



Nabadwip Vidyasagar College

Nabadwip, Nadia – 741302, West Bengal

Phone: 03472240014 Fax: 03472 240014

Email: nvcollege1942@gmail.com Website: www.nvcollege.in

TENDER NOTICE

Date: 24/03/2015

Tenders in a sealed envelope are invited for the following items. Sealed tenders must reach the office of the Principal, Nabadwip Vidyasagar College, Nabadwip, Nadia-741302, West Bengal, within 01/04/2015 (Wednesday). For any query please contact Principal's office (03472 240014 & 242730).

List of instruments for Department of Physics

Sl. No.	Name of Instruments	Quantity
1.	Wooden Scale – 1 Meter	12
	½ Meter	12
2.	Magnifying glass (1 ½ inch diameter metallic body)	10
3.	Standard Resistance box – 1 Ω (Sett & De)	10
4.	Sodium Vapour Lamp (Philips) – Bulb only	4
5.	Slide callipers	5
6.	RMS AC Milli-Voltmeter (0 – 20 V) ; Range – 20 mV, 200mV, 2V & 20V (Scientific Equipment & Services, Roorkee)	4
7.	Bulb – 6 V	6
8.	Round Mirror (3 inch diameter plastic body)	10
9.	Thick Convex lens (3 inch diameter, 10 cm focal length & thickness 1.6 cm)	10
10.	Specific Gravity Bottle – 50 ml (Borosil)	6
11.	Beaker – 250 ml (Borosil)	12
12.	Copper Wire (for connecting instruments) – DCC Wire	2 Kg.
13.	Screw driver set (Taparia)	2
14.	Mini Cutting plus (Stripper) (Taparia)	2
15.	Plus (Taparia)	1
16.	Rheostat (100 Ω / 1 A)	5
17.	Hook up Wire (For connection on the Bread Board)	200 Meter
18.	Copper – Constantan Thermocouple (Thermo emf 40 μ V/ $^{\circ}$ C)	1
19.	Two sided Jack	100



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Department Of Chemistry

Requisition of chemicals and glass apparatus

1. Hydrochloric acid - LR - 5 x 2.5 L
3. Sulphuric acid - 5 x 2.5 L
5. Tartaric acid 1 x 500 gm
7. Ammonium carbonate 1 x 500 gm.
9. Ammonium per sulphate - 1 x 500 gm.
11. Catechol - 1 x 250 gm.
13. Ammonium Ferrous Sulphate - 2 x 500 gm.
15. Methylated spirit - 6 x 500 ml.
17. Mercuric chloride - 1 x 100 gm.
19. Orthonitro phenol - 1 x 250 gm.
21. Potassium sulphate - 1 x 500 gm.
23. Phosphorous pentachloride - 1 x 250 gm.
25. Chlorine water - 1 x 500 ml.
27. Acetone - 2 x 500 ml.
29. Activater charcoal - 1 x 500 gm.
31. Methyl acetate - 2 x 500 ml.
33. Copper chloride - 1 x 500 gm.
35. Sodium thiosulphate - 2 x 500 gm.
37. Potassium oxalate 1 x 500 gm.
39. Semi carbazide hydrochloride - 1 x 100 gm.
41. Potassium iodide (LR) - 4 x 250 gm. (Ar)-2 x 100 gm.
43. Rectified spirit - 5 x 450 ml.
45. Iodine - 2 x 100 gm.
47. Potassium permanganate 1 x 500 gm (Analar)
49. Methylene blue 1 x 25 gm.
51. Barium diphenyl amine sulphonate - 1 x 5 gm.
53. Benzoyl chloride - 1 x 500 ml.
55. Ferric chloride 1 x 500 gm.
57. Tin metal - 1 x 100 gm.
59. Glucose - 1 x 500 gm.
61. Potassium ferrocyanide 1 x 500 gm.
63. Cacotheleine - 1 x 5 gm.
65. Filter paper (12.5 cm) - 12 boxes.
67. Meta phosphoric acid - 1 x 500 ml.
69. Ammonium bifluoride - 1 x 250 gm.
71. Vaccum grease - 2 x 100 gm.
73. Oxalic acid 1 x 250 gm (Analar)
2. Hydrochloric acid (AR) - 2 x 500 ml
4. Orthophosphoric acid - 5 x 500 ml
6. Succinic acid - 1 x 500 gm.
8. Ammonium hydrogen fluoride - 1 x 250 gm.
10. Cobalt oxide - 1 x 250 gm.
12. Hydrogen peroxide - 4 x 100 ml.
14. Silver nitrate - 4 x 25 gm. (Analar - 1)
16. Manganous sulphate 1 x 250 gm.
18. Orthonitro aniline - 1 x 250 gm.
20. Paranitrophenol - 1 x 500 gm.
22. Potassium dichromate - 1 x 500 gm.
24. Bromine - 1 x 250 ml.
26. Carbon tetrachloride - 1 x 500 gm.
28. Acetic acid - 2 x 500 ml (Analar - 1, LR - 1)
30. Sodium hydroxide - 2 x 500 gm. (Analar)
32. pH Tablet (pH - 4 & 7) - one file each
34. Sodium sulphide - 1 x 500 gm.
36. Potassium sodium tartrate - 2 x 500 gm.
38. SBT - 1 x 25 gm.
40. hydroxylamine hydrochloride - 1 x 250 gm.
42. Sodium bicarbonate 2 x 500 gm.
44. Stannous chloride 1 x 250 gm.
46. Liquor ammonia - 5 x 2.5 L
48. Barium nitrate 1 x 500 gm.
50. Zinc metal - 1 x 100 gm.
52. Ammonium oxalate - 1 x 250 gm.
54. Ferrous sulphate 1 x 500 gm.
56. Sodium nitroprusside - 1 x 100 gm.
58. Glycerol - 1 x 500 ml.
60. Iron sulphide stick - 1 x 1 Kg.
62. Copper sulphate - 1 x 500 gm.
64. Dimethylaniline - 1 x 500 ml.
66. Tissue paper - 1 roll.
68. Strontium nitrate - 1 x 500 gm.
70. Magnesium nitrate - 1 x 500 gm.
72. Magnesium chloride 1 x 500 gm.



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List Of Lab. Equipments (Including glass apparatus)

<u>Sl. No</u>	<u>Name of the Items</u>	<u>Quantity</u>
1.	Specific gravity bottle	6 pc.
2.	Watch glass	12 pc.
3.	Burette (50 ml) Borosil.	2 dozon
4.	Beaker (500 ml Borosil.	12 pc.
5.	Conical flask (500 ml) Borosil.	12 pc.
6.	Funnel Glass (2 & 1/2")	2 doz.
7.	Sample bottle (Plastic)	2 doz.
8.	measuring cylinder (Plastic)	2 x 10 ml, 2 x 25 ml, 2 x 50 ml, 2 x 100 ml
9.	Test tube 20 ml (4 & 1/2")	12 boxes
10.	. Test tube 10 ml.	6 boxes
11.	Thermometer (250° C, 305 mm)	5 pc.
12.	Standardised weight box	2 Pc
13.	Rider	6 Pc
14.	Water gauze (6" x 6")	6 Pc
15.	Asbestos centred wire (gauze 6' x 6')	6 Pc
16.	Filtering ring	1 doz.
17.	Platinum wire	6 Pc
18.	Pinchcock	6 Pc
19.	Porcelain basin (4")	6 Pc
20.	Chainometric balance	2 Pc
21.	Lamp for overhead projector	2 Pc
22.	Bunsen burner	12 pc.
23.	Glass marking pen	4 pc.
24.	Cellotape	1 pc.
25.	Screw driver set	1 pc.
26.	Pliers	1 pc.
27.	Table lamp	1 pc.
28.	Bulb	1 pc.
29.	Cotton - 1 roll, dettol - 1, burnol - 1, bandaid - 6	



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Requisition for Department of Zoology

SL NO	CHEMICAL	AMOUNT
1	Aceto carmine (100 ml)	3 bottle
2	Sodium Chloride (500) gm	2 bottle
3	Manganous sulphate (500) gm	2 bottle
4	Potassium hydroxide (500) gm	3 bottle
5	Potassium Iodide (500) gm	2 bottle
6	A/B/D Blood group (10) ml	1 bottle
7	Lithium carbonate (500) gm	1 bottle
8	Phenolphthalein (125) ml	3 bottle
9	Starch indicator	1 bottle
10	Methanol (500) ml	1 bottle
11	Folin Reagent	1 bottle
12	Bouins Fluid (500) ml	2 bottle
13	Buffer Capsules 4/7/9.2	1 bottle
14	Hydrochloric Acid N/10 (500 ml)	1 bottle
15	Sodium Carbonate (500) gm	1 bottle
16	Sodium Hydroxide (500) gm	2 bottle
17	An throne for synthesis (25) gm	1 bottle
18	Ferro in Indicator (100) ml	2 bottle
19	R.B.C fluid (500) ml	1 bottle
20	Sodium di Hydrogen Phosphate (500) gm	1 bottle



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21	Sodium thio Sulphate (Penta Hydrate) (500) gm	1 bottle
22	De-hydrated Alcohol. (500 ml)	12 bottle
23	450 ml rectified spirit (450 ml)	12 bottle

SL NO	Specimen	AMOUNT
1	Chaetopterus	1
2	Turtle	1
3	Horned Toad	1
4	Limbless Lizard	1

SL NO	INSTRUMENT and Glass apparatus	AMOUNT
1	Forcep	(3 middle,3 small)
2	Rubber Cork	(12 x 3 = 36 piece)
3	Sprit Lamp (Steel)	2
4	Test Tube Holder	(3piece)
5	Burette –Clamp	(18 piece)
6	Sphygmomanometer	(2 piece)
7	Mortal pestle	2 set
8	Pipette sucker	2 pc
9	Pipette rack	2
10	Printer cartridge	1
11	A4 paper	1pkt



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SL NO	GLASS Equipments	AMOUNT
1	Beaker (Borosil) (1000 ml)	2 piece
2	Beaker (Borosil) (500 ml)	6 piece
3	Beaker (Borosil) (500 ml)	6 piece
4	Beaker (Borosil) (500 ml)	6 piece
5	50 ml Beaker (Borosil) (50 ml)	6 piece
6	Sahli's Pipette (Pasture Pipette)	1 BOX

SL NO	Specimen for Slide Preparation	AMOUNT
1	Daphnia	1 vial
2	Cypris	1 vial
3	Cyclops	1 vial
4	Mysis	1 vial
5	Mosquito Larva	1 vial
6	Obelia	1 vial



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Requisition for Department of Botany

Annex1: List of permanent slides

Annex2: List of Specimen for work out

Annex3: List of Chemicals

Annex4: List of Glass goods

Annex5: List of Misc. articles

Annex1

Slide	Specification	Quantity
Zygospor of Rhizopus	BIOSCO	2
Conidial stage of Aspergillus	Do	02
Micro and macro conidia of Fusarium	Do	02
Uredial stage of Puccinia	Do	02
Telial stage of Puccinia	Do	02
Pycnidial stage of Puccinia	Do	02
Aecial stage of Puccinia	Do	02
T.S. of synangium of Psilotum	Do	02
T.S. of rhizome of Marsilea	Do	02
HLS of sporocarp of Marsilea	Do	02



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Slide	Specification	Quantity
Anomocytic stomata	Do	02
Anisocytic stomata	Do	02
Paracytic stomata	Do	02
Diacytic stomata	Do	02
Raphids	Do	01
Starch grain	Do	01
Aleurone grain	Do	01
Brachysclereids	Do	01
Macrosclereids	Do	01
Osteosclereids	Do	01
Trichosclereids	Do	01
Secondary structure in Xanthium stem	Do	01
T.S. of Nymphaea petiole	Do	01
Dicentric chromatid bridge anaphase I (meiosis)	BIOSCO/Others	01
Multipolarity(mitosis)	Do	01
Bridges(mitosis)	Do	01
Micronuclei(mitosis)	Do	01



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Fragments(mitosis)	Do	01
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Annex2

Specimen	Specification	Quantity
Anabaena	BIOSCO	12
Chara	Do	12
Ectocarpus	Do	06
Polysiphonia	Do	12
Oedogonium	Do	12
Bignonia Stem	Do	12
Boerhaavia Stem	Do	12
Dracaena Stem	Do	06
Gram Root	Do	06
Maize Stem	Do	12
Nerium Leaf	Do	12
Nyctanthes Stem	Do	12
Nymphaea Petiole	Do	12
Orchid Root	Do	12
Tecoma Stem	Do	12
Tinospora Root	Do	06
Xanthium Stem	Do	12



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Rhizobium Nodule	Do	24
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Specimen	Specification	Quantity
Funaria capsule	BIOSCO	12
Riccia antheridia	Do	12
Riccia archaegonia	Do	12
Marchantia sporophyte	Do	12
Marchantia antheridiophore	Do	12
Marchantia archaegoniophore	Do	24
Agaricus gill	Do	06
Ascobolus	Do	12
Penicillum	Do	12
Rhizopus	Do	12
Equisetum cone	Do	12
Lycopodium cone	Do	12
Marsilea sporocarp	Do	12
Pinnate diatom	Do	01
Pithophora	Do	01



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Name of chemicals	Specifications	Quantity
Glucose	Merck/Loba	500gm
Fructose	Do	100gm
Aceto carmine(powder)	Do	5gm
Aceto orcein (powder)	Do	5gm
Sodium Hydroxide	Do	500gm
Sodium potassium tartarate	Do	250gm
Ferric chloride	Do	250gm
Orcinol	Do	100gm
Sodium Carbonate	Do	500gm
Ammonium Ferrous Sulphate	Do	500gm
Agar agar	Do	500gm
2-Butanol	Do	1000ml
Beef extract powder	Do	500gm
Beef extract paste	Do	500gm
Bismarc brown	Do	50gm
Cobalt chloride soln.	Do	500ml
Canada Balsum	Do	250ml
Cupric nitrate	Do	500gm
Chromium oxide	Do	250gm
Calcium chloride	Do	250gm
DPX	Do	500ml
2,4 Dichlorophenol (Indophenol)	Do	2gm
Ferrous sulphate	Do	500gm
Glycerol	Do	500ml



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Name of Chemicals	Specification	Quantity
Hydrogen peroxide	Do	500ml
Iodine	Do	100gm
Light green	Do	50gm
Magnesium sulphate	Do	500gm
Mannitol	Do	500ml
1-Naphthol	Do	100ml
Ninhydrin	Do	100gm
Phloroglucinol	Do	25gm
Potassium ferrocyanide	Do	500gm
Potassium iodide	Do	500gm
Potassium hydroxide	Do	500gm
Resorcinol	Do	250ml
Safranine	Do	25gm
Sodium azide	Do	250gm
Sodium citrate	Do	500gm
SolutionR		1000ml
SolutionA		1000ml



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Annex 4

Name of glassgoods	Specification	Quantity
Funnel fitted with jet	5.5cm(funnel diameter),Borosil	12
Round bottom flask with graduated test tube passing a corcthrough	500ml capacity(Borosil)	06
Respiroscope	Borosil	02
Ganong's respirometer	A bulb,a graduated manometer,connecting rubber tube with stand and clamp	06
Measuring cylinder	50ml,Borosil	06
Measuring cylinder	25ml ,Borosil	12
Funnel	06cm(diameter), Borosil	12
Funnel	08cm (diameter) Borosil,	12
Dropper	08cm(length)	24
Conical flask	50ml capacity, Borosil	12
Conical flask	250ml capacity, Borosil	12
Beaker	50ml capacity, Borosil	12
Beaker	500ml capacity, Borosil	02
Graduated test tube	10ml capacity, Borosil	12
Porcelene pot (large)		02



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Item	specification	Quantity
Tripod stand	Fibre Made	12
Cork borer	Set of six	03
Objective lens of Microscope	100X	24
Eye piece of Microscope	10X	24
Spirit lamp	Stainless steel	24
Thermometer		24
Stop watch		06
plastic tray	Large	12
plastic tray	Small	06



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DEPT. OF ENVIRONMENTAL SCIENCE

REQUISITION FOR CHEMICALS, GLASS & EQUIPMENT

1.	ACETIC ACID	500ml X 2
2.	ACETONE	500ml X 4
3.	CHROMIC ACID	500 ml
4.	HYDROCHLORIC ACID	1 L
5.	SULPHURIC ACID	1L
6.	PERCHLORIC ACID	1L
7.	LACTIC ACID	500ml
8.	LIQUID AMMONIA	1L
9.	AMMONIUM CHLORIDE	500 gm
10.	AMMONIUM OXALATE	500 gm
11.	AMMONIUM IRON SULPHATE	500 gm
12.	AMMONIUM MOLYBDATE	100gm X 2
13.	BARIUM CHLORIDE	500gm
14.	2,6, DICHLOROPHENOL INDOPHENOL	5 gm
15.	E.D.T.A	500gm
16.	GLYCEROL	500 ml
17.	METHYL ORANGE	125 ml
18.	PARAROSANILINE	25gm
19.	PHENANTHROLEIN	125 ml
20.	PHENIL-DI –SULPHURIC ACID	500ml



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21.	PHENOL	500gm
22.	STARCH	500gm
23.	POTASSIUM IODIDE	500gm
24.	MnSO ₄	500gm
25.	AMMONIUM ACETATE	500gm
26.	HYDROXYLAMINEB HYDROCHLORIDE	250 gm
27.	POTTASIAM PERMAGNATE	500gm
28.	SODIUM HYDROXIDE	500gm
29.	SODIUM THIOSULPHATE PENTAHYDRATE	500gm
30.	SnCl ₂	100gm
31.	MgSO ₄ ,7H ₂ O	500gm
32.	LACTOPHENOL	500 ml
33.	COTTON BLUE	100 ml
34.	PDB	100 ml
35.	COLCHICINE	100 ml
36.	CANADA BALSUM	100 ml
37.	ACETO ORCEIN	100 ml
38.	HAEMATOXYLEN	100 ml
39.	XYLENE	100 ml

40. Cover glass (Round) - 4 Box

41. Slide Box -4 Box

42. Permanent slides

a) *Plasmodium vivax*, *Entamoeba*, *vibrio cholera*, *Aspergillus*, *Amoeba*, *Phytophthora*,
E. Coli, *Fasciola*, *Rhizopus*

43. Biological Dissection Box -2 Box



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44. CameraLucida (Prism)- 2 pieces
45. Battery of Ph and Conductivity Meter- 2 pieces
46. Centrifuge Tube- 2 doz.
47. Thermometer- 2 pieces
48. Standard Ph. Sol.
49. Plankton NET
50. Satellite image
51. Air photo –set of 2 image
52. Toposheet
53. Rock Sample (With rock and minerals)
54. Spectrophotometer (cistronics) basic model
55. Beaker (50 ml) - 2 doz.
56. Beaker (100 ml) - 1 doz.
57. Conical flask (100 ml)- 2 Doz.
58. Conical Flask (250 ml)-1 doz.
59. Conical Falsk (500 ml)-1 Doz.
60. Measuring Cylinder (100 ml)- 5 pieces
61. Pipette (1 ml, 5 ml, 10 ml)- 1 doz.
62. Sticker – 1 pkt.
63. Heater (local made)
64. Reagent Bottle (Dark)- 1 Doz.
65. Non ferrous Screen foer Soil Sample
66. Plastic Tray (Small)- 6 pieces
67. Glass Rod- 1 Doz.
68. Tissue Paper -1 Doz.
69. Filter Paper -1 Doz.
70. Distilled water- 50 L