

**OFFICE OF THE PRINCIPAL:  
NETAJI SUBHASH CHANDRA BOSE COLLEGE, SAMBALPUR  
(GOVT. LEAD COLLEGE)**

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**QUOTATION CALL NOTICE**

**Notice No. 322 /NSCBC**

**dt. 20/2/23**

Sealed quotations are invited from the registered firm/authorized dealers/suppliers having valid GSTN, PAN and tax clearance certificates for supply/installation of laboratory Equipments, Chemicals, Glasswares, Specimen, Fixtures, fittings, renovation of the laboratories etc. They should quote their best prices including all taxes/ free delivery/installation and demonstration if any. **The sealed tenders must be prepared department wise and should reach the office of the undersigned on or before 06/03/2023 by 3:30 PM. through regd post/speed post.** Firms/dealers should visit the college website [www.nscbcollgesbp.in](http://www.nscbcollgesbp.in) for detail information. The authority reserves the right to reject or cancel any or all quotations without assigning any reason thereof.

*Sinalo Panda*  
sd/- 20.2.23

PRINCIPAL  
N.S.C.B. College, Sambalpur

### Terms and conditions

1. All quotations should reach the undersigned on or before 06/03/2023 by 3:30 PM in sealed cover superscribed with name of the department for which quotation is being submitted through regd post/speed post only.
2. The submitted quotations will be opened on 06/03/2023 at 4:30 PM in the office of the Principal in presence of the members of Purchase Committee and authorised agents of suppliers if any.
3. Quotations received after due date and time shall not be entertained. The institution is not responsible for any postal delay, holidays or any other reasons resulting in delay of submission/receipt of quotation beyond due date.
4. Quotations shall be submitted separately for individual department such as Physics, Chemistry, Botany and Zoology as per the list of items reflected in the website by the respective department for procurement.
5. A single quotation for different items of different departments shall not be accepted.
6. The price of each item against the commodity must be inclusive of all taxes with free delivery, installation and demonstration (if required).
7. The supplier should enclose xerox copies of all required documents i.e GST certificate, updated PAN, TAX clearance certificate etc.
8. After finalising the procurement process purchase order will be placed to selected bidder for supply of items at approved quoted rate.
9. Goods will be delivered to our college within 10 days from the date of issue of order letter. If the firm fails to supply within stipulated period, purchase order will be cancelled.
10. In the event of any loss, breakage or any shortage, the vendor shall be liable to make good such loss and shortage found at the checking/inspection of the items by the Purchase Committee.
11. Payment towards supply of items to this institution will be made through cheque/NEFT only after supply of the items to this institution **by due date** and successful installation, demonstration and verification and certification of the materials by quality experts at this end and also verification of bills by the Purchase Committee and Accounts Section.
12. The items included in the list is tentative and may not be procured while ordering as it is the sole discretion of the authority of the Principal.
13. The supplier should submit the quotations in the following format.  
Sl. No/ Name of the item/Brand name/ Unit cost including all taxes, free installation etc/ Other charges if any/ Total amount/remarks
14. The college will not be obliged to meet and have discussion with any vendor and or entertain any representation.
15. All disputes shall be subject to jurisdiction of the Sambalpur court.
12. The authority reserves the right to accept or reject any part or all the quotations without assigning any reason thereof.

*Sinaka Panda*  
20.2.23

LAB EQUIPMENT FOR UG PHYSICS PRACTICAL CLASSES

SL No	ITEMS	QUANTITY
1	Bar Pendulum Set	1
2	Stop Watch Digital	1
3	Reading Telescope	1
4	Katers Pendulum Set	1
5	Capillary Rise Set Up	1
6	Sextant Set Up	1
7	Modulus rigidity of spring set up	1
8	Moment of inertia of a flywheel set up	1
9	Set up of coefficient of viscosity of water by capillary flow method (poiseuillus method)	1
10	Modulus of rigidity of a wire by maxwells needle	1
11	RC Circuit Set up	1
12	Potentiometer	1
13	Cary Foster Bridge	1
14	Desautys Bridge	1
15	Andersons Bridge	1
16	LCR Circuit	1
17	Prism	1
18	Electric Running Fork and Meldos Experiment Set up	1
19	Zener doide (voltage regulator) Set up	1
20	Bipolar Junction Transistor(CE mode) Set up	1
21	RC Coupled Transister Set up	1
22	Thermo electric effect Apparatus LO Set up	2
23	Heat Capacity Kit (Model Mehek)	1
24	Solar Trainer Apparatus Model Mes-20	1
25	Laser Experiment Kit ( He - Ne Laser)	1
26	Planks Constant Kit using LED (Model MEP)	1
27	Dielectric Constant Kit for solid. ( Model MFR)	2
28	B-H Curve Unit Electronic Version Model MEBH-043	1
29	Universal B-H Curve Tracker (Model MEUNBH)	1
30	Stephan's Constrant Kit (Model MEST-01)	2
31	Boltzman Constant Kit (Model MEBCT)	1
32	CRO(Cathode Ray Oscilloscope) Analog 20 MHZ , Dual Trace Make Metravi	1
33	Laser Packages(Na & Hg source)	1
34	Gate packages(AND,OR,NOT,XOR Gate)	1
35	Elastic constant of a wire by Searl's apparatus set up	1
36	N-P-N Transistor set up	1
37	Tangent Galvanometer	1
38	Travelling Microscope	1
39	Digital Multimeter	1
40	Apparatus to verify the Thevnin & Norton theorms	1
41	Callender & Banne's constant-flow method Apparatus set up	1
42	Apparatus for half substractor ,full substractor,Adder substractor using full Adder I.C	1
43	Newton's Ring with Microscope	1
44	Platinum Resistance Thermometer	1
45	Babinet compensator	1
46	Polarimeter	1

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20.2.23

47	Wollastonsair film	1
48	Millikan oil drop apparatus set up	1
49	Spectrometer	1
50	Diffraction grating	1
51	Function Generator 1 Hz to 10 MHz with frequency counter	1

#### INFRASTRUCTURE FOR UG DEPARTMENT OF PHYSICS

SL No	Item	Quantity
1	Computer set up(ups, cpu and monitor)	5 set
2	Computer Table	5
3	Working Table	4
4	Demonstration Table with chair	1 set
5	Godrej Almirah	3

*S. P. Singh*  
20/12/2013  
for S.P. Singh  
HOD Physics

**LAB EQUIPMENT FOR UG CHEMISTRY PRACTICAL CLASSES**

SL. No	ITEMS	QUANTITY
1	Ostwalds Viscometer	1
2	Tensiometer(Surface Tension Measurement)	1
3	Digital pH Meter(Model : CL 180)Micro processor based.	1
4	Digital Conductivity Meter	1
5	Potensiometer with accessories.	1
6	magnetic bit(Teflon coated)	5
7	Vacuum Pipe Rubber	1
8	Glass Filter Apparatus Complete (Model code : 739220224)	1
9	Single Distillation unit(1.5 lit with inbuilt cut off system with reset botton)	1
10	Single Pan Digital Balance 300 gm( Model CG 302 0.01 gm)	1
11	Fire Extinguisher 4 kg	1
12	Air woven (12 inch X 12 inch) Inside chamber SS	1
13	Woven Kitchen Quality	1
14	Bunsen Burner	20
15	Chromatographic Jar ( Height 30cm and 10 cm in diameter)	1
16	Small ring stirror	1
17	Corks (small, midium, big)	1 set
18	Melting point apparatus	1
19	Thermostat	1
20	Muffle furnace	1
21	Clay pipe triangle	1
22	Desiccator	1
23	Thermos flask	1
24	Deware vacuum flask	1
25	Aspirator for chromatographic developer	1
26	Stalagmometer	1
27	Spectrometer single beam	1
28	Specifice Gravity Bottle	1
29	Pipatte 20 ml	40
30	Beckmann thermometer	5
31	Filter paper whatman No.1 (30 X 1.5 cm strip)	
31	Ball stick model Kit	2

*Smruti Panda  
20.2.23*

CHEMICALS FOR UG CHEMISTRY PRACTICAL CLASSES

Sl No	Name of the Chemicals	Quantity
1	Oxalic acid	500 gm
2	Sodium Carbonate	500 gm
3	Potassium dichromate	500 gm
4	Potassium permanganate	500 gm
5	Sodium bicarbonate	500 gm
6	Methyl orange indicator	500 gm
7	Phenolphthalein indicator	500 gm
8	Sodium Oxalate	500 gm
9	Sodium thiosulphate	500 gm
10	Ethanol	500 gm
11	Glycerine	500 gm
12	Acetone	500 gm
13	Acetic Acid	500 gm
14	Sodium acetate	500 gm
15	Lead (II) Iodide	500 gm
16	Potassium iodide	500 gm
17	Silver chloride	500 gm
18	Barium sulphate	500 gm
19	Glycol	500 gm
20	Glycerol	500 gm
21	Salicylic acid	500 gm
22	Nitroacetanilide	500 gm
23	Nitrophenol	500 gm
24	Formaldehyde	500 gm
25	Acetaldehyde	500 gm
26	Benzaldehyde	500 gm
27	Nitrobenzene	500 gm
28	Alcohols	500 gm
29	Formic Acid	500 gm
30	Acetic Acid	500 gm
31	Esters	500 gm
32	Phenols	500 gm
33	Acetamide	500 gm
34	Sodium Cyanide	500 gm
35	Sodium Sulphide	500 gm
36	Sodium Sulphocyanide	500 gm
37	Sodium Bromide	500 gm
38	Litmus paper	500 gm
39	Ferric chloride	500 gm
40	Ceric Ammonium Nitrite	500 gm
41	Sodium Metal	500 gm
42	Resorcinol	500 gm
43	Quinol	500 gm
44	Alpha Naphthol	500 gm
45	Beta Naphthol	500 gm
46	o- cresol	500 gm
47	p-cresol	500 gm

48	m-cresol	500 gm
49	Schiff's Reagent	500 gm
50	Fehling Solution	500 gm
51	Benedict's Solution	500 gm
52	Sodium Nitropruside	500 gm
53	Sodium Bisulphite	500 gm
54	2,4 dinitrophenyl hydrazine	500 gm
55	Silver Nitrate	500 gm
56	Aniline	500 gm
57	Acetic Anhydride	500 gm
58	Glacial Acetic Acid	500 gm
59	Zinc Dust	500 gm
60	Petroleum Ether	500 gm
61	Benzoyl Chloride	500 gm
62	Bromine	500 gm
63	Potassium Bromide	500 gm
64	Calcium Nitrate Tetrahydrate	500 gm
65	m-dinitrobenzene	500 gm
66	Powdered sulphur	500 gm
67	Copper Sulphate Pentahydrate	500 gm
68	Iodine	500 gm
69	Potassium Iodide	500 gm
70	Arsenous Oxide	500 gm
71	AR Grade Potassium Nitrate	500 gm
72	Ammonium Thiocyanate	500 gm
73	Ammonium Bisulphite	500 gm
74	Nickel Ammonium Sulphate	500 gm
75	Dimethyl Glyoxime	500 gm
76	Ammonia Solution	500 gm
77	Ferrous Ammonium Sulphate	500 gm
78	Cobalt Nitrate	500 gm
79	Ammonium Carbonate	500 gm
80	Ammonia( Liquor)	500 gm
80	Cobalt Chloride	500 gm
82	Nickel Chloride	500 gm
83	Alluminium Chloride	500 gm
84	2-Propanol	500 gm
85	Succinic Acid	500 gm
86	Benzophenone	500 gm
87	Diphenylamine	500 gm
88	Methyl Acetate (Pure)	500 gm

#### INFRASTRUCTURE FOR UG CHEMISTRY LAB

Sl No	Item	Quantity
1	Demonstration Table	1
2	High Leg Chair	2
3	Almirah	2
3	inverter	1
4	Freeze	1

*S.D.*  
20.2.23  
HOD Chemistry

**BOTANY DEPARTMENT  
LAB REQUIREMENT**

**SEMESTAR-1**

<b>CHEMICAL</b>		
SL NO	NAME	QTY
1	Distilled water	1
2	Glycine	1
3	Ethyl alcohol	1
4	Saffranin	1
5	Ethanol	1
6	Sucrose	1
7	Acetocarmine solution	1
8	Acetoorcein solution	1
9	HCL	1
	TOTAL	

<b>APPARATUS</b>		
SL NO	NAME	QTY
1	Electron microscope	1
2	Compound microscope	1
3	Ocular micrometer	1
4	Stage micrometer	1
5	Haemocytometer	1
	TOTAL	

<b>GLASSWARE</b>		
SL NO	NAME	QTY
1	Microslide	1pkt
2	Cover slip	2pkt
3	needle	2
4	Watch glass	1pkt
5	Pipettes	1pkt
6	Measuring cylinder,500ml	1
7	Measuring cylinder,300ml	1
8	Petridishes	1pkt
9	Spirit lamp	2
10	Squashing needle	1
	TOTAL	

<b>PERMANENT SLIDE</b>		
SL NO	NAME	QTY
1	Coleochaete	1
2	Fucus	1
3	Polysiphonia	1
4	Prochloron	1
5	Diatom	1
6	Nostoc	1
7	Chlamydomonas	1
8	Rhizopus asexual stage	1
9	Aspergillus asexul stage	1

*Smita Parida  
20.2.23*



10	Penicilium asexual stage	1
11	Albugo asexual stage	1
12	Rhizopus asexual stage	1
13	Aspergillus sexual stage	1
14	Penicilium sexual stage	1
15	Albugo sexual stage	1
16	T.S. of synangium of Psilotum	1
17	L.S. of strobilus of Selaginella	1
18	T.S. of rhizome of Equisetum	1
19	L.S. of sporocarp of Marselia	1
20	L.S. of strobilus of Lycopodium	1
21	w.m. of prothallus of Pteris	1
22	Young sporophyte of Pteris	1
23	Microsporophyll of Cycas	1
24	Megasporophyll of Cycas	1
25	T.S. of stem of Gnetum	1
26	Fossile slide	1
27	Marchantia antheridiophore	1
28	Marchantia archegonia	1
29	Marchantia l.s of sporophyte	1
30	L.S. of female cone of Pinus	1
31	L.S. of stem of Pinus	1
32	T.S. of root of Cycas	1
	TOTAL	

CHART PAPER		
SL. NO	NAME	QTY
1	T-phage of virus	1
2	TMV	1
3	Lytic lifecycle	1
4	Lysogenic life cycle	1
5	Types of bacteria	1
6	Binary fission	1
7	Endospore of bacteria	1
8	Congugation of bacteria	1
9	Root nodule of bacteria	1
10	Vegitative structure of Nostoc	1
11	Vegitative structure of Chlamydomonas	1
12	Reproductive structure of Nostoc	1
13	Reproductive structure of Chlamydomonas	1
	TOTAL	

### Infrastructure

Sl. No.	Item	QTY
1	Almirah	2
2	Lab. Table (8' X 4')	4
3	basin	2
4	Lab. Stool	32
5	Office Table (8' X 5')	1
6	Chair	4

## SEMESTAR-2

CHEMICAL		
SL NO	NAME	QTY
1	Liquid parafin	1
2	Chloral hydrate	1
3	Chorinated soda	1
4	Dichloroindophenol	1
5	Hydrogen peroxide	1
6	Sodium phosphate	1
7	Buffer solution	1
8	Sodium bicarbonate	1
9	KOH	1
10	Ammonium solution	1
11	Ninhydrin solution	1
12	Tyrosine	1
13	leucine	1
14	Aspartic acid	1
15	HCL	1
16	Isopropyle alcohol	1
17	IAA	1
18	Mercury	1
19	NaCl solution	1
20	Phenolphthalein	1

GLASSWARE		
SL NO	NAME	QTY
1	Conical flask	1
2	Digital balance	1
3	Beaker 100ml	1
4	Test tube	1pkt
5	Cellophane paper	1
6	Cheesecloth	1
7	Mira cloth	1
8	Foil	1
9	Blender	1
10	Filter paper	1pkt
11	Wilmott's bubbler	1
12	Glass rod	1
13	Compound balance	1
14	Weight box	1
15	Ganong's respirometer	1
16	Capillary tube	1pkt
17	Whatman NO1 paper	1pkt
18	Chromatography paper	1pkt
19	Splitcork	1
20	Narrow board glass tube	1
21	Farmer's potometer	1

APPARATUS		
SL NO	NAME	QTY
1	Centrifuge machine	1
2	Soil thermometer	1
3	Anemometer	1
4	Psychrometer	1
5	Hygrometer	1
6	Lux meter	1
7	PH meter	1

**SEMESTAR-3**

PERMANENT SLIDE		
SL NO	NAME	QTY
1	Parenchyme	1
2	Collenchyma	1
3	Phloem tissue	1
4	Xylem tissue	1
5	Dicot stem	1
6	Monocot stem	1
7	Dicot root	1
8	Monocot root	1

CHEMICAL		
SL. NO	NAME	QTY
1	Citric acid	1

**SEMESTAR-4****CHEMICAL**

SL. NO	NAME	QTY
1	Methylene blue	1
2	Diphenylamine reagent	1
3	Agar	1
4	Orcinol reagent	1
5	Ferric chloride	1

**APPARATUS**

SL NO	NAME	QTY
1	Blood test kit	1
2	UV spectrophotometer	1

**CHART PAPER**

SL. NO	NAME	QTY
1	Nucleic acid as a genetic material	1

**GLASSWARE**

SL NO	NAME	QTY
1	Motar and pastle	1

**SEMESTAR-5**

<b>CHEMICAL</b>		
<b>SL. NO</b>	<b>NAME</b>	<b>QTY</b>
1	Calcium sulphate	1
2	Barium chloride	1

<b>APPARATUS</b>		
<b>SL NO</b>	<b>NAME</b>	<b>QTY</b>
1	BODincubater	1
2	Herbarium press	1

SEMESTAR-6

PERMANENT SLIDE		
SL NO	NAME	QTY
1	Anatropus ovule	1
2	Orthotropus ovule	1
3	Amphitropus ovule	1
4	Circinotropus ovule	1
5	Unitegmis ovule	1
6	Bitegmis ovule	1
7	Tenuinucellate ovule	1
8	Crassinucellate ovule	1
9	Endothecium	1
10	Female gametophyte	1
11	Development of dicot embryo	1

CHART PAPER		
SL. NO	NAME	QTY
1	Tapetum-amoeboid, glandula	2
2	MMC spore tetrad	1
3	Development of anther	1
4	Pollen grain ornamentation	1
5	Ultrastructure of pollen wall	1
6	Egg apparatus	1
7	Structure of suspensor	1

APPARATUS		
SL NO	NAME	QTY
1	Laminarflow	1
2	Gel electrophoresis	1

CHEMICAL		
SL NO	NAME	QTY
1	Auxin	1
2	Inositol	1
3	Potassium acetate	1

Minati Chhabra  
 Asst. Prof. Lectr in Botany  
 HOD, Botany Department  
 Scanned with CamScanner

# DEPARTMENT OF ZOOLOGY

## SEMESTER-I

SPECIMEN			SLIDES			CHEMICALS			EQUIPMENT		
Sl. No.	NAME	QTY	Sl. No.	NAME	QTY	Sl. No.	NAME	QTY	Sl. No.	NAME	QTY
1	HYALONEMA	1	1	W.M. OF EUGLENA	1	1	ALKALINE IODINE SOLUTION	500	1	PLANKTONNET	4
2	EUPLECTELLA	1	2	W.M. OF AMOEBIA	1	2	SODIUM THIOSULPHATE	500	2	THERMISTOR THERMOMETER	1
3	SPONGILLA	1	3	W.M. OF PARAMECIUM	1	3	STARCH INDICATOR	500	3	PLASTIC TUBE 1MLONG 2.5 CM WIDTH	6
4	OBELIA	1	4	BINARY FISSION PARAMECIUM	1	4	COWC. SULPHURIC ACID	500	4	SCISSORS	3
5	AURELIA	1	5	CONJUGATION PARAMECIUM	1	5	OXALIC ACID SOLUTION	500	5	PVC CAP	3
6	TUBIPORA	1	6	T.S. OF (LS)SYCON	1	6	PHENOL PHTHALFIN	500	6	SECCHI DISK	2
7	GORGONIA	1	7	ANYCTENOPHORE	1	7	PHOSPHATE BUFFER	500	7	PH METER	1
8	METRIDIUM	1	8	LIFE CYCLE FASCIOLA HEPATICA	1	8	MAGNESIUM SULPHATE	500	8	PORCELAIN BASIN	6
9	PENNATULA	1	9	LIFE CYCLE TAENIA SOLIUM	1	9	CALCIUM CHLORIDE	500	9	OVEN	1
			10	LIFE CYCLE ASCARIS LUMBRICOIDES	1	10	FEBRIC CHLORIDE	500	10	DESICCATOR	1
						11	SODIUM SULPHATE	500	11	SUCTION FLASK	6
									12	FILTER HOLDER	6
									13	ANALYTIC	1
									14	CONICAL FLASK	6
									15	GLASS (500 ML) STOPPERED BOD BOTTLES	6
									16	PITETTES	1pkt.
									17	TITRATION APPARATUS	6
									18	BOD BOTTLES (300 ML)	3

## SEMESTER-II

SPECIMEN			SLIDES			CHEMICALS			EQUIPMENT		
Sl. No.	NAME	QTY	Sl. No.	NAME	QTY	Sl. No.	NAME	QTY	Sl. No.	NAME	QTY
1	APHRODITE	1	1	NEPHRIDIA OF EARTH WORM	1	1	MERCURIC CHLORIDE	500	1	SLIDES	4 pkt
2	NEREIS	1	2	T.S. THROUGH PHARYNX EARTH WORM	1	2	70% ALCOHOL	500	2	COVER SLIP	4pkt.
3	HIRUDINARIA	1	3	T.S. THROUGH GIZZARD CEARTH WORM	1	3	OSMIC ACID	500	3	NEEDLE	1 pkt
4	CHAETOPTERUS	1	4	T.S. THROUGH TYPHLOSOLAR INTESTIN	1	4	ACETIC ACID	500	4	BRUSH	1 pkt
5	PALAEOMON	1				5	BORAX CARMINE	500	5	COMPOUND MICROSCOPE	3 No:
6	DAPHNIA	1				6	EOSIN	500			
7	BALANOGLOSSUS	1				7	DELAFIED'S HEAMATOXYLIN	500			
8	SACCULINA	1				8	XYLENE	500			

*Sivakumar*  
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