



**OFFICE OF THE PRINCIPAL  
PATTAMUNDAI COLLEGE, PATTAMUNDAI,  
DIST: KENDRAPARA**

Ref No. 617


dt. 07/05/2021

**TENDER CALL NOTICE**

We are interested to purchase Science Laboratories Equipments for Physics, Chemistry, Botany & Zoology Laboratories of Pattamundai College, Pattamundai in the district of Kendrapara. The funds available from the DHE, Govt. of Odisha Grant. The details list is attached herewith as an annexure. Interested firm having GSTN, PAN & TAX Clearance may send their quotation through our college e-Mail: [pattamundaicollege@gmail.com](mailto:pattamundaicollege@gmail.com) on or before 12.05.2021 taking into consideration of following terms and conditions.

**Terms & Conditions of the Quotation:**

1. The rates quoted should be constant for at least 4 months from the date of offering quotations.
2. Specification of equipments and its brand name is mandatory.
3. Dealer Registration Certificate from the manufacturer company is also required.
4. Payment will be made after receiving materials in good & functioning conditions through online payment as per specification and brand.
5. The authority reserves the right to reject all quotations without assigning any reason thereof.

  
Principal

Pattamundai College  
Principal  
Pattamundai College

  
Principal

DEPARTMENT OF CHEMISTRY

List of Apparatus		
Sl No	Name of the Apparatus/Equipments	No
1	Double beam UV-VIS Spectrophotometer with PC 2202(Systronics) x	1
2	Micro burette x	2
3	LCD Projector x	1
4	Spectrophotometric titration cell x	1
5	Digital pH meter with electrode x -	1
6	Conductivity meter with accessories -	1
7	Potentiometer with accessories -	1
8	Wheatstone Bridge -	2
9	Calomel Electrode & Platinum Electrode -	1
10	Heating mantle Cap-1000 ml -	1
11	Beckman Thermometer x	2
12	Melting point Apparatus(Systronics) -	1
13	Viscometer -	3
14	Copper Calorimeter -	2
15	Stalagmometer -	6
16	Stop watch -	3
17	Thermometer -	2

*Dushan P.S.*

HOD,  
CHEMISTRY

## **LIST OF APPARATUS FOR PHYSICS LABORATORY**

1. Study of electron spin resonance- determine magnetic field as a function of the resonance frequency. ✓
2. To determine the value of  $e/m$  magnetic focusing with analog meter. ✓
3. To measure the band gap of a given semiconductor by four -probe method with analog meter. ✓
4. To determine the temperature co-efficient of resistance by Platinum resistance thermometer(PRT). ✓
5. Measurement of Magnetic field strength and its variation in a solenoid. ✓
6. To determine the specific rotation of sugar solution using polarimeter. ✓
7. To design an astable multivibrator of a given specifications using 555 Timer with analog meters. ✓
8. To study the characteristics of a bipolar junction transistor both in CE and CB configurations with analog meters. ✓
9. To determine an unknown low resistance using potentiometer with analog meters. ✓
10. To study the characteristics of a series R-C circuit with analog meters. ✓
11. To design a monostable multivibrator of a given specification using 555 timer with analog meters. ✓

Ramesh Kumar Sahoo

# List of Laboratory Equipments for Dept. of Zoology

## Pattamundai college, Pattamundai

### Museum Specimens:

1. Sycon ✓	2. Hyalonema ✓
3. Obelia ✓	4. Physalia ✓
5. Tubipora ✓	6. Corallium ✓
7. Penatula ✓	8. Madrepora ✓
9. Taenia solium ✓	10. Ascaris (Male & Female) ✓
11. Heteronereis ✓	12. Sabella ✓
13. Hirudinnaria ✓	14. Daphnia ✓
15. Eupagurus ✓	16. Scolopendra ✓
17. Chiton ✓	18. Dentallium
19. Sepia	20. Octopus ✓
21. Asterias ✓	22. Ophiura ✓
23. Antedon ✓	24. Balanoglossus ✓
25. Petromyzon ✓	26. Myxine ✓
27. Pristis ✓	28. Torpedo ✓
29. Exocoetus ✓	30. Echinus ✓
31. Tetradon ✓	32. Salamander ✓
33. Necturus ✓	34. Frog ✓
35. Chameleon ✓	36. Garden Lizard ✓
37. Cuckoo ✓	38. Loris ✓
39. Euplactella ✓	40. Spongila ✓
41. Millepora ✓	42. Aurelia ✓
43. Gorgonia ✓	44. Metridium ✓
45. Ctenophora ✓	46. Fasciola ✓
47. Aphrodite ✓	48. Nereis ✓
49. Sertula ✓	50. Chitopterus ✓
51. Balanus ✓	52. Sacculina ✓
53. Julus ✓	54. Peripatus ✓
55. Helix ✓	56. Doris ✓
57. Nautilus ✓✗	58. Pentaceros ✓
59. Echinus ✓✗	60. Cucumaria ✓
61. Amphioxus ✓	62. Herdmania ✓
63. Scoliodon ✓	64. Sphyr ✓
65. Chaemera ✓	66. Mystus ✓
67. Anguilla ✓	68. Hippocampus ✓
69. Alytes ✓	70. Hyla ✓✗
71. Chelone ✓	72. Trionyx ✓
73. Draco ✓	74. Pigeon ✓
75. Bat ✓	76. Herpestes ✓

## Slides:

1. T.S. of different regions of Herdmania ✓	2. T.S. of different regions of Amphioxus ✓
3. T.S. and L.S. of Sycon ✓	4. V.S. of Kidney of mammal ✓
5. Amoeba ✓	6. Euglena ✓
7. Nerve cells ✓	8. T.S. of pancreas ✓
9. T.S. of Adrenal ✓	10. T.S. of Thyroid ✓
11. Blastula of Frog ✓	12. Gastrula of Frog ✓
13. Tadpole larva of frog ✓	14. Life cycle of ascaris ✓ (photograph/slide)
15. Polytene Chromosome ✗	16. Tail bud stage of frog ✓
17. Neurela ✓	18. Cleavage stages of frog ✓
19. T.S. of Parathyroid ✓	20. T.S. of Testis ✓
21. T.S. of Ovary ✓	22. Squamous Epithelium ✓
23. Striated Muscle Fibre ✓	24. Development of chick embryo ✓ (different hours)
25. Different section of Placenta ✓	26. T.S. of different regions of Balanoglossus ✓
27. Paramecium (Binary fission and conjugation in Paramecium) ✓	28. T.S. of Pitutary ✓

## Charts:

1. Digestive system ✓	2. Nephridia of earthworm ✓
3. DNA replication ✓	4. RNA ✓
5. Human karyotypes ✓	6. Pedigree analysis ✓
7. Carapace and plastron of turtle / tortoise ✓	8. Life Cycle of Ascaris ✓ (Photograph/slide)
9. Types of beaks ✓	10. Feathers and claws ✓
11. Transcription ✓	12. Split gene ✓
13. Life cycle of Drosophila ✓	14. Mammalian skull ✓

## Models:

1. Mammalian Heart ✓	2. Mammalian Kidney ✓
3. Mammalian Ear ✓	4. DNA ✓
5. Mammalian Lungs ✓	6. Mammalian Eye ✓

### Other Equipments:

1. pH meter -	2. Dissolve Oxygen Content (BOD, COD) -
3. TDS -	4. CO <sub>2</sub> +
5. Gel electrophoresis *	6. Water bath (6 hole) Electrical -
7. Paper Chromatography (for amino acids) -	8. Digital Weight Machine (01) -
9. Fluorescent microscope (01) -	10. Burette (08) -
11. Glass Stopper for bottles (08) -	12. Cavity Slides (08) -
13. Test tube stand (08) -	14. CO <sub>2</sub> x
15. Autoclave -	16. Centrifuge machine -
17. Spectrometer -	18. Digital pH meter x x
19. Micropipette (Borosil) -	20. Compound Microscope (16) -
21. Manual Weight Machine (01) -	22. Conical Flask (08) -
23. Pipette (08) -	24. Test tube - Borosil (24) -
25. Staining tube (04) x	26. Preparation materials for DNA and RNA slides

Dilip Kumar Dey  
H.O.D. 02.3.21

Dept. of Zoology  
Head of The Department  
Zoology  
Pattamundai College.

## List of Apparatus to be purchased for Botany Department

1. Horizontal Laminar Flow ✓
2. UV Spectrophotometer ✓
3. Projector
4. Herbarium Press ✓
5. Occular and Stage micrometer ✓
6. Soil Thermometer ✓
7. Soil pH meter ✓
8. Anemometer ✓
9. Psychrometer ✓
10. Rain gauge ✓
11. Hot Air Oven ✓
12. BOD incubator ✓
13. Digital water and soil analysis Kit ✓
14. Burette with stand ✓

Ajayati Kumari Dash  
H.-d.-D, Botany