

OFFICE OF THE PRINCIPAL, GOVERNMENT COLLEGE (AUTONOMOUS),
BHAWANIPATNA
No.02, Dt.02-01-2016

QUOTATION CALL

Sealed quotations are invited from Registered Firms / Suppliers having valid PAN / TIN / VAT clearance certificate for the supply of Laboratory equipments, Computer/ Laptop/ Peripherals, Chemical and Glassware and items for Infrastructure development of Laboratories under Laboratory Development Grants of Government of Odisha through Regd./Speed post only. The last date of receipt of sealed quotations is on or before **20.01.2016 by 2PM. Department wise quotation will only be acceptable. Single quotation for all departments will summarily be rejected.** Details of requirements, terms and conditions of quotation call are available in the college website www.gacbhanipatna.org

Firms with DGS & D /EP & M Rate Contract will be given preference.

Sd/-
PRINCIPAL,
Government College (Autonomous),
Bhawanipatna

Terms and Conditions

- a. All Quotations should reach the undersigned on or before 20.01.2016 by 2PM in sealed cover superscribed with name of the department for which quotation is being submitted through regd./speed post only.
- b. **Quotation shall be submitted separately for individual department as per the list of items reflected by respective department for procurement.** A single quotation for different items of different departments shall not be accepted.
- c. The price tag against each item must be inclusive of all taxes.
- d. The material should be delivered to the office of the undersigned in good working condition within 21 days of placing of orders.
- e. The quotation will be opened on 20.01.2015 at 4PM in the office of the Principal. Interested parties or their representatives may remain present, if they so desire.
- f. The undersigned has right to cancel/ reject any quotation without assigning any reason thereof.

PHYSICS DEPARTMENT

SL NO	NAME OF APPARATUS	SPECIFICATION OF APPARATUS (THE EXPERIMENTS CITED BELOW MUST BE DONE WITH THE HELP OF THE RESPECTIVE APPARATUS)	COST OF ONE SET	NO OF SET
01	GM COUNTER SET UP	<ul style="list-style-type: none"> • To study the characteristics curve (plateau curve) of GM tube • To study the pulse height v/s operating voltage of GM tube • Verification of inverse square law by using GM counter • Calculation of absorption of beta and gamma radiation 		
02	HALL EFFECT SET UP	<ul style="list-style-type: none"> • Measurement of magnetic field by Gauss and tesla meter • Finding the poles of an electromagnet with the help of Hall probe and Gauss meter • Measurement of Hall voltage • Calculation of Charge carrier concentration (density) of semiconductor crystal • Calculation of Hall co-efficient of Ge p-type crystal • Calculation of mobility of charge carrier particles • Study of the Hall voltage as a function of current at constant magnetic field • Study of the Hall voltage as a function of magnetic field at constant current • Study of the dependence of Hall effect co-efficient on temperature 		
03	HYSTERESIS LOOP SET UP	<ul style="list-style-type: none"> • Corecivity • Retentivity • Saturation magnetisation • Various magnetic phase identification • Hysteresis loss 		
04	E/M MEASUREMENT SET UP	<ul style="list-style-type: none"> • Determination of E/m set-up 		
05	CAREY FOSTER'S BRIDGE SET UP	<ul style="list-style-type: none"> • Determination of the specific resistance of the Costantan wire by using the Carey foster's bridge • Measurement of low resistance using Carey foster's bridge after calibrating the Bridge wire • Measurement of low resistance using the Carey foster's bridge without calibrating the bridge wire 		

SL NO	NAME OF APPARATUS	SPECIFICATION OF APPARATUS (THE EXPERIMENTS CITED BELOW MUST BE DONE WITH THE HELP OF THE RESPECTIVE APPARATUS)	COST OF ONE SET	NO OF SET
06	ELECTROSTATIC LAB SET UP	<ul style="list-style-type: none"> • To study the Charge induction in electrostatics • To study the charge conduction in electrostatics • To study the pith ball pendulum electroscope • To study the relative charges of different rods with the help of digital display in milli volts • To study the electrostatic charge with the help of charge demonstration tube • To study the electrostatic charge by the combination of different rods and cloths 		
07	ELECTRICITY LAB SET UP	<ul style="list-style-type: none"> • Determination of Resistance individually as well as in series and parallel • Determination of ohm's law mathematical relationship between variable voltage(V), current(I) and resistance(R) • To study the voltage and current flowing into the circuite • To study the Kirchoff's law for electrical circuit • To study the R-C circuit and find out the behaviour of capacitor in a R-C network and study the phase shift due to capacitor • To study the L-C circuit and find out it's behaviour as resonance circuit • To study the characteristics of a semiconductor diode • To study the characteristics of transistor • To study the behaviour of current, when light bulbs are connected in circuit • To understand the faraday's law of electro magnetic induction • To study the phenomenon of mutual induction • To study the Lenz's law and effect of eddy current • To study the relay and construct a switching circuit by using relay • To study the orestead experiments • To convert a galvanometer into volt meter • To convert a galvanometer into ammeter • To construct and study the step down transformer with the help of given coils and cores • To construct and study the step up transformer • To study the effects of moving I core on a step up- transformer 		

SL NO	NAME OF APPARATUS	SPECIFICATION OF APPARATUS (THE EXPERIMENTS CITED BELOW MUST BE DONE WITH THE HELP OF THE RESPECTIVE APPARATUS)	COST OF ONE SET	NO OF SET
08	FUNCTION GENERATOR			
09	DIGITAL CRO			
10	COMPUTER	<ul style="list-style-type: none"> • PROCESSOR i-3 core • HARD DISC-500GB • RAM-2GB • WINDOWS-8.1 		

SL NO	NAME OF CHEMICAL	QUANTITY
01	CASTOR OIL	5 LITTER
02	MERCURY	2 Kg
03	NITRIC ACID	3 LITTER
04	CUPPER SULPHATE	5 Kg
05	GLYCERINE	5 LITTER
06	SUGAR	5 Kg
07	WAX	5 Kg
08	KEROSIN	5 LITTER
09	DISTILLED WATER	100 LITTER

SL NO	FURNITURES	SPECIFICATION / DIMENSIONS (length x breadth x height)	APPROXIMATE RATE PER FURNITURE	NO OF FURNITURE	AMOUNT
01	PRACTICAL TABLE	(225cm X 120cm X 92cm)/(7'5" x 4'7" x 3')			
02	STOOL	(45.5cm X 31cm X 180cm)			
03	AC	SPLIT AC			
04	COMPUTER TABEL CHAIR/STOOL	COMFORTABLE IN SITTING			
05	WOODEN WORK AND ELECTRIFICATION TO MAKE COMPUTER LAB OF DEPARTMENT OF PHYSICS IN L-SHAPED HAVING DIMENSION (16ftAND 14ft) so two tables each of 8FT and other two tables of 6FT each is required.				

Contact

Sri D.S.Pradhan

Mob:9438262894

Geography Department
Laboratory Equipments

Item	Quantity	Cost
1. Desktop Computer with peripherals. Intel Core 5, HDD-1TB, 4GB RAM, Display 21", 32"		
2. UPS 1KVA		
3. Colour All in One Tank Ink Printer		
4. LAN Connection a.CAT 6 Cable b.Network Switch (DLink) c.Other accessories		
5. Pocket Sterioscope		
6. Mirror Sterioscope		
7. Digital Rotameter		
8. Digital Polarimeter		

Laboratory Equipments

Item	Quantity	Cost
1. Computer Chair (Godrej, Task Chair-4103)		
2. Computer Table 3' x 2' (Godrej Caliber-201)		
3. Enterprise Table (Godrej 4fts)		
4. Executive Chair: Godrej, Kareena Midback		
5. Chair for teacher		
6. Vertical Filling cabinet		
7. Ceiling of Laboratory including electrical works		
8. Wall handing Fan		
9. Split Air Conditioner with Stabiliser (1.5 Ton, Turbo Stabiliser)		
10. Window Air Conditioner with Stabiliser (1.5 Ton, Turbo Stabiliser)		
11. White board: 5X5 fts		

Chemical, Glassware etc.

Item	Quantity	Cost
1. Chemical Glassware, etc		

Software

1. Arc GIS Software Ver 10.3

Contact

Dr. Manoj Ku. Meher
 Mob; 9861443980

Botany Department

Sl. No.	Name of the Equipment	Quantity	Cost
1.	Charts and others		
2.	Lab. Tables and Stools		
3.	<p>RESEARCH MICROSCOPE Binocular Research Microscope From “HYTEK” Advanced co-axial motion on steel ball bearing. Extra large stage 125 x 145 with co-axial movement. Binocular head with coated prismatic set for contrast and clarity. Latest improved system 6v-20w illumination. Supplied with following imported optics. Eyepieces (2 no) : 5x or 6x (Huy) & achromatic 10x HKW paired Objectives (4 no) : DIN standard , Achromatic 4x or 5x , 10x, 40x or 45x(SL) & precision 100x (SL) oil immersion.</p>		
4.	<p>SPECTROPHOTOMETER Visible Spectrophotometer Model LMSP-V320 Wavelength range- 325- 1000nm. Spectral band width – 4 nm. Wavelength accuracy - ± 2 nm.</p>		
5.	<p>AUTOCLAVE VERTICAL From MODERN Double walled inside made of thick stainless steel and outer body of heavy gauge mild steel. Lid is of SS die pressed and fitted to the body by means of wing nuts & bolts. The lid is fitted with pressure gauge, safety valve, steam release cock and extra safety valve. Working pressure 15psi. Supplied with water level arrangement, SS basket, brass case thermometer.</p> <p>Size (Dia x Height) cm 25 x 45cm Outer MS & inner stainless steel 25 x 45 cm Complete body of stainless steel 30 x 50 cm Outer MS & inner stainless steel 30 x 50 cm Complete body of stainless steel</p>		
6.	<p>DIGITAL WEIGHING BALANCE High Precision Balance Model HPB 220 Capacity : 220gm , Readability : 0.001gm</p>		

Sl. No.	Name of the Equipment	Quantity	Cost
	Precision Balance Model PGB 200 Capacity : 200gm , Readability : 0.001gm Economic Compact Balance Model ECB600 Capacity : 600gm , Readability : 0.1gm		
7.	WATER QUALITY ANALYSER From GLOBE Model 1024G : Deluxe Water Analysis kit (3 ½ digit LCD display covering 7 parameters) pH , Conductivity, TDS, Salinity, Turbidity, Dissolved Oxygen and Temperature with rechargeable battery, complete with accessories fitted in brief case.		
8.	Farmers Potometer JSGW		
9.	Ganongs Potometer JSGW		
10.	T/A Apparatus JSGW		
11.	Willmouts Bubbler JSGW		
12.	Chromatography paper sheet		
13.	Permanent Slide		
14.	GLASS WARES "GEOMATRIX" MAKE		
15.	Conical Flask Borosilicate glass 100 ml		
16.	Conical Flask Borosilicate glass 250 ml		
17.	Conical Flask Borosilicate glass 500 ml		
18.	Beaker Borosilicate glass 100ml		
19.	Beaker Borosilicate glass 250ml		
20.	Beaker Borosilicate glass 500ml		
21.	Measuring Pipette Borosilicate glass 1 ml		
22.	Measuring Pipette Borosilicate glass 2 ml		
23.	Measuring Pipette Borosilicate glass 5 ml		
24.	Measuring Cylinder Borosilicate glass 25 ml		
25.	Measuring Cylinder Borosilicate glass 50 ml		
26.	Measuring Cylinder Borosilicate glass 100 ml		
27.	Petri Dish Borosilicate glass 75 x 17 mm		
28.	Petri Dish Borosilicate glass 100 x 17 mm		
29.	Watch Glass 75mm		
30.	Plain Microscopic glass pkt of 50 slides		
31.	Cover Slip pkt		
32.	Test tube Borosilicate glass 15 x 150 mm		
33.	Test tube Borosilicate glass 18 x 150 mm		
34.	Volumetric Flask Borosilicate glass 50 ml		

Sl. No.	Name of the Equipment	Quantity	Cost
35.	Volumetric Flask Borosilicate glass 100 ml		
36.	Blotting Paper Sheet		
37.	Rexin Chart		
38.	Filter Paper Pkt of 100 circles		
39.	Test tube stand Polythene		
40.	Funnel Filtering Borosilicate glass 75mm		
41.	Funnel stand		
42.	Mortar & Pestle Porcelain 3"		
43.	CHEMICALS THOMAS BAKER / QUALIKEM		
44.	Formaldehyde 500 ml		
45.	Ethanol 500 ml		
46.	Glacial acetic acid 500 ml		
47.	Saffranin Solution 125 ml		
48.	Sodium Chloride 500 gm		
49.	Acetone 500 ml		
50.	Acetocarmine 100 ml		
51.	Glycerine 500 ml		
52.	Petroleum ether 500 ml		
53.	Sodium bicarbonate 500gm		
54.	Sucrose 500gm		
55.	Nitric Acid 500 ml		

Contact

Dr. Ghanashyam Behera

Mob: 9861115351

Mathematics Department

Sl. No.	Name of the Equipment	Quantity	Cost
1.	Desktop Computer with peripherals. Intel Core 5, HDD-1TB, 4GB RAM Make: HP/Compaq		
2.	UPS 1KVA (Microtek)		
3.	Laser Printer (Print Copy Scan) HP/Cannon/Brother		
4.	Computer Chair (Godrej, Task Chair- 4103 and other models)		
5.	Computer Table 3' x 2' (Godrej Caliber- 201 and other models)		
6.	Computer Chair (Non-branded)		
7.	Computer Table 3' x 2' (Non-branded)		
8.	Mathematical Software like LaTeX and others		

Chemistry Department

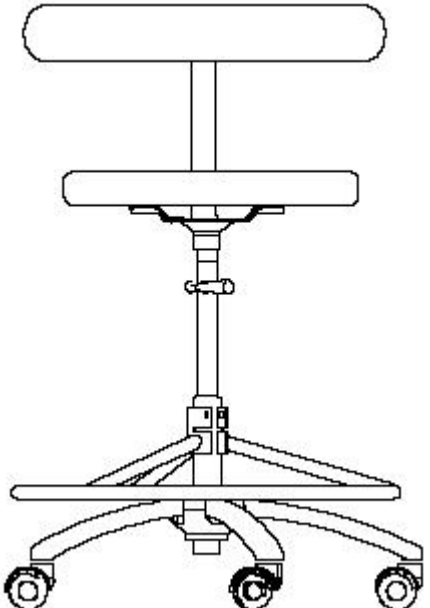

Sl. No.	Item	Quantity	Cost
1.	Fitting of Hardtop on 12 Lab. Table and demonstration table with repairing and colouring		
2.	Fitting of ventilator Fans		
3.	Mapping machine as teaching aids and lab. Instrument (Laptop) Make: HP, 1TB HDD, Intel Core 5		
4.	Systemic Digital potentiometer		
5.	Systemic Digital conductivity meter		
6.	Systemic Digital pH meter		
7.	Burettes Borosilicate 50 ml		
8.	Pipettes Borosilicate 10 ml		
9.	Bunsen Burner Bragg		
10.	Water baths Aluminium 20 Kg wt		
11.	Gas Stove Iron Double Flame		
12.	Ammonium Iron.II Sulphate Merk 50gm		
13.	Nessler Reagent Merk 250 ml		
14.	Iron-II Sulphate Merk 500gm		
15.	Ethyl Acetate Merk 500ml		
16.	Potassium Pyrometate Merk 500g		
17.	Sodium Nitrate Merk/High Media 500g		
18.	Sodium Bicarbonate Merk/High Media 500g		
19.	Copper Carbonate Merk/High Media		
20.	Ammonium Sulphate Merk/High Media		
21.	Potassium Sulphate Merk/High Media		
22.	Blue Glass Borosil		
23.	Diethyl Ester –Merk		
24.	Benzoic Acid Merk/High Media		
25.	Salicylic acid Merk/High Media		
26.	Phenol Merk/High Media		
27.	Acetic Acid Merk/High Media 500ml		
28.	Formic Acid Merk/High Media 500ml		
29.	P-Naphthol Merk/High Media 500ml		
30.	L Naphthol Merk 500ml		
31.	Filter Paper		
32.	Oxalic acid Merk/High Media		
33.	Ethanol Merk/High Media		
34.	Acetone Merk/High Media		
35.	Salicylic Acid Merk/High Media		
36.	Sodium Chloride Merk/High Media		
37.	Sodium Iodide Merk/High Media		
38.	Copper sulphate Merk/High Media		

Contact

Dr. D.L.Singh

Mob: 9437869250

Zoology Department

Sl. No.	Head	Item	Specifications
1	Laboratory Equipment	PC based UV-Visible Spectrophotometer (Single Beam) Make: Systronics, Model-119	PC Based Automatic source optimisation & base line correction 200 – 1000 nm Range 2 nm Bandwidth %T, Abs, Conc. (K factor, Multi standard up to 5) measuring modes Single Wavelength, Multi Wavelength, Scan (with multi scan facility), Time Scan operating modes Automatic 5 position sample changer Single Position 50/100 mm Cuvette Holder (Optional)
		Compact Cooling Centrifuge Make: REMI CM-12 Plus	Precise temperature control up to - 8°C, Pre-cooling feature, Fast spin feature, Calibration window on lid for speed (rpm), Microprocessor based unit with alpha numeric LCD display, Brushless Induction motor with variable frequency drive ensures gentle start, Parameters setting through easy to use bi-directional encoder, CFC free refrigeration system, Choice of rpm / rcf setting & display
2	Laboratory furniture	1. Laboratory Moving Stool (Up Down and Round)	
		2. Laboratory Chair (Moving) (Up Down and Round)	
3	Laboratory Chemicals/ Glassware/ Pasticware	Make: BOROSIL, JSGW, RIVIERA, TARSON, POLYLAB, Himedia, Merck, Sigma, Qualigen	Call for Company/Make wise discount structure

Contact

Dr. Jatindra Kumar Pradhan

Mobile: 8280148289

Email: zoologyparivargacb@gmail.com, jatin1983@outlook.com

Anthropology Department

Sl. No.	Name of the items	Quantity	Cost
1.	Sliding calliper		
2.	Spreading calliper		
3.	Anthropometer rod		
4.	Gonio meter		
5.	Mandibulo meter		
6.	Digital Weigh machine		
7.	Manual Pressure measurement machine (digital)		
8.	GPS Device		
9.	Steel tray (For keeping tools)		
10.	Racks for keeping instruments (7x7+6x6'4)		
11.	Refrigerator 170 ltr		
12.	Laboratory Table		
13.	Powder for finger print detection		
14.	Ink for finger print		
15.	Blood serum Anti-A,		
16.	Blood serum Anti B		

Contact

Dr. Kabiraj Behera

Mob: 9437190480

Vocational

Sl. No	Name of the Equipments	Specification			
1	PC (Laptop)	500GB			
2	Printer cum Xerox machine	Hp laserjet-1020			
3	Stabilizer	5KB			
4	Inverter with Battery	865 EB			
5	freezer	170lt			
6	Projector with LCD	Normal			
7	Microscope Biological&Zoological	Nikon model-G			
8	Brix-Hydrometer	Normal			
9	PH meter	Normal			
10	salometer	Normal			
11	Jelly meter	Normal			
12	Refractometer	Normal			
13	Room thermometer	Normal			
14	Dehydrator	10 kg capacity			
15	Crown corking machine	Normal capingsize			
16	Grinder	Normal			
17	Pulping machine	small			
18	Peeling machine	small			
19	Pressure cooker	10lt capacity			
20	Weighing –Balance	10 kg capacity			
21	Cutting knife	Normal			
22	Grafting Knife	Normal			
23	Secateurs	Normal			
24	Trench-hoe	Normal			
25	Iron Bar	Normal			
26	Axe	Normal			
27	Spade	Normal			
28	Scissors	Normal			
29	Crow-bar	Normal			
30	Hammer	Normal			
31	Model of RIR bird with glass cabinet	Normal			
32	Model of Vanaraja bird with glass cabinet	Normal			
33	Model of Gramapriya bird with glass cabinet	Normal			
34	Model of chicken depicting Digestive system with glass cabinet	Normal			
35	Model of chicken depicting Reproductive system with glass cabinet	Normal			
36	Model of Khaki campbel bird with glass cabinet	Normal			
37	Model of Indian Runner bird with glass cabinet	Normal			
38	Model of White Pekin bird with glass cabinet	Normal			
39	Candling machine	Normal			
40	Waterer	Normal			

Sl. No	Name of the Equipments	Specification			
41	Feeder	Normal			
42	Model of Poultry House (Shed / Gable/ Cobination)with Glass cabinet	Normal			
43	Laboratory table with hard top	5'*5'			
44	Cup-board	5'			
45	Iron rack	5'			
46	Steel almirah	6'			
47	Overhead tank	500lt capacity			
48	Shrink fittings	1.5'*3'			
49	Bore-well	180 ft depth			
50	Jet-motor	1HP			
51	Barbed fencing for Nursery	20 cemented bar with 500 mt iron wire			
52	Hardwere fittings for watering	As per water points			
53	Electric fitting for laboratory	As per equipment points			
54	Gas with Burner	2 cylinder			
55	Instructor chair	Movable			
56	Students practical stool				
57	Stainless steel pots	10 lt capacity			
58	Steel Knife	medium			
59	Puppet	Medium			
60	Stirring-rods	Medium			
61	Steel-spoon	Medium			
62	Steel-tongs	Medium			
63	Glass test-tubes	Normal			
64	Measurement-tubes (Plastic)	500ml			
65	Test-tube stand	Normal			
	Chemicals				
66	Sodium benzoate	100 gm			
67	Potassium meta-bisulphate	100 gm			
68	Sodium meta –bisulphate	100 gm			
69	Citric acids	1 lt			
70	Acetic acids	100 gm			
71	Vinegars	1 lt			
72	Balance diet chart	As available			
73	Maize grain,Barly Grain,Bajra grainOat,Sorghum,Wheat,Wheat BranRiceRice Bran,Tapioca,MolassesGNOC,Cotton seed cake,	100gm each			
74	Vaccine schedule chart,Brooder,	Chart as available			
75	Model of a poultry farm Model of a dressing and packing units	Chart as available			
76	Chemical chart for processing	Chart as available			
77	Plant material	Budding and grafting plant			
78	Repairing of practical widow &gate				

Contact:

Sri Smita Ranjan Sadangi

Mob: 9438689300