

OFFICE OF THE PRINCIPAL, SHAILABALA WOMEN'S COLLEGE, CUTTACK.Quotation Call NoticeNo. 7447 /Dt. 22/12/17

Scaled quotations are invited from the interested and eligible manufacturers/ agencies/ firm/suppliers bearing valid GST Registration No. with updated tax payment, Authorization Certificate for the brand and income tax clearance for supply and installation of laboratory equipment and infrastructure for Departments of Physics, Chemistry, Botany, Zoology and Home Science of the college.

The sealed quotations must reach the undersigned on or before **dt.15.01.2018** by **4.00 P.M.** The same will be opened in the chamber of the Principal in the Purchase Committee on **16.01.2018**. The Quotation price shall include all taxes (showing separately) with free delivery and installation in respective Lab/Department. The bidders are requested to go through the terms and condition enclosed herewith. The details of the items are also enclosed herewith.



Principal

Shailabala Women's College, Cuttack

Terms and Conditions

1. Bidders are requested to apply separately for each department.
2. Envelope should be super scribed by the name of the items (equipment/infrastructure/Chemicals & Glassware) for which quotations are to be made for each department.
3. Photocopy of authorized dealership certificate.
4. Photocopy of GST Clearance Certificate.
5. Photocopy of up-to-date GST Registration Certificate.
6. Photocopy of PAN.
7. Rate quoted should be exclusive of GST, GST to be mentioned separately.
8. Quotations without authentic documents and incomplete quotations are to be rejected.
9. Items should be delivered/installed in the respective Lab /department at free of cost.
10. Payments will be released only after inspection by the member of committee (as by technical committee wherever necessary).
11. Payments will be released subject to satisfactory demonstration/working of the equipments/instruments.
12. Confirmation of the delivery of items is to be made within 3 days from the date of issue of order. Goods should be delivered within 15 days from the date of issue of order.
13. Payments shall be made in the mode of A/C payee cheque/transfer to the bank account of the firm through NEFT/RTGS.
14. Further details if required are available with the concerned HODs (on any working day before submitting the bid documents) of the college.
15. Principal reserves the rights to reject any/all quotations without specifying reason thereof.

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22/12/17

Principal

Shailabala Women's College, Cuttack

Department of Chemistry

EQUIPMENTS

1. Potentiometer of reputed brand
2. Conductivity meter of reputed brand
3. Thermometer (-10 to 300⁰ c)
4. Suction Pump & accessories
 - a. Conical flask with side outlet (500ml/1000ml Capacity)
 - b. Buchner funnel
 - c. Glass adaptor with IR cone
 - d. Rubber Tube

Laboratory infrastructure (Laboratory Furniture)

1. Door arrangement to wall Almira's of size 22 1/2" X 64 1/2" (Approx)
(Wood/Aluminium/Synthetic)
2. Reagent storage Almira 7' X 3'-6" X 24" (Wood/Aluminium/Synthetic)

LIST OF CHEMICALS AND GLASSWARES

1. Dimethyl Glyoxime
2. KI (Potassium Iodide)
3. Sodium bicarbonate
4. Ferrous Sulfate
5. Ammonium Sulphate
6. Potassium Sulphate
7. Zinc Sulphate
8. Potassium Thiocyanate
9. Ammonium Thiocyanate
10. Nichrome Wire
11. Copper foil
12. Ferric Chloride
13. 2- Naphthol
14. 1- Naphthol
15. P-Chloroaniline
16. Acetaldehyde
17. 2,4 Dinitro Phenyl Hydrazine
18. O-Toluidine
19. P-Toluidine
20. Cyclohexane
21. Ethylacetate
22. Acetone
23. Ethylalcohol
24. Salicylic Acid
25. Thiourea
26. Acetic Acid
27. Hydrochloric Acid
28. Sulphuric Acid
29. Sodium Hydroxide
30. P^H-4 Tablet
31. Filter Paper Ordinary
32. Fructose
33. Glucose

34. Acetanilide
35. Silver Nitrate
36. Sodium Nitrate Prusside
37. Ferric Chloride
38. Nitric Acid
39. Benzoic
40. Chlorobenzene
41. Copper Sulphate
42. EDTA
43. Feling A
44. Feling B
45. Tollens Reagent
46. Aluminium Sulphate
47. Amonium Carbonate
48. 1-Chloro-2,4 Dinitro benzene
49. P-Bromo Aniline
50. Blow pipe Brass/Ordinary (12 inch)
51. Test Tube
52. Capillary Tube (Ordinary)
53. G-3, G-4 Crucible
54. Flask with water condenser fitting along with rubber tube.
Water Condenser-300mm, Round bottom flask-250ml, 500ml (capacity)
55. Desiccators 150 mm

Department of Physics

EQUIPMENTS

1. To determine the Dielectric constant of a dielectric material with frequency.
2. To verify Malus law for plane polarised light.
3. To determine the Boltzmann constant using V-I characteristics of pn-Junction diode.
4. To measure the Resistivity of Ge with temp using Four-Probe method and hence find out the band -gap (From room temp to 150⁰ c)
5. To design a digital to analog converter (ADC)
6. To study the analog to digital converter (DAC)
7. To determine Planck's constant using LEDs of at least 4 different colours.
8. To study the V-I & power curves of solar cells and find max. power point and efficiency.
9. To determine the Hall coefficient of semiconductor sample by Hall effect. (Measuring instrument such as digital balance, etc. not required)
10. To verify Stefan's law of Radiation and determine Stefan's Constant.
11. To show the Tunnelling effect in Tunnel diode using V-I characteristics.
12. To study the frequency response of voltage gain of RC coupled transistor amplifier with Function generator (1 HZ-100 kHz)
13. Mercury Discharge Tube
14. Pencil Jockey
15. Battery Eliminator (0-5v) 3 Amp.
(0-12v)3 Amp.

Laboratory infrastructure (Laboratory Furniture)

1. Laboratory Stool (Stainless Steel) with oval shape top [12" (width) x 18" (length)] and 24" height and leg support.
2. Steel/Wood/ Plywood Cupboard with sliding glass doors of dimensions 6' x 3' x 16" having four racks in the Computer lab.
3. Laboratory Stool (Wooden) Sal with oval shape top (12" width x 27" height).

Department of Zoology

EQUIPMENTS

1. **LCD Projector-**

3 LCD Technology
0.55 inch with MLA (D9)
Resolution X GA, 1024X 768, 4:3.
Contrast Ratio 15,000:1
Project Ratio 1.48-1.77:1
Zoom-Digital/Manual
Image Size 30 inches-350 inches
Focal Distance-16.9mm-20.28 mm-Manual

2. **Laptop-**

WP/Microprocessor-Intel-Core i3-6006U (2GH,3MB Cache, 2 Cores)
Ram-4GB DDRA-2133SDRAM (1 X 4GB)
DVD-Writer
Display-39, 62 cm, Wireless Connectivity
Operating System-Windows 10 Home Single language 14
Battery Type-4-Cell 41 wh Lion.

Laboratory infrastructure (Laboratory Furniture)

1. **Laboratory Store-**

- a. Specification-Sal made 22" height oval Top with 16" round.
- b. Specification-Plastic made 18" height square top 12" X 12".

Department of Botany

EQUIPMENTS

1. **Multi Parameter Analyser**- Facility to measure P^H , MV, Temperature, Conductivity, TDS, Salinity, DO, Colorimeter, Turbidity having Printer Port and LCD display.
2. **P^H Meter (Digital)**- Micro Control base with electrode and temperature probe, Automatic calibration with 2/3 point, Printer Port
3. **Table top Digital Balance**-Capacity 100gm to 10.000 gm
Sensitivity-0.1 gm

Laboratory Infrastructure (Laboratory Furniture)

1. **Students Stool for Practical Lab**
Specification- Made of Stainless Steel, oval top- 22" Height
Made of wood, oval top -22" Height
2. **Cupboard -**
 - i. Wall hanging Cupboard of size 58" w x 40" h x 12" d made of Teak Wood with shelf and fitted with glass sliding door.
 - ii. Wall hanging Cupboard of size 48" w x 45" h x 6" d made of Teak Wood with shelf and fitted with glass sliding door.
 - iii. Wall hanging Cupboard of size 31" w x 30" h x 6" d made of Teak Wood with shelf and fitted with glass sliding door.
 - iv. Wall hanging Cupboard of size 44" w x 45" h x 6" d made of Teak Wood with shelf and fitted with glass sliding door.
 - v. Wall hanging Cupboard of size 35" w x 45" h x 19" d made of Teak Wood with shelf and fitted with glass sliding door.
 - vi. Wall hanging Cupboard of size 35" w x 45" h x 19" d made of Teak Wood with shelf and fitted with door system and locking pattern.

Glass wares

1. Test Tube 15ml/50 ml
2. Test tube Stand
3. Pipette 10 ml/20ml
4. Pipette Stand
5. Beaker 50 ml/100ml/500ml
6. Conical Flask 100 ml/250ml/500ml
7. Reagent Bottle 250ml
8. Dropping Bottle 60ml
9. Chromatography tube (Culture tube)
10. Test tube holder
11. Centrifuse tube 15 ml
12. Measuring Cylinder
13. Split Cork
14. Squashing Needled (Rod)
15. Water Bath
16. Petridishes 6/9/12cm
17. Morter & Pestle
18. Cavity Block (Porcelain)
19. Slide and Cover Slips
20. Micropipette

Chemicals

1. Safranin
2. Haematoxylin
3. Cotton Blue
4. Acetocarmine
5. DPX. Mountant
6. Xylene
7. Glycerol
8. Copper Sulphate
9. Acetone
10. Sodium hydroxide
11. Formalin
12. Sodium Bicarbonate
13. Fehling Solution -A
14. Fehling Solution -B
15. Potassium Chloride
16. Dextrose
17. Phosphate Buffer
18. PH indicator
19. Cotton
20. Buffer Tablets (4/7/9)
21. Copper Sulphate
22. Formalin
23. Ethanol
24. Chromatography Paper
25. Blotting Paper
26. Potassium Chloride
27. Hydrochloric acid
28. Paraffin Liquid
29. Hydrochloric Peroxide
30. Grease/Vaseline
31. Gram's Staining Reagent
32. Petroleum ether
33. Cobalt chloride paper

Class work materials

FUNGI:-

Rhizopus
Saccharomyces
Penicillium
Alternaria
Albugo
Puccinia

BRYOPHYTA:-

Sphagnum
Anthoceros
Riccia
Marchantia

PTERIDOPHYTA:-

Equisetum Strobilus

GYMNOSPERM:-

Pinus microsporophy
Gnetum Male Core
Gnetum Female Core
Ginkgo

Permanent Slides

ALGAE:-

Chlamydomonas
Coleochaete
Thallus with spermocyp
Chara L.S. of globule
Chara L.S of Nucule
Vaucheria with sex organ
Oedogonium male (Antheredia)

FUNGI:-

Rhizopus
Saccharomyces
Alternaria
Penicillium mycelium with conidiophore
Puccinia teleutosorus
Lichen thallus(T.S)
Puccinia Uredospores

BRYOPHYTA:-

Sphagnum (T.S)
Sphagnum-L.S of Antheridial
Sphagnum-L.S of Archegonial
Sphagnum-L.S of Capsule

Models

1. RNA
2. DNA
3. Bacteria
4. Virus
5. Cell
6. Protein Synthesis
7. Gene Regulations

Department of Home Science

EQUIPMENTS

1. **Fire Extinguisher-2nos**
ABC Powder Type (Stored Pressure) 6 Kg capacity ISI Mark

2. **Fully Automatic Top Load-1 no**
Washing Machine 6.5 kg capacity