

Government General Degree College, Kharagpur-II

Quotations are requested for the supply of following items to the

Department of Botany

For the 2018-2019 Financial Year

[Items must be quoted in the same sequence as they are mentioned below]

Group – A [Instruments]

Microscopes:

- Compound Student Microscope – eyepiece 10x, 15x achromatic objective 10x, 40x/45x, with mechanical stage. With good build quality, LED illumination source preferred.
- Compound Student Microscope – eyepiece 10x, 15x, achromatic objective 10x, 40x/45x, 100x, with mechanical stage. With good build quality, substage LED illumination source
- Trinocular upright microscope for demonstration (high quality) such as Magnus MLX TR plus or equivalent – 10x, 40x, 100x oil immersion, complete with substage illumination source, condenser, mechanical stage etc. dust cover
- Magnus MagCam DC and MagVision Software
- Phase contrast attachment for Magnus MLX TR Plus
- Binocular upright microscope for demonstration (high quality) such as Magnus MLX TR plus or equivalent – 10x, 40x, 100x oil immersion, complete with substage illumination source, condenser, Mechanical movable stage etc. dust cover
- Inverted microscope with 10x eyepiece, 10x, 20x, 40x objective, illumination source.
- Imaging accessories with CMOS sensor compatible with Magnus MLX TR plus, software with measurements.
- Simple microscope
- Dissecting Microscope
- Binocular Stereoscopic Microscope with turret mounted/sliding objectives, up to 40x magnification, with incident and transmitted light
- Binocular Stereo zoom microscope, upto 40x magnification, with incident and transmitted light
- High quality microscope with achromatic objective 10x, 40x, 100x with camera and other accessories [Research Grade]

Refrigerators/freezers

- Refrigerator 4C, ~150L
- Refrigerator 4C, ~200L
- Refrigerator 4C, ~300L

- Refrigerator -20C, ~150L
- Refrigerator -20C, ~200L
- Refrigerator -20C, ~300L

Centrifuges:

- Small mini centrifuge – for 1.5 ml , 2ml tubes
- Table top centrifuge with digital speed regulator, timer, imbalance detector, brake, safety lid – for 15ml , 50 ml tubes with swing out rotors and complete accessories
- Refrigerated centrifuge

Digital balance:

- Coarse balance – 0.1 gm to 600 gm
- Coarse balance –0.5 gm to 3000 gm
- Coarse balance –0.1 gm to 3 kg
- Fine balance – 0.001 to 200 gm
- Fine balance – 0.001 to 100 gm
- Fine balance – 0.01 gm to 300 gm

Digital spectrophotometer:

- Microprocessor controlled Digital Photo Colorimeter 8 filters. Range400-700 nm
- Digital spectrophotometer (visible) – Range : 340 - 960 nm
- Digital spectrophotometer UV-VIS single beam
- Digital spectrophotometer UV-VIS double beam

Digital pH meter

- pH meter with probe – with temperature compensation

Laminar Air flow

Horizontal Laminar Airflow Benches

Working Area Size In Feet (W x D x H)	Overall Equipment Size in MM (W x D x H)	Top Cabinet Size in MM (W x D x H)	Support Stand Size in MM (W x D x H)
2' x 2' x 2'	680 x 850 x 1760	680 x 850 x 1000	680 x 850 x 760
3' x 2' x 2'	980 x 850 x 1760	980 x 850 x 1000	980 x 850 x 760

Micropipettes:

- 0.1-10ul
- 2-20ul
- 20-200ul
- 100-1000ul

Molecular biology instruments:

- Vertical gel apparatus (SDS-PAGE) with accessories
- Powerpack
- Blotting apparatus
- UV trans illuminator

Other laboratory equipments:

- Hot air oven
- Haemocytometer
- Magnetic stirrer with magnetic flees
- Heater
- Microwave oven
- Pipette controller (battery operated)
- Water treatment plant
- Temperature regulated water bath
- Vortex mixer
- Glass Homogenizer
- Plankton net
- Spirit lamp
- Temperature controlled water bath
- Double distillation water plant (Quartz)
- Double distillation water plant (Glass)
- Table lamp
- Hot plate
- BOD Incubator
- Orbital shaking Incubator
- Bacteriological Incubator(chamber size 18x18x18 inches, temperature range- 5°C to 60°C, power- 230 volts, 50 Hz)
- Reusable Bottle Top Filter (Autoclavable)-500 ml.
- Vacuum pump (Rockyvac™ 300)
- Desiccator plain (PP/PC)- 300 mm. Diameter
- Autoclave (with timer and auto power cut)
- Pen p^H meter
- Conductivity meter
- Colorimeter

- Round table (Slide preparation)
- Seed Germinator
- UV- Chamber (Portable)
- Orbital shaker (body material is MS painted with Epoxy powder, tray material is SS, tray size is 425 x 425 mm, Shaking speed: 20-200 orbital strokes per min., permanent magnet geared DC motor with 25 mm dia.)
- Water Bath double walled (Thermostatic controlled, provided with indicating lamps and on/off switch, Temp range is above ambient to 99°C, operation on 240 volts AC, size 17 x 13 x 4 inches)
- Micro plate shaker (body material is MS painted with Epoxy powder, tray material is SS, size of tray 180 x 150 mm, Shaking speed: 100-1500 strokes per min., permanent magnet geared DC motor with 1 mm dia.)
- Heating mantles & extraction (Kjeldahl) apparatus (Descently painted Aluminium metal body up to 20 Ltrs., with energy regulator, switch and indicating lamp)- capacity: 50 ml. (60 watts, 230 volts.), 250 ml. (85 watts, 230 volts.), 500 ml. (150 watts, 230 volts.), 2000 ml. (300 watts, 230 volts.)
- Camera Lucida
- Stage Micrometer
- Ocular Micrometer
- Eye piece- 5x, 10x with & without pointer
- Motor and pestle

Camera/binoculars:

- Digital camera with high zoom
- Digital SLR/SLT camera with lens
- Binoculars – minimum 12x magnification

Group- B [Projectors, computers, peripherals]

Projectors/screens:

- LCD Projector with XGA (1024x768) resolution, HDMI connectivity
- LCD Projector with WXGA (1200x800) resolution, HDMI connectivity
- Short throw LCD projector, HDMI connectivity
- Ultra short throw LCD projector, HDMI connectivity
- Projector screen – non motorised
- Projector screen - motorized
- Projector mounting accessories.
- Overhead projector

Computers/peripherals:

- Desktop computer – with 4 GB RAM, Core i3 6th gen & above processor, with genuine windows 10 OS, MS Office

- Desktop computer – with 8 GB RAM, Core i5 6th gen & above processor, with genuine windows 10 OS, MS Office
- Desktop computer – low cost, with genuine windows 10 OS, MS Office
- Laptop - with 4 GB RAM, Core i3 6th gen & above processor, with genuine windows 10 OS, MS Office
- Laptop - with 8GB RAM, Core i5 6th gen & above processor, minimum 2GB graphics, with genuine windows 10 OS, MS Office
- UPS
- Flatbed scanner
- Laser printer – black
- Laser printer – colour
- Multi-function printer with scanner
- Anti-virus software
- Microsoft office suit, 2016

Group – C [Glass wares, Plastic wares, dissection items etc.]

All glasswares should be of Borosil or equivalent quality and should be autoclavable.

Glasswares:

1. Pipette Graduated Capacity 1 ml
2. Pipette Graduated Capacity 2 ml
3. Pipette Graduated Capacity 5 ml
4. Pipette Graduated Capacity 10 ml
5. Pipette Graduated Capacity 25 ml
6. Burettes, Boroflo, Blue screw thread stopcock made from borosil glass capacity 50 ml
7. Erlenmeyer, Graduated Narrow Mouth Conical Flask Capacity 25 ml
8. Erlenmeyer, Graduated Narrow Mouth Conical Flask Capacity 50 ml
9. Erlenmeyer, Graduated Narrow Mouth Conical Flask Capacity 100 ml
10. Erlenmeyer, Graduated Narrow Mouth Conical Flask Capacity 150 ml
11. Erlenmeyer, Graduated Narrow Mouth Conical Flask Capacity 250 ml
12. Erlenmeyer, Graduated Narrow Mouth Conical Flask Capacity 500 ml
13. Erlenmeyer, Graduated Narrow Mouth Conical Flask Capacity 1000 ml
14. Erlenmeyer, Graduated Narrow Mouth Conical Flask Capacity 2000 ml
15. BOD bottle – 125ml with interchangeable stopper
16. BOD bottle – 300ml with interchangeable stopper
17. Couplin jar (ordinary glass) 5 /10 slides
18. Measuring Cylinder Hexagonal Base With spout Capacity 25 ml
19. Measuring Cylinder Hexagonal Base With spout Capacity 50 ml

20. Measuring Cylinder Hexagonal Base With spout Capacity 100 ml
21. Measuring Cylinder Hexagonal Base With spout Capacity 250 ml
22. Measuring Cylinder Hexagonal Base With spout Capacity 500 ml
23. Measuring Cylinder Hexagonal Base With spout Capacity 1000 ml
24. Beaker with Spout And Graduated Capacity 100 ml
25. Beaker with Spout And Graduated Capacity 150 ml
26. Beaker with Spout And Graduated Capacity 250 ml
27. Beaker with Spout And Graduated Capacity 500ml
28. Beaker with Spout And Graduated Capacity 1000 ml
29. Beaker with Spout And Graduated Capacity 2000ml [borosil]
30. Reagents Bottle Plain Narrow mouth With Flat Head Interchangeable stopper – 125ml
31. Reagents Bottle Plain Narrow mouth With Flat Head Interchangeable stopper – 250ml
32. Reagents Bottle Plain Narrow mouth With Flat Head Interchangeable stopper – 500ml
33. Reagents Bottle with wide mouth screw cap – 125ml
34. Reagents Bottle with wide mouth screw cap – 250 ml
35. Reagents Bottle with wide mouth screw cap – 500ml
36. Reagents Bottle with wide mouth screw cap – 100ml
37. Dropping bottle with rubber tit – 30ml
38. Dropping bottle with rubber tit – 60ml
39. Dropping bottle with rubber tit – 125ml
40. Test Tube Thick wall 15 x 125 mm
41. Test Tube Thick wall 18 x 150 mm
42. Test Tube Thick wall 15 x 125 Made Of Soda Glass Pyrex type
43. Test Tube Graduated Capacity 25 ml
44. Test Tube Graduated Capacity 15 ml
45. Funnel 10 ml
46. Funnel 15 ml
47. Funnel 25 ml
48. Funnel 50 ml
49. Funnel 75 ml
50. Funnel 100 ml
51. Dropper Made Of Neutral Glass 8" long 5C.C Rubber Tit
52. Watch Glass With All Side Edge polished Dia -----50 mm
53. Watch Glass With All Side Edge polished Dia -----75mm
54. Watch Glass With All Side Edge polished Dia -----100 mm
55. Glass slides
56. Glass slides with concavity
57. Cover Glass Square 18x 18mm
58. CoverGlassSquare22x 22mm
59. CoverGlassSquare22x40mm
60. Petri dishes – 50mm with lid

61. Petri dishes – 100mm with lid
62. L- Shaped spreader
63. Glass beads
64. Bell Jars with Knob, clear glass (Height x Dia- 200 x 150 mm, 250 x 150 mm)
65. Separating funnels (With glass stopcock & I/C stopper, made from heat resistant, low expansion Borosilicate glass)- capacity- 100 ml., stopper size-B19; 250 ml., stopper size- B19; 500 ml., stopper size- B24.
66. Flasks, flat bottom, narrow neck, with beaded rim- capacity- 250 ml., 500 ml., 1000 ml.
67. Flasks, pear shaped- capacity- 250 ml. 500 ml. 1000 ml.
68. Petri dishes, autoclavable, bottom dish and lid inside and outside absolutely flat- O.D. X Height in mm - 60 x 15; 80 x 15, 100 x 20
69. Respiroscope
70. Screw cap vial Flat bottom 50 ml.
71. Screw cap vial Flat bottom 100 ml.

Plasticwares and other items:

1. Beakers ,propelyene – 50ml
2. Beakers ,propelyene – 100ml
3. Beakers ,propelyene – 250ml
4. Beakers ,propelyene – 500ml
5. Beakers ,propelyene – 1000ml
6. Burettes, with transparent acrylic body and leak proof stop cock – 25ml
7. Burettes, with transparent acrylic body and leak proof stop cock – 50ml
8. Burettes, with transparent acrylic body and leak proof stop cock – 100ml
9. Retort Stand With Clamp Made Of Polythene
10. Pipette Stand Vertical
11. Test tube racks
12. Multi stand for 5ml, 15 ml, 50 ml tubes
13. Disposable petridish -35mm
14. Disposable petridish – 60mm
15. Disposable petridish – 100mm
16. 15ml conical tubes with screw cap
17. 50ml conical tubes with screw cap
18. 1.5ml microcentrifuge tubes
19. 2ml microcentrifuge tubes
20. Carboy with stop cock – 10ltr
21. Carboy with stop cock – 20ltr
22. Pipette controller/pump – 2ml
23. Pipette controller/pump – 10ml

24. Pipette controller/pump – 25 ml
25. Slide box
26. Staining Bottle 85 x 28mm with screw cap
27. Plastic coupling jars
28. Measuring Cylinder Hexagonal Base With spout Capacity 25 ml
29. Measuring Cylinder Hexagonal Base With spout Capacity 50 ml
30. Measuring Cylinder Hexagonal Base With spout Capacity 100 ml
31. Measuring Cylinder Hexagonal Base With spout Capacity 250 ml
32. Measuring Cylinder Hexagonal Base With spout Capacity 500 ml
33. Measuring Cylinder Hexagonal Base With spout Capacity 1000 ml
34. Measuring Cylinder Hexagonal Base With spout Capacity 2000 ml
35. Spatula – made of stainless steel 8 inch
36. Spatula – made of stainless steel 6inch
37. Spatula – made of stainless steel 4 inch
38. Spatula – made of horn 8 inch
39. Spatula – made of horn 6inch
40. Spatula – made of horn 4 inch
41. Weighing boats
42. Parafilm
43. Microtips with tip box – 10ul
44. Microtips with tip box – 200ul
45. Microtips with tip box – 1000ul
46. Biohazard bags
47. Nitrile gloves – medium
48. Nitrile gloves – small
49. Nitrile gloves – large
50. Thick acid resistant gloves
51. Test Tube Holder Made Of Brass Clip Type With Wooden Handle
52. Autoclavable plastic bag
53. Slant Rack
54. Pipettor stand (PMMA) 5 place
55. L- Shaped spreader, sterile
56. Narrow Mouth Bottle (Medical Grade PP confirming, autoclavable)- 125 ml., 250 ml., 500 ml., 1000 ml.
57. Wide Mouth Bottle (Medical Grade PP confirming, autoclavable)- 125 ml., 250 ml., 500 ml., 1000 ml.
58. Amber Narrow Mouth Bottle (Medical Grade HDPE confirming)- 125 ml., 250 ml., 500 ml., 1000 ml.
59. Amber Wide Mouth Bottle (Medical Grade HDPE confirming)- 125 ml., 250 ml., 500 ml., 1000 ml.
60. Aspirator Bottle With Stopcock (Medical Grade PP confirming, autoclavable)-10 Lts., 20 Lts.
61. Jerrican (Medical Grade HDPE confirming)- 5 Lts., 10 Lts.
62. Wash Bottle- 125 ml., 250 ml., 500 ml.

63. Utility Tray (PP, Autoclavable)-(Lxwxh) mm. 360x310x130
64. Pipette Rack horizontal (PP, Autoclavable, 12 place)
65. Handypette pipette Aid (PP/ Silicon) - 10 ml.,25 ml.
66. Micro Pestle (PP)
67. Micro Centrifuge Tube (PP, Autoclavable)-0.5 ml., 1.5 ml., 2.0 ml.
68. Centrifuge Tube conical bottom- 15 ml., 50 ml.
69. Test tube stand (PC) 40 place, tube diameter-13 mm.,25 mm.
70. Test tube stand (RPP)- 31 place, tube diameter – 13mm., 32 mm.
71. Ice tray- 1 Lts.
72. Pasteur pipette (LDPE)- 1 ml., 3 ml.
73. Sample container (PP/ HDPE)- 100ml.
74. Vacuum tubing (Autoclavable)-IDxOD mm. 4.8x14- 3 mts.
75. Specimen container (PP)- 125 ml;., 250 ml., 500 ml., 1000 ml.
76. Storage Vial (sterial, PP, Autoclavable)- 5 ml., 10 ml.

Group – D[Chemicals, reagent, teaching kits]

List of Chemicals/reagents/dyes: [Brands – E Merck, HiMedia, SRL]

1. Absolute Alcohol (Ethanol, Methanol)
2. Acetic acid glacial
3. Aceto Carmine
4. AcetoOrcine
5. Activated Charcoal
6. Agar-Agar (Bacteriological)
7. Alkali-iodide-azide
8. Ammonia solution 25% AR
9. Ammonium Chloride
10. Ammonium Hydrogen phosphate, NH_4HPO_4
11. Ammonium di-Hydrogen phosphate
12. Ammonium Hydroxide (NH_4OH)
13. Ammonium oxalate
14. Ammonium methyl (Saturated)
15. Ammonium Molybdate
16. Ammonum Sulphate
17. Amylase
18. 1-Butanol GR
19. Beef extract
20. Benedict's reagent
21. Bismark Brown
22. Bouin's fixative
23. BSA
24. Buffer capsul (P^{H} 9.0, 7.0, 5.0)
25. Calcium Chloride, CaCl_2

26. Calcium Nitrate hydrated purified
27. Carbon Tetrachloride, GR
28. Cadmium chloride
29. Chloroform
30. Citric Acid
31. Copper sulphate
32. Cotton blue
33. Crystal violet-Iodine Solution (Gram staining)
34. Denigé's reagent
35. Dextrose
36. Di-phenyl Amine indicator
37. Di-potassium hydrogen phosphate
38. Di-sodium hydrogen phosphate
39. Dichlorobenzene
40. Dichloromethane, GR
41. Diethyl ether
42. DNA marker
43. Double Distilled water
44. DPX
45. Dragendorff's reagent
46. Eosin
47. Ethanol
48. Ethidium bromide
49. Extract
50. Felling's solution (A & B)
51. Ferric chloride, FeCl_3
52. Ferrous Ammonium Sulphate, $[\text{Fe}(\text{NH}_4)_2(\text{SO}_4)_2]$
53. Ferric Sulphate
54. Ferrous Sulphate(Crystalline)
55. Folin-Ciocalteu phenol reagent
56. Folin-Ciocalteu phenol reagent
57. Formaline
58. Fructose
59. Geimsa Stain
60. Gel loading dye
61. Gelatine
62. Glacial acetic acid
63. Globulin
64. Glucose
65. Glycerine
66. Glyoxylic acid
67. Gram Stain Kit
68. Gram's-Iodin reagent
69. HEPES

70. Hydrochloric Acid
71. Hydrogen per oxide (H_2O_2)
72. Iodin solution
73. Lactophenol
74. Lead acetate
75. Light Green
76. Magnesium Chloride, $MgCl_2$
77. Magnesium Sulphate, $MgSO_4 \cdot 7H_2O$
78. Malachite green
79. Malonic acid
80. Maltose
81. Manganesesulphate
82. Manganous sulphate
83. Mayer's reagent
84. Mercuric chloride
85. Methanol
86. Methylene Blue
87. Millon's reagent
88. Molisch's reagent
89. Alpha-Naphthol solution
90. Nessler's reagent
91. Neutral Sand
92. Ninhydrin
93. Nitric Acid
94. Nutrient Agar
95. Oil immersion
96. Orcein
97. Oxalic Acid, purified
98. PBS tablet/powder
99. Peptone
100. Periodic acid-Schiff stain
101. Periodic acid
102. pH Buffer Solution
103. Phenolphthalin Solution
104. Phenylarsine oxide
105. Phenyl hydrazine hydrochloride
106. Phosphoric acid (H_3PO_4)
107. Picric acid
108. Potassium bi-iodate
100. Potassium chloride
100. Potassium di-chromate
101. Potassium di-hydrogen phosphate
100. Potassium Ferricyanide
101. Potassium Hydroxide Pellets

102.Potassium iodide
103.Potassium Nitrate
104.Potassium permanganate
105.Potassium sodium tartrate
106.Protein marker
107.2- propionic Acid, GR
108.Rectified spirit
109.Safranin
110.Saturated aqueous mercuric chloride
111.Sciff's reagent
112.Silver Nitrate
113.Silver Nitrate solution (AgNO_3)
114.Sodium Acetate crystal, pure
115.Sodium bi-carbonate
116.Sodium bi-carbonate
117.Sodium Chloride
118.Sodium di-hydrogen phosphate
119. Sodium fluoride (NaF)
120.Sodium Hydroxide Pellets
121.Sodium hypochloride
122.Sodium thiosulfate
123.Sodium thiosulphate
124.Staining buffer for Giemsa stain
125.Starch
126.Sucrose
127.Sudan Black B
128.Sudan III Dye
129.Sulphuric Acid
130.TTC (Triphenyltetrazolium chloride)
131.Tannic acid
132.Wagner's reagent
133.Xylene
134.Yeast extract

Teaching kits:

- Agarose Gel Electrophoresis Teaching Kit
- Bacterial Growth Curve Teaching Kit
- SDS-PAGE Teaching Kit
- Protein Silver Staining Teaching Kit

Group – E [Specimens – prepared slides, models]

Class worked out material

ALGAE: *Anabaena* sp., *Oedogonium* sp. (macrandus), *Oedogonium* sp. (nannandrous), *Chara* sp., *Vaucheria* sp., *Ectocarpus* sp., *Polysiphonia* sp., *Volvox* sp., *Coleochaetes* sp., *Fucus* sp., (100 unit each)

FUNGI: *Rhizopus* sp., *Penicillium* sp., *Mucor* sp., *Ascobolus* sp., *Agaricus* sp., *Agaricus* sp., *Alternaria* sp., *Puccinia* sp. (100 unit each)

BRYOPHYTA: *Riccia* sp., *Marchantia* sp. (thallus, antheridiophore, archegoniophore), *Anthoceros* sp., *Funaria* sp. (100 unit each)

PTERIDOPHYTA: Stem and strobilus of following specimens *Lycopodium* sp., *Selaginella* sp., *Equisetum* sp. (rhizome, stem, strobilus), *Marsilea* sp. (Sporocarp), (100 unit each)

PLANT PATHOLOGY: Black stem rust of Wheat (Uredospore, teleutospore), Brown spot of Rice, Tikka disease of Ground Nut. (100 unit each)

PHARMACOGNOSY: Powder of the bark of *Alstonia* sp. (Chatim), Powder of *Zinzeber* sp. rhizome (Aada), Powder of the leaf of *Adhatoda* sp. (Bashak), Powder of the seed of *Strychnos* sp. (100 gm. each)

ANATOMY: Stem of *Tecoma* sp., Stem of *Boerhaavia* sp., Stem of *Dracaena* sp., Stem of *Bignonia* sp., Stem of *Cucurbita* sp., Leaf of *Bambusa* sp., Leaf of *Nerium* sp., Root of *Vanda* sp., Root of *Tinospora* sp. (100 unit each)

GYMNOSPERMS: Needle leaf of *Pinus* sp., Male cone of *Pinus* sp., Stem of *Pinus* sp., Microsporophylls of *Cycas* sp., Leaf of *Cycas* sp. (100 unit each)

Permanent slides of Genetics: Mitosis- All normal stage, Early separation, late separation, sticky bridge, Meiosis- Diplotene, Diakinesis, Metaphase-I, Anaphase- I, Metaphase-II, Anaphase-II, Telophase- II, Ring chromosomes and Chains, laggard, anaphase bridge..(One each)

Permanent slides of Gymnosperms:

- 1) *Cycas* sp. : T.S. of leaflet, root; L.S. of ovule
- 2) *Pinus* sp.; T.S. of needle leaf; L.S. of Female cone; T.S., T.L.S, R.L.S of stem .
- 3) L.S. of ovule of *Gnetum* sp.

Permanent slides of Anatomy: T.S. of monocot root, stem and leaf; T.S. of Dicot root, stem and leaf; T.S., T.L.S., & R.L.S. of wood of *Tectona* sp., *Mangifera* sp., *Azadirachta* sp..(One each)

Permanent slides of Palynology: Pollen of *Hibiscus* sp.; *Tridax* sp..(One each)

Permanent slides of Pteridopytes

1. *Selaginella* sp. : L.S. of strobilus
2. *Equisetum* sp. : T.S. of rhizome

3. *Pteris* sp.: T.S. of rhizome, Whole mount of prothallus with sex organs and young sporophyte
4. *Marsilea* sp.: T.S & V.L.S of sporophyte

Permanent slides of Bryophytes

1. *Riccia* sp.: L.S of sporophyte & T.S thallus
2. *Marchantia* sp.: T.S. of thallus, L.S of antheridiophore, archegoniophore
3. *Anthoceros* sp.: L.S of sporophyte
4. *Funaria* sp.: L.S. of capsule and protonema

Permanent slides of PALAEOBOTANY: *Lygenopteris* T.S., *Calamites* stem T.S.(One from each)

Museum Specimens

- a. Palaeobotany: *Vertebraria* sp., *Lepidocarpon* sp. and *Ptilophyllum* sp. (One each)
- b. Gymnosperms: *Cycas* sp.- Male cone, Microsporophyll, Megasporophyll; *Pinus* sp. – Male Cone, Female cone. (One each)

Group – F [Laboratory safety equipments]

- Safety goggles/UV goggles
- Apron
- First aid kit
- Liquid soap
- Hand sanitizer
- Hand sanitizer dispenser
- Paper towel
- Paper towel dispenser
- Absorbent cotton
- Non-absorbent cotton
- Tissue paper
- Butter Paper

Group – G [Laboratory Furniture]

- Steel Almirah two doors (198.12 x 91.44 x 48.26 cm, grey colour)

Head of The Department

Officer In-Charge

Botany
Ambigeria, Madpur, Kharagpur-II, Paschim Medinipur

GOVT GENERAL DEGREE COLLEGE