodium bicarbonate	„	
78	Monocalcium phosphate	„	
79	Sodium aluminium sulfate	„	
80	Sodium acid pyrophosphate	„	
81	Paraffin	Histology	
82	Acetone		
83	Cedarwood oil		
84	Carnoy's solution		
85	Picric Acid		
86	Bouin's fluid		
87	Mayer's albumin		
88	Lithium Carbonate		
89	Hydrogen Peroxide		
90	Canada Balsam		
91	DPX		
92	Potassium permanganate		

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JHARGRAM RAJ COLLEGE
DEPARTMENT OF PHYSIOLOGY

REQUISITION FOR INSTRUMENTS

SL NO	NAME OF INSTRUMENT	SPECIFICATION/MAKE
1	-200 C Freezer	Blue Star
2	BOD Incubator Shaker	REMI
3	Centrifuge	REMI-8C plus
4	Digital Spirometer	Inco
5	Digital Audiometer	BPL
6	Digital pH meter	
7	Electronic Weighing Machine	Wensar
8	Hand Grip Dynamometer	
9	Microplate Reader for ELISA	BIORAD
10	Microbial Hood	HI MEDIA
11	Microbial Glass Vacuum Filtration Unit	Merck Millipore
12	Ophthalmic Perimeter	Inco
13	Peak Flow Meter	Manual
14	Phase Contrast Microscope	Olympus
15	Pipetteman (Micropipette) 20-100, 20-200, 100-1000	TARSON
16	Pulse Oxymeter	BPL

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17	Semi Auto Analyzer	Merck
18	Skin Fold Calliper	INCO
19	Spectrophotometer	Double beam Systronics
20	Spirometer	Manual
21	Transfer Apparatus for Western Blotting	BIORAD
22	Vacuum Bath	Shree Sati
23	Vortex Shaker	SPINIX

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REQUISITION FOR CHEMICALS

SL NO	NAME OF INSTRUMENT	SPECIFICATION/MAKE
1	Acetone	
2	Ammonia	
3	Ammonium Chloride	
4	Ammonium di-Chromate	
5	Ammonium Hydroxide	
6	Ammonium Iron Sulphate	
7	Ammonium Molybdate	
8	Ammonium per Sulphate	
9	Ammonium Sulphate	
10	Ammonium Thiocyanate	
11	Amyl alcohol	
12	Aniline	
13	Benedict's Qualitative Reagent	E-Mark/SRL
14	Benedict's Quantitative Reagent	E-Mark/SRL
15	Benzoin	
16	Bromocresol Green	
17	Catalase enzyme	
18	Copper Acetate	
19	Copper Chloride	
20	Copper Sulphate	
21	Diastase enzyme	
22	EDTA	E-Mark/SRL
23	Eosine Y	E-Mark
24	Ethanol	
25	Ethyl Acetate	
26	Ferric Alum	
27	Ferric Chloride	
28	Ferrous Sulphate	
29	Glycerol	
30	Hydrochloric acid	
31	Hydrogen Peroxide	
32	Hydroxylamine Hydrochloride	
33	Lead Acetate	
34	Leishman Stain	
35	Manganous Sulphate	

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36	Methanol AR	
37	Methyl Acetate	
38	Nitric acid	
39	Oxalic acid	
40	Phenol	
41	Phenyl Hydrazine Hydrochloride	
42	Phosphoric acid	
43	Potassium Chloride	
44	Potassium Ferricyanide	
45	Potassium Hydrogen Tartarate	
46	Potassium Hydroxide pellet	
47	Potassium Permanganate	
48	Potassium Iodide	
49	Potassium Sulphate	
50	Potassium Thiocyanate	
51	Semi carbazide Hydrochloride	
52	Silver Nitrate	
53	Sodium bi Carbonate anhydrous	
54	Sodium bi Sulphate	
55	Sodium Carbonate	
56	Sodium Chloride	
57	Sodium di Hydrogen Phosphate	
58	Sodium Hydroxide	
59	Sodium Iodide	
60	Sodium Nitrate	
61	Sodium Sulphate	
62	Sodium thiosulphate	
63	Sulphuric acid	
64	Urea	
65	Xylol	

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REQUISITION FOR GLASSWARE'S

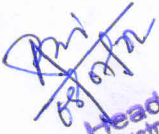
SL NO	NAME	SPECIFICATION/MAKE
1	Beaker (50,100,250,500,1000ml) Glass	BOROSIL/BOROSIL R
2	Burette (25 ml)	BOROSIL/BOROSIL R
3	Burette (50 ml)	BOROSIL/BOROSIL R
4	Burette Stand with Clamp	
5	Capillary Tube	
6	Conical Flask (25,50, 100,250,500 ml)	BOROSIL/BOROSIL R
7	Funnel (75 mm)	
8	Funnel (80 mm)	
9	Measuring Cylinder (50,100,250,500,1000 ml)	BOROSIL/BOROSIL R
10	Pipette volumetric (5,10 ml)	
11	Pipette Graduated (1,2,5,10 ml)	
12	Pasteur Pipette with tip	
13	Petri Dish Set	BOROSIL/BOROSIL R
14	Stoppered Bottles (25,50,100 ml)	BOROSIL/BOROSIL R
15	Test Tube (15 ml)	BOROSIL/BOROSIL R
16	Test Tube (50 ml)	BOROSIL/BOROSIL R
17	Volumetric Flask (50,100,250,1000 ml)	BOROSIL/BOROSIL R

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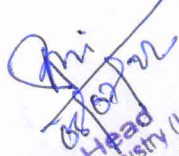
LIST OF CHEMICALS AND GLASSWARE
DEPARTMENT OF CHEMISTRY
JHARGRAM RAJ COLLEGE, 721507
2022

Sl No	Name of the items	Packaging/ Capacity	Quantity	Unit price (INR)	Price (INR)
Solvent					
1.	Methanol	25L	2		
2.	China ethanol	500 ml	20		
3.	Acetone (LR)	25 L	2		
4.	Ethyl acetate (LR)	25 L	2		
5.	Acetonitrile (AR)	2.5 L	2		
6.	Acetic Acid (AR)	2.5L	2		
7.	H ₂ SO ₄ (AR)	2.5 L	2		
8.	NHO ₃ (AR)	2.5 L	2		
9.	THF (AR)	500 ml	2		
10.	DCM	2.5L	2		
11.	Chloroform	2.5L	2		
12.	Petroleum ether	2.5 L	2		
13.	1,2 Dichlorobenzene	500 ml	1		
14.	Chlorobenzene				
15.	Nitro Benzene	500 ml	1		
16.	DMF	2.5 ml	2		
17.	DMSO	2.5 ml	2		
18.	DME	500 ml	2		
19.	Toluene	500 ml	2		
20.	Mesitylene	500 ml	2		
21.	HBr in Acetic Acid	500	2		
22.	o-xylene	500 ml	2		
23.	m-xylene	500 ml	2		
24.	p-xylene	500 ml	2		
25.	Nitromethane	500 ml	2		
26.	Isopropanol alcohol	500 ml	2		
27.	Diethyl ether	500 ml	6		
28.	1, 4-dioxane	500 ml	2		
29.	Styrene	500 ml	1		
30.	Acrylic acid	500 ml	1		
31.	benzoyl peroxide	100 ml	1		
32.	2,2'-azo-bisisobutyronitrile (AIBN)	100 g	1		
33.	Adipic acid	500 g			
34.	Ethane 1, 2-diamine				
35.	Urea	500 g			
36.	Formaldehyde	100 ml			
37.	Polyacrylamide				
38.	poly(vinyl alcohol)				
39.	Polyethylene glycol (600)	500 mg	1		
40.	Acrylonitrile				
41.	Glycine				
42.	vitamin-C				


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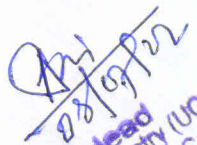
LIST OF CHEMICALS AND GLASSWARE
DEPARTMENT OF CHEMISTRY
JHARGRAM RAJ COLLEGE, 721507
2022

43.	Aniline			
44.	NBS			
45.	Methyl acetate (AR)	500 ml	2	
46.	H ₂ O ₂	1 lit	2	
47.	Anthracene	500 g	2	
48.	Naphthalene	500 g	1	
49.	Zn-Dust	500 g	2	
50.	Benzaldehyde	500 ml	2	
51.	CaH ₂	100 g	1	
52.	NaH	100 g	1	
53.	NaOH	500 g	5	
54.	KOH	500 g	5	
55.	LiOH	100g	1	
56.	Br ₂	100 ml	2	
57.	Trans-stilbene			
58.	Furan	100 ml		
59.	Maleic acid			
60.	Benzil	500 g	2	
61.	Thiamine hydrochloride			
62.	Resorcinol	500 g	2	
63.	Ethyl acetoacetate			
64.	K10-montmorillonite			
65.	Calcium nitrate	500 g	1	
66.	Acetanilide			
67.	Potassium bromide			
68.	Ceric ammonium nitrate			
69.	Benzophenone			
70.	Glacial Acetic Acid			
71.	Iodine			
72.	2-Naphthol			
73.	Cyclohexene			
74.	Sodium Tungstate			
75.	Potassium hydrogen sulphate			
76.	Aliquat 336			
77.	p-Anisaldehyde			
78.	Ethyl cyanoacetate			
79.	tetrabutylammonium tribromide			
80.	Ammonium formate			
81.	Chalcone			
82.	N-Methyl imidazole			
83.	n-Pentyl bromide			
84.	2-Amino-thiophenol			
85.	triethylamine			
86.	methyl chloroformate			
87.	NaCN			


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LIST OF CHEMICALS AND GLASSWARE
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2022

88.	Benzyl amine				
89.	Benzyl Chloride				
90.	Pyridine				
91.	Pyrrole				
92.	ZnBr ₂				
93.	Terephthalic acid				
94.					
95.	Cadmium Chloride				
96.	Caffeine				
97.	Calcium Chloride				
98.	1,4-Dichlorobenzene				
99.	Hydroquinone				
100.	Indicator Paper (pH 1-14)				
101.	Paraformaldehyde				
102.	Phenol				
103.	Silicon Oil	2. 5L			
104.	Silver Nitrate				
105.	Triethyl amine				
106.	Sodium Bicarbonate				
107.	Tartaric Acid				
108.	Oxalic acid				
109.	Thiamine Hydrochloride				
110.	Trichloroacetic Acid				
111.	Zinc Chloride, Anhydrous				
112.	Separator funnel with (19B)	250 ml	2		
113.	Separator funnel 19B	500 ml	2		
114.	Solvent distillation sets (Pressurequilliser) 19B	500 ml	2		
115.	Test tube	5 ml	2		
116.	Beaker	5 ml	100		
117.	Beaker	10 ml	100		
118.	Mortar and Pastel	100	1		
119.	Dropping Funnel	250	2		
120.	Desiccators	5 L	2		
121.	Desiccators	10 L	2		
122.	Single neck RB 19B st. joint	250 MI	5		
123.	Double neck RB 19B st. joint	250 MI	5		
124.	Condenser, Graham, Coiled Distillate type, Drip Tip Interchangeable Inner Joint & Interchangeable				


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**LIST OF CHEMICALS AND GLASSWARE
DEPARTMENT OF CHEMISTRY
JHARGRAM RAJ COLLEGE, 721507
2022**

	Outer Joint.				
125.	Condenser, Allihn, Drip Tip, Interchangeable Inner joint and Interchangeable Outer Joint.				
126.	Measuring Cylinder, , with Interchangeable Glass Stopper,	10 ml			
127.	Measuring Cylinder, , with Interchangeable Glass Stopper,	25 ml			
128.	Extraction Apparatus, Soxhlet Complete with Allihn Condenser, Interchangeable Joint.	200 ml			
129.	Culture media	10 ml			
130.	Thiamine hydrochloride	100g			
131.	TLC plate	2 pc			
132.	Silica Gel (mesh 100-200)	500g			

Ans
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Jhargram 721507

Jhargram Raj College
Department of Botany
Quotation-2022

Equipment

Sl.No	Name of the item	Size	Quantity
1	Bacteriological Incubator	600 ×600 ×900 mm	1
2	Laminar Air Flow	680×850×1760 mm	1
3	Steriobinocular Microscope With dedicated camera		1
4	Rotary vaccum evaporator	50ml/3000ml	1
5	Water Bath	20L	1

Chemical and Reagents

Sl. No	Name of the item	Packing/Capacity	Quantity
1	Borax AR	500gm	2
2	Bromothymol blue indicator	25gm	2
3	Chloroform LR	10L	1
4	Copper(II) sulfate pentahydrate AR	500gm	2
5	Diphenylamine LR	250gm	2
6	E D T A disodium salt, dihydrate AR	100gm	2
7	Phenolphthalein indicator solution	125ml	2
8	Ortho- phosphoric acid AR	500ml	2
9	Potassium chromate LR	500gm	1
10	Potassium iodide AR	100gm	1
11	Potassium permanganate AR	500gm	2
12	Silver nitrate LR	25gm	1
13	Sodium hydroxide pellets AR	500gm	3
14	Sodium iodide LR	250gm	2
15	Sulphuric acid AR	500ml	2
16	D(-) Fructose AR	500gm	2
17	Maltose LR	250gm	2
18	Sucrose AR	500gm	2
19	Urea AR	500gm	2
20	Copper sulfate AR	500gm	2
21	Potassium hydroxide pellets AR	500gm	2
22	Sodium acetate AR	500gm	2
23	Sodium acetate trihydrate AR	500gm	2
24	Acetic acid glacial AR	500ml	2
25	Sodium carbonate AR	500gm	2
26	Lead(II) acetate LR	500gm	2
27	Diethyl ether AR	10 L	1
28	Crystal violet indicator	125ml	10
29	Eosin water soluble	100 gm	2
30	Aniline blue	25 gm	2
31	Neutral red	25 gm	2

32	Malachite green indicator	25 gm	2
33	Fehling A	500 ml	2
34	Fehling B	500 ml	2
35	Tannic acid AR	500 gm	1
36	Ammonium molybdate AR	100 gm	1
37	Perchloric acid AR	500 ml	1
38	Chloroform HPLC	500 ml	1
39	Mercuric chloride AR	10 gm	1
40	Sodium lauryl sulphate AR	100 gm	2
41	Phenol AR	500 gm	2
42	Sodium chloride AR	500 gm	2
43	Iso propyl alcohol AR	500 ml	3
44	Agar agar LR	500 gm	2
45	Peptone LR	100 gm	2
46	Tris HCL pH 8.0 (Buffer)	100 gm	2
47	Magnesium Chloride AR	500 gm	2
48	Potassium Chloride AR	500 gm	2
49	Calcium Chloride LR	500 gm	2
50	Ammonium Acetate AR	500 gm	2
51	Ethyl Acetate HPLC	1L	10
52	Silica Gel G	500 gm	2
53	Bovine Serum Albumin Fraction V	5 gm	2
54	Calf Thymus DNA	100 mg	2
55	Glycerol	500 ml	2
56	Potassium Acetate	500 gm	2
57	Methanol	2500 ml	4
58	Oxalic Acid	500 gm	2
59	EtBr	1 gm	2
60	Sodium Acetate	500 gm	2
61	EDTA AR	500 gm	1
62	Tris-HCL AR	500 gm	1
63	Boric acid	500 gm	2
64	Tris base	500 gm	1
65	Sodium Citrate	250 gm	2
66	Sodium Bi Carbonate	500 gm	2
67	Sodium Pyrophosphate	500 gm	2
68	Gelatin	500 gm	2
69	Di Sodium Phosphate	500 gm	1
70	Ortho phosphoric acid	500 ml	2
71	Beta marcaptoethanol	100 ML	2
72	Magnesium sulfate,7H2O	500 gm	2
73	2,6-Dichlorophenol Indophenol	5 gm	2
74	MacConkry Agar	500 gm	1
75	Safranine	100 gm	2
76	Gram's iodine	500 ml	2
77	Sodium potassium Tartarate	500 gm	1

78	Folin & Ciocalteu's Phenol reagent	500 ml	1
79	Schiff reagent	125 ml	2
80	Periodic Acid	100 gm	1
81	Manganous sulphate.4H ₂ O	500 gm	2
82	Sodium thiosulphate anhydrous	500 gm	1
83	Starch	500 gm	1
84	Hydrochloric Acid Concentrated	500 ml	2
85	Tryptone-R	500 gm	1
86	CTAB Extration buffer	500 ml	1
87	ABTS	500 gm	1
88	Potassium Persulphate	500 gm	1
89	DPPH	500 gm	1
90	gallic acid	500 gm	1
91	ferric chloride	500 gm	1
92	TPTZ	500 gm	1
93	Ethanol	10L	1
94	Hexane	10L	1
95	Nitric Acid	500 ml	2
96	Trolox	5gm	1
97	Yeast Nitrogen Base Without Amino Acids	25 gm	1
98	TTC	10 gm	2
99	Lactophenol-cotton blue	500ml	1
	Glass Goods		
SI No	Name of the items	Capacity	Quantity
1	L Shaped Spreader		10
2	Micro Spin Magnetic Stirrer Bar	2*6 mm	1set
3	soft loop		100
4	inoculation loop		10
5	inoculation needle		10
6	Carboy with stop cock	10 L	1
7	Wash Bottle	250 ml	12
8	Pipettor Stand		5
9	Pasteur Pipette	1 ml	50
10	Spirit Lamp		20
	Repairing of Equipment		
1	Colorimeter		
2	Spectrophotometer		
3	Remi Centrifuge		

DEPARTMENT OF PHYSICS

Jhargram Raj College

Quotation for -2022

Sl. No	Name of Equipment	Rate per equipment	Quantity of Equipment To be purchased	Total
1	Set up to determine the Moment of Inertia of a Flywheel.(INCO)			0
2	Newton's Rings experiment(HO-ED-INT-01).			0
3	Setup to determine the Coefficient of Thermal Conductivity of Cu by Angstrom's Method.(DAS INDS)			0
4	Kit to build a 4-bit Counter using D-type/JK Flip-Flop ICs and study timing diagram.			0
5	Setup to determine the wavelength of laser source using diffraction of single slit(DEVCO)			0
6	Setup to determine the wavelength of laser source using diffraction of double slits (DEVCO)			0

7	Experimental setup for measurement of susceptibility of paramagnetic solution (Quinck`s Tube Method)(SES, QTX-01)			0
8	Setup to measure the Magnetic susceptibility of Solids.(SES,GMX-01)			0
9	Electromagnet for Magnetic susceptibility of Solids.(SES,GMX-01)			0
10	Experimental setup to verify the Stefan`s law of radiation and to determine Stefan`s constant.(INCO-CAT3092)			0
11	Babinet`s compensator to analyze elliptically polarized Light.(DEVCO)			0
12	Polarimeter to determine the specific rotation of sugar solution.(INCO-4229A)			0
13	Kit for amplitude modulation.(MICROTECH)			
14	Kit for study envelope detector for demodulation of AM signal			0

15	CRO to display the AM Signal(Analog, Scientific)			0
16	Kit to study FM - Generation and Detection(MICROTECH)			0
17	Determine output characteristics of a LVDT & measure displacement using LVDT(MICROTECH)		2	0
18	Setup to study the characteristics of a Thermostat and determine its parameters.(MICROTECH)			0
19	To measure the change in temperature of ambient using Resistance Temperature Device (RTD).(MICROTECH)			0
20	To measure Q of a coil and influence of frequency, using a Q-meter.(MICROTECH)			0

21	To plot the frequency response of a microphone.(MICROTECH)		1	0
22	Calibrate semiconductor type temperature sensor(LM35/AD590)			0
23	CRO to display the AM Signal(Digital, SCIENTIFIC, SN01002)		1	0
24	Laser optics lab kit with experiment Incuded. 1. diffraction 3. characteristic study of diode laser. 4. optical fiber. 5. opto electronics characterization, (HALMARC)			0
25	Polarization and total internal reflection of optics lab kit(Holmarc)			0
26	Absorption of light of various filter(Halmarc, HO-ED-LOL-01)			0
27	Hp printer (MFP M128fw Laser jet Pro)			0

28	HP 88A black cartridge			
29	He-Ne laser (2mW)			
30	Newton's Ring Experiment set-up			
31	Spectrometer (2/4 vernier)			
32	Digital storage Oscilloscope (200 MHz)			
33	Diffraction grating (8000 LPI)			
34	Diffraction grating (15000 LPI)			
35	1" equilateral Prism			
36	1.5" Equilateral prism			
37	Set-up for measuring Mechanical Equivalent of Heat by Callender and Barne's constant flow method			
38	Complete set-up for measuring boiling point of Aniline by Platinum Resistance Thermometer			
39	Complete set-up for measuring Coefficient of Thermal Conductivity of Cu by Searle's Apparatus			
41	Complete set-up to measure the Dielectric Constant of a dielectric Materials with frequency			
42	complete set-up for To determine the complex dielectric constant and plasma frequency of metal using Surface Plasmon resonance (SPR)			
43	Linear Film polarizer			
45	Complete set-up to determine the refractive index of liquid by total internal reflection using Wollaston's air-film			
46	UV-Visible spectrophotometer (300nm to 1100nm)			

47	Multiwave form Arbitrary signal generator			
49	Complete set-up to determine the absorption lines in the rotational spectrum of Iodine vapour			
50	True RMS A.C. Millivoltmeter			
51	Digital nano meter			
52	Regulated power supply			
53	Set-up for Dependence of Hall Coefficient on temperature			
54	Dual trace CRO (Scientific/Systronics/SES) 30MHz/20MHz (Digital)			
55	Function generator (Systronics/SES/Scientific)			
56	Gauss meter(SES Roorkee make)			
57	Regulated Power supply (0-30 V, 0-5A) variable type with (V & A) meter			
58	Regulated Power supply (0-10 V) variable type with/without volt meter			
59	Regulated Power supply (0-5 V) variable type			
60	Regulated Power supply (+12 to -12V) for OPAMP			
61	Regulated Power supply 2 volt constant type			
62	Audio oscillator (with variable frequency)(for Anderson bridge experiment)			
63	He-Ne LASER			
64	High voltage power supply for sodium vapour lamp			
65	High voltage regulated power supply for discharge tube			

66	Electromagnet for Hall effect experiment (Pole diameter 5cm)			
67	Search coil (1000 turns)			
68	Ballistic Galvanometer (Oxford/Inco make) (Time period 10-20s)			
69	Dead beat galvanometer (oxford/Inco make)			
70	Table galvanometer (Good Quality)			
71	Travelling Microscope(with horizontal and vertical scale)			
72	Resistance box(1-10000 Ω , 1-5000 Ω , 0.1-100 Ω , 0.1-10 Ω) Manganin/Constantan			
73	Rheostat (0-50 Ω / 0-100 Ω) (5A /1A)			
74	Carey Foster bridge(good quality with brass screw)			
75	Potentiometer (good quality with brass screw)			
76	a) Electric Heater b) Hot plate (with regulator)			
77	Heating Mantle (1L/2L) with regulator			
78	Boiler (Copper) (i) with side arm for steam exit (2L/1L) (ii) for Pt resistance thermometer			
79	Lamp and scale for ballistic galvanometer experiment			
80	Complete set for photoelectric effect study			
81				
82				
83				
84	Measurement of Planck's constant using black body radiation and photo detector			

85	Measurement of wavelength of LASER using single slit diffraction			
86	Study of V-I characteristics & Power curves of solar cells			
87	Electron spin resonance setup to study magnetic field as a function of frequency			
88	To show tunnelling effect in tunnel diode using V-I characteristics			
89	Determination of coupling coefficient of a piezoelectric crystal			
90	Study the variation of dielectric constant of a material with frequency			
91	To study the P-E hysteresis loop of a ferroelectric crystal			
92	Determination of Hall coefficient of a semiconductor sample			
93	To verify the law of Malus for plane polarized light			
94	To analyze elliptically polarized light by using Babinet's compensater			
95	To study the dependence of radiation on angle for a simple dipole antenna			
96	To study reflection, refraction of microwave			
97	Determination of the coupling coefficient of a couple pendulum			
98	Fortin's Barometer			
99	Digital balance (0-100gm) with precision 1mg			
100	a)Digital voltmeter (0-20/0-200V) b) Digital ac millivoltmeter			
101	Digital milliammeter (0-200mA)			

Column1

102	Digital microammeter (0-200 μ A)			
103	Digital multimeter			
104	Setup to study Zeeman effect			
105	Determination of wavelength and velocity of ultrasonic waves in a liquid (kerosene) by studying diffraction through ultrasonic grating.			
106	Ultrasonic transducer			
107	Q-meter			
108	Setup to study characteristic of MOSFET			
109	Setup to study characteristic of JFET			
110	GM counter			
111	Setup for measurement of thermal conductivity of a good conductor by Searle's method.			
118	Discrete components/ Items			
119	IC 741C/ 7404/7400/7410/7408/7411/7432/7476/7490/555/565			
120	Zener diode			
121	a) Junction diode b) Tunnel diode, c) LM 35, BC 107, LM565, NMOS, BF194, MC 1496, NE 566			
122	Capacitor (0.1, 0.01, 0.001 μ F)			
123	Resistance (22 Ω , 33 Ω , 68 Ω , 100 Ω , 680 Ω , 570 Ω , 1K, 2.2K, 10K, 100K, 47K, 22K)			
124	Transistor (SL 100/ CL100)			
125	Pot (0-10K Ω , 0-1M Ω , 0-10M Ω)/ multiturn(470K Ω)			
126	Bread board wire			
127	Bread board			
128	Copper wire with cotton wrapping (0.6/0.8mm dia)			

129	Tapping key			
130	Plug key (i) one way (ii) two way			
131	constantan wire			
132	Wire for electric Heater			
133	Bar Magnet (5cm,7cm, Alnico)			
134	a) Sodium vapour lamp b) Murcury vapour lamp			
135	Hydrogen discharge tube			
136	Helium discharge tube			
137	LED lamp (5W/9W)			
138	Table lamp			
139	Filament bulb			
140	Scooter bulb			
141	Two/Three pin plug			
142	Spirit level			
143	Spherometer			
144	Screw gauge (l.c = 0.001cm)			
145	Slide Calliperse			
146	Thermostat			
147	USB Flash drive 8GB			
148	Battery for multimeter			
151	Glass/Chemicals/Consumable			
152	Glass prism (60°)			
153	Grating (10000, 15000 lines/inch) Hilger			
154	Convex lens (f=10,15cm) b) Concave lens (f=15,20cm)			
155	Magnifying glass			
156	a) Planoconvex lens b) plane glass plate			
157	Biprism			
158	Polarimeter tube (20 cm)			
159	Beaker (1L,500ml)			
160	Measuring cylinder (10ml,25ml,50ml)			

161	Glass funnel (15 cm diameter)			
162	Round bottom flask with side arm (1L)			
163	Aniline			
164	Sucrose			
165	Naphtholin			
166	FeCl ₃			
167	Spirit lamp			
168	Methyleted spirit			
169	Mercury			
170	Robber tube(8mm dia)			
171	Graph paper (mm)			
172	Thermometer (-10 ⁰ -110 ⁰) with 0.1 ⁰ /0 .5 ⁰ calibration			
173	cotton			
174	Thistle funnel (length 30cm)			
175	Sand Paper			
176	Machine oil			
177	To determine the Coupling Coefficient of a Piezoelectric crystal			
178	Graph paper (mm)			