



E-63

A2/409/2023/GCK

Government College,
Kariavattom,

E-mail: principalgck@gmail.com
Phone : 0471 2417112

20.02.2024

SHORT TENDER NOTICE (02/ 2023-24)

Sealed Competitive Tenders are invited for the **Supply of Lab Equipments in Physics Departments in Government college Kariavattom during 2023-24**. The list of items to be supplied is attached along with this tender notice. The successful tenderers should deliver the items within 28 days from the date of supply order and as per the conditions specified.

The envelop containing the tender should bear the superscription "**Supply of Lab Equipments in Government college Kariavattom under plan fund 2023-24**" and should be addressed to "**The Principal, Government College, Kariavattom, Trivandrum, Pin- 695581**". The last date for receipt of tenders will be on **06.03.2024** at 2.30 pm. Late tenders will not be accepted. The tenders will be opened on **06.03.2024** at **3 pm** in the presence of the tenderers or their authorized representatives who may be present at that time. Intending tenderers may, on application to the Principal, Government College, Kariavattom obtain the requisite tender forms on which tenders should be submitted. Application for the tender form should be accompanied by cash remittance of **Rs.1000/-** which is the price fixed for form/set of form and which is not refundable under any circumstances. **18% GST(Rs 180/-) of the cost of tender form should be remitted by the tenderer and the receipt for the same should be produced**. The tender forms are not transferable. Tender forms will be issued on all working days from 10 am to 1 pm. Sale of tender form will be closed on **06.03.2024** at 1 pm. Those who wish to get tender form by post should sent money order for cost of tender form and with the receipt of the GST remitted along with self addressed envelop affixed with sufficient stamps for sending the tender forms by registered post. Cheque/postage stamps will not be accepted towards the cost of forms, nor will the forms be sent by VPP. Duplicate tender forms if required will be issued @ **Rs.500/-** per copy.

All the tenderers should execute **an agreement in Kerala Stamp Paper worth Rs.200/-** while submitting tender form (Vide page No.6 of the tender form) The Earnest Money Deposit (EMD) is required for **Rs 3000/-** and should be remitted by Demand Draft or Fixed Deposit Receipts. The right to accept or reject the Tender without assigning any reason to be vested with the undersigned. The undersigned will not be responsible for any postal delay or loss of tender forms.

Further details, if any, can be had from the College Office on all working days.

PRINCIPAL

Estimate cost : Rs.300000/-

Short tender : **Supply of Lab Equipments in Physics Department Government college Kariavattom during 2023-24.**

Total : Rs.300000/-

Note : If there is any variation in the acceptance of tax occurred then that will be applicable to those who collect the tender form at that time.

COLLEGIATE EDUCATION DEPARTMENT

PRINCIPAL, GOVERNMENT COLLEGE, KARIAVATTOM, TRIVANDRUM

PHONE: 0471 2417112, E-mail: principalgck@gmail.com

Website: <https://govtcollegiekariavattom.ac.in/>

Tender No- 02/2023-24/PLAN

20.02.2024

Short tender : **Supply of Equipments in Government college Kariavattom** during 2023-24.

Tender cost : **Rs 1000/-**

Estimated Amount : Rs.300000/-



Last date of sale of Tender : **06.03.2024 1 pm**

Receiving Tender up to : **06.03.2024 2.30 pm**

Opening of Tender : **06.03.2024 3 pm**

EMD : Rs.3000/- and Agreement in stamp paper worth 200 is required

Approval Valid

Digitally Approved By
Dr.  A.G.S
Date:  2024
Reason: Approved

Plan Fund 2023-24, Equipments

Equipments to be Purchased in Department of Physics, Government College Kariavattom

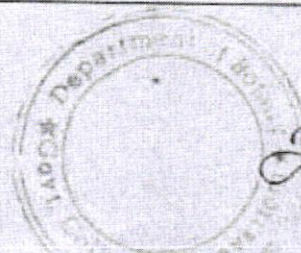
Sl. No.	Item	Quality/ Detailed Specification	Quantity Required
1	Barmagnet	1cmx2cmx5cm	5
2	Barmagnet	1cmx2cmx7cm	5
3	Bench Top pH meter	Range=-2.00 to 16.00 Resolution=0.01 Accuracy=±0.01 ph 3 calibration points Hold Function	1
4	Box type vibration magnetometer	Complete set up	2
5	Copper Connecting Wire Cotton Insulated (single stranded)	1 kg	1
6	Digital Multimeter	DC Current accuracy 0.5%, current range 0 -10A, DC Voltage 0-600V, REsistance accuracy +/- 1%, Resistance range 0 - 2Mohm	4
7	Fractional Resistance box	0.1,0.2 0.5 up to 2 Ohm/ 10 Ohm	2
8	Grating for Spectrometer	15000 lines/inch	6
9	IC 7400		10
10	IC 7402		10
11	IC 7404		10
12	IC 7408		10
13	IC 741		10
14	IC 7432		10
15	IC 7486		10
16	Laboratory Hot Air Oven (Digital)	Temp. range: 50 – 250°C (for continuous operation for 24 or more hours), Temp. accuracy = ± 1 degree°C, Digital microprocessor controlled LED display, with trays 220- 230V AC, Side heated.	1
17	Magnetometer Compass Box	with 10 cm Big Dial and Needle	5
18	Mercury Vapour Lamp	Complete set up with transformer, slit, power supply, etc.	3
19	Pelletiser/Hydraulic Press with Dies for pellet making	Hydraulic Press Pressure =15 ton or comparable, Dies made of Stainless steel, one die Diametre= 2 inch and the other dye with diameter 8 mm or comparable size (complete set).	1 Complete set
20	Prism (Flint glass)	Equilateral Glass Prism, one face grounded	5
21	Prism (Crown glass)	Equilateral Glass Prism, one face grounded	5
22	Resistance box	0 to 10000 ohm	2
23	Screw Gauge	LC 0.01mm, Head Scale 0 -100 div, SS	6
24	Searls vibration magnetometer apparatus	Complete set up	5
25	Sodium Vapour Lamp	Complete set up with transformer, slit, power supply, etc.	3


26	Spin Coater	Table top, Spinning Speed : 0 - 9999 RPM, Programmable : speed, acceleration, dwell time, no of steps etc, Good spinning speed accuracy	1
27	Standard resistance	1 ohm	5
28	Standard resistance	2 ohm	5
29	Standard resistance	3 ohm	5
30	Standard resistance	5 ohm	5
31	U - tube for Quincke's Apparatus	Good quality	3
32	Vacuum Desiccator (Laboratory Purpose).	With vacuum arrangement, stopcock with PTFE spindle, borosilicate/ quartz glass, with lid.	2
33	Vernier Callipers	LC 0.01cm, SS	5
34	Voltmeter	0 to 1 volt	6
35	Voltmeter	1 to 10 volt	6
36	Zener Diode	Break down voltage nearly 3,4,5 V	15

S. N. V. G.
 19/09/2023
 SANKHOSH C.

**PROPOSAL FOR THE PURCHASE UNDER PLAN FUND 2023-2024
DEPARTMENT OF BOTANY
GOVERNMENT COLLEGE KARIAVATTOM
NON CONSUMABLES (LABORATORY ITEMS-GLASS WARES)**

SL. no	Name of items	Unit Price	Quantity	Price approximate	Justifications
1.	Beaker(100ml)	200	05	1000	For conducting Botany Practicals
2.	Beaker(500ml)	250	03	750	
3.	Borosilicate Glass conical flask (500ml)	450	02	900	
4.	Borosilicate Petri Dishes (50x17mm)	250	10pkts	2500	
5.	Plain Glass slide	150	10	1500	
6.	Forceps large (12 inch)	75	2	150	
7.	Microscope Cover Glass square	100	20 pkts	2000	
8.	Plastic Trays (34 cm x 27 cm x 8 cm)	200	15	300	
9.	Brush	100	2pkt	200	
10.	Needle	100	2pkts	200	
11.	Plastic Wash Bottles (500ml)	140	20	2800	
12.	Watch glass	100	20	2000	
13.	Stain bottles (plastic)	60	30	1800	
14.	Tissue Paper	100	3 pkts	300	
15.	Polythene cover 12x16 inch	150	02 kg	300	
16.	Specimen bottle 500ml	200	50	10000	
17.	Specimen bottle 250ml	150	50	7500	
Total				34200	

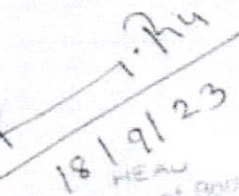



 18/19/23
 Department of Botany
 Government College Kariavattom

POPOSAL FOR THE PURCHASE UNDER PLAN FUND 2023-2024
DEPARTMENT OF BOTANY
GOVERNMENT COLLEGE KARIAVATTOM
NON CONSUMABLES (LABORATORY EQUIPMENTS)

Sl.No	Name of Item	Unit prize	Qty	Amount	Justification
1	Student Compound Microscope With Led Lighting Specification: Monocular Microscope rotatable head, mechanical tube length 160mm. 45 degree inclined with 360 degree. Co-axial focusing system. Objectives: Achromatic 4x,10x,45x and 100x oil immersion. Eye pieces: Huygenian 10x ,15x and 20x. Stage: fixed square stage 115 x115 mm with 2 spring mounted stage clips.). Built-in base illumination by LED with intensity control regulator and Battery backup , variolite transformer. Should with vinyl cover, duster, cleaning brush, filter, immersion oil and operating manual. Warranty not less than two years.	10000	10	100000	For conducting Botany Practicals
2	Student Compound Microscope Specifications: Monocular, Objectives: Achromatic 4x,10x,45x and 100x oil immersion. Eye pieces: Huygenian 10x ,15x and 20x., illumination by Mirror	3000	5	15000	
Total				115000	




 18/9/23
 HEAD
 Department of Botany
 Govt. College Kariavattom
 Kariavattom - 686502


Department of Zoology ,Government College Kariavattom
Plan Fund- Proposal 2023-24
Lab Equipments

Lab Equipment	Quantity	
1 Black paper Sheets A4 size	100	
2 Cover glass (Round)	5 pack	
3 Coverglass (Rectangle)	5pack	
4 Lancet	5 pack	
5 pH Paper	5	
6 Reagent bottle (250 ml) glass - with stopper	50	
7 Tissue paper roll lab grade 20m	10	
8 slide (Microscopic use)	10 pack	
9 Boiling tube glass 20 ml	25	
10 Test tube (10 ml) glass borosil	100	
11 Test tube-brush	30	
12 Burette stand stainless steel ,rod 10x50mm	10	
13 conical flask 500 ml borosil	30	
14 Student microscope light compou d	10	
15 spiritlamp with top cover (glass) -lab grade	20	


**DEPARTMENT OF BIOCHEMISTRY
GOVERNMENT COLLEGE KARIAVATTOM**

LIST OF EQUIPMENT TO BE PURCHASED UNDER PLAN FUND 2023-2024

No.	DETAILS OF EQUIPMENT	SPECIFICATIONS	QTY	UNIT PRICE (Rs.)	TOTAL	JUSTIFICATION
1	All Glass Double Distillation unit with Auto cut off unit	Borosil/Any other good quality brand	1	15000.00	15000.00	Distilled water is a necessity for all laboratory experiments and UG project
2	Hot air oven (Stainless steel, no. of trays-4)	Labline/Any other good quality brand	1	15000.00	15000.00	Necessary for drying test tubes and other glassware for doing all laboratory experiments
3	Digital photoelectric colorimeter with 8 filters	Systronics model 113 (Minimum volume 1ml)	4	9000.00	36000.00	Necessary for taking optical density measurements in all quantitative assays
4	Single-walled stainless steel boiling water bath	Labline/ Any other quality brand	6	2000.00	12000.00	Necessary for doing certain laboratory experiments under boiling temperature
5	Tissue culture hood (One-piece, corrosion-resistant, stainless steel fabrication with smooth radius coved corners) (laminar Air Flow)	Any good quality brand	1	20000.00	20000.00	Necessary for doing good quality basic research for BSc project


D. S. S. 14

6	Laboratory centrifuge	Remi	1	15000.00	15000.00	Necessary for doing certain clinical laboratory experiments
7	Analytical Electronic Balance (Accuracy 0.1 mg)	Shimadzu	1	30000.00	30000.00	Necessary for taking the accurate weight of costly biochemicals in all quantitative assays and UG project
8	Thermostat water bath (capacity 2 to 4 litres) (Stainless steel double walled)	Labline/ Any other quality brand	1	7000.00	7000.00	Necessary for doing certain laboratory experiments under controlled temperature
TOTAL AMOUNT LIMITED TO 150000/- (One lakh fifty thousand only)						


 Dr. S. N. T.

Govt. College Kariavattom
Department of Chemistry and Industrial Chemistry
Proposal for Lab Equipments 2023-24

Sl no	Item	No of Items	Specification	Amount (Rs.)
1	Heating mantle	2	1000 mL	3,200
2	degree celcius	1	Side heater, steel	29,390
3	Digital Analytical Balance	1	capacity 120g, line	75,000
4	Digital Melting point apparatus	1		5,900
5	UV lamp	1	Borosilicate	2,190
6	Pestle and mortar	1	Borosilicate	1,080
7	Beaker 100ml	5	Borosilicate	485
8	Burette stand with rod, clamp and boss head	2	Iron	1,200
9	Test tube 10ml	100	Borosilicate	360
10	Test tube 15ml	100	Borosilicate	560
11	China Dish 125mL	20	Clay	1,000
12	Vacuum pump with filtration assembly	1		14,000
13	Conical Flask with stopper 125ml	30	Borosilicate	2,430
14	Measuring cylinder 10ml	2	Borosilicate	96
15	Round bottom flask with condensor 250 mL	1	Borosilicate	900
			Total	1,37,791

[Signature]
15/09/23

M-39

A2/409/2023/GCK (IV)

ഗവ കോളേജ് കാര്യവട്ടം
Ph.No:04712417112
email-principalgck@gmail.com
20.02.2024

ലഘു ദർഘാസ് പരസ്യം (02 / 2023-2024) പ്ലാൻ

2023-2024 വർഷത്തേക്ക് കാര്യവട്ടം ഗവൺമെൻ്റ് കോളേജിൽ ഫിസിക്സ് ഡിപ്പാർട്ട് മെന്റിൽ ലാബ് ഉപകരണങ്ങൾ പർച്ചേസ് ചെയ്യുന്നതിനായി 300000/- രൂപയിൽ (മൂന്ന് ലക്ഷം രൂപ മാത്രം) അധികരിക്കാതെ വിതരണം ചെയ്യുന്നതിന് മുദ്രവച്ച മത്സരസ്വഭാവമുള്ള ദർഘാസുകൾ ക്ഷണിച്ചുകൊള്ളുന്നു. വിതരണം ചെയ്യാനുള്ള ഉപകരണങ്ങളുടെ പട്ടിക ഇതോടൊപ്പം ഉള്ളടക്കം ചെയ്യുന്നു. ദർഘാസിൽ വിജയിക്കുന്ന സ്ഥാപനങ്ങൾ 28 ദിവസത്തിനകം സാധനങ്ങൾ സപ്ലൈ ഓർഡറിലെ വ്യവസ്ഥകൾക്ക് വിധേയമായി ലഭ്യമാക്കേണ്ടതാണ്.

" പ്രിൻസിപ്പാൾ, ഗവൺമെൻ്റ് കോളേജ്, കാര്യവട്ടം, തിരുവനന്തപുരം" എന്ന വിലാസത്തിൽ ലഭിക്കുന്ന ദർഘാസുകളടങ്ങിയ കവറിനുമുകളിൽ "കാര്യവട്ടം ഗവൺമെൻ്റ് കോളേജിൽ ഫിസിക്സ് ഡിപ്പാർട്ട് മെന്റിൽ ലാബ് ഉപകരണങ്ങൾ പർച്ചേസ് ചെയ്യുന്നതിനുള്ള ദർഘാസ് 2023-24" എന്ന് രേഖപ്പെടുത്തിയിരിക്കേണ്ടതാണ്. വൈകി ലഭിക്കുന്ന ദർഘാസുകൾ സ്വീകരിക്കുന്നതല്ല. ദർഘാസുകൾ സ്വീകരിക്കുന്ന അവസാന തീയതി **06.03.24** 2.30 മണി വരെ ആയിരിക്കും. ദർഘാസുകൾ നൽകിയിട്ടുള്ളവരുടേയോ അവർ നിർദ്ദേശിച്ചിട്ടുള്ള പ്രതിനിധികളുടേയോ സാന്നിധ്യത്തിൽ അന്നേ ദിവസം ഉച്ചയ്ക്ക് 3.00 മണിയ്ക്ക് ദർഘാസുകൾ തുറക്കുന്നതാണ്.

ദർഘാസുകൾ എല്ലാ പ്രവൃത്തി ദിവസവും രാവിലെ 10 മണി മുതൽ 1 മണി വരെ കോളേജ് ഓഫീസിൽ നിന്നും ലഭിക്കുന്നതാണ്. ദർഘാസ് ഫോമുകളുടെ അവസാന വിൽപന **06.03.24** ഉച്ചയ്ക്ക് 1 മണി വരെ ആയിരിക്കും. ദർഘാസ് ഫോമുകളുടെ വില **₹1000 /-**. ദർഘാസിൽ പങ്കെടുക്കുന്ന സ്ഥാപനങ്ങൾ ദർഘാസ് ഫോമിന്റെ വിലയുടെ **18 %** ജി എസ് ടി (**RS 180/-**) ഒടുക്കി ആയതിന്റെ രസീത് ഹാജരാക്കേണ്ടതാണ്. ദർഘാസുകൾ തപാലിൽ ആവശ്യമുള്ളവർ ദർഘാസിൻറെ വിലയുടെ തുക മണിഓർഡറായും ജി എസ് ടി ഒടുക്കിയ രസീത് സഹിതം ആവശ്യമായ തപാൽ സ്റ്റാമ്പ് ഒട്ടിച്ച് സ്വന്തം മേൽവിലാസമെഴുതിയ കവർ സഹിതം അപേക്ഷിക്കേണ്ടതുമാണ്. ഡ്യൂപ്ലിക്കേറ്റ് ദർഘാസ് ഫോമുകൾ ആവശ്യമുണ്ടെങ്കിൽ 500 /-രൂപ നിരക്കിൽ ലഭിക്കുന്നതാണ്. ദർഘാസ് ഫോമുകൾ കൈമാറ്റം ചെയ്യാൻ പാടില്ല. ദർഘാസ് ഫോമിൻറെ വിലയായി ചെക്ക്, സ്റ്റാമ്പ് മുതലായവ സ്വീകരിക്കുന്നതല്ല.

ദർഘാസ് ഫോമിനോടൊപ്പം 200/- രൂപ മുദ്രപ്പത്രത്തിൽ തയ്യാറാക്കിയ കരാറും കുറഞ്ഞത് 3000 /- രൂപ നിരതദ്രവ്യവുമായി (പ്രിൻസിപ്പാളിൻറെ പേരിൽ ഡിമാൻ്റ് ഡ്രാഫ്റ്റ് എടുത്തത്) ഉള്ളടക്കം ചെയ്യേണ്ടതാണ്. കൂടുതൽ വിവരങ്ങൾ പ്രവൃത്തി ദിവസങ്ങളിൽ കോളേജോഫീസിൽ നിന്നും ലഭിക്കുന്നതാണ്.

അടങ്കൽ തുക : 300000/- രൂപ
കാര്യവട്ടം ഗവൺമെൻ്റ് കോളേജിൽ ഫിസിക്സ് ഡിപ്പാർട്ട് മെന്റിൽ ലാബ് ഉപകരണങ്ങൾ പർച്ചേസ് ചെയ്യുന്നതിനുള്ള ദർഘാസ് 2023-2024
ആകെ തുക : 300000/- രൂപ

കോളേജ് വിദ്യാഭ്യാസ വകുപ്പ്	
പ്രിൻസിപ്പാൾ, ഗവൺമെന്റ് കോളേജ്, കാര്യവട്ടം (ഫോൺ. 0471-2417112)	
E-mail : principalgck@gmail.com Website: https://govtcollegekariavattom.ac.in/	
ദർഘാസ് നമ്പർ - 02 / 2023-24 / പ്ലാൻ	തീയതി - 20.02.2024
ദർഘാസ് : കാര്യവട്ടം ഗവൺമെന്റ് കോളേജിൽ ഫിസിക്സ് ഡിപ്പാർട്ട് മെന്റിൽ ലാബ് ഉപകരണങ്ങൾ പർച്ചേസ് ചെയ്യുന്നതിനുള്ള ദർഘാസ് 2023-2024	
ദർഘാസ് വില -1000 /- രൂപ	
നിരതദ്രവ്യം -3000 /- രൂപ	
ഫോറം വിൽക്കുന്ന അവസാന തീയതി: 06.03.24 , 1.00 മണി	
ദർഘാസ് സ്വീകരിക്കുന്ന തീയതി: 06.03.24 , 2.30 മണി	
ദർഘാസ് തുറക്കുന്ന തീയതി: 06.03.24 , 3.00 മണി	
അടങ്കൽ തുക: 300000/- രൂപ (മൂന്ന് ലക്ഷം രൂപ മാത്രം)	
200/- രൂപയുടെ മുദ്രപത്രത്തിൽ എഗ്രിമെന്റ് സമർപ്പിക്കേണ്ടതാണ്.	

ഒപ്പ്-

പ്രിൻസിപ്പാൾ

Approval Valid

Digitally Approved By
 Dr. SANJANA A.G.S
 Date: 20.02.2024
 Reason: Approved



Plan Fund 2023-24, Equipments

Equipments to be Purchased in Department of Physics, Government College Kariavattom

Sl. No.	Item	Quality/ Detailed Specification	Quantity Required
1	Barmagnet	1cmx2cmx5cm	5
2	Barmagnet	1cmx2cmx7cm	5
3	Bench Top pH meter	Range= -2.00 to 16.00 Resolution=0.01 Accuracy=±0.01 ph 3 calibration points Hold Function	1
4	Box type vibration magnetometer	Complete set up	2
5	Copper Connecting Wire Cotton Insulated (single stranded)	1 kg	1
6	Digital Multimeter	DC Current accuracy 0.5%, current range 0 -10A, DC Voltage 0-600V, REsistance accuracy +/- 1%, Resistance range 0 - 2Mohm	4
7	Fractional Resistance box	0.1,0.2 0.5 up to 2 Ohm/ 10 Ohm	2
8	Grating for Spectrometer	15000 lines/inch	6
9	IC 7400		10
10	IC 7402		10
11	IC 7404		10
12	IC 7408		10
13	IC 741		10
14	IC 7432		10
15	IC 7486		10
16	Laboratory Hot Air Oven (Digital)	Temp. range: 50 – 250°C (for continuous operation for 24 or more hours), Temp. accuracy = ± 1 degree°C, Digital microprocessor controlled LED display, with trays 220- 230V AC, Side heated.	1
17	Magnetometer Compass Box	with 10 cm Big Dial and Needle	5
18	Mercury Vapour Lamp	Complete set up with transformer, slit, power supply, etc.	3
19	Pelletiser/Hydraulic Press with Dies for pellet making	Hydraulic Press Pressure =15 ton or comparable, Dies made of Stainless steel, one die Diametre= 2 inch and the other dye with diameter 8 mm or comparable size (complete set).	1 Complete set
20	Prism (Flint glass)	Equilateral Glass Prism, one face grounded	5
21	Prism (Crown glass)	Equilateral Glass Prism, one face grounded	5
22	Resistance box	0 to 10000 ohm	2
23	Screw Gauge	LC 0.01mm, Head Scale 0 -100 div, SS	6
24	Searls vibration magnetometer apparatus	Complete set up	5
25	Sodium Vapour Lamp	Complete set up with transformer, slit, power supply, etc.	3

26	Spin Coater	Table top, Spinning Speed : 0 - 9999 RPM, Programmable : speed, acceleration, dwell time, no of steps etc, Good spinning speed accuracy	1
27	Standard resistance	1 ohm	5
28	Standard resistance	2 ohm	5
29	Standard resistance	3 ohm	5
30	Standard resistance	5 ohm	5
31	U - tube for Quincke's Apparatus	Good quality	3
32	Vacuum Desiccator (Laboratory Purpose)	With vacuum arrangement, stopcock with PTFE spindle, borosilicate/ quartz glass, with lid.	2
33	Vernier Callipers	LC 0.01cm, SS	5
34	Voltmeter	0 to 1 volt	6
35	Voltmeter	1 to 10 volt	6
36	Zener Diode	Break down voltage nearly 3.4,5 V	15

Santhosh
 19/09/2023
 SANTHOSH C

PROPOSAL FOR THE PURCHASE UNDER ANNUAL PLAN FUND FOR THE YEAR 2023-24

DEPARTMENT OF BIOTECHNOLOGY

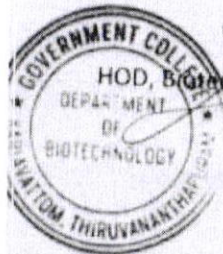
Purchase Head: Lab - EQUIPMENTS

Sl. No.	Items	Specifications	Quantity	Rate	Amount	Remarks
1	PAGE apparatus	Mini Gel Tank and Mini Blot module. For SDS PAGE, for protein electrophoresis combined wet Blot transfer apparatus, as a unit	1	1,50,000	1,50,000	Complete assembly- tank, electrodes, casting tray, combs, dry blot attachments, pads and plates, invitrogen make
2	Micropipettes- 4 types variable volume a) 2-20 uL b) 20-200 uL c) 100-1000uL d) 0.2-2 uL e) 1 to 10 ul	Precise volume calculation-	1 each	15,000 15,000 15,000 15,000 15,000	75,000	for regular lab, microbiology, immunology, animal biotechnology, PCR works, Thermo scientific/ invitrogen make
6	Orbital Platform shaker	Benchtop model with 25 slots to carry 250 ml conical flasks	1	10000	10000	for fungal culture and liquid bacteriological suspension cultures
7	Air Conditioner 1 Tons	For cure lab	2	30000	60000	For sensitive equipments, and culture room

8	Stabilizer	V Guard, for refrigerator	2	2500	5000	Highly demanded for preventing voltage fluctuations on cooler storage of temperature sensitive reagents and stock solutions, PCR enzymes and buffers.
TOTAL AMOUNT					3,00,000	

PURCHASE LIMITED AT A TOTAL AMOUNT OF RUPEES THREE LAKHS ONLY

Submitted

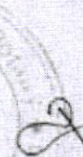


9.2.23
Dr. PS JAIRANI
 Assistant Professor & Head
 Department of Biotechnology
 Govt. College, Kariavattom
 Thiruvananthapuram - 695581

PROPOSAL FOR THE PURCHASE UNDER PLAN FUND 2023-2024
DEPARTMENT OF BOTANY
GOVERNMENT COLLEGE KARIAVATTOM
NON CONSUMABLES (LABORATORY ITEMS-GLASS WARES)

SL no	Name of items	Unit Price	Quantity	Price approximate	Justifications
1.	Beaker(100ml)	200	05	1000	For conducting Botany Practicals
2.	Beaker(500ml)	250	03	750	
3.	Borosilicate Glass conical flask (500ml)	450	02	900	
4.	Borosilicate Petri Dishes (50x17mm)	250	10pkts	2500	
5.	Plain Glass slide	150	10	1500	
6.	Forceps large (12 inch)	75	2	150	
7.	Microscope Cover Glass square	100	20 pkts	2000	
8.	Plastic Trays (34 cm x 27 cm x 8 cm)	200	15	300	
9.	Brush	100	2pkt	200	
10.	Needle	100	2pkts	200	
11.	Plastic Wash Bottles (500ml)	140	20	2800	
12.	Watch glass	100	20	2000	
13.	Stain bottles (plastic)	60	30	1800	
14.	Tissue Paper	100	3 pkts	300	
15.	Polythene cover 12x16 inch	150	02 kg	300	
16.	Specimen bottle 500ml	200	50	10000	
17.	Specimen bottle 250ml	150	50	7500	
Total				34200	

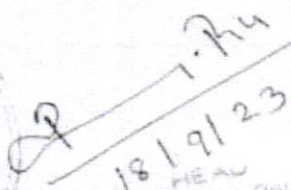



 18/9/23
 Department of Botany
 Kariavattom

POPOSAL FOR THE PURCHASE UNDER PLAN FUND 2023-2024
DEPARTMENT OF BOTANY
GOVERNMENT COLLEGE KARIAVATTOM
NON CONSUMABLES (LABORATORY EQUIPMENTS)

Sl.No	Name of Item	Unit prize	Qty	Amount	Justification
1	Student Compound Microscope With Led Lighting Specification: Monocular Microscope rotatable head, mechanical tube length 160mm. 45 degree inclined with 360 degree. Co-axial focusing system. Objectives: Achromatic 4x,10x,45x and 100x oil immersion. Eye pieces: Huygenian 10x ,15x and 20x. Stage: fixed square stage 115 x115 mm with 2 spring mounted stage clips.). Built-in base illumination by LED with intensity control regulator and Battery backup , variolite transformer. Should with vinyl cover, duster, cleaning brush, filter, immersion oil and operating manual. Warranty not less than two years.	10000	10	100000	For conducting Botany Practicals
2	Student Compound Microscope Specifications: Monocular, Objectives: Achromatic 4x,10x,45x and 100x oil immersion. Eye pieces: Huygenian 10x ,15x and 20x., illumination by Mirror	3000	5	15000	
Total				115000	




 18/9/23
 HEAD
 Department of Botany
 Govt. College Kariavattom


Department of Zoology ,Government College Kariavattom
Plan Fund- Proposal 2023-24
Lab Equipments

	Lab Equipment	Quantity	
1	Black paper Sheets A4 size	100	
2	Cover glass (Round)	5 pack	
3	Coverglass (Rectangle)	5 pack	
4	Lancet	5 pack	
5	pH Paper	5	
6	Reagent bottle (250 ml) glass - with stopper	50	
7	Tissue paper roll lab grade 20m	10	
8	slide (Microscopic use)	10 pack	
9	Boiling tube glass 20 ml	25	
10	Test tube (10 ml) glass borosil	100	
11	Test tube-brush	30	
12	Burette stand stainless steel ,rod 10x50mm	10	
13	conical flask 500 ml borosil	30	
14	Student microscope light compou d	10	
15	spiritlamp with top cover (glass) -lab grade	20	


**DEPARTMENT OF BIOCHEMISTRY
GOVERNMENT COLLEGE KARIAVATTOM**

LIST OF EQUIPMENT TO BE PURCHASED UNDER PLAN FUND 2023-2024

No.	DETAILS OF EQUIPMENT	SPECIFICATIONS	QTY	UNIT PRICE (Rs.)	TOTAL	JUSTIFICATION
1	All Glass Double Distillation unit with Auto cut off unit	Borosil/Any other good quality brand	1	15000.00	15000.00	Distilled water is a necessity for all laboratory experiments and UG project
2	Hot air oven (Stainless steel, no. of trays-4)	Labline/Any other good quality brand	1	15000.00	15000.00	Necessary for drying test tubes and other glassware for doing all laboratory experiments
3	Digital photoelectric colorimeter with 8 filters	Systronics model 113 (Minimum volume 1ml)	4	9000.00	36000.00	Necessary for taking optical density measurements in all quantitative assays
4	Single-walled stainless steel boiling water bath	Labline/ Any other quality brand	6	2000.00	12000.00	Necessary for doing certain laboratory experiments under boiling temperature
5	Tissue culture hood (One-piece, corrosion-resistant, stainless steel fabrication with smooth radius covered corners) (laminar Air Flow)	Any good quality brand	1	20000.00	20000.00	Necessary for doing good quality basic research for BSc project


D. S. S. S. S.

6	Laboratory centrifuge	Remi	1	15000.00	15000.00	Necessary for doing certain clinical laboratory experiments
7	Analytical Electronic Balance (Accuracy 0.1 mg)	Shimadzu	1	30000.00	30000.00	Necessary for taking the accurate weight of costly biochemicals in all quantitative assays and UG project
8	Thermostat water bath (capacity 2 to 4 litres) (Stainless steel double walled)	Labline/ Any other quality brand	1	7000.00	7000.00	Necessary for doing certain laboratory experiments under controlled temperature
TOTAL AMOUNT LIMITED TO 150000/- (One lakh fifty thousand only)						


 Dr. Smith

Govt. College Kariavattom
 Department of Chemistry and Industrial Chemistry
 Proposal for Lab Equipments 2023-24

Sl no	Item	No of Items	Specification	Amount (Rs.)
1	Heating mantle	2	1000 mL	3,200
2	degree celcius	1	Side heater, steel	29,390
3	Digital Analytical Balance	1	capacity 120g, line	75,000
4	Digital Melting point apparatus	1		5,900
5	UV lamp	1	Borosilicate	2,190
6	Pestle and mortar	1	Borosilicate	1,080
7	Beaker 100ml	5	Borosilicate	485
8	Burette stand with rod, clamp and boss head	2	Iron	1,200
9	Test tube 10ml	100	Borosilicate	360
10	Test tube 15ml	100	Borosilicate	560
11	China Dish 125mL	20	Clay	1,000
12	Vacuum pump with filtration assembly	1		14,000
13	Conical Flask with stopper 125ml	30	Borosilicate	2,430
14	Measuring cylinder 10ml	2	Borosilicate	96
15	Round bottom flask with condensor 250 mL	1	Borosilicate	900
			Total	1,37,791

[Signature]
15/02/23