

**OFFICE OF THE PRINCIPAL,
GOVERNMENT COLLEGE(AUTONOMOUS), BHAWANIPATNA**

QUOTATION CALL

Sealed quotations/offers in the prescribed format are invited from Registered Firms / Suppliers having valid EPM/ PAN / TIN / VAT clearance certificate for supply of different chemicals, equipments, glasswares/plasticwares, furniture and other items to the **Department of Zoology, Botany, Physics, Chemistry and Geography** of this college under Laboratory Development Grants of Government of Odisha. The last date of receipt of sealed quotations is on or before 06-01-2018 by 5PM. **Department wise quotation will only be accepted.**

Single quotation for more than one department will summarily be rejected. Details of requirements, terms and conditions of quotation call are available in the college website *www.gacbhanipatna.org*

PRINCIPAL

OFFICE OF THE PRINCIPAL
GOVERNMENT COLLEGE (AUTONOMOUS), BHAWANIPATNA
At/Po-Bhawanipatna, District-Kalahandi, Pin-766001
Email: principal.gacbpt@gmail.com
Website : <http://www.gacbhawanipatna.org>

No.2781


Dt. 19-12-2017

Quotation Call Notice
(For Department of Zoology ONLY)

Sl. No.	Item/Work	Technical Description	Make/Model	Justification
Head: Laboratory Equipment				
01	B.O.D. Incubator Shaker	Inner Chamber: High Quality Stainless Steel of 304 Grade. With Glass/Plexi Glass View Inner Door; Temp. Range: 5°C to 60°C ; Temp Control: Microprocessor based PID Temperature indicator cum controller, LED Display of Set Value (SV) and Process Value (PV); Shaker Motor: PMDC Motor is provided for smooth and jerk free rotary motion in Shaker; Shaking Speed: 20 to 250 rpm; No. of Holding Flask: 250 ml / 100 ml flask of 25 (Twenty Five Nos), Stainless Steel Lotus Clamp Holders is fitted in the Platform to holding the Cronical Flasks/Erlymeyer Flask; Number of Shelves: 2 Nos. of removable & Adjustable Selves made of Stainless Steel; Voltage Stabilizer: Automatic 2 KVA Servo Controlled Stabilizer Input Voltage 160 to 260 Votls and Output Voltage of 220.240 Volts. Will be supplied with the Instruments.	SNS(230ltrs)/REMI/LABMAN	Need for carrying out Practical Experiments as well as project work as per CBCS Syllabus
02	-20 Degree Freezer (Upright Solid door freezers)	Capacity (liters): 344 Liters; Temp. Range ****: (-) 17°C. to (-) 24°C; No. of Basket/Shelves:8 (Eight) Nos.; Servo Controlled Voltage Stabilizer 2 KVA, Input 170 to 260 Volt and Output 220/230 Volt, Single Phase	Cellfrost/Blue Star/Thermo Fisher/LG/Samsung/Any other Reputed Brand	Need for carrying out Practical Experiments as well as project work as per CBCS Syllabus
03	Ice Flaker	Capacity of Ice cube (kg per 24 hrs: 15kg; Storage Capacity (kg): 2kg; cooling method: air; refrigerant: R134A	WENSAR/LARK/Citizen/Any Other Reputed Brand	Need for carrying out Practical Experiments as well as project work as per CBCS Syllabus
04	MiniSpin®/MiniSpin® plus (Table Top Centrifuge)	Rotor capacity: 12 × 1.5/2.0 mL vessels, 2 × PCR strip, Max. speed: 14,100 × g (14,500 rpm), Automatic rpm/rcf conversion, Extended time to 99 min or continuous centrifugation	Eppendorf/REMI/ Any Other Reputed Brand	Need for carrying out Practical Experiments as well as project work as per CBCS Syllabus

Sl. No.	Item/Work	Technical Description	Make/Model	Justification
05	Ultrasonic bath	Tank capacity: 6 Liters (POSCO SUS304 tank); Heating Temperature: 0 to 80 degreeC; Memory function <ul style="list-style-type: none"> Automatically ultrasonic frequency tracking LED display for temperature and timer 	GT-SONIC/ESICO/Accumax/Any Other Reputed Brand	Need for carrying out Practical Experiments as well as project work as per CBCS Syllabus
06	Weighing Balance	Up to 3 digit/4 digit/5 digit	WENSAR/A &D Company Ltd. Japan/Citizen/Any Other Reputed Brand	Need for carrying out Practical Experiments as well as project work as per CBCS Syllabus
07	pH meter	pH Range: -2 to 16; Temp range: 0-100 degree C; ORP Electrode	ThermoScientificEutech/ESICO/Syst/Merkk/WTW-inolab/Any Other Reputed Brand	Need for carrying out Practical Experiments as well as project work as per CBCS Syllabus
08	Liquid Nitrogen Container	Capacity Liquid Nitrogen: 3.9 liters	IBP/Revital/Any Other Reputed Brand	Need for carrying out Practical Experiments as well as project work as per CBCS Syllabus
09	Stirrer with Hotplate	Speeds range 100 - 1500 rpm Porcelain Enamel Hot Plate model for temperatures up to 340°C	REMI/Tarson/LARK/ Any Other Reputed Brand	Need for carrying out Practical Experiments as well as project work as per CBCS Syllabus
10	Water Bath	Inner Chamber Volume of 18 liters (approx); <ul style="list-style-type: none"> Temperature Range: Above ambient to 90°C (Normal); Circulation system is provided by a circulation stirrer which capable to recirculation the bath liquid to maintain uniformity of the temperature though the bath. 	REMI/Tarson/MODERN/Accumax/Any Other Reputed Brand	Need for carrying out Practical Experiments as well as project work as per CBCS Syllabus

Sl. No.	Item/Work	Technical Description	Make/Model	Justification
11	Research Microscope	Binocular / Trinocular Observation Head: Sidentopf observation head inclined at 300 rotatable at 3600 Diopter adjustment ring on ocular tube Interpupillary distance adjustment from 48mm to 75mm. Third Port for Camera Attachment. Infinity Plan Objective: Plan Achromat 4x Plan Achromat 10x Plan Achromat 40x Plan Achromat 100x oil Immersion Sub Stage Condenser: Swing out ABBE marked Condenser 1.25 with adjustable iris diaphragm. Bright Field Illuminator: White Bright Field Illumination incorporates with 3W LED Lamp, adjustable brightness. Lamp life not less than 50,000 hrs. 10 CMOS Camera Attachment for Microscope with Image Capture & Online Measurement as well as Analysis Software; Colour Rendering: Ultra Fine™ Colour Engine; Exposure: Normal Exposure : 0.22-119.37ms, ROI Auto & Manual. Long Exposure : 119.37ms-4mins Capture Mode: Still Picture and Video	DEWINTER (ITALY) make 'SELECT' Trinocular Research Bright Field Microscope with Infinity Plan Optical System with Microscopic 'DGI-1000' 10 Mega Pixel CMOS Sensor Camera and 'DIGICAM' Measurement as well as Analysis Software	Need for carrying out Practical Experiments as well as project work as per CBCS Syllabus
12	Vortex Mixure	Test tube, mini centrifuge tube vortex	REMI/Tarson/LARK/ Any Other Reputed Brand	Need for carrying out Practical Experiments as well as project work as per CBCS Syllabus
13	Microwave Oven	20/25L Capacity	IFB/LG/Any other reputed Brand	Need for carrying out Practical Experiments as well as project work as per CBCS Syllabus
Head: Laboratory Upgradation				
01	Civil Work	Construction of RCC/Cement Bench of 75 feet x 2.5 feet with Granite Top and Brick wall supports	Consultation with the department required	
02	Iron Work	MS Rack of 20 feet x 1.5 feet with a height of 3 feet with 3racks	Consultation with the department required	

Sl. No.	Item/Work	Technical Description	Make/Model	Justification
03	Laboratory Training Chair		Mehodex/Godrej/Payal Industries/Any Other Reputed Brand	For upgradation of Laboratory Furniture
04	Electricity wiring for Inverter and equipment	Consultation with the department required	Electrical works/ Consultation with the department required	For supplying currents to new equipment
Head: Laboratory Chemicals/Glassware/Pasticware				
01	Chemicals/ Glassware/Pasticware	Chemicals/ Glassware/Pasticware	Medox, Genex, BOROSIL, JSGW, RIVIERA, TARSON, POLYLAB, Himedia, Merck, Sigma, Qualigen, Genei, BIORAD, Thermo Fisher, Any Other Reputed Brand for Molecular Biology and Protein	For smooth conduction of practical and project work (Quotation call for Discount structure before application of GST)
02	Museum Specimen and Model	Museum specimens for Zoology Classes	Museum Specimens of Invertebrates to Vertebrates, Bones, Permanent Slides (Dev. Biol., Tissue, Dissection, Scales etc)	For smooth conduction of practical and project work

The sealed cover should be super scribed with “**Quotation for the Department of ZOOLOGY**”.

The quotation/offer should reach by speed post/registered post in this office on or before 06-01-2018. The sealed quotation/offer will be opened at 11.30AM on 08-01-2018 in the Conference Hall of the college.

For any clarification and doubt firms may contact the concerned officers over phone.

Contact No.: 9778009419

Our website <http://www.gacbhawanipatna.org> may be referred for detail information.

The undersigned reserves the right to cancel/reject any or all the quotation without assigning any reason thereof.

Sd/-
PRINCIPAL
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Dt. 19-12-2017

**Quotation Call Notice
(For Department of BOTANY ONLY)**

Sl. No.	NAME OF THE EQUIPMENT
I.	Lab Equipments
	1. Research Microscopes
	2. Compound Microscope
	3. Camera (DSLR)
	4. Agarose gel electrophoresis
	5. Inoculation Loops
	6. Micropipette
	7. Column Chromatographic Tube
	8. Disc type filter paper
	9. Colored Cellophane papers
	10. Filter glass disc
	11. pH paper
	12. Haemocytometer
	13. Quadrats
	14. Soil thermometer
	15. maximum and minimum thermometer
	16. Anemometer
	17. Psychrometer/Hygrometer
	18. Rain Gauge
	19. Lux Meter
	20. Chromatography Paper
	21. Culture Rack
II.	1. Chemicals [Company wise rate of discount is to be quoted]
	2. Glassware, Charts and Models [Category wise and company wise rate of discount is to be quoted]
III.	Lab infrastructure development
	1. Hard top Base
	2. Laboratory Chairs
	3. Electrification

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Contact No.: 9861115351

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Dt. 19-12-2017

Quotation Call Notice

(For Department of CHEMISTRY ONLY)

1-Equipments

Sl No.	Items/ apparatus
01	Mini digital Incubator stainless steel sensitivity + -1 with 16 inches chamber each . Dico , Insif (branded)
02	Water still Aluminium cast distillation condenser of stainless steel approx.5/6 liter. Dico , branded
03	Viscometer, college pattern 80-100 Sec. Borosil
04	Thin Layer Chromatography kitt. borosil, jsqw, insif
05	Digital photo electric Colorimeter Systronic, (branded)
06	Safety-goggles for uv (Tarson)
07	Copper calorimeter teak wood set 4 × 3 (brand)
08	Top Pan Digital Balance sens 300gm/0.001gm citizen Dico, Sansui.
09	Lab Spectrophotometer Uv-Visible, Single beam, double beam MettlerToledo, Wensar, Systronics.
10	LCD Projector with Wall hanging kitt , Sony Automatic screen 8" AAV/ Suvera

2. (A) Glassware

Sl. No.	items
01	Beaker 500ml Borosil Beaker 1000ml borosil
02	Conical flask 250 ml borosil Conical flask (5400) 250 ml. with stopper iodine determination
03	Volumetric flask 250ml borosil, 27 ⁰
04	Funnels 75 mm borosil
05	Double blue glass
06	Test tube borosil Test tube ordinary
07	Watch glass
08	Filter Papers
09	Stoppers glass bottle

(B) Chemicals (500ml/gm each) Merck, Qualigens.

01	Amino acid solution glycine
02	Iodine monochloride reagents
03	Diethyle ether
04	Styrene monomer
05	Formal dehyde solution
06	Tetrahydro furan
07	Poly vinyl alcohol, PVOH
08	Barium sulphate
09	Na K Tartarate

3. Infrastructure

01	Laboratory table, (Methodex or equiv.)
02	Laboratory Desk cum Bench (Three-seater) Methodex/Equivalentents

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Contact No.: 9438127888

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**Quotation Call Notice
(For Department of GEOGRAPHY ONLY)
Equipment**

Sl#	Equipment	Specification
1	Rain gauge	Self-collecting rain gauge with recording
2	Min-Max Thermometer	
3	Wind Vane	
4	Hygro Meter	
5	Barometer	
6	Spectrophotometer	
7	Scientific Calculator	

Infrastructure

Sl#	Particular	Specification
1	Inverter with Battery (3KVA)	3.5 KVA Inverter with 4 Batteries
2	Repairing, coloring and maintenance of lab. tables chairs and electrical repairing.	NA
3	Fire Extinguisher	Class E, 6 liters (One), Class ABC, (litters) One

Chemical and Glassware

Sl#	Particular	Specification
1	Toposheet with Clothing	Scale 1:50000, preferably of Kalahandi District
2	Geological Map with Clothing	Scale 1:50000, preferably of Kalahandi District
3	Weather Map with Clothing	Scale 1:50000, preferably of Kalahandi District
4	Air photo	Preferably of Photo of Odisha
5	Cartridge for Printer	LaserJet 12A

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Contact No.: 9861443980

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Quotation Call Notice
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Sl. No.	Item
Equipment	
1.	Potentiometer college pattern with ten wires
2.	Potentiometer with four wires
3.	Sextent (to measure height of a building)
4.	Multimeter (Digital type)
5.	Carly foster's bridge (to measure low resistance)
6.	De Sauty's bridge (to compare capacitances)
7.	Anderson's bridge (to determine self inductance of the coil)
8.	Michelson's interferometer
9.	Searle's apparatus set up to determine coefficient of thermal conductivity of copper
10.	Lee and chartons' disc setup method to determine coefficient of thermal conductivity of a bad conductor.
11.	Platinum resistance thermometer (to determine the temperature coefficient of resistance)
12.	Angstram's method set up(to determine coefficient of thermal conductivity of copper)
13.	Thermocopules
14.	8085 microprocessor
15.	Full adder IC
16.	555 Timer
17.	Tunnel diode I-V characteristic set up (digital type/Analogtype)
18.	Millikan's oil drop apparatus (to determine charge of an electron)
19.	Planck's constant determination set up (photo-detector & block body radiation)
20.	PN Junction diode I-V characteristic set up (Digital type/Analog type)
21.	Light emitting diode I-V characteristic set up (Digital type/Analog type)
22.	Zener diode I-V characteristics set up (Digital type/Analog type)

Sl. No.	Item
23.	Op-Amp (741 & 351)
24.	Electromagnet with pole pieces which are adjustable. (For Quincke's Tube method experiment)
25.	Surface Plasmon resonance (KIT)
26.	Four probe set up (to measure the resistivity of a semi conductor (Ge) with temperature.
27.	Polarimeter
28.	Babuinet's compensator
29.	Dipole antenna (to study dependence of radiation on angle for a simple dipole antenna)
30.	Sonometer (for AC frequency calculation set up)
31.	Convex lens of focal length 10 cm, 15 cm
32.	Concave lens of focal length 10 cm, 15 cm
33.	Convex mirror of focal length 10cm, 15cm
34.	Concave mirror of focal length 10cm, 15cm
35.	Voltmeter, 0-3 volt range, least count-0.05volt
36.	Milli ammeter (0-500ma & 0-50ma dual range), least count, 10 divisions=100mA or 10mA)
37.	Moving coil galvanometer
38.	Meterbridge
39.	Searle's apparatus for determining young's modulus of wire.
40.	Boyle's law apparatus
41.	Travelling microscope
42.	Vernier apparatus for determing Yang's modulus of the wire
43.	Volt meter (0-10 voet range), Accuracy $\pm 2.0\%$, least count=0.01 volt (Analog type)
44.	Ammeter (-1 to +3 ampere, -0.2 to 0.6A) in one set with two range, least count 10diision=1unit (Analog type)
45.	Galvanometer with lamp and scale arrangement (Analog type)
46.	Resonance tube
47.	DC Ammeter (Range 0-50mA, 0-500mA, 0-5A in one set) least count 10divisions=1 unit)
48.	Digital ammeter
49.	Digital voltmeter
50.	Digital voltmeter & Ammeter, DC 0-200v/100A, Two in One type
51.	Digital galvanometer 600-0-600 μ A DC, battery operated.

Sl. No.	Item
52.	Conversion/calibration of galvanometer into Ammeter & Voltmeter (ASICO) KIT (Three in one kit)
53.	Instrumental sets to measure the coupling coefficient of a piezoelectric crystal.
54.	Instrumental sets to measure dielectric constant of a dielectric material with frequency.
55.	Digital gauss meter. (for Quincke's Tube method experiment)

Infrastructure

Sl. No.	Item
1.	Green Chalk Board (6 feet x 4 feet)
2.	Magnet white board combo (5ft x 4 ft)
3.	Laboratory stool of stainless steel
4.	Room ventilator fans (of Bajaj maxima 300 mm exhaust fan)
5.	Laboratory chairs movable type
6.	Water connection to laboratory
7.	Tops of the furniture (Laboratory tables & classroom tables)
8.	Magnet dusters

Chemicals/ Glassware/ Pasticware

Sl. No.	Item
1.	Chemicals/ Glassware/Pasticware Medox, Genex, BOROSIL, JSGW, RIVIERA, TARSON, POLYLAB, Himedia, Merck, Sigma, Qualigen, Genei, BIORAD, Thermo Fisher, Any Other Reputed Brand [Category wise and company wise rate of Discount is to be quoted]

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Contact No.: 9439841230

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