



# ANCHALIKA (DEGREE) MAHAVIDYALAYA

BANASINGH, DHENKANAL, ODISHA-759014

Regd. No. 2481/45/91

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Ref No:.....

Letter No: Mx/OT/10

To

The DIO, NIC, Dhenkanal,

Date : 05/08/2020

Sub:- Hosting of information regarding supply Lab Equipment & Chemicals in your Official website  
([www.dhenkanal.nic.in](http://www.dhenkanal.nic.in))

Sir,

Please find the list of Lab Equipment & Chemicals for hosting in your official website from 05.08.2020 to 19.08.2020 with a title for "Call of Quotation for supply Lab Equipment & Chemicals" to Anchalika Degree Mahavidyalaya, Banasingh, Dhenkanal.

Your's Faithfully

*[Signature]*  
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## ANCHALIKA DEGREE MAHAVIDYALAYA, BANASINGH, DHENKANAL

### TERMS & CONDITIONS FOR SUPPLY OF LAB EQUIPMENT

- 1 The Party/Agency/ Farm must have valid Up-to-date GST Registration & Clearance & Authorised Dealership Certificate.
- 2 Materials should be of reputed Company.
- 3 Price quoted must include all taxes.
- 4 Parties must mention in the quotation the stipulated terms, conditions & time of supply of materials.
- 5 Payment will be made through Cheque /Account Transfer after receiving the materials in good condition, installation/ demonstration and submission of bills and vouchers.
- 6 Incomplete quotations and quotations received after due date will not be accepted.

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**ANCHALIKA DEGREE MAHAVIDYALAYA, DHENKANAL**  
**LIST OF EQUIPMENTS/ LAB. MATERIALS ESSENTIAL FOR PRACTICAL CLASSES**  
**DEPARTMENT OF PHYSICS**

**EQUIPMENTS:**

1. Bar Pandulum
2. Kater's Pendulum
3. Modules of Rigidity by Maxwell's needle
4. M.I. of a flywheel
5. Motion of Spring constant
6. Poiseuille's Method
7. De'sauty's Bridge
8. Thevenin and Norton Theorems
9. Anderson's Bridge
10. L-C-R Circuit (series) to determine
  - a) Resonant frequency
  - b) Q-factor
11. To determine dB/dx in a solenoid
12. Sodium light using newton's disc
13. Lee and charlton's disc
14. 'J' by callender and barne's method
15. Platinum Resistance Thermometer (PRT)
16. 'J' by calorie meter
17. Thermocouple (for thermo emf)
18. Zener diode
19. Bipolar Junction Transistor (BJT for CE mode)
20. R-C- coupled transistor Amplifier
21. V-I and power curves of solar cells
22. Colpitt's oscillator
23. Millikan oil drop apparatus
24. Planck's constant Using LED (4 colours)
25. 'e/m' by magnetic focusing
26. I-V Characteristics of tunnel diode
27. Laser source of using single slit
28. Spectrometry setup complete with sodium vapour lamp
29. 'NOT' gate using Transistor
30. Half adder, Full Adder and 4-bit binary Adder
31. CRO (a) Voltage (b) Time Period
32. Astable Multivibrator Using 555 Timer
33. Dielectric Constant of Dielectric Material (Resonance Method)
34. Magnetic Susceptibility of solid (Gouy's Method)
35. B-H curve of Iron using Solenoid
36. Zeeman effect

  
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**ANCHALIKA DEGREE MAHAVIDYALAYA, DHENKANAL**  
**LIST OF EQUIPMENTS/ LAB. MATERIALS/CHEMICALS/GLASS APPARTUS &**  
**INFRASTRUCTURE FOR CHEMISTRY LAB.**  
**DEPARTMENT OF CHEMISTRY**

<u>Sl. No</u>	<u>Name of the Chemicals</u>	<u>Remarks</u>
01	Acetanilide	
02	Methyl Acetate	
03	Ethyl Acetate	
04	Potassium Iodide	
05	Sodium Sulphite	
06	Magnesium (II) Nitrate	
07	Phosphoric Acid	
08	Pathalic Anahydride	
09	Benzoyl Chloride	
10	Resorunol	
11	S-Benzyl Thiouronium Chloride	
12	Phenyl Hydrazine	
13	a- Naphthol	
14	Formal Dehyde (40%)	
15	Glacial Acetic Acid	
16	Urea	
17	Hexamethylene Diamine	
18	Adipyl Chloride	
19	Carbon Tetra Chloride	
20	Laundry Starch	
21	Tincture of Iodine	
22	Dimethyl Glyoxime	
23	Ammonium Acetate	
24	Ammonium Thiocyanate	
25	Nickel Chloride	
26	Cobalt Chloride	
27	Schiff's Reagent	
28	2,4 – dinitrophenyl Hydrazine	
29	1% Iodine Solution	
30	Sodium Nitroprusside	
31	Sodium Nitrite	
32	Quinhydrone	
33	Arsenic Chloride	
34	Acetic Anahydride	
35	Zinc Dust	
36	Salicylic Acid	
37	Edta	

  
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<u>Sl. No.</u>	<u>Name of the Equipment</u>	<u>Remarks</u>
01	Barometer	
02	Micro Burette	
03	Spectro Photometer	
04	Crucible	
05	Whatsman Filter Paper 1	
06	Thermostat	
07	Induction Coil	
08	Resistance Box	
09	Battery (2Volt)	
10	Reagent Bottle	
11	Activated Charcoal	
12	Glazed paper	
13	Thermometer (0.1c)	
14	Backman Thermometer	
15	Reagent Dropper	
16	Capillary Dropper	
17	Litmus Paper	
18	Test Tube Brush	
19	Test Tube Holder	
20	Wire Gauze	
21	Bunsen Burner	
22	Nichrome Wire	
23	Charcoal	
24	Aqua guard with storage system	

<u>Sl.No</u>	<u>Name of the Glass Apparatus</u>	<u>Remarks</u>
01	Pyrex Beaker (10ml.,25ml., 50ml., 400ml.)	Borosil
02	Reaction Bottle	
03	Condenser	Borosil
04	Round Bottom Flask (250ml)	Borosil
05	Glass Jar with cover(Height -30cm & Diameter -8cm)	
06	Thin Capilar Tube	
07	Beaker (250ml. &400ml.)	Borosil
08	Measuring Flask(100ml, 250ml,500ml.)	Borosil
09	Kipps Apparatus Transparent	Borosil
10	Burette (50ml)	Borosil
11	Pipette (5ml,10ml,20ml,25ml,50ml)	Borosil
12	Conical Flask (500ml.)	Borosil
13	Test Tube	

  
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14	Measuring Cylinder(10ml,50ml,100ml,500ml,1 lit)	Borosil
15	Long Glass Cylinder for paper Chromatography	Borosil
16	Thiele Tube	Borosil
17	Semi Micro Test Tube	
18	Semi Micro Boiling Tube	
19	Centifuge Tube	
20	Steoring Rod	

<u>Sl.No</u>	<u>Laboratory Infrastructure</u>	<u>Remarks</u>
01	Hanging wall Rack (8' x3'x 1.5') made up ply & sun mica with glass doors.	
02	Tap Water system with drainage facility and ceramic sinks on the both sides of the walls of Chemistry laboratory	
03	Hard Top on the tables of the laboratory (Ceramic Tile) to prevent from chemicals.	

  
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**LIST OF EQUIPMENTS/ LAB. MATERIALS ESSENTIAL FOR PRACTICAL CLASSES**  
**DEPARTMENT OF BOTANY**

**EQUIPMENTS:**

1. Compound microscope-LAFCO
2. Simple Microscope-LAFCO
3. Buchner Funnel (Size: 70mm, Plastic)
4. Soil Thermometer
5. AUV/Visible Spectro Photometer
6. Inoculation Needle
7. Soil P<sup>H</sup> and Moisture Meter Take Mura

**CHEMICALS:**

1. Petroleum Ether-NICE-CDH-500 ML
2. Acetone- NICE-CDH- 500ML
3. Glacial Acetic Acid-NICE-CDH-500 ML
4. Ethyl Alcohol- NICE-CDH-500 ML
5. Chloroform- NICE-CDH-500 ML
6. Ecetocarmine- NICE-CDH-100 ML
7. Crystal Violet Sloution- NICE-CDH-125 ML
8. Safranine- NICE-CDH-125 ML
9. Malachite Green- NICE-CDH-25 GM
10. Peptone- NICE-CDH-250 ML
11. Agar-agar- NICE-CDH-250 ML
12. Haemotoxiline- NICE-CDH-125 ML
13. Chromic Acid- NICE-CDH-500 GM
14. Formalin- NICE-CDH-500 ML
15. Sodi. Dodecyl Sulphate- NICE-CDH-250 GM
16. Yeast Extract- NICE-CDH-250 GM
17. Light Green- NICE-CDH-125 ML
18. Xylene- NICE-CDH-500 ML
19. Canada Balsam- NICE-CDH-250 GM
20. EDTA- NICE-CDH-100 GM
21. Tris Buffer- NICE-CDH-100 GM

**REXIN CHART:**

1. Relication of DNA
2. Protein Synthesis
3. Meiosis and Mitosis
4. Structure of Chromosome
5. Structure of DNA
6. Life cycle of Equisetum

  
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7. Life cycle of Pteris
8. L.S. of Flower
9. Anomalous secondary Growth in dicot stem
10. Life cycle of Polysiphonia
11. Life cycle of Sargassum
12. Life cycle of Chara
13. Life cycle of Marchantia
14. Life cycle of Funaria
15. Life cycle of Sellaginella
16. Life cycle of Pinus
17. Life cycle of Gnetum
18. Structure of Ovule of Angiosperm
19. Mechanism of Crossing over
20. Embryosac of Angiosperm
21. Structure of Complex tissue

#### PHYSIOLOGICAL CHARTS:

1. Passive absorption of water
2. Transpiration (Mechanism of stomatal Movement)
3. Cohesion Tension Theory
4. Pressure flow Mechanism
5. Source Sink relationship
6. Light Reaction
7. Dark Reaction
8. Glycolysis
9. Krebs's Cycle
10. Photo-Respiration
- 11.

#### SLIDES:

##### Anatomical Slide:

1. T.S. of Monocot root of Maize
2. T.S. of Dicot root of Cicer
3. T.S. of Monocot stem of Helianthus
4. T.S. of Dicot stem of Helianthus
5. T.S. of isobilateral leaf of polyanthus
6. T.S. of dorsiventral leaf of Nerium
7. T.S. of Boersiventral stem showing normal secondary growth
8. T.S. of Draceana stem showing normal Secondary Growth
9. T.S. of Bignonia stem showing anomalous secondary growth
10. T.S. of Bougainvillea stem showing anomalous secondary growth
11. Anatomy of Xerophyte- Casuarina stem
12. Anatomy of Xerophyte- Calotropis stem

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13. Anatomy of Hydrophyte- Hydrilla stem
14. T.S. of Aerial root of Vanda (Epiphyte)

**EMBRYOLOGICAL SLIDE:**

1. T.S. of Anther
2. L.S. of Anotropous Ovule
3. L.S. of Orthotropous Ovule
4. L.S. of Dicot Embryo
5. L.S. of Monocot Embryo
6. Nuclear Endosperm

**LABORATORY FURNITURE:**

1. Refrigerator
2. Steel Almirah
3. Steel Rack
4. Hard top with water supply in the Laboratory table (Ceramic Tile/Paint)
5. Induction coil

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**LIST OF EQUIPMENTS/ LAB. MATERIALS ESSENTIAL FOR PRACTICAL CLASSES**  
**DEPARTMENT OF ZOOLOGY**

**MUSEUM SPECIMEN**

**Phylum-Coelenterate:**

1. Obelia
2. Physalia
3. Millepora
4. Aurelia
5. Tubipora
6. Corallium
7. Gorgonia
8. Fungia
9. Madrepora
10. Metridium

**Phylum-Annelida:**

1. Nereis
2. Heteronereis
3. Serpula
4. Sabella
5. Hirudinaria

**Phylum-Arthropoda:**

1. Daphnia
2. Sacculina
3. Cancer
4. Scolopendra
5. Julus
6. Bombix
7. Different type of Bees
8. Different type of Silk Moth

**Phylum-Onychophora:**

1. Peripatus

**Phylum-Mollusca:**

1. Doris
2. Helix
3. Unio
4. Sepia

  
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5. Octopus
6. Nautilus
7. Different types of Pearl

**Phylum-Echinodermata:**

1. Ophiura
2. Clypeaster
3. Cucumaria
4. Antedon

**Phylum-Protochordata:**

1. Balanoglossus
2. Herdmania

**Phylum-Agnatha:**

1. Petromyzon
2. Myxine

**Phylum-Pisces:**

1. Pristis
2. Sphyrna
3. Chimaera
4. Mystus
5. Heteropneustes
6. Labeo
7. Anguilla
8. Tetradon

**Phylum- Amphibia:**

1. Ichthyophis
2. Necturus
3. Hyla
4. Alytes
5. Salamander

**Phylum- Reptilia:**

1. Chelon
2. Trionyx
3. Uromastix
4. Ophiosaurus

  
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### Phylum- Memmalia:

1. Sorex
2. Lorix
3. Herpetes
4. Erinceous

### SLIDES:

1. W.M. of Euglena
2. T.S./L.S. of Sycon
3. W.M. of Amoeba
4. T.S. Through Pharynx of Earthworm
5. T.S. through Gizzard of Earthworm
6. T.S. through Typhlosolar intestine of Earthworm
7. Squamous Epithelium
8. Striated Muscle
9. Nerve Cell
10. Placoid Cell
11. Cycloid Cell
12. Ctenoid Cell
13. Cleavage Stages:
  - a) Blastula
  - b) Gastrula
  - c) Neurula
  - d) Tail bud Stage
  - e) Tadpole internal/External gill Stage

### MAPS/CHART:

1. Linkage maps bases on data from conjugation, Transformation & transduction.
2. Linkage maps based on data from Drosophila Crosses
3. Pedigree analysis
4. Coral reefs
5. Digestive System of earthwoem
6. Nephridial system of earthworm
7. Digestive system of periplaneta (Cockroach, along with mouth parts)
8. Various stages of mitosis
9. Various stages of Meiosis
10. Eye
11. Ear

  
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12. Structure of different Chromosomes
13. Different sections of placenta
14. Ades mosquito
15. DNA model
16. RNA Model

**Laboratory Furnitures:**

1. Steel Rack
2. Steel Almira with Glass fittings (Front side)
3. Table top (Marble)/Ceramic/Paint with Water Supply.

**EQUIPMENTS:**

1. Sphygmonanometer
2. Sahil's Haemoglobinometer
3. Colorimeter
4. Spectrophotometer
5. Secchi disc
6. Van Dorn Bottle
7. Conductivity Meter
8. Turbidity Meter
9. PONAR Grab sampler
10. Aquarium
11. Test tube and stand
12. Spirit Lamp
13. P<sup>H</sup> Paper

**Chemicals:**

1. Mercuric Bromophenol blue
2. Fast Green
3. Feulgen Stain
4. Schiff's Reagent
5. IN HCL
6. Potassium Metabisulfite ( $K_2S_2O_5$ )
7. Alcian Blue stain
8. Formal Dehyde
9. Paraffin
10. Chromotography Paper
11. Isopropyl Alcohol
12. Ethanol
13. Glycerine
14. Distilled Water

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15. Methyl Alcohol
16. HCL
17. Lactose
18. Galactose
19. Starch Solution
20. Universal indicator Solution

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**LIST OF EQUIPMENTS/ LAB. MATERIALS ESSENTIAL FOR PRACTICAL CLASSES**  
**DEPARTMENT OF MATHEMATICS**

**EQUIPMENTS:**

1. Computer Set with Printer
2. MAT Lab Software
3. Almirah
4. Computer Table

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