



OFFICE OF THE PRINCIPAL  
**NATIONAL COLLEGE, NUAPADA**

AT/PO/DIST-NUAPADA (ODISHA) – 766105

e-Mail:- [principalncn@gmail.com](mailto:principalncn@gmail.com)

Letter No 1134 //

Date 22/02/2024 //

To

The State Project Director,  
O.H.E.P.E.E., Higher Education Department,  
Odisha, Bhubaneswar.

Sub:- Re-submission for approval of Non-Civil items procurements.

Ref:- Letter No. 1180 Dtd. 01.12.2023 Allocation of Non Civil Funds..

Sir,

With reference to the letter on the subject cited above, this institute seeks your kind approval for procurements of Non Civil items under IDP programme for the academic developments of students of this institution.

Hence, your kindness is earnestly requested to do the needful for smooth procurements.

Thanking you.

Yours faithfully,

*List of items is attached herewith.*

Principal,

National College, Nuapada


Principal

National College, Nuapada

## Requirements of items under Non-Civil Head

### National College, Nuapada

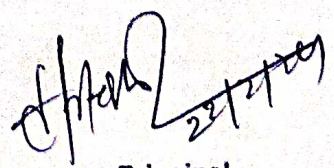
Sl. No.	Name of the Items	Size	Qty	Specification	Remarks	Approximate Estimate Cost (in Rs.)
1	Dual Desk bench	42 x 33 x 30 L x H x W	200	Class Rooms	EPM Rate	
2	Water Purifier with Cooler	250 Ltr. Storage	02	Purifier, Alkaline water with Cooler	Open Market	
3	First Aid Box	24 x 12 x 15 L x H x W	04	First Aid Kit with Medicines	Open Market	
4	Office Table	3" x 5" Tables	10	Each Class Room	EPM Rate	
5	Almirah	6 x 3 x 2.5 L x H x W	06	All Laboratories	EPM Rate	
6	Steel / Metal Podium	6 ½"	06	Class Rooms	Open Market	
7	Stretcher		01	Students Use	Open Market	
8	Napkin Incinerator		04	500 Pcs.	Open Market	
9	Lab. Equipment Physics, Chemistry, Botany, Zoology	List enclosed as per C.B.C.S. Syllabus for U.G. Students			Open Market	

  
Principal 22/2/24  
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**NATIONAL COLLEGE, NUAPADA**  
**List is as per CBCS Syllabus U.G. Science Students**

**LIST OF APPARATUS (CHEMISTRY)**

1	Barker (50ml, 100ml, 250ml)		
2	Conical Flask		
3	Burette		
4	Pipette (5ml, 10ml, 25ml)		
5	Funnel		
6	Volumetric Flask		
7	Test Tubes		
8	Dropper		
9	Graduated Cylinder		
10	Round Button Flask		
11	Separatory Funnel		
12	Fusion Tube		
13	Fitter Paper		
14	Spatula		
15	Desiccator		
16	Watch Glass		
17	Bunsen Brunel (24)		
18	Wash Bottle		
19	Litmus Paper		
20	Wire Gave		
21	Test Tube Hadder		
22	Crucible		
23	Mortar		
24	Evaporating Dish		
25	Burette Stand		
26	Test Tube Brushes		
27	Digital Balance		
28	Melting Point Apparatus		
29	P <sup>H</sup> Meter		
30	Calorimeter		
31	Trooped Stand		
32	Wash Bottle		
33	Ring Stand Clamps		
34	Stalangono Meter		
35	Chancoal Brick		
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Principal  
National College, Nuapada

**NATIONAL COLLEGE, NUAPADA**  
**List is as per CBCS Syllabus U.G. Science Students**

**LIST OF CHEMICALS (CHEMISTRY)**

1	Oxalic Acid	47	Hydro Chloric Acid
2	Sodium Carbonate	48	Acetire
3	Sodium Hydroxide (NaOH)	49	Acctaldehyde
4	Hydro Chloric Acid (Hcl)	50	Benzaldehyal
5	Potassium Pumansanate	51	Potassium Hydroxide
6	Ferrous Sulphate	52	Distilled Water
7	Potassium Dichromatic	53	Ammonia
8	Sodium Thlosulphate	54	Mentyl Orange
9	Benzoic Acid	55	Barum Chloride
10	Phenoptithalein Indicator	56	Cilver Mitrates
11	Acetic Acid		
12	Sodium Acetate		
13	Phenol		
14	Benzoyl Chloride		
15	Anlline		
16	Potassium Telrachloride		
17	Stanch		
18	Methyl Acetate		
19	Ethyl Acetate		
20	Sulphuric Acid (H <sub>2</sub> SO)		
21	Copper Sulphate		
22	Ammosium Hydroxide		
23	Pyridine		
24	Formaldehyde		
25	Sodium Blerbonate		
26	Fehling Suln		
27	Tollen's Reogent		
28	2-4 Dinitro Phenyl Hydrazine		
29	Sodium Nilroprusside		
30	Cerric Ammonium Nitrate		
31	Acetyl Chloride		
32	Aluminum Chloride		
33	Potassium Nitrate		
34	Iodine		
35	Mohisalr (Ferrous Ammonium Salt)		
36	Ethyl Alcohol		
37	Methyl Alcohol		
38	Benzene		
39	Schiff's Reasent		
40	Sodium Metal		
41	Ferre Chloride		
42	Glacial Acetic Acid		
43	Nitric Acid		
44	Sulphuric Acid		
45	Salicylic Acid		
46	Acitic Anharide		

*[Signature]*  
 24/9/07  
**Principal**  
**National College, Nuapada**







**NATIONAL COLLEGE, NUAPADA**  
**List is as per CBCS Syllabus U.G. Science Students**

**LIST OF APPARATUS (BOTANY)**

1	Halmocytometer	57	Safrahim
2	Corenslips	58	Sodine solution
3	Test tube	59	Absolute alcohol
4	Watch galss	60	Glycerin
5	Petridis	61	Canine powder
6	Beaker Small	62	Cotton`clave
7	Test tube stand	63	Lacto phenol
8	Test tube holder	64	Spirit
9	Dropper	65	Ntiy SO4 solution
10	Spirit lamp	66	NQ <sub>2</sub> CO <sub>3</sub> salt
11	Blotting paper	67	Fehlings solution
12	Cork borer	68	NaOH solution
13	Farmens photometer	69	CUSO <sub>4</sub> solution
14	Wilmotts bubblen	70	Starch
15	Buchnes funnel	71	Fast green
16	Micro slide boxes	72	Hem ataxylin
17	Standing rack	73	Xyleone
18	Reagent bottles	74	Calcium carbonate
19	Pipettle stand	75	Ethyl ether
20	Dissecting magnifien	76	Chloroform
21	Magnifien folding	77	Sodium bicarbonate
22	Magnifien torch flash magnifier	78	Lens cleaning solution
23	Pointer eye piece	79	Acetone
24	Model of DNA double helix	80	Formalachyde
25	Typical flower model	81	Methanol
26	Long forcep	82	Mithosis all stages
27	Dissecting microscope	83	Meiosis all stages
28	Laggard formation	84	Chlarydomon
29	Ring formation	85	Coleochaete thalks
30	T.S. of thallus passing through gemma cup	86	Oedogonium veg filament
31	V.S. antheridiophore	87	Vaucheria thallus
32	V.S. grchegoucophare	88	Vaucheria tyhallus with reproductive structures
33	L.S. of mature spoogonism	89	Chora veg structure
34	L.S. of capsule	90	Chora with sexorgan
35	L.S. of strobinus	91	Ectocarpus veg st
36	T.S. stren of equisetum	92	Focus veg st
37	T.S. strbilus of equisetum	93	T.S. of conceptacle FULUS
38	T.S. of corallaidrat of cycas	94	Cysrocarp of polyripomia
39	T.S. of through leg of cycas	95	Nostoc colory
40	V.S. of ovule Cycas	96	T.S of host leaf
41	T.S. of needle pinus	97	Rhizopus surmatic structure
42	L.S. of mature male cone	98	Yeast budding
43	T.S. stem of gretum	99	Ascocarp of aspergillus
44	T.S. leof of gretum	100	V.S. of gill agaricus
45	L.S. ovule of gretum	101	L.S. of gill

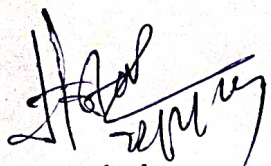
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Principal  
National College, Nuapada



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**NATIONAL COLLEGE, NUAPADA**  
**List is as per CBCS Syllabus U.G. Science Students**

46	T.S. stem of rhynia	102	T.S. of hust leaf
47	T.S. stem of Lepido Dendron	103	Teicutospore
48	Parenchyma Tissue	104	Pyeniospores
49	Collenchymas tissue	105	Geciospore
50	Sclerenchyma tissue	106	Lichen thallus
51	Xylem & pholem	107	V.S. apothecium of lichen
52	Orthotropmo ovule	108	Vegetative St of Riccia
53	Anatoopous ovule	109	R.S. of Riccia Thallus
54	Amphitropous ovule	110	L.S of sporogonium Riccia
55	Campylotoopous ovule	111	T.S. of marchantia Thallus
56	Hemitopous ovule		

  
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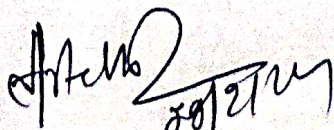
**NATIONAL COLLEGE, NUAPADA**  
**List is as per CBCS Syllabus U.G. Science Students**

**LIST OF APPARATUS (CHEMISTRY)**

Sl. No.	Item Name	Qty.	Rate
1	Beker (50ml, 100ml, 250ml)	1 Dz. Each	Open Tender (Subject to lowest quoted price)
2	Conical Flask	1 Dz.	
3	Burette 50 Ml. plastic	2 Dz.	
4	Pipette (10ml)	2 Dz.	
5	Funnel	1 Dz.	
6	Volumetric Flask (1 Ltr)	6 Pcs	
7	Test Tubes	100 Gross	
8	Dropper	1 Dz.	
9	Graduated Cylinder (500 Ml.)	6 Pcs	
10	Round Button Flask 1 (Ltr)	6 Pcs	
11	Separatory Funnel (1 Ltr)	6 Pcs	
12	Fusion Tube	5 Kg	
13	Fitter Paper	1 Bundle	
14	Spatula	1 Dz.	
15	Desiccator	1 Pc	
16	Watch Glass	6 Dz.	
17	Bunsen Brunel (24)	2 Dz.	
18	Wash Bottle	2 Dz.	
19	Litmus Paper	5 Pkt	
20	Wire Gave	1 Dz.	
21	Test Tube Hadder	2 Dz.	
22	Crucible	2 Pcs	
23	Mortar	2 Pcs	
24	Evaporating Dish	2 Pcs	
25	Burette Stand	2 Dz.	
26	Test Tube Brushes	2 Dz.	
27	Digital Balance	2 Pcs	
28	Melting Point Apparatus	2 Pcs	
29	P <sup>H</sup> Meter	1 Pc	
30	Calorimeter	1 Pc	
31	Trooped Stand	1 Dz.	
32	Ring Stand Clamps	1 Dz.	
33	Stalango Meter	1 Nos.	
34	Chancoal Brick	2 Kg.	

**LIST OF CHEMICALS (CHEMISTRY)**

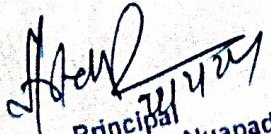
Sl. No.	Item Name	Qty.	Rate
1	Oxalic Acid	1 ltr	Open Tender (Subject to lowest quoted price)
2	Sodium Carbonate	2 Kg	
3	Sodium Hydroxide (NaOH)	2 Kg	
4	Hydro Chloric Acid (Hcl)	10 Ltr	
5	Potassium Pumansanate	500 Gm	
6	Ferrous Sulphate	500 Gm	
7	Potassium Dichromatic	500 Gm	
8	Sodium Thlosulphate	500 Gm	
9	Benzoic Acid	2 Ltr	

  
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**NATIONAL COLLEGE, NUAPADA**  
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Sl. No.	Item Name	Qty.	Rate
10	Phenolphthalein Indicator	2 Ltr	
11	Acetic Acid	2 Ltr	
12	Sodium Acetate	2 Ltr	
13	Phenol	2 Ltr	
14	Benzoyl Chloride	2 Ltr	
15	Aniline	2 Ltr	
16	Potassium Tetrachloride	500 Gm	
17	Starch	2 Kg	
18	Methyl Acetate	1 Ltr	
19	Ethyl Acetate	1 Ltr	
20	Sulphuric Acid (H <sub>2</sub> SO <sub>4</sub> )	10 Ltr	
21	Copper Sulphate	2 Kg	
22	Ammonium Hydroxide	2 Kg	
23	Pyridine	1 Ltr	
24	Formaldehyde	1 Ltr	
25	Sodium Bicarbonate	2 Kg	
26	Fehling Soln	200 ml	
27	Tollen's Reagent	200 ml	
28	2-4 Dinitro Phenyl Hydrazine	500 ml	
29	Sodium Nitroprusside	500 ml	
30	Ceric Ammonium Nitrate	500 Gm	
31	Acetyl Chloride	500 Gm	
32	Aluminum Chloride	500 Gm	
33	Potassium Nitrate	500 Gm	
34	Iodine	100 Gm	
35	Mohr's salt (Ferrous Ammonium Salt)	500 Gm	
36	Ethyl Alcohol	2 Ltr	
37	Methyl Alcohol	1 Ltr	
38	Benzene	1 Ltr	
39	Schiff's Reagent	500 ml	
40	Sodium Metal	1 Kg	
41	Ferric Chloride	1 Kg	
42	Glacial Acetic Acid	5 Ltr	
43	Nitric Acid	10 Ltr	
44	Sulphuric Acid	10 Ltr	
45	Salicylic Acid	1 Kg	
46	Acetic Anhydride	1 Kg	
47	Hydrochloric Acid	10 Ltr	
48	Acetone	500 ml	
49	Acetaldehyde	500 ml	
50	Benzaldehyde	500 ml	
51	Potassium Hydroxide	500 Gm	
52	Ammonia	5 Ltr	
53	Methyl Orange	500 Gm	
54	Barium Chloride	500 Gm	
55	Silver Nitrate	500 Gm	

Open Tender (Subject to lowest quoted price)

  
 Principal  
 National College, Nuapada

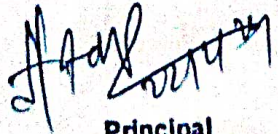
**NATIONAL COLLEGE, NUAPADA**  
**List is as per CBCS Syllabus U.G. Science Students**

**LIST OF INSTRUMENT (PHYSICS)**

Sl. No.	Item Name	Qty.	Rate
1	Fly Wheel	4 Nos.	Open Tender (Subject to lowest quoted price)
2	Weight Hanger	4 Nos.	
3	Slotted Weight	4 sets	
4	Stop Watch	4 Nos.	
5	Meter Scale	4 Nos.	
6	Bar Pendulum	4 Nos.	
7	Kater's Pendulum	4 Nos.	
8	Carey Foster's Bridge	4 Nos.	
9	Decimal Resistance Box	4 Nos.	
10	Weston Galvanometer	4 Nos.	
11	Thick Copper Strip		
12	Rheostat Small Resistance (20 ohm)	4 Nos.	
13	Jockey	4 Nos.	
14	Sodium Lamp	4 Nos.	
15	Travelling Microscope	4 Nos.	
16	Flat Glass Plate	4 Nos.	
17	Plano Convex Lens	10 Nos.	
18	Convex Lens	10 Nos.	
19	Joules Experimental Apparatus	4 Nos.	
20	Type K thermocouple with Digital Temperature Indicator	4 Nos.	
21	Thermistor	4 Nos.	
22	Drop Weight	4 Nos.	
23	Zenner Diode Kit	4 Nos.	
24	Tunnel Diode Kit	4 Nos.	
25	Transistor Kit	4 Nos.	
26	Hall Effect Apparatus	2 Nos.	
27	Spectrometer	2 Nos.	
28	Polari meter	2 Nos.	
29	Solution Tube	10 Nos.	
30	Mercury Lamp	5 Nos.	
31	Spirit Level	5 Nos.	
32	Prism	10 Nos.	

**LIST OF EQUIPMENT (ZOOLOGY)**

Sl. No.	Item Name	Qty.	Rate
1	Test Tube	10 Nos.	Open Tender (Subject to lowest quoted price)
2	Test Tube Holder	10 Nos.	
3	Burner	10 Nos.	
4	Ignition Tube	10 Nos.	
5	Volumetric Flask	10 Nos.	
6	Burette	10 Nos.	
7	Pipette	10 Nos.	
8	Stirrer	10 Nos.	
9	Chromatography Chamber with Lid	10 Nos.	
10	Chromatography Paper	10 Nos.	


  
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**NATIONAL COLLEGE, NUAPADA**  
**List is as per CBCS Syllabus U.G. Science Students**

Sl. No.	Item Name	Qty.	Rate
11	Micropipette	10 Nos.	Open Tender (Subject to lowest quoted price)
12	Sprayer	10 Nos.	
13	Dryer	10 Nos.	
14	Beaker	10 Nos.	
15	Porcelain Plate	10 Nos.	

**LIST OF INSTRUMENT (ZOOLOGY)**

Sl. No.	Item Name	Qty.	Rate
1	Sycon	05 Nos.	Open Tender (Subject to lowest quoted price)
2	Hyalonema	05 Nos.	
3	Euplectella	05 Nos.	
4	Spongilla	05 Nos.	
5	Obelia	05 Nos.	
6	Physalia	05 Nos.	
7	Millepora	05 Nos.	
8	Aurelia	05 Nos.	
9	Tubipora	05 Nos.	
10	Corallium	05 Nos.	
11	Alcyonium	05 Nos.	
12	Gorgonian	05 Nos.	
13	Metridium	05 Nos.	
14	Pennatula	05 Nos.	
15	Fungia	05 Nos.	
16	Madarepora	05 Nos.	
17	Aphrodite	05 Nos.	
18	Nercis	05 Nos.	
19	Heteroneresis	05 Nos.	
20	Sabella	05 Nos.	
21	Hirudinaria	05 Nos.	
22	Palamnacus	05 Nos.	
23	Daphnia	05 Nos.	
24	Sacculina	05 Nos.	
25	Scolopendra	05 Nos.	
26	Julus	05 Nos.	
27	Termite	05 Nos.	
28	Bees	05 Nos.	
29	Peripatus	05 Nos.	
30	Chiton	05 Nos.	
31	Dentalium	05 Nos.	
32	Pila	05 Nos.	
33	Unio	05 Nos.	
34	Dtrea	05 Nos.	
35	Scpia	05 Nos.	
36	Octopus	05 Nos.	
37	Nautilus	05 Nos.	
38	Asterias	05 Nos.	
39	Ophiura	05 Nos.	
40	Cucumaria	05 Nos.	

  
**Principal**  
**National College, Nuapada**

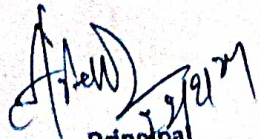
**NATIONAL COLLEGE, NUAPADA**  
**List is as per CBCS Syllabus U.G. Science Students**

**LIST OF SLIDES (ZOOLOGY)**

Sl. No.	Item Name	Qty.	Rate
1	Euglena	05 Nos.	Open Tender (Subject to lowest quoted price)
2	Amoeba	05 Nos.	
3	Paramecium	05 Nos.	
4	Fasciola Hepatica	05 Nos.	
5	Taenia Solium	05 Nos.	
6	Ascaris Lumbricoides	05 Nos.	
7	T.S. Pharynx, T.S. Gizzard, T.S. Typhlosolar	05 Nos.	
8	Stages of Mifosis & Stages of Meiosis	05 Nos.	

**LIST OF APPARATUS (BOTANY)**

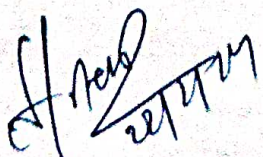
Sl. No.	Item Name	Qty.	Rate
1	Halmocyto meter	05	Open Tender (Subject to lowest quoted price)
2	Corenslips	05	
3	Test tube	1000 Pcs	
4	Watch galss	32 Pcs	
5	Petridis	32 Pcs	
6	Beaker Small	32 Pcs	
7	Test tube stand	32 Pcs	
8	Test tube holder	32 Pcs	
9	Dropper	32 Pcs	
10	Spirit lamp	16	
11	Blotting paper	5 Pkt	
12	Cork borer	5 Set	
13	Farmens photometer	10	
14	Wilmotts bubblen	10	
15	Buchnes funnel	06	
16	Micro slide boxes	03	
17	Standing rack	05	
18	Reagent bottles	16	
19	Pipettle stand	05	
20	Dissecting magnifien	06	
21	Magnifien folding	06	
22	Magnifien torch flash magnifier	06	
23	Pointer eye piece	02	
24	Model of DNA double helix	01	
25	Typical flower model	01	
26	Long forcep	03	
27	Dissecting microscope	10	
28	Laggard formation	01	
29	Ring formation	01	
30	T.S. of thallus passing through gemma cup	01	
31	V.S. antheridiophore	01	
32	V.S. grchegoucophare	01	

  
 Principal  
 National College, Nuapada

**NATIONAL COLLEGE, NUAPADA**  
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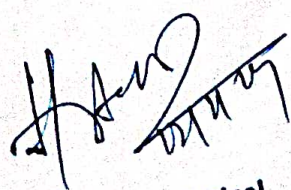
Sl. No.	Item Name	Qty.	Rate
33	L.S. of mature spooгонism	01	
34	L.S. of capsule	01	
35	L.S. of strobilus	01	
36	T.S. stren of equisetum	01	
37	T.S. strbilus of equisetum	01	
38	T.S. of corallaidrat of cycas	01	
39	T.S. of through leg of cycas	01	
40	V.S. of ovule Cycas	01	
41	T.S. of needle pinus	01	
42	L.S. of mature male cone	01	
43	T.S. stem of gretum	01	
44	T.S. leof of gretum	01	
45	L.S. ovule of gretum	01	
46	T.S. stem of rhynia	01	
47	T.S. stem of Lepido Dendron	01	
48	Parenchyma Tissue	01	
49	Collenchymas tissue	01	
50	Sclerenchyma tissue	01	
51	Xylem & pholem	01	
52	Orthotropmo ovule	01	
53	Anatooous ovule	01	
54	Amphitropous ovule	01	
55	Campylotoopous ovule	01	
56	Hemitopous ovule	01	
57	Safranin	500 MI	
58	Iodine solution	500 MI	
59	Absolute alcohol	1500 MI	
60	Glycerin	500 MI	
61	Canine powder	250 gm	
62	Cotton clave	2 bundle	
63	Lacto phenol	100 ml	
64	Spirit	1 ltr	
65	Ntiy SO4 solution	500 ml	
66	NQ <sub>2</sub> CO <sub>3</sub> salt	500 gm	
67	Fehlins solution	500 ml	
68	NaOH solution	500 ml	
69	CUSO <sub>4</sub> solution	500 ml	
70	Starch	500 gm	
71	Fast green	500 ml	
72	Hem ataxylin	500 ml	
73	Xylene	500 ml	
74	Calcium carbonate	500 gm	
75	Ethyl ether	500 ml	
76	Chloroform	500 ml	
77	Sodium bicarbonate	500 ml	
78	Lens cleaning solution	500 ml	
79	Acetone	500 ml	

Open Tender (Subject to lowest quoted price)

  
 Principal  
 National College, Nuapada

**NATIONAL COLLEGE, NUAPADA**  
**List is as per CBCS Syllabus U.G. Science Students**

Sl. No.	Item Name	Qty.	Rate
80	Formalachyde	1000 ml	
81	Methanol	1000 ml	
82	Mithosis all stages	01	
83	Meiosis all stages	01	
84	Chlarydomon	01 chart	
85	Coleochaete thalks	01 chart	
86	Oedogonium veg filament	01 chart	
87	Vaucheria thallus	01 chart	
88	Vaucheria tyhallus with reproductive structures	01 chart	
89	Chora veg structure	01 chart	
90	Chora with sexorgan	01 chart	
91	Ectocarpus veg st	01 chart	
92	Focus veg st	01 chart	Open Tender (Subject to lowest quoted price)
93	T.S. of conceptacle FUCUS	01 chart	
94	Cysocarp of polyripomia	01 chart	
95	Nostoc colony	01 chart	
96	T.S of host leaf of Albugo	01 chart	
97	Rhizopus surmatic structure	01 chart	
98	Yeast budding	01 chart	
99	Ascocarp of aspergillus	01 chart	
100	V.S. of gill agaricus	01 chart	
101	L.S. of gill	01 chart	
102	T.S. of hust leaf	01 chart	
103	Teleutospore	01 chart	
104	Pyeniospores	01 chart	
105	Aeciospores	01 chart	
106	Lichen thallus	01 chart	
107	V.S. apothecium of lichen	01 chart	
108	Vegetative St of Riccia	01 chart	
109	R.S. of Riccia Thallus	01 chart	
110	L.S of sporogonium Riccia	01 chart	
111	T.S. of marchantia Thallus	01 chart	
112	Compound microspore	10	



**Principal**  
**National College, Nuapada**