

### त्रज्ञुग्।क्तुत्थःत्रहेंद्रःग्ऽ्याःश्वाःक्ष्रेंचःश्वे। SAMTSE COLLEGE OF EDUCATION



### STANDARD BIDDING DOCUMENT

# Supply of Science Lab Equipment, Items & Chemical items for 20252026



## Royal Government of Bhutan Ministry of Finance 2025



## यर्चैया.भ्रीज.पहूच.चार्श्च्या.जचा.ध्र्यूच.क्री

1	Package	1
2	Quotation	Supply of Science Lab Equipment & Items for 2025- 2026
3	Last date of submission	21 <sup>st</sup> July,2025 at 2.00pm
4	Place of submission	Office of Store In-Charge
5	Date of opening	4 <sup>th</sup> August, 2025 at 2.30pm
6	Place of opening	Conference Hall
7	EMD	Nu. 12000 (Twelve Thousand only)



## तर्चे ब.मैज.यहूष.बर्श्वा.जबा.ध्रृंच.क्री

#### SAMTSE COLLEGE OF EDUCATION







## पर्वेग.मैण.पह्रय.मश्चेग.णय.ध्रुंच.झी



SAMTSE COLLEGE OF EDUCATION

Ref: 37/SCE-Quot /2025-2026/ 49

21st July, 2025

The Manager Advertisement Division Bhutan Broadcasting Service Thimphu.

Sir/Madam,

The undersigned would like to request your office to kindly publish the following notice invititender in the BBS (English) on 21st July, 2025 and bill may be sent to us for payment:

#### SAMTSE COLLEGE OF EDUCATION NOTICE RE-INVITING TENDER

Samtse College of Education is pleased to invite sealed tender from the eligible license holders f the supply and services of the following item for the financial year 2025-2026.

Sl. No	Particulars	
1	Supply of Lab Equipment	

The bidding documents can be downloaded from our website http://www.sce.edu.bt of Samt College of Education. The last date for submission of tender is 4<sup>th</sup> August, 2025 at 12:00 PM at it will be opened on the same day at 2:30 PM.

For any further inquiry, please contact Administrative Section at 05-365274, during office hours.

The Manageme

Yours sincerely,

(Sonam Rinchen, PhD)
PRESIDENT

25: 05 365391(President) 365274 (Adm) 365363 (Fax) P.O Box No. 329 Visit us at <a href="https://www.sce.edu.bt">www.sce.edu.bt</a>

Samtse College of Education

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## पर्चिया.म्रीज.पहूष.याश्चितालया.ध्र्यूचःम्री

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## Supply of Science Lab Equipment, Items & chemical items for 2025-2026

#### TERMS AND CONDITIONS

- 1. The rates quoted shall be CIF Samtse College of Education for the **Supply of Science Lab Equipment, Items & Chemical items for 2025-2026**. Generally, the rates quoted shall be inclusive of all charges/levies/taxes which the suppliers shall bear.
- 2. The quotation should be accompanied by the valid trade license issued by the Ministry of Economic Affairs and the Tax Clearance Certificate issued by the Department of Revenue and Customs, Royal Government of Bhutan, as the enclosure. Quotation without a valid trade license and tax certificate as enclosure shall be rejected.
- 3. The tender shall be accompanied by an application to the PRESIDENT, Samtse College of Education.
- Sealed envelopes containing the quotation shall be marked Original and Duplicate in separate envelopes. The quotation will be opened in the Conference Hall, Samtse College of Education on 4<sup>th</sup> August 2025 at 2.30 PM.
- 5. The rates quoted shall be valid for a period of 12 months from the date of quotation.
- 6. Goods should be supplied within **50 days** from the date of issue of the purchase order.
- 7. Earnest money of Nu.12000.00 (Twelve thousand) only should be furnished in the form of Bank Draft in favor of the PRESIDENT, Samtse College of Education.

  Quotation without earnest money shall be rejected.
- 8. The College reserves the right to vary the quantity up to 10% on the same terms and conditions.





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- 9. All equipment supplied must be as per the specification and any fake item noticed shall be rejected, returned at the supplier's cost and shall be dealt with as per Clause 18 of the terms and conditions.
- 10. The College reserves the right to reject all or any tender without assigning any reason.
- 11. If the supplier fails to supply the required quality and quantity of goods, the College Administration will forfeit the earnest money and terminate the contract without any explanation and the supply order will be given to the next evaluated lowest bidder.
- 12. Failing to submit the quotation within the submission dateline shall be declared as 'late' and rejected. The same would be returned unopened to the supplier.
- 13. The rules and regulations for the establishment and operation of Industrial and Commercial ventures must be adhered to with regard to the establishment of license ventures.
- 14. The rates should be quoted against the specification provided and failing to quote in conformity with the specification shall be disqualified for evaluation.
- 15. The purchaser shall not be responsible for any damage, loss or due incident that occurred during the transportation. The supplier will be fully responsible for making them good at his own cost.
- 16. The supplier should have a warranty of one year from the date of delivery.
- 17. The supplier should be able to supply the material immediately during the time of emergency and if the bidder fails to supply the required material the bidder shall bear the expenses to purchase from another supplier for the College, Samtse.
- 18. The committee will directly reject the tender if the supplier supplies duplicate/fake or compromised material and the College Administration will forfeit the earnest money and terminate the contract without any explanation and the supply order will be given to the next evaluated lowest bidder.

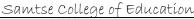




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- 19. If the selected bidder fails to supply the goods within the stipulated time, the liquidated damages of **Nu.0.1%** per day of the bill amount will be imposed.
- 20. Pursuant to the condition above, the second-lowest bidder at his quoted rate shall be asked to supply the goods after submitting performance security to the College Administration.
- 21. The performance security retained with the College shall be refunded to the concerned supplier after the completion of the supply of goods.
- 22. The College will process the bills for payment only upon complete delivery of the goods to the College.
- 23. Decision taken by the College Tender Committee will be final and binding.
- 24. In addition to the terms and conditions mentioned above, all other relevant regulations of the **Procurement Rules and Regulation 2025**, shall apply where specific mention is not made.







Physics Items Fiscal Year 2025-2026						
SI	Items	Description and details (minimum specification of goods to be supplied)	Unit of measu ement	Rate(nu)	Remark s	
1	Deflection Magnetomete r	Magnetic compass, 18mm thick laminated board (both side sun mica) with dimensions 40" x5"with suitable hole at the center for holding compass box.	Set			
2	Digital Stop Watch	LCD digital stop watch, 1/100second chronograph upto 23 hour, 59 mins,59seconds.AM/PM indicator.	No			
3	Digital Vernier Calipers	Caliper Measuring Tool with Stainless Steel, Electronic Micrometer Caliper with Large LCD Screen, Auto-Off Feature, Inch and Millimeter Conversion (6 Inch/150 mm)	No			
4	New simple closed circuit experiment box	It include single-pole double throw switch 3pcs. 5 battery case 6pcs. Light bulb holder 3pcs. U shape wire 10 pcs. Thickend package box and manual book.	Set			
5	Barlow's wheel	Input voltage:3-6V DC@3A, 8"x5"x7"(LxWxH)	No			
6	Bar Magnet	Pair of alnico bar magnets with keepers. Alloy steel 5cm long,N and S poles printed on the magnet.	Pair			



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7	Gold leaf electroscope	Rectangular case fitted with 4mm. Earthing socket, gold leaf support plate with one pair of leaves.	No	
8	Solar cell with motor	It consists of a simple puley,dia:16mm and capable of raising a mass of at least 4g. PE-237/17535	No	
9	Digital Balance	LCD Display, metal base, ABS Top housing stainless steel pan, glass draftshield with sliding top door, replaceable in- user cover, stainless steel weighing platform capacity 500gm) Kern Company.	No	
10	Colour mixture SV195	it concists of the following items: color mixer control box, Power adaptor,Six leds in circular frame,Circular frame with hole, Circular frame screen,U-channel bench 50cm, Object rider-3 Nos, Instruction manual.	No	
11	Dry cell Battery Holder	Profession for holding1.5v dry cells.maximum capacity 1.5v. Light in weight made of good quality plastic.	No	
12	Dry cell Battery Holder	Profession for holding 2x1.5v dry cells.maximum capacity 3v. Light in weight made of good quality plastic.	No	
13	Potentiomete r(10m wires)	Wooden base fitted with 4mm socket terminals, single wire and 100cm wooden scale.	No	



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14	Soldering rod	40W/60W, 110-220Volt with good quality metal	No	
15	Soldering lead	40-60 proportion	Roll	
16	Enameled Copper Wire	Corrosion resistant copper wires made in high precision environment, JAPSON	Roll	
17	Vernier or travelling microscope	This Travelling Vernier Microscope has calibrated movement in Horizontal and Vertical direction. The castiron heavy base has three levelling foot screws, one being fixed. The base Vee-top surface is machined to take a kinetically horizontal carriage, which supports vertical column. The carriage has vernier and a magnifier for reading.	No	
18	Joule's Calorimeter	Dimension (L*W*H) Size: Outer vessel wooden box: 15cm Dia approx.Inner vessel calorimeter copper:10cm Dia approx.	No	
19	Ammeter	0-3ADC case:ABS plastic case.	No	
20	Ammeter Double range	DC 0-1Aamp And 0-5amp.	No	
21	Micro ammeter	DC-0-250μA	No	
22	Milli ammeter	DC 0-15mA.	No	
23	Voltmeters	DC 0-10V	No	



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24	Voltmeters double range	0-5V and 0-15V	No	
25	Millivoltmete r	0-100mV	No	
26	Galvanomete rs	30-0-30 divisions. Sensitivity 2mA/division	No	
27	Galvanomete rs	10-0-10 divisions. Sensitivity 2mA/division	No	
28	Optical Bench	Optical bench with accessories complete. Length 1M, Double Rod m.s. chromed, 16mm diameter mounted rods. 2 fixed riders/saddles and 2 slow motion riders. Two lens holder for lenses up to 62mm diameter. A steel object needle. Mounted on a rod Dia 10mm and two metal feet with levelling screws.	No	
29	Optical Bench pin	Image/ object pin, steel	No	
30	Optical Lens holder with Base	All metal iron. Normal Size.	set	
31	Double pan Balance	0.1g to 2000gm capacity.	No	
32	Pendulum Bob	Made of Brass with Dia 20mm.	No	
33	Pendulum Bob	Made of Brass with Dia 13mm.	No	
34	Junction diode characteristic s app.	Box type with all accessories to study forward and reverse bias characteristics.	No	





35	Zener diode characteristic s app.	Box type with all accessories to study forward and reverse bias characteristics	No	
36	Transistor characteristic s app.	Box type with all accessories to study input, output and transfer characteristics of pnp and npn	No	
37	Magnetic field along the axis	0-16V DC continuously variable and stabilized	No	
38	Resonace Apparatus	It consists of chrome plated brass resonance tube 100 cm long mounted on a stand which is fitted with levelling screws.  The lower end of the tube is connected with a reservoir 250 ml by a rubber tubing, and a meter scale is mounted on a stand.	Set	
39	Assorted screw driver cum	Good Quality	Set	
40	Assorted pliers	Good Quality	No	
41	Rheostat	Wire wound rheostat, sliding type	No	
42	Right angle prism	Right angle prism with a cross section of 90°45°45°	No	
43	Spherometer	Made of Brass disc and scale with stainless steel. scale:10-0-10,Divisions: 100, Least count 0.1mm	No	





44	Spring Balance metal Body Rectangular	Scale Made of brass. Provided with rotational knob zero adjuster SG570-SG579. (Capacity 100g-10N)Sub division: 1gm-0.1N.	No	
45	Battery Eliminator	Curent:2A, Voltage: 0-12 V.	No	
46	Meter Bridge	Two gap one meter, nickel plated brass stripes, 4mm socket terminals, fitted on wooden base. Length 100cm with plastic scale. 100 cm of wire(4ohms/m) mounted on a wooden board with a meter scale with terminals and jockey.	No	
47	Surface Tension Apparatus/ Rising Table Apparatus.	Rising Table apparatus consists of metal frame having four capillary tubes of 10cm. Long and different internal diameter ares clamped with the help of small metal brackets. The 9mm. rod is also attached to metal plate, so that complete clamp can be held in any stand for determining the surface tension of liquid by capillary rise method. Its having a cast aluminium 4" dia table with adjustable stand. Maximum height capacity 12".	set	



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48	Sonometer wooden	It consists of a wooden resonance box, 111x10x8cm,(LxWxH), with 2 wooden ruler one meter long, subdivided in mm. one each brass and steel wires are attached to a fixed bridge and tension by the adjustment. Two movable bridge are provided. Pulley and hook are provided to enable a third wire to be fixed for tensioning of masses. one each brasses and steel wires are provided.	No	
49	Potentiomete r10 wires	Mounted on a polished 18 mm thick ply wooden board with teak wood colour sunmica on top.With 10 wires of SWG 24 connected in series, clamped under heavy.Brass strips of SWG 18 and fitted by screws in such a manner so that it is easily replaceable and has negligible.	No	
50	Magnetic compass in an aluminium case	Dia approx. 12mm, Type: both side transparent.	Set	
51	Tuning Fork	Provided with Set of 8 alloy steel tuning forks with frequencies 256-512Hz in a wooden box with wooden hammer.	Set	
52		IN 4001,	No	
53		IN 4002,	No	
	Diode			

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54		6A4 MIC	No	
55	Parallelogra m Apparatus	Parallelogram apparatus is used in measuring forces acting on a single point. It consists of a black board of around 650x500mm with 2 aluminium pulleys clamped at the top. A spool of thread passes through these pulleys. Three hangers are connected to the spool and carry different slotted weights.	No	
56	Spring constant apparatus	Spring Constant Apparatus is used to measure force by using Hook's law. It consists of a Retort stand on which a spring is clamped. The other end of the spring has a hook on which variable slotted weight of 100gm, 200gm, 300gm, 400gm and 500gm are attached. A vertically placed ruler then measures the extension of the spring.	Set	
57	Newtons craddle	Newton's cradle is a device, usually made of metal, that demonstrates the principles of conservation of momentum and conservation of energy in physics with swinging spheres.: Steel construction, balls made of stainless steel, stainless steel cables. Main structural profile: black steel.	No	



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58	copper calorimeter with wooden box and stirrer	Wooden box and Copper Calorimeter are used in the process of measuring the heat of chemical and physical reactions. It consists of Copper calorimeter of 75mm x 50mm resting on a felt pad inside a wooden polished box. Includes a brass nickle plated thermometer holder and copper stirrer.	Set	
	C	Consumable items.		
1	Cork	Without hole (rubber Top dia 30mm, Bottom Dia 26-48mm, Height 33-33.5mm) Assorted sets of 12 cork.	Set	
2	Concave mirror	focal length 15 cm	No	
3	Concave mirror	focal length 20 cm	No	
4	Concave mirror	focal length 25 cm	No	
5	Convex mirror	focal length 15cm	No	
6	Convex mirror	focal length 12cm	No	
7	Convex lens	focal length 10cm	No	
8	Convex lens	focal length 10cm	No	 _
9	Concave lens	focal length 15cm	No	
10	Concave lens	focal length 20cm	No	



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11	Helical spring Apparatus	The apparatus consists of a spiral spring about 25mm in diameter and 10cm long. The upper end of the spring is suspended from chuck-nut and lower and is provided with small pointer which moves over a vertical steel meter scale. The lower end is also provided with hook for carrying weights. All this setup is provided on a heavy metal base and with weights. Consist of: • Spring • Rigid support • Weight hanger. Slotted weights 50 g • Vertical steel scale • Fine pointer	No	
12	Helical spring	spring steel wire (0.5-11.2mm), 50 turns, 15-20cm long).	No	
13	Meter scale	50cm hard wood.	No	
14	Meter scale	100cm hard wood.	No	
15	Bulb Holder	Torch bulb Holder	No	
16	Magnifying lens	Metallic Handle, 75mm dial.  Magnefication: 3.5x	No	
17	Displacement can	Vessel Tin with spout( 115x50mm with overflow.	No	
18	Drawing Board	12" x18" superior quality softwood.	No	
19	Capacitor	10 V 220 Micro Farrad	Set	
20	Connecting Wires	Copper -SWG( Double Insulation)	Roll	
21	Digital Stop Watch	Digid display: 6digids, accuracy: ±0.01 sec. The digid display size 7mm. Start,stop and reset knobs necklace length 2feet apprpx.	No	



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22	Capillary tube apparatus( with rubber bungs)	It is used to measure the surface tension by capillary rise in a small bore tube. There are six glass capillary tubes of different bore sizes( 150mm long) ends ground flat. The capillaries are supported in a metal frame of size( 115x40x10mm)	Set	
23	Plastic syringe	Without needle polypropylene with a black rubber seal, graduatina are marked 0-60ml in 2ml increments.	No	
24	Glass slab	Rectangular glass slab. Dimwnsions: 75x50*12mm.	No	
25	Resistance Wire	Constantan (SWG 24,26,28,324 ohms/meter).	Roll	
26	Resistance Wire	Nichrome( SWG 24,26,28,32-4 ohms/meter).	Roll	
27	Fixed carbon Resistors	10Ω,100Ω,1ΚΩ,10ΚΩ. 0.25W.	Set	
28	NPN Transistors	2N2222, Max Voltage 40V, Max Current 800mA.	Set	
29	PNP Transistors	2N2907, Max Voltage 40V, Max Current 600mA.	Set	
30	Logic gae Integrated Circuit	CD4001, Quad NAND Gate.	Set	
31	Schottky diode.	1N5819, 40V	Set	
32	Small hubby DC motor	3V-12V, 1W-10W power, RPM 2000-10000RPM.	No	
33	Rotary potentiometer	1KΩ-1MΩ, Variable with a knob to adjust resistance, used in voltage dividers, adjustable voltage output, or control the brightness of LED.		



#### **SAMTSE COLLEGE OF EDUCATION**



	Quotation List for Chemistry Lab for Financial Year 2025-2026				
Sl. Nos	Particulars	Unit of measure ment	Specifation	Rate	Remarks
	CONSUMABLE ITEMS				
1	2- Methylpropan -2-ol	500ml	MERCK		
2	Acetaldehyde	500ml	MERCK		
3	Acetic acid	500ml	MERCK		
4	Acetone	250ml/5 00ml	MERCK		
5	Acetophenone	500ml	MERCK		
6	Aluminium Chloride	500g	MERCK		
7	Aluminium nitrate	500g	MERCK		
8	Ammoium dichromate	500g	MERCK		
9	Ammonium bicarbonate	500g	MERCK		
10	Ammonium chloride	500g	MERCK		
11	Ammonium Hydroxide	500g	MERCK		



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12	Ammonium Nitrate	500g	MERCK
13	Ammonium Solution	500ml	MERCK
14	Ammonium Thiocynate	500g	MERCK
15	Anhydrous Calcium Chloride	500g	
16	Aniline	500ml	MERCK
17	Baurite ore	500g	MERCK
1			
18	Benzaldehyde	500ml	MERCK
19	Beryllium carbonate	500g	MERCK
20	Bromobenzen e	500ml	MERCK
21	Brucine Sulfide	500g	MERCK
22	Butanol	500g	MERCK
23	Carbon Disulfide	500ml	MERCK
24	Calcium Chloride	500g	MERCK
25	Calcium Nitrate	500g	MERCK
26	Calcium powder	500g	MERCK
27	Chlorobenzen e	500ml	MERCK
28	Chloroform	500ml	MERCK
29	Copper sulphate	500g	MERCK



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30	Dolamite Powder	500g	MERCK
31	Dimethyl Pheylamine	500ml	MERCK
32	Diphenyl indicator	500ml	MERCK
33	EDTA	500g	MERCK
34	Eolochrome Black Tea	500ml	MERCK
35	Ethanol	500ml	MERCK
36	Ether	500g	MERCK
37	Ethyl Alcohol	500ml	MERCK
38	Felling solution B	500ml	MERCK
39	Ferric acid	500g	MERCK
40	Ferric Choloride	500g	MERCK
41	Ferric Sulphate	500g	MERCK
42	Ferric Nitrate	500g	MERCK
43	Ferrion indicator	500ml	MERCK
44	Glucose	500g	MERCK
45	Granulated Zinc	500g	MERCK
46	Hydrochloric acid	500ml	MERCK
47	Hydrogen Peroxide 30%	500ml	MERCK
48	Heptane	500ml	MERCK
49	Hexane	500ml	MERCK



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50	Iodine crystal	500g	MERCK	
51	Iodine Solution	500ml	MERCK	
52	Iodobenzene	500g	MERCK	
53	Isoprophyl alcohol	500ml	MERCK	
54	Iron tablets			
55	LAS	500g	MERCK	
56	Lime stone	500g	MERCK	
57	Litmus paper Blue		100leaves per pack.	
58	Litmus paper Red		100leaves per pack.	
59	Litmus solution red	500ml	MERCK	
60	Lucsus Reagent	500ml	MERCK	
61	Macroeticular resign	500g	MERCK	
62	Magnesium	500g	MERCK	
63	Magnesium Chloride	500g	MERCK	
64	Manganous Sulphate	500g	MERCK	
65	Manganese Dioxide	500g	MERCK	
66	M-Dinitro Benzene	500g	MERCK	
67	Methanol	500ml	MERCK	
68	Methyl acetate	500g	MERCK	
69	Methy Orange	500ml	MERCK	



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70	Methyl red indicator	500ml	MERCK	
71	Molish's Reagent	500ml	MERCK	
72	Nessler Reagent	500ml	MERCK	
73	Nitric acid	500ml	MERCK	
74	Oxalic acid	500ml	MERCK	
75	Petroleium either	500ml	MERCK	
76	Phenolphthale in	500ml	MERCK	
77	Phenol	500ml	MERCK	
78	Potassium chloroplatinat e	500g	MERCK	
79	Potassium Iodide	500g	MERCK	
80	Potassium Iodide Paper	per number	100leaves per pack.	
81	Potassium Permagganate	500g	MERCK	
82	Propanol	500ml	MERCK	
83	Propionic acid	500ml	MERCK	
84	Schiff's Reagent	500ml	MERCK	
85	Selenium Metal powder	500g	MERCK	
86	Siliver Nitrate	500g	MERCK	
87	Siliver Sulphate	500g	MERCK	
88	Sodium Bisulphate	500g	MERCK	





89	Sodium Carbonate	500g	MERCK
90	Sodium Hydrogen Sulfite	500g	MERCK
91	Sodium Hydroxide	500g	MERCK
92	Sodium Sulphide	500g	MERCK
93	Sodium Thiosulphate	500g	MERCK
94	Sodium Iodine	500g	MERCK
95	Starch Soluble	500g	MERCK
96	Strach paper		100leaves per pack.
97	Sulphuric acid	500ml	MERCK
98	Tollen's Reagent	500ml	MERCK
99	Universal Indicator Chart	per number	Good quality
100	Universal indicator paper		100leaves per pack.
101	Universal indicator solution	500ml	MERCK
102	Zinc Chloride	500g	MERCK
103	Zinc Nitrate	500g	MERCK
104	Zinc Sulphate	500g	MERCK
105	Zinc Sulphite	500g	MERCK
106	Zironyl chloride ocathydrate	500g	MERCK



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	GLASSWAR E & EQUIPMEN TS			
1	Ice box (medium size)	per number	5ltrs	
			10 Litre	
2	Digital Balance	per number	KERRO P7B, BL- 2204. Max: 220gm and Div- 0.1mg.	
3	Digital Multi meter set	per number	capable of measuring AC/DC voltage up to 1000 volts 4,AC/DC current up to 10Amperes 5,resistance up to 50 Mega Ohm 6 and measuring frequency up to 100KHz 7.	
4	Magnetic stirrer	per number	Capacity: 2-5 L, max temp.: capaable of operating upto 200 C(hot plate only), variable speed. Control cabinet finished: aluminium powder coated. Feature: included with hot plate. Complete accessories present.	



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5	Fume hood	per number	A front window sash made up of tempered glass that acts as a shield for theoperator against hazardous aerosols. A stainless steel sink installed inside the hood which is resistant to the	
			vapors, Colour: Various ,Size: 1200/1500/1800*800*2 350mm	
6	Stirring rod	sets or per number	This Stirring rod is made of soft flint glass, with both ends firepolished and rounded.Glass Stirring Rod 8".	
7	Silica crucible with lid	per number	Material: Silica, capacity: 50ml, Usage/Application: Chemical laboratory, Colour:White, Shape:Round, Packinging type: Box, Weight:110g, Temperature: 700 to 1100 degree celcius, Height: 33mm.	
8	Beaker(Brosil)	per number per number	50ml 20ml	



## यर्चैया.भैजायह्रय.याश्च्या.जया.श्च्रीय.की



		per number	1000ml
		per number	100ml
	Droppers(with graduation ,made of brosil)	per number	1ml
9		per number	10ml
		per number	25ml
		per number	5ml
10	Pipette Filler	per number	10ml
1		per	20ml
		number	
		per number	25ml



## यर्चैया.भैजायह्रय.याश्च्या.जया.श्च्र्या.क्री

#### **SAMTSE COLLEGE OF EDUCATION**



	Burette clamp	per	Practical holder	
	2 wrette eranip	number	for anchoring burettes	
		110,1110 01	vertically on the	
			support stand. • The	
			volume scale remains	
			clearly readable. •	
			Moulded in	
			Polypropylene making	
			it completely corrosion	
			proof	
11			• The spring	
			loaded jack in the middle provides a vice	
			like grip to the Burette	
			and prevents it from	
			slipping	
			Two tapered	
			wedges are provided to	
			ensure firm grip on	
			rods having dia 1/2" or	
			3/8"	
			(Ø 9,6 - 12,7 mm)	
	Clamps	per	EISCO CH0688 Labs	
1.0		number	Clamp Retort, 3 PVC	
12			Coated Prongs (opens	
			to 90mm in dia.) with	
			Boss Head	
	Volumatric	per	10ml	
	flask	number	25.1	
		per	25ml	
13		number		
		per .	50ml	
		number		
		per	100ml	
		number		
		per	500ml	
		number		



## यर्चैया.भीजायहूष.याश्चिताजया.धूर्याङ्गी

#### **SAMTSE COLLEGE OF EDUCATION**



14	Nitrile Chemical Resistant Gloves	per number	Durable, Protection against chemicals, diesel fuel, petrol and oil, Good anatomical fit applied for maximum comfort, 3-4 times longer life-span than equivalent vinyl/PVC gloves.	
15	Burette	10ml		
13		25ml	Brosil	
	Measuring Cylinder(brosi 1)	per number	5ml	
16		per number	1ml	
		per number	50ml	
		per number	25ml	
	Conical flask	number	250ml	
17		number	100ml	
		number	500ml	
18	Copper Wire	rolls	Insulated with threat, 20mtrs length.	
19	Nichrome wire with loop	per number	Alloys of nickel and chromium, 10 pcs per packet.	
20	Digital Thermometer	per number	0.01°C Sensitivity	
21	Thermometer	per number	0.01°C Sensitivity	
22	Tygon tubing	per number	12mm daimeter and 10 meter length	



#### **SAMTSE COLLEGE OF EDUCATION**



	Aspirator	per	Borosil	
23	rispirator	number	Dorosh	
	Gloves	sets/pkt	Cut Resistant, Heat	
24	310 ( 25	sets, pre	Resistant above 1500	
			1103334441 400 10 00	
			degree celsius, Flame	
			Resistant, Heat	
			Preservation. Size:	
			Free size and Wear	
			type: full fingered.	
25	Cork			
26	Cork Borer			
27	Capilary Tube			
21	(glass)			
28	Crucible tong	Sets/num	Stainless steel(50cm	
20		ber	long)	
29	Kipps	per	Kipps apparatus	
2)	apparatus	number		
30	Filter paper	rolls	Size 20cm	
	Calorimeter	Number	These styrofoam	
	cup		calorimeter cups (7.5	
			cm inside diameter, 10	
			cm deep) have 1.3 cm thick walls for	
125			excellent thermal	
123			properties. The lids	
			have a hole for a	
			temperature probe.	
			Includes set of six cups	
			with lids.	
126	Glass tough	Number	Borosil	
127	Ammeter	Number	Range from 0-5 amper	
1				



## यर्चैया.भैजायह्रय.याश्च्या.जया.श्च्र्या.क्री



	Fire safety	Per n or	Heat resistance,Fire	
	jacket for	sets	resistance, Woolen linen	
129	operating		attached, Easy to	
	Muffle		wash,Do not bleach and	
	furnace.		Shrink resistance	
	Face shield for	per	Size:53-63cm,Color:	
	operating	number	White,Blue,Green,Yell	
130	Muffle		ow,Orange,Material:Hi	
	furnace.		gh impact resistance	
			ABS and Visor	
	To at Table		Polycarbonate,8"	
131	Test Tube			
	Beush			
100	Spatula	sets or	stainless steel(20cm	
132		per	long)	
		number		
133	Sodium Metal	number		
134	Zinc Metal	number		
135	Potassium	number		
133	/metal			
	Pipette	number	25ml	
136				
130				



## রেরুग'র্ক্ট্রএ'রেইর'শার্ত্তুग'এন'র্ম্ব্রিন'র্ম্ব্রা SAMTSE COLLEGE OF EDUCATION



	Annual Quotation, Biology 2025-2026						
	Glassware and lab equipment						
SL. No	Particulars	Specification and brand	Unit of measurement	Rate (Nu)	Remark		

Samtse College of Education

: 05 365391(President) 365274 (Adm) 365273 (Office) 365363 (Fax) P.O Box No. 329



## यर्चैया.भीजायहूष.याश्चिताजया.धूर्याङ्गी

#### **SAMTSE COLLEGE OF EDUCATION**



1	Compound Microscope	Olympus, 10x & 15x -eye pc, objt. To total magification 10x - 675x in cabinet with lock & key, lens diaphram, dust cover and duster)	Per No	
2	Binocular Microscope	Olympus	Per No	
3	Binocular	Olympus	Per No	
4	Ganong's Potometer with wooden base	with strong wooden stand and borosilicate glass apparatus	Per No	
5	Centrifuge Round	Fitted with motor for vibration free performance & 5 step regulator. Elegant finish with powder coated paint. Works on 220V/230V AC . (15 mls x 8Tubes)	Per No	
6	Hot plate with Mangnetic stirrer	1.5 m of mains cable and one each coated magnetic stirring bars, 20 mm and 40 mm long with support rod	Per No	
7	Disectiong Microscope		Per No	
8	Retort Stand	with clamp and boss head, complete with retort ring.	Per No or set	
9	Rectangular Water bath( Double wall)	Outside made of mild steel with powder coated paint. Inside made of stainless steel.  Temperature is controlled by thermostate from Ambient temperarure to 80 degree celcious.	Per No	
10	Digital Balance	KERRO P7B, BL- 2204. Max: 220gm and Div- 0.1mg.	Per No	
11	Grid quadrat	one metre square	Per No	



## यर्चैया.भीजायहूष.याश्चिताजया.धूर्याङ्गी

#### **SAMTSE COLLEGE OF EDUCATION**



	3D Models:			
12	Brain (Model)	well labelded in English	Per No	
13	Animal Cell(Model)	well labelded in English	Per No	
14	Human Ear (model)	well labelded in English	Per No	
15	Eye Model	well labelded in English	Per No	
16	Plant cell model	well labelded in English	Per No	
17	DNA extraction kit (blood and tissues)	Qiagen, Invitrogen, promega or any other approved company	Per No	
18	Butterfly net	Insect and Butterfly Net with 14" Stainless Ring, 26" Net Depth, Strong Aluminum Telescopic Handle Extends to 39", Full	Per No	
19	Blade		Pkt	
20	Aspirator Bottle, Wide mouth, Graduated with stopcock & Handle	20liter	Polylab	
21	Measuring cylinder	Borosil	1000ml	
22	Measuring cylinder	Borosil	500ml	
23	Measuring cylinder	Borosil	250ml	
24	Measuring cylinder	Borosil	100ml	
25	Measuring cylinder	Borosil	50ml	
26	Measuring cylinder	Borosil	25ml	
27	Conical Flask	Borosil	250ml	



## यच्च्याः क्रियः यहिषः यार्श्वयाः ययाः श्रेतः स्रो

#### **SAMTSE COLLEGE OF EDUCATION**



28	Conical Flask	Borosil	200ml	
29	Conical Flask	Borosil	100ml	
30	Beaker	Borosil	800ml	
31	Beaker	Borosil	400ml	
32	Beaker	Borosil	200ml	
33	Beaker	Borosil	100ml	
34	Test tube rack for tube	16x150mm	Polylab	
35	Filter Paper	cat No 1001- 917(460mmx570mm,100/ sheets)	Whatman	
36	Filter Paper	42mm filters-pure quartsz, pure teflon	Bkmam	
37	Filter Paper	Diameter 125mm, whatman 42		
38	Filter paper(memberence filter)	(0.45 µm pore size)	whatman	
39	Utility Tray	Tarsons(LxWxH)mm(320x260x 70)	tarson	
40	Refrigerator	Mention brand	Per No	
41	Hand Gloves	Cut resistant, high performance level fire protection	Set	
42	Aluminium foil	Thickness 6-30microns, Silver color, food wrapping	Per Np or set	
43	Hamatology		Set	
44	Kick Sampler Net/ Triangular dip net	Frame size of 25x25cm, Mesh size- 0.5µm	Per No	
45	Surber sampler ( to collect the specimen/ organism from the water for research)	25x25cm with 0.05μm mesh	Per No	
46	Secateurs		Sets or No	
47	Sterilised lancet		Set	



## यर्चैया.भैजायह्रय.याश्च्या.जया.श्च्र्या.क्री



48	Soil Analysis Sieve	Stainless Steel,Mesh 2mm	Per No	
49	Tripod stand, superior/heavy 8" height, Iron black colour painted.	Mention brand or sample	Per No	
50	Spirit lamp		Per No	
51	Lens Cleaning Tissues	Brand -Nice	Per set	
52	Meter scale	Wooden, 100cm	Per No	
53	Ice Tray	Durable rigit ice tray, 600ML	Per No	
54	Soil testing Kit	For checking the pH, Nitrogen, Phosphorous & Potassium Availability in soil, (NICE).	Per No	
55	Water Testing kit	For the estimation of Total Hardness	Per No	
56	Water Testing kit	For the estimation of Total Alkalinity & PH	Per No	
57	Water Testing Kit	Estimation of Fluoride, Chloride & residual chlorine	Per No	
58	Specimen sorting Tray	Polythene laboratory white tray	Per No	
59	First Aids Box	Packed in a plastic with all necessary present.	Per No	
60	Cryotags	Round	Per No	
61	Polythene bag	Polythene	Per No	
62	Spring balance	With metric graduations, capacity 10kg	Per No	
63	Wash bottle	Polythene	Per No	
64	Field rain coat	Big and medium sizes, best quality	Per No	
65	Files (Reti)	Having three sizes	Per No	
66	Googles (spectacles)	Clear Hard Coat lens, (Meets ANSI z87.1-2010 standards)	Per No	
67	Mounting needle		Set or Pkt	



## यर्चैया.भीजायहूष.याश्च्या.जया.श्च्रीय.की

#### **SAMTSE COLLEGE OF EDUCATION**



68	Rubber tubing (8mm)		Roll	
69	Distilled Water	Demineralised water, Nice	L	
70	Wire gauge, with asbestos centre 6" x 6"		Set or Pkt	
71	Grafting tools		Set	
72	Filter paper (9.0 cm)		Roll	
73	Cover slips	Borosil	Set	
74	Hand lens	Magnification: 20x Power	Per No	
75	Cobalt chloride paper		Set	
2	Permenant Slide			
1	Plant cell	Clear and good quality	Per set	
2	Animal cell	Clear and good quality	Per set	
3	Mitosis stages( All)	Clear and good quality	Per set	
4	Meiosis stages(All)	Clear and good quality	Per set	
5	Bacteria	Clear and good quality	Per set	
6	Nerve cell	Clear and good quality	Per set	
7	Cardiac muscle	Clear and good quality	Per set	
8	Striated muscle	Clear and good quality	Per set	
9	Mammalian Pencras (T.S)	Clear and good quality	Per set	
10	Paramacium	Clear and good quality	Per set	
11	Amoeba	Clear and good quality	Per set	
12	Euglena	Clear and good quality	Per set	
13	Monocot steam	Clear and good quality	Per set	
14	Dicot steam	Clear and good quality	Per set	
15	Monocot leaf	Clear and good quality	Per set	
16	Dicot leaf	Clear and good quality	Per set	





17	Monocot root	Clear and good quality	Per set	
18	Dicot root	Clear and good quality	Per set	
19	Human bone cell	Clear and good quality	Per set	
20	Human blood cell	Clear and good quality	Per set	
21	Plasmodium	Clear and good quality	Per set	
22	macrophage	Clear and good quality	Per set	
23	Monocytes	Clear and good quality	Per set	
24	Neutrophil	Clear and good quality	Per set	
25	Basinophil	Clear and good quality	Per set	
26	Lymphocytes	Clear and good quality	Per set	
27	Gram Positive Bacteria	Clear and good quality	Per set	
28	Gram Negative bacteria	Clear and good quality	Per set	
	Preserve			
	Specimen			
1	Coral	Clear and good quality	Per No	
2	Flatworm	Clear and good quality	Per No	
3	Flying fish	Clear and good quality	Per No	
4	Gold fish	Clear and good quality	Per No	
5	Hookworm	Clear and good quality	Per No	
6	Horse tail	Clear and good quality	Per No	
7	Hydrilla	Clear and good quality	Per No	
8	Marchantia	Clear and good quality	Per No	
9	Obelia	Clear and good quality	Per No	
10	Pearl oyster	Clear and good quality	Per No	
11	Pinworm	Clear and good quality	Per No	
12	Planeria	Clear and good quality	Per No	
13	Sea anemone	Clear and good quality	Per No	
14	Sea cucumber	Clear and good quality	Per No	
15	Sea horse	Clear and good quality	Per No	
16	Sea lily	Clear and good quality	Per No	



## यर्चैया.भैजायहूष.चाश्च्या.जया.ध्र्या.क्री

#### **SAMTSE COLLEGE OF EDUCATION**



1.77	G 1:			
17	Sea urchin	Clear and good quality	Per No	
18	Sea weed	Clear and good quality	Per No	
19	Scorpion	Clear and good quality	Per No	
20	Snail	Clear and good quality	Per No	
21	Star fish	Clear and good quality	Per No	
22	Sting ray	Clear and good quality	Per No	
23	Sycone	Clear and good quality	Per No	
24	Hydras	Clear and good quality	Per No	
			· ·	<u> </u>
25	Spongilla	Clear and good quality	Per No	
26	fresh water sponge	Clear and good quality	Per No	
27	Liver fluke	Clear and good quality	Per No	
28	round worm	Clear and good quality	Per No	
29	Hookworm	Clear and good quality	Per No	
30	Pinworm	Clear and good quality	Per No	
31	Neries	Clear and good quality	Per No	
32	Herdmonia	Clear and good quality	Per No	
33	Amphioxus	Clear and good quality	Per No	
34	Balanoglossus	Clear and good quality	Per No	
35	Ascaries	Clear and good quality	Per No	
36	Tapeworm	Clear and good quality	Per No	
	Chemicals			
1	Acetic acid	MERCK	500ml	
2	Acetone	MERCK	500ml	
3	Acetocarmine	MERCK	250ml	
4	Agar Agar	MERCK	500g	
5	Alum	MERCK	250g	
6	Amylase	MERCK	250g	
7	Ammonium	MERCK	500~	
/	hydroxide		500g	
8	Aluminium	MERCK	500g	
9	Aluminium hydroxide	MERCK	500g	
	Hydroxide			



## यर्चैया.भैजायहूब.चार्श्वतालचा.धूंच.की

#### **SAMTSE COLLEGE OF EDUCATION**



10	Ammonia	MERCK	500ml	
11	Ammonium chloride	MERCK	500g	
12	Ammonium hydroxide	MERCK	500g	
13	Anti serum A, B & Rh (3 items)	MERCK	25ml	
14	Ammonium sulphate	MERCK	500g	
15	Auxin	MERCK	500g	
16	Barium chloride	MERCK	500g	
17	Barfoed reagent	MERCK	500ml	
18	Barium sulphate	MERCK	500g	
19	Benedict solution	MERCK	500ml	
20	Bials reagent	MERCK	250ml	
21	Canada balsam	MERCK	500g	
22	Calcium bicarbonate	MERCK	500g	
23	Calcium carbonate	MERCK	500g	
24	Calcium chloride	MERCK	500g	
25	Calcium hydroxide	MERCK	500g	
26	Calcium oxide	MERCK	500g	
27	Calcium powder	MERCK	500g	
28	Calcium sulphate	MERCK	500g	
29	Carbon disulphide	MERCK	500g	
30	Carbolic acid	MERCK	250ml	
31	cobalt chloride paper	MERCK	Bundle or set	
32	Copper carbonate	MERCK	500g	
33	Copper nitrate	MERCK	500g	
34	Copper oxide	MERCK	500g	
35	Copper sulphate	MERCK	500g	



## यर्चैया.भीजायहूष.चाश्च्या.जया.ध्र्यूच.की

#### **SAMTSE COLLEGE OF EDUCATION**



36	Copper turnings	MERCK	500g	
37	CuSO4 (crystals)	MERCK	500g	
38	Eosin dye	MERCK	500g	
39	Ethyl alcohol	MERCK	500ml	
40	Fehling solution:			
41	A	MERCK	500ml	
42	В	MERCK	500ml	
43	Ferric chloride	MERCK	500g	
44	Ferrous sulphate	MERCK	500g	
45	Formalin	MERCK	500ml	
46	Giemsa stain solution	MERCK	25ml	
47	Glucose	MERCK	500g	
48	Glycerine	MERCK	500ml	
49	Hydrochloric acid (conc.)	MERCK	500ml	
50	Hydrogen peroxide (30%)	MERCK	500ml	
51	Indistrial enzyme	MERCK	500g	
52	Indole Acetic acid	MERCK	25g/ml	
53	Iodine crystals	MERCK	500g	
54	Iodine solution	MERCK	250ml	
55	Iron filings	MERCK	500g	
56	Iron (II) sulphide	MERCK	500g	
57	Lead dioxide	MERCK	500g	
58	Lead monoxide	MERCK	500g	
59	Lead nitrate	MERCK	500g	
60	Leishman's stain	MERCK	25ml	
61	Litmus paper:			
62	Blue	MERCK	set	
63	Red	MERCK	set	
64	Litmus solution:			



#### **SAMTSE COLLEGE OF EDUCATION**



65	Blue	MERCK	500ml	
66	Red	MERCK	500ml	
67	Maltose	MERCK	250g	
68	Magnesium	MERCK	500g	
69	Magnesium bicarbonate	MERCK	500g	
70	Magnesium carbonate	MERCK	500g	
71	Magnesium ribbon	MERCK	500g	
72	Magnesium sulphate	MERCK	500g	
73	Manganese dioxide	MERCK	500g	
74	Mercury	MERCK	25ml	
75	Mercury oxide	MERCK	500g	
76	Methyl Red solution	MERCK	500ml	
77	Methyl orange solution	MERCK	500ml	
78	Methylene blue aqueous	MERCK	500ml	
79	Millions reagent	MERCK	500ml	
80	Neutral Red solution	MERCK	500ml	
81	Napthalene	MERCK	500g	
82	Nitric acid (conc.)	MERCK	500ml	
83	Pepsin	MERCK	500g	
84	pH paper (0-14 scale)	MERCK	Set	
85	Phenolpthalein	MERCK	500ml	
86	Potassium hydroxide	MERCK	500g	
87	Potassium iodide	MERCK	500g	
88	Potassium nitrate	MERCK	500g	



#### **SAMTSE COLLEGE OF EDUCATION**



89	Potassium Permanganant	MERCK	500g	
90	Red lead oxide	MERCK	500g	
91	Ribose	MERCK	500g	
92	Safferin blue	MERCK	500ml	
93	Seliwanoff's reagent	MERCK	500g	
94	Sodium bicarbonate	MERCK	500g	
95	Sodium carbonate	MERCK	500g	
96	Sodium chloride	MERCK	500g	
97	Sodium hydroxide	MERCK	500g	
98	Sodium metal	MERCK	500g	
99	Sodium nitrate	MERCK	500g	
100	Sodium nitrite	MERCK	500g	
101	Sodium sulphate	MERCK	500g	
102	Spirit	MERCK	500ml or L	
103	Starch	MERCK	500g	
104	Sucrose	MERCK	500g	
105	Sudan III Solution	MERCK	250ml	
106	Sulphur powder	MERCK	500g	
107	Sulphuric acid (conc.)	MERCK	500ml	
108	Universal indicator paper	MERCK	Set	
109	Universal indicator solution	MERCK	500ml	
110	Vaseline	MERCK	500g or kg	
111	Vinegar	MERCK	500ml	
112	Wax paraffin	MERCK	500g	
113	White petroleum jelly	MERCK	500g	
114	Wright's stain powder	MERCK	250g	



## यर्चैया.भैजायह्रय.याश्च्या.जया.श्च्र्या.क्री



115	Wright's stain solution	MERCK	250ml	
116	Xylene	MERCK	500ml	
117	Yeast powder	MERCK	500g	
118	Zinc (granulated)	MERCK	500g	
119	Zinc carbonate	MERCK	500g	
120	Zinc metal	MERCK	500g	
121	Zinc nitrate	MERCK	500g	
122	Zinc oxide	MERCK	500g	