

**OFFICE OF THE PRINCIPAL, MARSHAGHAI COLLEGE, MARSHAGHAI, KENDRAPARA**

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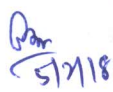
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**QUOTATION CALL NOTICE**

Sealed quotations are invited from registered Firms / Authorized Dealers / Suppliers having valid GSTN & PAN and IT Clearance Certificate for supply of Laboratory equipment, Solvent & Chemicals, Glassware, Fixture, Fittings etc. for different departments (Physics, Chemistry, Botany, Zoology). The name of the department should be superscribed on the top right corner on the cover of the quotation. Concerned Firms/Dealers should visit the college website: [www.marshaghaicollege.org](http://www.marshaghaicollege.org) for detail information.

The sealed quotation must reach in the office of the undersigned by speed post only by 4.00 P.M. on or before 17.02.2018 and same will be opened in Principal's Chamber at 4.00 P.M on 20.02.2018. The quoted Price should include all Taxes with free delivery, installation and demonstration (if required).

The Authority reserves the right to cancel or reject any or all quotations without assigning any reason thereof.

  
Principal  
Sd/-Principal  
Marshaghai College, Marshaghai  


# APPARATUS REQUIRED FOR +3 PHYSICS LABORATORY (1)

## ( JAINCO COMPANY)

1. Max well's rigidity modulus apparatus	: 2 NOS.
2. Searle' apparatus for young's modulus	: 1 set
3. Barton's rigidity modulus apparatus	: 2 sets
4. Travelling microscope	: 2 NOS.
5. Telescope	: 2 NOS.
6. Carey foster's bridge (JAINCO)	: 2 NOS.
7. Potentiometer (1000 cm wire JA INCO of 10 pieces)	: 2 NOS.
8. P-N junction Diode	: 4 NOS.
9. Diode valve apparatus with power supply	: 4 NOS.
10. Triode valve apparatus with (power supply)	: 4 NOS.
11. New ton's ring apparatus (with microscope)	: 4 NOS.
12. Sodium vapor Lamp with power supply with power supply	: 4 NOS.
13. Diode valve	: 4 NOS.
14. Stoke's law apparatus	: 4 NOS.
15. Bar pendulum	: 2 NOS.
16. Kate's pendulum (JAINCO)	: 2 NOS.
17. Stop watch	: 6 NOS.
18. Multimeter (JAINCO)	: 5 NOS.
19. Resister (Colour Code)	:
20. Capacitor (1-2/uf)	: 4 NOS.
21. Connecting wires	: 1 Kg
22. Sextant	: 1 Set
23. Fly wheel	: 1 set
24. R-C circuit (JAINCO) complete	: 1 set
25. De sauty's Bridge (JAINCO)	: 1 set
26. Anderson's Bridge (JAINCO)	: 1 set
27. Spectrometer (JAINCO)	: 2 NOS.
28. Apparatus for diffraction grating expt.	: 2 NOS.
29. PNP transistor (CE & CB mode)	:
30. NPN transistor (CE & CB mode)	:
31. INVERTER	: 1 NOS.
32. Computer	: 5 NOS.
33. Apparatus for mechanical equivalent(j) Of heat by calorimeter	: 2 sets
34. Thermal conductivity lee's disc method	: 2 sets
35. Series LCR circuit	: 1 NOS.
36. CRO (cathode ray oscilloscope)	: 1 NOS.
37. Half Adder.	: 1 set (JAINCO)
38. Full Adder.	: 1 Set (JAINCO)
39. Apparatus for verification and design of logic gates (AND,OR, NOT, XOR, NAND gates)(JAINCO)	: 1 Set (JAINCO)
40. Apparatus for verification of thevnin & Norton Theorem	: 1 set each
41. Apparatus for verification of super position and maximum power Transfer theorem.	: 1 set each
42. Apparatus to design an a stable multivibrator	: 1 set
43. Apparatus to design a monostable multivibrator	: 1 set
44. Apparatus to study v-I characteristics of LED	:
45. Apparatus to study v-I characteristics of a zinerdioda and its use as voltage regulator.	:

46. Apparatus to study v-I and power curves of solar cell. :
47. Millikan's oil drop apparatus. :
48. Colpitt's oscillator. :
49. Platinum resistance thermometer. :
50. Apparatus to determine work function of filament of directly heated vacuum diode. :

### **APPARATUS FOR +2 PHYSICS LABORATORY(JAINCO COMPANY)**

1. Slide calipers.(JAINCO) ( with box ) : 12 NOS.
2. Screw Gauge (INCO) 25x 1mm) with box : 12 NOS.
3. Spherometer (INCO) (with circular disc) : 12 NOS.
4. Prism (equilateral) (5cmx 5cmx 5cm) : 12 NOS.
5. Stope watch (Racer ) 06 NOS.
6. Ohm's law apparatus with power supply (JAINCO) : 4 NOS.
7. Meter bridge (JAINCO) : 4 NOS
8. Potentiometer (JAINCO) : 4 NOS.
9. P-N junction Diode (IN BUILT) : 4 NOS.
10. Moving coil Galvanometer : 1 NO.
11. Travelling microscope (JAINCO) : 4 NOS.
12. Resistance Box (JAINCO)
  - (I) 1 ohm -10 Ohm : 2 NOS.
  - (II) 1 ohm -100 ohm : 2 NOS.
  - (III) 10 ohm -10000 ohm : 2 NOS
  - (IV) 1 ohm- 100 ohm : 2 NOS
13. Spirit level (JAINCO) : 6 NOS.
14. Drawing pins : 12 Pkts.
15. Hair pins : 12 Pkts.
16. Convex lens focal length 20 cm : 6 NOS.
- Focal length 25 cm : 6 NOS.
17. Concave mirror focal length 20 cm : 6 NOS.
- Focal length 25 cm : 6 NOS
- Focal length 30 cm : 6 NOS
18. Lycopodium powder :
19. Zener Diode characteristics apparatus : 1 set

### **DEPARTMENT OF ZOOLOGY**

#### **SLIDE (BIOTCH & SCIENTIFIC INDUSTRIES)**

- 1 Binary fission and conjugation in paramecium.
- 2 Life stages of plasmodium vivax.
- 3 T.S of sycon.
- 4 Ts and L.S of meridian.
- 5 Life cycle of fasciola and taemia.
- 6 Spicules of Herdmania .
- 7 Permanent slides of various stages of mitosis and meiosis.
- 8 Typhlosolar intestine of earth worm.
- 9 Sections of mammalian lungs and kidney
- 10 Branchiogenital regions of Balanoglosses pharynx, intestine and caudal, regions of Amphioxus.
- 11 Skin, nerve cell, adrenal, parathyroid, thyroid, pituitary and testis of mammal.

## MODELS(BIOTECH COMPANY)

- 1) Human heart , Eye , Ear, Brain and Kidney with ureter.

### BONES (Axial & Appendicle)

1. Amphibian bone (limb, Vertebrae, skull) : 2 sets
2. Varanus bone (limb & girdle & skull ) :2sets
3. Fowl bone (limbs & girdles skull) :2sets
4. Rabbit bone (Axial and Appendicular) : 2sets

## DEPT OF ZOOLOGY

### Museum Specimen(Biotech & Scientific Industries)

- |                             |                                |
|-----------------------------|--------------------------------|
| 1. Aurelia                  | 19. Anguilla                   |
| 2. Corallium                | 20. Tetradon                   |
| 3. Alcyonium                | 21. Necturus                   |
| 4. Asearis (Male)           | 22. Polypedates                |
| 5. Asearis (Female)         | 23. Hyla                       |
| 6. Tarbella                 | 24. Uromastix                  |
| 7. Daphnia                  | 25. Ophiosaur                  |
| 8. Palaemon                 | 26. Bungarus                   |
| 9. Palmnaeus                | 27. Naja                       |
| 10. Life Cycle of silk moth | 28. Hydrophis                  |
| 11. Octopus                 | 29. Pigeon                     |
| 12. Cucumaria               | 30. Parrot                     |
| 13. Doris                   | 31. Crow                       |
| 14. Ophiura                 | 32. Wood warblers              |
| 15. Petromyzon              | 33. White breasted King fisher |
| 16. Myxine                  | 34. Bat (Fugivorous)           |
| 17. Trygon                  | 35. Loris                      |
| 18. Chimuera                | 36. Funambulus                 |

## DEPT OF ZOOLOGY

### CHEMICALS (MERCK COMPANY)

1. Soyabean Powder
2. Sodium Potassium tartrate
3. Cupper Sulphate
4. Eosin (100mlx4)
5. Phenolphthaline (100 ml x 4)
6. Rectified /methylated sprit (500 ml)
7. P<sup>H</sup> Paper (1 packet)

### Instrument Apparatus

- |                                    |                                  |
|------------------------------------|----------------------------------|
| 1. Bunsen Burner                   | : 2 No (INSIF)                   |
| 2. LPG cylinder connection         | :                                |
| 3. Small chart stand               | : 1 NO                           |
| 4. Compound microscope –Lebo-      | : 2 NOS /metzer -38              |
| 5. Burette Plastic Rankem /Borosil | : 6 NOS                          |
| 6. Burette stand                   | : 6 NOS ( Poly lab company)      |
| 7. Blank slide packet              | : 4 packet (Borosel company)     |
| 8. Cover slip                      | : 4 packet (Borosel company)     |
| 9. Test tube                       | : 1 packets(Borosel company)     |
| 10. Sphygnomanometer Biotech       | : 2 NOS & scientific industries. |

## BOTANY DEPARTMENT

### List of Equipments, Glasswares, Chemicals.....etc.

#### (A) NEW EQUIPMENTS:-

1. Compound microscope : Metzger -38  
Lens Binocular. : 2 NOS model n
2. P<sup>H</sup>meter (Bio-red) : metzger 602 m
3. Soil Thermo meter( spectrum company) : model No 6300(0. To 160 F)
4. Mortar and pestle, Large size- : 6 NOS

#### (B) GLASSWARES :- (BOROSIL)

1. Thermoflask : 2 NOS.
2. Beaker : 2 NOS.
3. Conical flask : 6 NOS
4. Dropping pipette : 6 NOS.
5. Ganong's potometer : 4 NOS.
6. Wilmott's Bubbler : 4 NOS.
7. Farmer's photometer : 4 NOS
8. T/A Apparatus 4 NOS.

#### (c) Museum specimen : -(BIOTECH)

1. Cycas Male cone  
Female cone
2. Pinus Male cone  
Female cone
3. Lichens :- Crustobe  
Fructicobe  
Folise  
V.S of Apothecium Licheny
4. Pitcher plant
5. Modified Tap root
6. Cuscuta reflexa

#### (D) Plant Materials & Permanent Slides:-

(BIOTECH )(Vegetative & Reproductive Parts)

##### Algae:

1. Nostoc
2. Chlamydomonas
3. Oedogonium
4. Chara
5. Vaucheria
6. Ectocarpus
7. Fucus
8. Polysiphonia
9. Coleochaete

##### Fungi:

1. Puccinia
2. Peziza
3. Albugo
4. Phytophthora

##### Bryophyta:

1. Riccia
2. Marchantia
3. Anthoceros
4. Funaria
5. Pellia
6. Porella

##### Pteridophyta:

1. Selaginella
2. Equisetum
3. Pteris
4. Psilotum

### (E) Chart (Rexin):-

1. Mitosis
2. Meiosis
3. Monocot & Dicot Stem
4. TMV virus
5. Lytic & Lydogenic Phage
6. Different types of ovules
7. Test tube Tube pollination (Photography)
8. DNA Structure
9. DNA Replication
10. Prokayotic RNA Polymerage
11. Eukaryotic RNA Poly merabe

### (F) Chemicals:-

1. BDH universal Indicator-MERCK COMPANY

#### DEPTT. OF CHEMISTRY

#### APPARATUS & CHEMICALS (Systronic Company)

<u>SI.NO</u>	<u>Equipporent</u>	<u>Brand</u>
1.	Digital Balance Capacity -200 gm Redability	
2.	Microprocessier Based Caloriemeter	
3.	Microprocessor based Potentio meter	
4.	Microprocessor based visible Spectro photometer	
5.	Microprocessor based Conductivity meter	
6.	Micro Processier based PH meter	
7.	Auto melting Point Appratus -Digital	

#### CHEMICALS(QUALIZEMS BRAND)

1. 2,4 Dinitroaniline	:500gm
2. Acetanilide -	:500ml
3. Carban disulphide -	:500 gm
4. Chloro benzene -	:2.5 l t
5. Chlorol-	:500 gm
6. Iodoform -	:250 gm
7. P-Dichloro benzene -	:500 gm
8. Benzene sulphonic acid -	:500 gm
9. Thiourea -	:500 gm
10. Di- nitrobenzene -	:500 gm
11. Phenol -	:500 gm

#### Glass -APPARATUS (BOROSIL company)

1. Pipette- 2 m.l -	(10 NOS)
2. Piptte - 20 m.l -	(10 NOS)
3. Beaker -50 m.l	(10 NOS)
4. Beaker - 100 m.l	(10 NOS)