

OFFICE OF THE PRINCIPAL, RAJDHANI COLLEGE, BHUBANESWAR

No. 853 //Dt. 25.1.17

QUOTATION CALL NOTICE

Sealed quotations are invited from registered firms/agencies having TIN/SRIN/VAT & IT clearance valid up to 31st March 2017 for **Development of Laboratory Infrastructure and supply of Equipments and Chemicals** in separate envelops. Quotations with name of the department: **"DEPARTMENT OF _____"** super scribed on the cover, should reach the office of the undersigned on or before 02.02.2017 by 3.00 pm positively.

The sealed quotations will be opened in the presence of bidders/representatives on 02.02.2017 at 3.30 p.m.

The details of the specification are available on the College website www.rajdhanicollege.org.in.

The authority reserves the right to cancel/reject the quotations without assigning any reason thereof.

✓ *Tep 25/1/17*
Principal

Rajdhani College, Bhubaneswar

Memo No. 854 dt. 25.1.17

Copy to College Notice Board/OIC, Website/Accounts Bursar/H.C/Cashier for information & necessary action.

✓ *Tep 25/1/17*
Principal

Rajdhani College, Bhubaneswar

22 → B.O.B - 347
25-1-17

LIST OF ITEMS, DEPARTMENT OF BOTANY

Equipments:

1. Olympus Microscope : MLX-B
2. Olympus Stereo Binocular microscope with inbuilt light stand: Model MS 24
3. Horizontal Laminar flow (Table: 3'x3'x3' Stainless steel, Fluorescent light, UV light)
4. Systronics Multi parameter analyser: Model 371
5. Citizen Digital Analytical Balance: Model CY-120
6. Anemometer
7. Psychrometer
8. Rain Gauge
9. LUX meter
10. Pressure Cooker (10L) Prestige/Hawkins

Chemicals:

1. Xylene
 2. Acetone
 3. Petroleum Ether
 4. Ethyl Alcohol
 5. Carmine Powder
 6. Orceine Powder
 7. Gram Staining Kit for Bacteria
 8. Buffer Tablets (4.0 and 8.0)
 9. Agar agar
 10. PDA
 11. DPX
 12. Euparal
 13. Acetic Acid
 14. Nitric Acid
 15. Sulphuric Acid
 16. HCl
- Part 6
25/1/17

Infrastructure:

1. Cup Board with doors for storage of Chemicals and equipments
Size : 1. 18' X 2' X 18" (8' with horizontal partition, 10' without partition)
2. 20' X 2' X 18 " (All with horizontal partition)

Specifications: a. 19mm board (water proof, boil water proof, termite proof)

Company:Green ecotype/Century.

b. 12mm ply for doors as per above company and specifications

c. 8mm glass for door

d. Doors at equal distance fitted with lock, handle,etc.

e. Beautifully finished enamel painting all sides(Asian/Dulux)

f. Hanged with bolt and nut

RATE QUOTED SHOULD BE PER RUNNING FT. BASIS

2. Motorised Projector Screen (Make: Subera, size: 5'x4')
3. Microtek Inverter 2Kva Sinewave with two Exide tubular battery 150 A and electrical installation

Bio Visual Products Charts:

- Bi 137 Immunoglobulin structure
- Bi 138 Antigen-antibody interaction – I
- Bi 139 Antigen-antibody interaction – II
- Bi 140 Polymerase chain reaction
- Bi 141 Plasma membrane
- Bi 146 Blotting techniques for nucleic acid
- Bi 149 Life Cycle : Human immune deficiency virus
- Bi 153 Blotting Technique For Proteins
- Bi 156 Transposons
- Bi 157 Gene Transfer I-Conjugation
- Bi 158 Gene Transfer II-Tansduction
- Bi 159 Gene Transfer III-Transformation
- Bi 162 DNA Replication
- Bi 163 DNA Viral Replication
- Bi 167 Electron Microscope
- Bi 26 RNA Types: Transcription & Translation
- Bi 28 Protein Synthesis
- Bi 58 Enzymes: Classification & Kinetics
- Bi 60 Genetic Code
- Bi 66 Chromatography
- Bi 67 Electrophoresis
- Bi 81 Active & Passive Transport

Signature
25/11/17

Bi 83 Protein Structure
Bi 84 Nucleotides & Biosynthesis
Bi 128 Lac Operon
Bi 129 Recombinant DNA & Cloning
Bi 130 Monoclonal Antibodies & Blotting
Bi 134 Tryptophan operon
Bi 135 Arabinose operon
Bi 140 Polymerase chain reaction
Bi 153 Blotting Technique For Protein

B 51 Albugo
B 52 Phytophthora
B 53 Saccharomyces
B 55 Penicillium

B 57 Erysiphe

B 148 Ustilago
B 150 Cercospora
B 151 Colletotrichum

Done
11/17

DEPARTMENT OF CHEMISTRY

CHEMICALS

Chemicals	Make	Chemicals	Make
Acetamide	Qualigen/Merck	Nessler's reagent	Qualigen/Merck
Acetic anhydride	Qualigen/Merck	Ninhydrin	Qualigen/Merck
Acetone	Qualigen/Merck	o-aminophenol	Qualigen/Merck
Aluminum foil	Qualigen/Merck	p- aminophenol	Qualigen/Merck
Ammonium nitrate	Qualigen/Merck	o- nitrophenol	Qualigen/Merck
Aspartic acid	Qualigen/Merck	p- nitrophenol	Qualigen/Merck
Barfoed's reagent	Qualigen/Merck	Phenol	Qualigen/Merck
Barium phosphate	Qualigen/Merck	Phenyl hydrazine	Qualigen/Merck
Benzene	Qualigen/Merck	Phosphoric acid	Qualigen/Merck
Benzenediazonium chloride	Qualigen/Merck	Phosphorous pentachloride	Qualigen/Merck
Benzoic acid	Qualigen/Merck	Phthalic acid	Qualigen/Merck
Benzoyl Chloride	Qualigen/Merck	Plastor of Paris	Qualigen/Merck
Carbon disulphide	Qualigen/Merck	Potassium chloride	Qualigen/Merck
Carbon tetrachloride	Qualigen/Merck	Potassium cyanide	Qualigen/Merck
Cerric ammonium nitrate	Qualigen/Merck	Potassium iodide	Qualigen/Merck
Charcoal Block	Qualigen/Merck	Potassium nitrate	Qualigen/Merck
Chloroform	Qualigen/Merck	Potassium sulphate	Qualigen/Merck
Chromatography Paper	Qualigen/Merck	Pyridine	Qualigen/Merck
Citric acid	Qualigen/Merck	Resorcinol	Qualigen/Merck
Copper carbonate	Qualigen/Merck	Silila gel	Qualigen/Merck
Copper foil	Qualigen/Merck	Silver nitrate	Qualigen/Merck
Dimethyl amine	Qualigen/Merck	Sodalime	Qualigen/Merck
E.D.T.A	Qualigen/Merck	Sodium nitrite	Qualigen/Merck
Ferric ammonium Sulphate	Qualigen/Merck	Srontium nitrate	Qualigen/Merck
Ferric bromide	Qualigen/Merck	Stanous chloride	Qualigen/Merck
Filter Paper – Merck	Qualigen/Merck	Starch iodide paper	Qualigen/Merck
Galactose	Qualigen/Merck	Strontium chloride	Qualigen/Merck
Glucose	Qualigen/Merck	Sucrose	Qualigen/Merck
Glutamic acid	Qualigen/Merck	Sulphur	Qualigen/Merck
Glycine	Qualigen/Merck	Suphanilamide	Qualigen/Merck
Iodine	Qualigen/Merck	Thiourea	Qualigen/Merck
Isopropyl alcohol	Qualigen/Merck	Triethanolamine	Qualigen/Merck
Litmus Paper – Merck	Qualigen/Merck	Tyrosine	Qualigen/Merck
Lactose	Qualigen/Merck	Wig's solution	Qualigen/Merck
Metallic tin	Qualigen/Merck		
m-phenylene diamine	Qualigen/Merck		

24/1/17

DEPARTMENT OF CHEMISTRY

GLASSWARES

1. Ignition Tube
2. Test tube – Borosil (18X150)mm
3. Test tube – Neutral glass (5X5/8)”
4. Kjeldahl flask – Borosil 500ml
5. Vaccupipette
6. Measuring cylinder Borosil – 1 litre
7. Basin 6” dia glazed in both sides
8. Test tube holder
9. Dropping bottle polypropylene
10. Tongue 10” & 6”
11. Blow pipe (Brass) 14”
12. Kipp’s apparatus Borosil 500ml
13. Bunsen burner brass, screw type air regulator without stopcock
14. Boiling point apparatus (distillation set)
15. Conical flask 250ml – Borosil
 150ml – Borosil

CHARTS

ITEMS	MAKE
Periodic classification of elements	Bio-visual
Hybridisation	Bio-visual
Molecular Orbitals	Bio-visual
Fisher Projection Formula	Bio-visual

Chakrabarty
24.1.17

DEPARTMENT OF CHEMISTRY

EQUIPMENTS

SL.NO.	NAME OF THE ITEM	MAKE
1.	Micro controller P ^H Meter	Systronic 361
2.	Spare Electrode for P ^H Meter	
3.	Digital Potentio Meter	Systronic 318
4.	Digital P ^H Meter	Systronic 335
5.	Micro controlled conductivity meter	Systronic 306
6.	Water Bath thermostatically controlled with six holes	Accumax
7.	Digital Balance battery-cum-electricity 300 gm X 0.01 gm	Citizen
8.	Hot & Cold air blower	Philips
9.	Oven (Hot air)	Satyam STM-13
10	Copper Calori meter 4" X 3" with copper vessel stirrer & thermometer holder with wooden outer	
11.	Refrigerator Single door 185 litres	LG
12.	Melting point apparatus	(JSGN)
13.	Thin Layer chromatography kit with aluminum applicator & all accessories	(JSGN)

LABORATORY INFRASTRUCTURE (FURNITURE)

- 1) Preparation cum Stock solution table of size 4'X 2 ½ 'X 3'. Top 1 ¼ "thick provided with one drawer and cupboard made of seasoned anti-termite treated salwood legs & non-sal panelling with mehagany finish.
- 2) Reagent Rack of size 48" H X 6' 8" (L) X 9" (D) with three shelves made of ¾ "thick plank.
- 3) Lab stool of size 14" X 12" X24" (H) made of Salwood leg & non-sal oval top with mehagany polish.
- 4) Gas line pipe work of table by good quality ½ " dia Tata G1 pipe & fittings including all ISI standard brass fittings as per requirements. The Bidders should visit the laboratory before submission of quotation and submit the quotation in detail measurement.
- 5) INVERTER – (Microtek 1100VA Sinewave 150ah tall tabular Exide Battery)

N.B : *The firms quoting for Laboratory Furniture should be EPM registered agency preferably from SSI unit with minimum 5 years Experience. Certificate should be produced.*

Shrihari
24/11/12

DEPARTMENT OF GEOLOGY 2016-17

Sl. No	Name of the instruments
1.	Binocular petrological microscope (of csiccensico company)
2.	GPS (of Germei or Etrex company)

Sl. No	Name of specimens
1.	<p>Crystallographic models</p> <p>A. Isometric system (cube , octahedron, dodecahedron, trisoctahedron, tetrahedron, trapezohedron, hexaoctahedron)</p> <p>B. Tetragonal system (combination form of basal pinacoid and prism, combination form of prism and pyramid, combination form of basal pinacoid, prism of 1st order and 2nd order, combination form of , prism of 1st order and 2nd order and pyramid of 1st order and 2nd order,)</p> <p>C. Hexagonal system (combination form of basal pinacoid and prism, combination form of prism and pyramid, combination form of basal pinacoid, prism of 1st order and 2nd order, combination form of , prism of 1st order and 2nd order and pyramid of 1st order and 2nd order,)</p> <p>D. Orthorhombic system(basal pinacoid, macro pinacoid, brachy pinacoid, prism, pyramid)</p> <p>E. Monoclinic system((basal pinacoid, ortho pinacoid, clinopinacoid, prism, pyramid)</p>
2.	<p>Minerals</p> <p>Olivine, sodalite, leucite, nepheline, hornblende, tremolite, actinolite, silimanite, kyanite, fuschite, pink quartz, tourmaline</p>
3.	<p>Industrial minerals</p> <p>Asbestos, graphite, magnesite, fire clay, china clay, kaoline</p>
4.	<p>Rock specimen</p> <p>A. Igneous rocks (syenite, diorite, granodiorite, pegmatite, gabbro, dolerite , basalt, peridotite, dunite)</p> <p>B. Sedimentary rocks(sandstone, conglomerate, breccia, limestone, dolomite, arkose, greywacke)</p> <p>C. Metamorphic Rock(khondalite, basic granulite, granite-gneiss, granulite)</p>
5.	<p>Rock slide</p> <p>A. Igneous rock(diorite, dolerite, granodiorite, gabbro, anorthosite, basalt, trachyte, lamprophyre)</p> <p>B. Sedimentary rocks(sandstone, conglomerate, breccia, limestone, shale)</p> <p>C. Metamorphic rock(khondalite, charnokite, gneiss)</p>

DEPARTMENT OF GEOLOGY

6.	Geomorphic models Morain, delta, yardang, dunes, roches mountain, meandering river, mesa, butte, cuesta, hogback, badland topography, pedestal rock, v'rule model)
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INFRASTRUCTURE

1.	Cupboard with doors for storage of specimens and equipments A. 18'x2'x18" without partition B. 15'x2'x18" with partition 8mm glass for glass doors 19mm waterproof, termite proof, boiling proof (Centaury or Green ecotech Comp.)
2.	12mm ply as per above specification and company. Doors at equal distance with lock. All side enamel painted (Asian paint/ Dulax Comp.) hanged with bolt and nuts

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24.01.17
(H.O.D. Geology)

DEPARTMENT OF PHYSICS
EQUIPMENTS

SL.NO.	NAME OF THE EQUIPMENTS	MAKE
1.	Lees Apparatus	Omega
2.	Sextant with stand	Omega
3.	g & velocity of freely falling body by digital timing technique	Besto
4.	Verification of superposition, thevenins Northon, maximum power transformer. Reciprocity theorem	Mars ME590
5.	Lissajous figure with oscilloscope	Besto/Omega
6.	Thermal conductivity of copper by Searl's method	
7.	Viscosity of liquid by capillary flow method	Omega
8.	To design not gate by using transistor	
9.	To verify and,not,or,XOR gates by using Nand gate	Besto
10.	Half adder, full adder & 4 bit binary adder	
11.	To build flipflop (RS, clocked RS, Dtype JK) circuit using Nand gate	Besto
12.	To build 4 bit shift Register (series & parallel using D Type JK flipflop ICS	
13.	To design monostable multivibrator of a given specification using 555 timer	Besto
14.	PLANCK's constant using black body radiation & photo detector	Besto
15.	Work function of material filament directly heated vacuum diode	Mars
16.	PLANCK's constant using led of four different colours	Besto
17.	V~I characteristics of tunnel effect of tunnel diode	
18.	λ of laser source using diffraction of single slit	
19.	λ of laser source using diffraction of double slit	
20.	V~I characteristics of PN Junction, Zener diode & LED	
21.	V~I characteristics of LED	
22.	V~I characteristics of power curves of solar cell for max power & efficiency	
23.	To design wien bridge oscillator for given frequency on operation Amplifier	Besto
24.	Colpitt's oscillator	Mars ME-667A
25.	RC coupled Amplifier voltage gain complete set	Mars
26.	Susceptibility of paramagnetic solution (Quinck's tube method)	
27.	BH curve of fe using solenoid (to determine energy loss from Hysteresis	
28.	Dielectric constant of dielectric material with frequency	
29.	Millican oil drop Apparatus with power supply	Besto
30.	Hall effect experiment with complete set	
31.	Polarimeter (for Polarisation Sugar Solution)	
32.	Computer 6 th Generation I3, Hard disk 1 TB, 4GB RAM	Dell/HP/Lenovo

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24.1.17

DEPARTMENT OF PHYSICS

INFRASTRUCTURE

SL.NO.	NAME OF THE ITEM	SPECIFICATION
1.	Lab Stools (Foot rest made of salwood legs & Non-sal top)	14"X14"X22" (LXBXH)
2.	Lab Stools Foot rest made of salwood legs & Non-sal top)	14"X14"X30" (LXBXH)
3.	Computer Table provided with keyboard TRAY with one shelve made of 19MM BWP Ply with Lamination	30"X30"X22" (LXBXH)

CHEMICALS

SL.NO.	NAME OF THE CHEMICALS	MAKE
1.	Copper Sulphate	500gm
2.	Ammonium Chloride	500gm
3.	Castor Oil	500ml/250ml
4.	Mercury Extrapure	100gm

M. S. S.
24.1.17

(For Website)

DEPARTMENT OF ZOOLOGY 2016-17
GLASSWARE LIST

23.10.11H

SL NO	MAKE	PRODUCT CODE	ITEM	CAPACITY	QUANTITY PER CASE	TOTAL NO. CASE REQUIRED
	BOROSIL	1501	Bottles, reagent, graduated with screw cap and pouring ring			
1.	BOROSIL	1501021		250 ml	10	1
2.	BOROSIL	1501024		500 ML	10	1
3.	BOROSIL	1501029		1000 ml	10	1
4.	BOROSIL	1501030		2000 ml	10	1
	BOROSIL	1519	Bottles, reagent, Amber, graduated with screw cap and pouring ring			
5.	BOROSIL	1519024		500 ml	10	1
6.	BOROSIL	1519029		1000 ml	10	1
	BOROSIL	7059	Pipettes, measuring (Mohr type), Class A, with works certificate			
7.	BOROSIL	7059P22		2 ml	10	1
8.	BOROSIL	7059P55		5 ml	10	1
9.	BOROSIL	7059P06		10 ml	10	1
	BOROSIL	7082	Pipettes, serological, (White marking), Class B			
10.	BOROSIL	7082P01		1 ml	20	1
11.	BOROSIL	7082P02		2 ml	20	1
12.	BOROSIL	7082P05		5 ml	20	1
13.	BOROSIL	7082P06		10 ml	20	1
	BOROSIL	5020024	Flasks, Erlenmeyer, conical, Narrow mouth, with interchangeable stopper	1000ml	10	1
14.	BOROSIL	5021021	Flasks conical with screw caps	250 ml	20	1
15.	BOROSIL	7031	Tips for micropipette	1-10 ml	100	1
1	SYSTRONICS	MODEL - 119	PC BASED SINGLE BEAM UV- VIS SPECTROPHOTOMETRE		01	

EQUIPMENT LIST