



Phone: 2537-3297 / 8797  
E-mail: [apcl960@dataone.in](mailto:apcl960@dataone.in)  
[www.apccollege.ac.in](http://www.apccollege.ac.in)

# Acharya Prafulla Chandra College

(NAAC ACCREDITED 'A' GRADE COLLEGE) (Govt. Sponsored)  
New Barackpore, North 24 Parganas, Kolkata-700 131, West Bengal

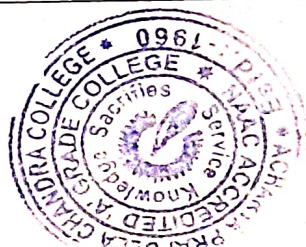
Ref. No. ...*NIG No. 89/APC/Botany/Chemicals, 2025*... DATE: 29.3.2025

Sub: Notice inviting Quotation

Quotations (in sealed envelope) for the rate are invited from the reputed Agencies/ suppliers for the following chemicals and specimens for conducting WBSU CBCS B.Sc. Botany (Hons.) and WBSU UG Botany NEP Odd and Even Semester practical classes. Quotation is to be submitted within 7 days from the date of issue of this notice in Drop box in front of Teacher in charge's room.

For further information contact to the Department of Botany.

| Sl. No.   | Name of Items                          | Quantity<br>Rate/Unit |
|-----------|----------------------------------------|-----------------------|
| Chemicals |                                        |                       |
| 1         | Butanol (500ml) E.merck                |                       |
| 2         | Acetic acid (500ml) E.merck            |                       |
| 3         | FolinCiocalteu reagent (250ml) E.merck |                       |
| 4         | Absolute alcohol (500ml) E.merck       |                       |
| 5         | Toluene (250ml) E.merck                |                       |
| 6         | Tryptone (500g) E.merck                |                       |
| 7         | NaCl (500g) E.merck                    |                       |
| 8         | Yeast extract (100g) E.merck           |                       |
| 9         | NaOH (500g) E.merck                    |                       |
| 10        | SDS Extract buffer E.merck             |                       |
| 11        | Tris buffer (500ml)E.merck             |                       |
| 12        | SDS (500g)E.merck                      |                       |
| 13        | EDTA (100g)E.merck                     |                       |
| 14        | Potassium acetate (500ml)E.merck       |                       |
| 15        | Chloroform (500ml)E.merck              |                       |
| 16        | Isoamyl alcohol (500ml)E.merck         |                       |
| 17        | Iso propanol (500ml)E.merck            |                       |
| 18        | Standard DNA (powder) (100g)E.merck    |                       |



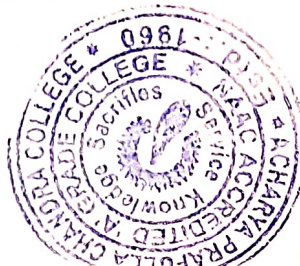
|    |                                                   |  |
|----|---------------------------------------------------|--|
| 19 | Diphenylamine (500g) E.merck                      |  |
| 20 | Sodium citrate (500g) E.merck                     |  |
| 21 | Glacial acetic acid (500ml) E.merck               |  |
| 22 | 12% H <sub>2</sub> O <sub>2</sub> (500ml) E.merck |  |
| 23 | HgCl <sub>2</sub> solution (500ml) E.merck        |  |
| 24 | Sodium hypochlorite (500g) E.merck                |  |
| 25 | Agar (500g) E.merck                               |  |
| 26 | Boric acid (500g) E.merck                         |  |
| 27 | TAE (500ml) E.merck                               |  |
| 28 | Ethidium bromide (100g) E.merck                   |  |
| 29 | TBE (500ml) E.merck                               |  |

#### Workout specimen

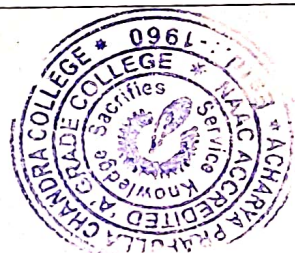
|    |                                                    |  |
|----|----------------------------------------------------|--|
| 1  | <i>Rhizopus</i> - asexual and sexual               |  |
| 2  | <i>Aspergillus</i> - asexual and sexual            |  |
| 3  | <i>Penicillium</i> - asexual and sexual            |  |
| 4  | <i>Ascobolus</i> - Ascocarp                        |  |
| 5  | <i>Agaricus</i> - Gills                            |  |
| 6  | <i>Ricciathallus</i>                               |  |
| 7  | <i>Marchantiathallus</i> with gemma cup            |  |
| 8  | <i>Marchantiathallus</i> with antheridiophore      |  |
| 9  | <i>Marchantiathallus</i> with archegoniophore      |  |
| 10 | <i>Marchantiathallus</i> with sporophyte           |  |
| 11 | <i>Sphagnum</i> thallus                            |  |
| 12 | <i>Equisetum</i> plant body with strobilus         |  |
| 13 | <i>Pteris</i> plant body with sorus                |  |
| 14 | <i>Funaria</i> Thallus with sporophyte (capsule)   |  |
| 15 | <i>Selaginellathallus</i> with strobilus           |  |
| 16 | <i>Cycas</i> leaflet                               |  |
| 17 | Microsporophyll and megasporophyll of <i>Cycas</i> |  |
| 18 | Male cone of <i>Cycas</i>                          |  |
| 19 | long and dwarf shoots of <i>Pinus</i>              |  |
| 20 | male cones of <i>Pinus</i>                         |  |
| 21 | female cone of <i>Pinus</i>                        |  |
| 22 | needle leaf of <i>Pinus</i>                        |  |
| 23 | shoot of <i>Gnetum</i>                             |  |
| 24 | male cone of <i>Gnetum</i>                         |  |
| 25 | female cones of <i>Gnetum</i>                      |  |

#### Jar Specimens

|   |                                         |   |
|---|-----------------------------------------|---|
| 1 | <i>Rhizopus</i> - asexual and sexual    | 1 |
| 2 | <i>Aspergillus</i> - asexual and sexual | 1 |
| 3 | <i>Penicillium</i> - asexual and sexual | 1 |
| 4 | <i>Ascobolus</i> - Ascocarp             | 1 |
| 5 | <i>Agaricus</i> - Gills                 | 1 |



|                         |                                                                                                                  |   |
|-------------------------|------------------------------------------------------------------------------------------------------------------|---|
| 6                       | Jar Specimens of Citrus canker (Medium size)                                                                     | 1 |
| 7                       | Jar specimen TMV Infected plants (Medium size)                                                                   | 1 |
| 8                       | Vein clearing symptom from any available specimen (Medium size)                                                  | 1 |
| 9                       | Jar specimen Early blight of potato (Medium size)                                                                | 1 |
| 10                      | Jar specimen Late blight of potato (Medium size)                                                                 | 1 |
| 11                      | Jar specimen Black stem rust of wheat (Medium size)                                                              | 1 |
| 12                      | Jar specimen Blast of Rice (Medium size)                                                                         | 1 |
| 13                      | Jar specimen Powdery mildew from any available specimen (Medium size)                                            | 1 |
| 14                      | Jar specimen Downy mildew from any available specimen (Medium size)                                              | 1 |
| <b>Fossil specimens</b> |                                                                                                                  |   |
| 1                       | <i>Ptilophyllum</i>                                                                                              |   |
| 2                       | <i>Glossopteris</i> leaves                                                                                       |   |
| 3                       | <i>Vertebraria</i> root system                                                                                   |   |
| <b>Permanent slides</b> |                                                                                                                  |   |
| 1                       | <i>Marchantia</i> : vertical section of thallus through gemma cup                                                |   |
| 2                       | <i>Marchantia</i> : vertical section of antheridiophore, archegoniophore and longitudinal section of sporophyte. |   |
| 3                       | <i>Anthoceros</i> : vertical section of thallus                                                                  |   |
| 4                       | <i>Sphagnum</i> : whole mount of leaf                                                                            |   |
| 5                       | i. <i>Funaria</i> : archegonial heads.<br>ii. Antheridial heads.                                                 |   |
| 6                       | <i>Equisetum</i> :<br>i. Longitudinal section of strobilus,<br>ii. transverse section of strobilus,              |   |
| 7                       | <i>Psilotum</i> : transverse section of synangium                                                                |   |
| 8                       | <i>Selaginella</i> : longitudinal section of strobilus                                                           |   |
| 9                       | T.S. of stem of <i>Rhynia</i>                                                                                    |   |
| 10                      | T.S. of stem of <i>Calamites</i>                                                                                 |   |
| 11                      | T.S. of stem of <i>Lyginopteris</i>                                                                              |   |
| 12                      | T.S. of <i>Nymphaea</i> petiole                                                                                  |   |
| 13                      | Types of ovules: anatropous ovule                                                                                |   |
| 14                      | Types of ovules: orthotropous ovule                                                                              |   |
| 15                      | Types of ovules: circinotropous ovule                                                                            |   |
| 16                      | Types of ovules: amphitropous/campylotropous ovule                                                               |   |
| 17                      | Structure of anther (young and mature)                                                                           |   |
| 18                      | Anther tapetum (amoeboid and secretory both)                                                                     |   |
| 19                      | Dicot root: <i>Helianthus</i> (sunflower)                                                                        |   |
| 20                      | Dicot stem: <i>Helianthus</i> (sunflower)                                                                        |   |



|    |                                                                            |  |
|----|----------------------------------------------------------------------------|--|
| 21 | Macerated xylary elements                                                  |  |
| 22 | Macerated phloem elements                                                  |  |
| 23 | T.S. of coralloid root of <i>Cycas</i>                                     |  |
| 24 | L.S. of ovule of <i>Cycas</i>                                              |  |
| 25 | L.S. of male cone of <i>Pinus</i>                                          |  |
| 26 | L.S. of female cone of <i>Pinus</i>                                        |  |
| 27 | Microspores of <i>Pinus</i>                                                |  |
| 28 | <i>Tectona</i> : section of young stem specimen                            |  |
| 29 | <i>Shorea</i> : section of young stem specimen                             |  |
| 30 | Teleutospore of <i>Puccinia</i>                                            |  |
| 31 | Stem of <i>Equisetum</i>                                                   |  |
| 32 | Stem of <i>Selaginella</i>                                                 |  |
| 33 | Sporophyte of <i>Anthoceros</i>                                            |  |
| 34 | Oedogonium dwarf male filament                                             |  |
| 35 | Stomatal types (paracytic, diacytic, anisocytic, anemocytic, graminaceous) |  |
| 36 | Glandular and non glandular trichome                                       |  |
| 37 | Kranz anatomy                                                              |  |
| 38 | Needle leaf of <i>Pinus</i>                                                |  |
| 39 | Cystocarp of <i>Polysiphonia</i>                                           |  |
| 40 | Carpogonium of <i>Polysiphonia</i>                                         |  |
| 41 | Spermatangium of <i>Polysiphonia</i>                                       |  |

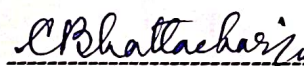


(H.O.D.)

Department of Botany

H.O.D.  
Department of Botany  
Acharya Prafulla Chandra College  
New Barrackpore, Kolkata-70013



 03.04.25.

(Teacher In Charge)

Teacher-in-Charge  
Acharya Prafulla Chandra College  
New Barrackpore, North 24 Parganas