

# Kanchrapara College

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ESTD : 1972

From :



P.O. : KANCHRAPARA  
DIST. : NORTH 24 PARGANAS  
WEST BENGAL, PIN-743145

Ref. No. : *KPC/PC/Tender/Instruments, chemicals/2022-126* Date : *06/05/2022*

## Notice

### Invitation of quotation for Instruments of various Departments of Kanchrapara College

1. Sealed quotations are invited from the registered vendors/agencies/farms for supply of instruments for various Departments of Kanchrapara College listed below (Annexure-I).
2. Tender may also download the list of instruments and Chemical from the website [http: ://www.kanchraparacollege.ac.in](http://www.kanchraparacollege.ac.in) and submit its quotation by utilizing the download document
3. Tenderers shall ensure that their tenders duly sealed and signed, complete in all respects as per instructions contained in the Quotation Documents, are dropped in the tender box located at the address given bellow on or before the closing date and time indicated in the table above. Falling which the tenders will be treated as late and reject.
4. In the event of any of the above mentioned dates being declared as a holiday/closed day for the purchase organization, the tenders will be sold/received/opened on the next working day at the appointed time.
5. The quotation documents are not transferable.
6. The undersigned has received the right to accept or reject the tender without any reason whatsoever.

Last date of submission of Tender/quotation paper	19.05.2022, up to 3.30p.m.
Place of receipt of Quotation	Tender Box, Front of Principal Chamber
Time and date of opening of Quotation	20.05.2022, at 3 p.m.
Place of opening of Quotation	Principal Chamber

*P. Bera*  
*06/05/2022*  
(Dr. Pranab kumar Bera)

**Principal**  
**Kanchrapara College**  
**Kanchrapara, 24 Pgs (N)**

## Annexure-I

### Department of Physics

Serial No.	Instruments
1	AM transmitter & Receiver kit
2	FM transmitter & Receiver kit
3	Stefan's law and Stefan's constant apparatus
4	Boltzmann constant apparatus
5	Polarizer & analyzer (Polaroids)
6	Malus law apparatus
7	Babinet's compensator
8	Deffraction through ultrasonic grating apparatus
9	Tunnelling effect in Tunnel diode kit
10	Work function of filament of vacuum diode apparatus

### Department of Chemistry

Serial No.	Instruments	Model
1	Digital Potentiometer	EI 118
2	Delux Digital pH meter	EI 101
3	Delux Conductivity meter	EI 601
4	Visible Single Beam Spetrophotometer	Systronics 166

### Department of Environmental Science

Serial No.	Instruments
1	Soil Profile: Model for demonstration
2	Arsine generator and absorber assembly for Gutzeit method for arsenic analysis (150 ml Borosil Conical with single U tube standard joint assembly)
3	Refluxing set [1 condenser + 1 Borosil round bottom 100 ml flask]
4	Water bath made from stainless steel

### Department of Molecular Biology & Biotechnology

Serial No.	Instruments	Specification
1	Micropipette Sets	Tarson T20, T100, T200, T1000
2	Mini Dual Vertical Electrophoresis Unit	Tarson (Code No. 7080)
3	Electrophoresis Power Supply Unit	Tarson (Code No. 7090)
4	Water bath 15 litre	Any Company Our MS-coated, inner stainless steel, temperature-ambient +5 degree C to 80 degree C,

		controlled thermostatically, 4 racks digital model, top domed lid, load indicator
5	pHep water proof pocket pH tester with 0.1 pH resolution-HI98107 SKU-HI98107	HANNA instrument
6	UV Spectrophotometer cuvette	Any company Quartz-volume 1 ml, path length 10 mm
7	Projector	Epson 3300 lumens Zebronic 3000 lumens, Zebronic 4000 lumens

### Department of Botany

Serial No.	Instruments
1	Pan balance
2	Digital pH meter (model no I-III)
3	Quantofix testing sticks, Nitrate-Nitrite
4	Distillation set wall hanging, Capacity-5 litre
5	Compound microscope
6	Digital balance
7	BOD incubator (4 cubic)

### Department of Microbiology

Serial No	Name of Items	Catalogue Number
1	HiPer® Ouchterlony Double Diffusion Teaching Kit (For Antibody Titration) Contents: Agarose, 10X Assay Buffer, Test Antiserum, Antigen, Glass plate, Gel puncher, Template 15pr	HTI003-15PR (HIMEDIA)
2	HiPer® Restriction Digestion Teaching Kit Contents: Lambda DNA, DNA Marker, Agarose, Enzyme EcoR I, Enzyme Hind III, 10X Assay Buffers, MB Grade Water, 50X TAE, Tubes, Gel Loading Buffer 10pr	HTBM015-10PR (HIMEDIA)
3	HiPer® Ligation Teaching Kit Contents: Digested Lambda DNA, Ligase Assay Buffer, T4 DNA Ligase, Gel Loading Buffer, Agarose, 50X TAE, Tubes 5pr	HTBM019-5PR (HIMEDIA)
4	Ethidium bromide solution (10mg/ml) For Molecular Biology 10ml	MB074-10ML (HIMEDIA)
5	W.B.C. Diluting Fluid (500ml)	R016-500ML (HIMEDIA)

6	HiPer® Transformation Teaching Kit Contents: Ampicillin, LB Broth, Agar powder, E. coli strain, Plasmid DNA, 1M CaCl <sub>2</sub> solution, Tubes, X-Gal, IPTG. 10pr	HTBM017-10PR (HIMEDIA)
7	HiPer® Bacterial Genomic DNA Extraction Teaching Kit (Column Based) 10pr	HTBM008-10PR (HIMEDIA)
8	Agarose Low EEO for molecular biology-25gms	36601 (SRL)
9	HiPurA® Plasmid DNA Miniprep Purification Kit Principle : Column Based Sample material: 1 - 5ml culture. <sup>[P]<sub>SEP</sub></sup> Total DNA yield : upto 20µg 20pr	MB508-20PR (HIMEDIA)
10	Orcinol Reagent 10gm	SRL
11	Ethanol (99.9%)	China
12	Aluminium Foil	-
13	EMB Agar 100gm	M317(HIMEDIA)
14	MSA 100gm	M118(HIMEDIA)
15	NaOH (Minimum Pack)	106462Merck
16	P-Nitrophenol extra pure (Minimum Pack)	100-02-7(Loba)
17	Rhizobium root	
18	Glass Spirit Lamp	
19	Non Absorbant Cotton	
20	Tissue Role	
21	Brown Paper	
22	Potassium sodium tartarate tetrahydrate purified	Minimum PackMerck
23	Spray Bottle	
24	Permanent mount of <i>Rhizopus</i>	
25	Permanent mount of <i>Penicillium</i>	
26	Permanent mount of <i>Aspergillus</i>	
27	Permanent mount of <i>Spirogyra</i>	
28	Permanent mount of <i>Clamydomonus</i>	
29	Permanent mount of <i>Plasmodium</i>	
30	Permanent mount of <i>Paramecium</i>	
31	Folin-ciocalteau	
32	KOH	Merck
33	KI	Merck
34	Plastic transparent dropper	
35	Micropipette stand	
36	α- Amylase (Minimum Pack)	RM638 (HIMEDIA)
37	Micropipette 10 µl, 100 µl, 500 µl, 1000 µl	Microlit

## Department of Food & Nutrition

	Equipment	Specifications
1	Laminar air flow	HEPA filter, Horizontal Dimensions (L×W×H)-2Ft×2Ft×2Ft
2	Vortex	Speed range- 200-3000 rpm Dimensions (L×W×H)-(20.5cm×15.1cm×13.1cm) Platform material-rubber Microplate tray for test tube and conical
3	BOD incubator	Dimensions (L×W×H)- (355mm ×355mm×355mm) Stainless steel thermostat bacteriological incubator
4	UV lamp	Philips UV disinfection lamp (minimum 11 watt)
5	Water bath	Double wall Thermostatic control (on, off switch; heating and mains indicators)
6	Swab sticks	Disposable swab sticks
7	Antibiotic Disc Dispenser	6 or 8 disc cartridges, for use with 90 mm diameter plates
8	Micropipette	Single channel variable volume (10-100µl and 100-1000µl)
9	Inoculating needles	
10	Glass spreader	
11	pH strips	
12	Spirit lamp	

### Terms and conditions:

1. GST rate should be mentioned in quotation.
2. GST registration number should be mentioned in quotation.
3. If any additional charges if required should be mentioned in quotation.
4. All materials should be new, good and standard quality of reputed brand.
5. Name of the company or brand of Instruments should be mentioned in quotation.
6. Warranty period and terms should be mentioned in quotation.
7. Lowest quotation may not be accepted, as issuance of work order is totally dependent on College authority.

*Zoology*

REQUISITION FOR THE DEPARTMENT OF ZOOLOGY

Sl.no.	Name of the Item	Specification of the item	Quantity
1.	Magnetic stirrer machine with stirrer	REMI	1
2.	Micro pipette	Tarson -2-20µl	2
3.	Micro pipette	Tarson -100-1000µl	2
4.	Tips	Tarson-20µl	1 box
5.	Tips	Tarson-1000µl	1 box
6.	Aluminium foil		
7.	Whatman filter paper		
8.	Eppendroff tube 1.5ml	Tarson	
9.	Eppendroff tube 20µl	Tarson	
10.	DNA isolation kit	Roche	
11.	Glycerol		
12.	Bromophenol blue		
13.	Xylene cyanol		
14.	Agarose	sigma	
15.	DNA ladder 1kb	MERK	
16.	EtBr	SIGMA	
17.	Ethanol		

sl.no.	CHEMICALS	BRAND	QUANTITY
1.	Silver nitrate	Merck	25 g
2.	Potassium chromate	Merck	500g
3.	EDTA	Merck /Bricca	100g
4.	Magnesium chloride	Merck / Sigma	50 g
5.	Calcium carbonate	Merck/ Sigma	50g
6.	Ammonium chloride	Merck	500g
7.	Ammonium hydroxide	Merck /Sigma	2 lt
8.	Erichrome black T	Merck	25g
9.	Hydroxylamine hydrochloride	Sigma	50g
10.	Methyl orange	Merck	25 g
11.	Phenolphthalein	Merck	25g
12.	Sulphuric acid	Merck	500ml
13.	Manganous sulphate	Merck/sigma	500 g
14.	Sodium hydroxide	Merck/ sigma	500 g
15.	Potassium iodide	Merck	100g
16.	Sodium thiosulphate	Merck	100g
17.	Starch	Merck/sigma	500g
18.	Sodium chloride	Merck/sigma	500g

Sl. no.	Name of the item	Specification of the items	Quantity
1.	Lensatic Compass	Coghlands 8164	
2.	Binocular	Celestron 71256 G2 10x50 Upclose	
3.	Spotting scope	LandScout 12-36X60mm Spotting Scope with Basic Smartphone Adapter	
4.	Range finder	Bushnell Trophy Xtreme Laser Rangefinder with ARC-	
5.	GPS Navigator	Garmin Etrex 10 Worldwide Handheld	
6.	Camera	Nikon D3500 W/AF-P DX Nikkor 18-55mm f/3.5-5.6G VR with 16GB Memory	
7.	Lenses	Nikon AF-S DX Nikkor 18-140mm F/3.5-5.6 G ED VR Zoom Lens	



Chemicals name	Make	Quantity
DNA isolation kit	Roche	1 (kit for 10-50 isolation) (depends)
For Gel		
Agarose for DNA electrophoresis	HIMEDIA laboratories	1 (10g)
Bromophenol blue	Sigma	1 (5g)
DNA ladder 1kb	Sigma/ Chromous	1 vial (500 $\mu$ l)/ 10 bands
EtBr	SIGMA	1 (1gm)
Ethanol	Generic/ Lobogens	1 (bottle of 500ml)
Tris-HCl	SRL	1 (500g)
EDTA (Ethylenediaminetetraacetic acid disodium salt dehydrate)	SRL	1 (500g)
HCl	SRL	1 (500ml)
NaOH (sodium hydroxide)	SRL	1 (500gm)
Glycerol	Generic	1 (bottle of 500ml)
pH paper	Qualigens	1

1. Acid and Alkaline phosphatase kit from Autospan.
2. Blood grouping kit.
3. Xylene 1lit.
4. Trypan Blue
5. NH<sub>4</sub>OH Solution 500 ml
6. Formalin 5lit
7. chloroform 500ml
8. Ethyle alcohol 500ml
9. Histological slide of spleen, thymus and lymph nodes
10. Slides to identify the life stages of: a) Trypanosoma gambiense, b) Schistosoma haematobium . c) Ancylostoma duodenale , d) Pediculus humanus.
11. Life stages of : a) Mosquito, b) various castes of Apis, c) Camponotus & d) Odontotermes.
12. Blotting Paper

13. Epithelio- chorial placenta (in slide)
14. Syndesmo-chorial placenta (in slide)
15. Endothelio-chorial placenta (in slide)
16. Haemo-endothelial placenta (in slide)
17. Bones :
  - a) Typical cervical vertebrae of cavia
  - b) Anterior and posterior thoracic vertebrae of cavia.
  - c) Atlas, axis, Femur , tibiotarsus and fibula of pigeon.
  - d) Limb bones of toad:- humerus, radius and ulna, femur, tibio-fibula

18. Aerial net 1 pcs
19. Sweep net 1 pcs
20. Aquatic/ Dip net 1 pcs
21. Aspirator 1 pcs
22. Suction trap 1 pcs
23. Malaise trap 1 pcs
24. Killing jar 2/3 pcs
25. Relaxing jar 2/3 pcs
26. Setting board 1 pcs
27. Insect pin Various size
28. Storage box



## **DEPARTMENT OF COMPUTER SCIENCE**

1.	8085 Microprocessor Kit with power supply-	ALS
2.	A/D & D/A Converter-	ALS(8085 Microprocessor Kit Compatible)
3.	IC Trainer Kit	MicroLab II
4.	Digital Multimeter ((Measures AC/DC Voltage, AC/DC Current, Resistance, Capacitance, Temperature, Frequency, Diode and Continuity Test.	Metravi
5.	16 segment display (CA & CC type)	
6.	11 segment display (CA & CC type)	
7.	7 segment display (CA & CC type)	

Requisition for the Department of Environmental Science

**Chemicals**

Sl. No.	Description	Quantity
1	Absorbent and non-absorbent cotton	10 rolls each
2	Acetone (Merck: 2.5 liter)	1
3	Lead acetate (Merck: 500 g)	1
4	Silver diethyl dithio carbamate (SDDC) (SRL, 5 g)	1
5	Zinc granule (Merck, 500 g)	1
6	Anthrone (Merck, 100 g)	1
7	Glucose (Merck, 100 g)	1
8	Sodium carbonate (Merck, 100 g)	1
9	Copper sulfate (Merck, 500 g)	1
10	Potassium sodium tartrate (Merck, 100 g)	1
11	Bovin serum albumin (fraction V; 5 g)	1
12	Folin-Ciocalteu reagent (Merck, 100 ml)	1
13	Ethanol (Merck, 100%, 500 ml)	2
14	Catechol (Merck, 500 g)	1
15	Chloroform (Merck, 500 ml)	1
16	Hexamethylenetetramine (Merck, 250 g)	1
17	Nutrient Agar (Merck,	100 gm
18	Lactose broth	100 gm
19	Durham tube	Box
20	Plastic tray (Medium: 1 feet length)	4 Pieces
21	Whatman 42 Filter Paper	1 Pkt
22	Petroleum Ether (60-80 degree C)	1 X 2.5 L
23	Separatory Funnel 500 ml complete set	2
24	Pipette Sucker	2 pieces
25	Staining Solution 500 ml	1
26	Dropper	5 Pieces

## Department of Molecular Biology & Biotechnology

### Chemicals

Sl. No.	Name of the Chemicals	Name of the company	Quantity
1.	EcoRI enzyme	SRL	4000 units
2.	DNA Ladder 1 kb	SRL	50 µg
3.	Isopropanol (Molecular biology grade)	Merck	500 ml
4.	Water Saturated Phenol	Merck	100 ml
5.	Calcium Chloride	Merck	250 gm
6.	Absolute Ethanol	China	2 bottles (450 ml each)
7.	Tris base	Himedia	100 gm
8.	Bromophenol blue	Merck	25 gm
9.	Fehling's A Solution	Nice	500 ml
10.	Fehling's B Solution	Nice	500 ml
11.	Benedict Reagent	SRL	500 ml
12.	Barfoed Reagent	SRL	250 ml
13.	Seliwanoff's Reagent	SRL	100 ml
14.	D- Glucose	SRL	100 gm
15.	EDTA	Himedia	100 gm
16.	Sodium Hydroxide	Himedia	100 gm
17.	SDS	Himedia	100 gm
18.	Potassium Acetate	SRL	100 gm
19.	Glacial Acetic acid	Merck	500 ml
20.	Chloroform (Molecular biology grade)	Merck	500 ml
21.	Sodium Acetate	SRL	100 gm
22.	Sodium Carbonate Anhydrous	SRL	100 gm
23.	Tollens Reagent	Nice	500 ml
24.	BSA	SRL	50 gm
25.	Agar Agar	Merck	500 gm
26.	Beta Mercaptoethanol	Himedia	100 ml
27.	Glycerol	SRL	50 ml
28.	Acrylamide	SRL	250 gm
29.	Bis-acrylamide	SRL	250 gm
30.	Glycine	Merck	500 gm
31.	Biuret Reagent	Himedia	100 ml
32.	Glucose Estimation Kit	Himedia	1
33.	Labolene	Qualigence	50 ml
34.	Microtips	Tarson	1000µl (1Box), 200µl (1 Box), 10µl (1 Box).

### Stationary Items

Sl No.	Item	Quantity
1.	Rubber Band	500 gm
2.	Absorbent Cotton	2 Pkts
3.	Blotting Paper	10 Pcs
4.	Black Tape	2 Pcs
5.	Weighing Paper	1 Ream
6.	Spatula	6 Pcs (Large to Small size)
7.	Laboratory Glassware Washing Brush	5 Pcs (Large to small size)

### Equipment

Serial No	Name of the Instrument	Company
1	Non convection Microwave (smaal)	IFB



**DEPARTMENT OF GEOGRAPHY**

SL.NO	ITEM NAME	NO.OF KIT
1.	Soil Testing Kit (pH,NPK)	3 Set



**Department of Microbiology**  
**Kanchrapara College**  
**List of Instruments for 2022-23**

Serial Number	Name of the Instrument	Company and Catalogue No.
1	Mini sub system: small model gel size 10×7 cm (for 8 samples) 1EA	GeNei 6470GB 03-01
2	Power Pack Mini Model 100, 150, 200, 250 V Fixed, 200 mA 1EA	106855GB 10-02 PS 200
3	UV Trans Illuminator	-
4	Non convection Microwave (small)	IFB
5	Digital Electronic Balance Machine 200gm×0.001gm capacity	Wensar, Capacity 200Gm, 0.001 specification
6	BOD Incubator(Digital temperature & RPM control), 115lit, 2 shelves, shaker unit inside, adjustable shelf	Researcher's pal
7	Monocular LED fit microscope(N.A. 1.25)	Instavision Ms
8	Binocular LED fit microscope	Instavision Binocular, Insta Bi LED

## **Department of Zoology**

1. Digital Paraffin incubator ss chamber 18inch X 18 inch X 24 inch 36 to 70 degree Celsius
2. Digital Egg incubator SS chamber with rotator 100 eggs capacity.
3. Digital Ph meter Wensar 3 point calibration model PH 10.
4. Digital weighing machine 0.0001 to 100gm, Citizen

## Requisition

### Department of Food & Nutrition

#### List of chemicals and equipment

Sl No.	Material	Specifications
1	Peptone, Bacteriological	HIMEDIA (RM001)
2	Beef extract powder	HIMEDIA
3	Yeast extract powder	HIMEDIA
4	NaCl	
5	Agar powder, Bacteriological Grade	HIMEDIA
6	Crystal violet	MERCK
7	Safranine	MERCK
8	Methylene Blue	MERCK
9	K <sub>2</sub> HPO <sub>4</sub>	
10	Eosin stain	ThermoFisher SCIENTIFIC (PRODUCT CODE: Q38613)
11	Na <sub>2</sub> SO <sub>3</sub>	
12	Basic fuchsin, Practical grade	HIMEDIA (GRM1089)
13	Tryptone Type-I	HIMEDIA (RM014)
14	Sodium citrate	
15	Sodium ammonium phosphate	
16	MgSO <sub>4</sub> , 7H <sub>2</sub> O	
17	KOH	
18	Ferrous sulphate	
19	Sodium thiosulphate	
20	Phenol red	
21	Ammonium dihydrogen phosphate	

22	Potassium phosphate Monobasic	
23	Sodium citrate	
24	Bromo Thymol Blue Indicator	HIMEDIA (I005)
25	Creatinine	
26	n-Amyl alcohol	HIMEDIA (RM4037)
27	p-Dimethylaminobenzaldehyde	
28	EMB agar	HIMEDIA (Material: MP317-50PT)
29	MacConkey agar	HIMEDIA (Material:MPH081-50PT)
30	Endo agar	HIMEDIA (Material:MP029-20PT)
31	Mannitol salt agar	HIMEDIA (Material:MPH118-50PT)
32	Mueller-Hinton agar	HIMEDIA (Material:MP173-50PT)
33	Nutrient Broth	HIMEDIA (Material:LQ083-50×5ML)
34	Casein hydrolysate	HIMEDIA (RM190)
35	Starch	HIMEDIA (GRM 428)
36	Sulphanilic acid, A. R.	
37	α-naphthylamine	
38	Pure Bacterial Culture <ul style="list-style-type: none"> <li>• <i>Staphylococcus aureus</i></li> <li>• <i>E. coli</i></li> <li>• <i>Basillus subtilis</i></li> <li>• <i>Enterobacter aerogenes</i></li> </ul>	
39	Immersion oil (For microscopy)	HIMEDIA(GRM225)
40	Whatman filter paper #1	

41	Filter paper	
42	Mortar pestle	
43	Spatula	
44	Durham tube (length:25-27mm;Diameter:6-7mm)	HIMEDIA (GW163)
45	Aluminium Foil	
46	Tissue roll	
47	Brown paper	
48	Absorbent cotton	
49	Non- Absorbent cotton	
50	Weighing paper	
51	Micropipette Stand	
52	<p>Micropipette</p> <ul style="list-style-type: none"> <li>• 10 <math>\mu</math>l</li> <li>• 100 <math>\mu</math>l</li> <li>• 500 <math>\mu</math>l</li> <li>• 1000<math>\mu</math>l</li> </ul>	
53	<p>Glass pipette</p> <ul style="list-style-type: none"> <li>• 5ml</li> <li>• 1ml</li> <li>• 0.1ml</li> </ul>	
54	<p>Concentrated and dilute</p> <ul style="list-style-type: none"> <li>• HCl</li> <li>• H<sub>2</sub>SO<sub>4</sub></li> <li>• HNO<sub>3</sub></li> </ul>	
55	Folin-Ciocalteu reagent	



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## List of Instruments

	<b>Instruments</b>	<b>Specifications</b>
1	Laminar air flow	HEPA filter, Horizontal Dimensions (L×W×H)- 2Ft×2Ft×2Ft
2	Vortex	Speed range- 200-3000 rpm  Dimensions (L×W×H)- (20.5cm×15.1cm×13.1cm)  Platform material-rubber  Microplate tray for test tube and conical
3	BOD incubator	Dimensions (L×W×H)- (355mm ×355 mm×355mm)  Stainless steel thermostat bacteriological incubator
4	UV lamp	Philips UV disinfection lamp (minimum 11 watt)
5	Water bath	Double wall  Thermostatic control (on, off switch; heating and mains indicators)
6	Swab sticks	Disposable swab sticks

7	Antibiotic Disc Dispenser	6 or 8 disc cartridges, for use with 90 mm diameter plates
8	Micropipette	Single channel variable volume (10-100µl and 100-1000µl)
9	Inoculating needles	
10	Glass spreader	
11	pH strips	
12	Spirit lamp	
13	Digital Colorimeter	Output Optical Density 0-1.99 Light source 6.2 V 0.3 Amp Display Type LED; Dimension: 225×230×150 mm