

**Dr. S.S. Bhatnagar University Institute of Chemical Engineering and Technology,
Panjab University, Chandigarh**

**Subject: Request for quotations for chemicals/glassware to be purchased
under PURSE grant**

Sr. No.	Name of Item	Make /Grade	In Packing of
1.	Propanal	CDH	500 ml
2.	Butanal	CDH	500 ml
3.	Acetic acid	CDH	2.5 ltr.
4.	Propionic acid	Loba	2.5 ltr.
5.	Butanoic acid	Loba	2.5 ltr.
6.	Butanone	Loba	500 ml.
7.	Toluene	Rankem	2.5 ltr.
8.	Magnetic beads small	-	1 Pcs
9.	Magnetic beads medium	-	1 Pcs
10.	Acetone	CDH	2.5 ltr.
11.	Sodium Hydroxide pellets	CDH	500 gm.
12.	Oxalic acid	CDH	500 gm.
13.	Pipettes 10 ml.	Perfit	1 Pc
14.	Graduated pipette (1 ml)	Perfit	1 Pc
15.	Graduated pipette (2ml)	Perfit	1 Pc
16.	Pipette controller	Perfit	1 Pc
17.	Test tube stand (35 holes) 36 holes	Perfit	1 Pc
18.	Test tubes (without rim) Graduated	Perfit	1 Pc
19.	Burettes (50 ml)	Perfit	1 Pc
20.	Semi micro spatula	Perfit	1 Pc
21.	Beakers (50 ml)	Perfit	1 Pc
22.	Beaker (100 ml)	Perfit	1 Pc
23.	Beakers (250 ml)	Perfit	1 Pc
24.	Conical Flask (50 ml)	Perfit	1 Pc
25.	Conical Flask (100 ml)	Perfit	1 Pc
26.	Conical Flask (250 ml)	Perfit	1 Pc
27.	Syringe driven filter unit (Packet of 50 pcs)	Millex –GV(0.22 micrometer)	1 Pkt.
28.	Glass Stoppered Volumetric Flask 100 ml.	-	1 Pc
29.	Methanol (LR) Grade	-	2.5 ltr.
30.	Ethylene Glycol	-	2.5 ltr.
31.	Three Neck Glass Bottle Reactor 1L with Screw Cap & Stirrer	-	1 Pc
32.	Thermometer (Lab. Scale)	-	1 Pc
33.	Liquid measuring flask/Jar (1 ltr)	-	1 Pc
34.	Stands for holding agitators	-	1 Pc
35.	Glass sample bottle with screw caps (100 ml)	-	1 Pc
36.	H ₂ O ₂ Hydrogen Peroxide	-	500 ml.
37.	Ca(OH) ₂ Calcium hydroxide	-	500 gm.
38.	Toluene	-	2.5 ltr.
39.	Nitrobenzene	-	2.5 ltr.
40.	Chlorobenzene	-	2.5 ltr.
41.	Carbon Tetrachloride	-	1 ltr.
42.	Nitrotolune	-	2.5 ltr.

Sr. No.	Name of Item	Make /Grade	In Packing of
43.	SiO ₂ (10-20 nm)	-	25 gms.
44.	ZnO (< 100 nm)	-	50 gms.
45.	Beaker (100 ml)	-	1 Pc
46.	Beaker (250 ml)	-	1 Pc
47.	Separation funnel (10 ml)	-	1 Pc.
48.	Separation funnel (250 ml)	-	1 Pc.
49.	Measuring Cylinder (150 ml)	-	1 Pc.
50.	Measuring Cylinder (250 ml)	-	1 Pc.
51.	Conical flask with stopper (100 ml)	-	1 Pcs.
52.	Polyethylene Glycol (m.wt.8000) powder	Sigma – Aldrich	2 kg
53.	Polyethylene Glycol 6000 for Synthesis	Merck	500 gms.
54.	Glycerol Emparta	Merck	2.5 ltr.
55.	Carbon Tetrachloride Emparta	Merck	500 ml
56.	n-hexane (99% AR) synthesis	SDFCL	500 ml.
57.	Potassium metabisulfite purified	SD fine (39634 K 05)	500 gm.
58.	Potassium hydroxide	SD fine (39628 K 05)	500 gm.
59.	Sodium Chlorite	SD fine (36176 K 02)	500 gm.
60.	Anthraquinone	SD fine (37243 K 05)	500 gm.
61.	Ammonium metavanadate	SD fine (37186 K 01)	100 gm.
62.	Cellulose	Sigma Aldrich (435236 – 250 G)	250 gm.
63.	Sodium chromate	SD Fine (36177 K 05)	500 gm.
64.	Bismuth nitrate pentahydrate	Sigma – Aldrich (248592-100g)	100 gm.
65.	Ciprofloxacin	Sigma – Aldrich (17850-5G-F)	5 gm.
66.	Bisphenol A	Sigma – Aldrich (133027-500 G)	500 gm.
67.	Whatmann filter papers	Whatmann filter paper no. 42	1 Pkt.
68.	Tetracycline	Sigma-Aldrich (T3258- 5g)	5 gm.
69.	p-Benzoquinone	Merck (8.2410.0521)	500 g.
70.	Storage Vial Autoclavable (25 mm dia x 60 mm ht.), (100 pcs packing)	Laxbro (SV-15)	1 Pkt.
71.	D.M. Water	-	5 ltr.
72.	Calcium Chloride (Fused)	Merck (1.93634.0521)	500 gm.
73.	Spinwin Tube Conical Bottom (50 ml) (pack of 500 pcs)	Tarsons (500041)	1 Pkt.
74.	pH Electrode	Toshcon	1 pc
75.	Micro centrifuge Tube (1.5 m,) (500 pcs packing)	Tarsons (500016)	1 pkt.
76.	Spare 'O' Ring for PC/PC Desicator (Dia 250 mm)	Tarsons (403031)	1 pc
77.	Silver Nitrate	Merck (1.93200.0027)	25 gm.
78.	Tris(hydroxymethyl) aminomethane	Merck/Emparta (1.93315.0521)	500 gm.
79.	Sodium Chloride	Merck (1.93206.0521)	500 gm.
80.	Culture Tube Flat Bottom with screw cap and silicon liner 5 mL(16x50mm) (pack of	Rivera (71200055)	1 pkt.

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	100 pcs)		
81.	Culture Tube Flat Bottom with screw cap and silicon liner 15 mL(25x57mm) (pack of 100 pcs)	Rivera (71200155)	1 pack
82.	Ammonium Fluoride	Himedia/AR grade (GRM306-250G)	250 gm.
83.	Soxhalet Apparatus Flask siz: 500 ml.	Populat Traders/PT/235/07	1
84.	Narrow mouth bottle 1 ltr. (Pack of 6 Nos.)	Transons/583150	1 Pkt.
85.	Acetonitrile ER	Fisher Scientific/Q11035	500 ml
86.	Wide Mouth Bottle 250 ml.	Tarsons/582230	1 Pc
87.	Acetone ER	Fisher Scientific/Q3200C	2.5 ltr.
88.	Petri dish 50 x 17 (glass)	Borosil/3160065	1 pc
89.	Petri dish 100 x 17 (glass)	Borosil/3160077	1 pc
90.	Storage vials 10 ml (Pack of 100 pcs)	LEXBRO/SV-10	1 Pack
91.	Wash bottle new type	Trasons/561130	1 pc
92.	Para film 4"x125ft.		1 pack
93.	(±) Propylene oxide, 99%, pure	Fisher Scientific / 149620010	1 ltr.
94.	Ethanol	-	500 ml
95.	Hydrochloric Acid ER	Fisher Scientific/Q29505	500 ml.
96.	Sulphuric Acid ER	Fisher Scientific/ Q29997	2.5 ltr.
97.	Demethyl Sulphoxide (DMSO)ER	Fisher Scientific/ Q12435	500 ml.
98.	Tissue Roll (Pack of 6)	-	1 pack
99.	Bottles, Reagent, Graduated with Screw Cap and Pouring Ring (25 ml.)	Borosil/1501009	1 pc
100.	Bottles, Reagent, Graduated with Screw Cap and Pouring Ring (50 ml.)	Borosil/1501012	1 pc
101.	Dropping Funnel with Glass Stopcock 100 ml	Borosil/6408016	1 pc
102.	Buchner funnel (100 mm dia)	Tarson/643020	1 pc
103.	Zinc chloride (AR)	Qualikem/2003212	500 gm.
104.	Ferric Chloride (Hydrated)	Qualikem/F040112	500 gm.
105.	Potassium Hydroxide (AR)	Qualikem/P/028212	500 gm.
106.	Sodium Hydroxide	Qualikem/S049212	500 gm.
107.	Choline Chloride	Qualikem/C148112	500 gm.
108.	Paraffin Liquid (Heavy)	Qualikem/P069114	2.5 ltr.
109.	Nitric Acid AR (69-72%)	Qualikem/NO15214	2.5 ltr.
110.	Hydrochloric Acid AR 91.18)	Qualikem/H020214	2.5 ltr.
111.	Hydrofluoric Acid	Qualikem/HO43212	500 ml.
112.	Beakers 500 ml	Borosil/1000024	1 pc
113.	Beakers 250 ml.	Borosil/1000021	1 pc
114.	Bottle	Borosil/122024	1 pc
115.	Bottle wash 500 ml	Borosil/160024	1 pc
116.	Condenser Double surface length 300 mm	Borosil 2641190	1 pc
117.	Measuring Cylinder 50 ml	Borosil/2981012	1 pc

Sr. No.	Name of Item	Make /Grade	In Packing of
118.	Measuring Cylinder 25 ml	Borosil/2981009	1 pc
119.	Measuring Cylinder 10 ml	Borosil/2981006	1 pc
120.	Petri Dish 200 x 20 mm	Borosil/3160087	1 pc
121.	Dish 2500 ml	Borosil/3140086	1 pc
122.	Round Bottom Flask 500 ml	Borosil/4100024	1 pc
123.	Round Bottom Flask 250 ml	Borosil/4100021	1 pc
124.	Round Bottom Flask 150 ml	Borosil/4100018	1 pc
125.	Conical Flask 500 ml	Borosil/5000024	1 pc
126.	Conical Flask 100 ml	Borosil/5000016	1 pc
127.	Funnel 75 mm.	Borosil/6140071	1 pc
128.	Funnel 25 mm.	Borosil/6140057	1 pc
129.	Funnel 50 mm.	Borosil/6140065	1 pc
130.	Pipette 10 ml	Borosil/7082P06	1 pc
131.	Flat Bottom Tubes 50 ml	Borosil/9910012	1 pc
132.	Test Tube Stand	Borosil/LAT58888H19	1 pc
133.	Micro-centrifuge Tubes 1.5 ml.	Borosil/BGPMCT015C	1 pcs
134.	Laboratory Rubber tubing (Bore Size 5mm) (10 mtr. Roll)	Borosil/PT-1170/01	1 roll
135.	Test Sieves	Borosil/PT-880/20	1 pc
136.	Test Sieves	Borosil/PT-880/23	1 pc
137.	Spatula	Borosil/PT-1077/06	1 pc
138.	Spatula	Borosil/PT-1076/04	1 pc
139.	Spatula	Borosil/PT-1076/05	1 pc
140.	Spatula	Borosil/PT-1076/06	1 pc
141.	Spatula	Borosil/PT-1077/05	1 pc
142.	Tong	Borosil/PT-1080	1 pc
143.	Tong	Borosil/PT-1074/08	1 pc
144.	Tong	Borosil/PT-1079	1 pc
145.	Tong	Borosil/PT-1074/07	1 pc
146.	Tong	Borosil/PT-1074/08	1 pc
147.	Tong	Borosil/PT-1074/09	1 pc
148.	Tong	Borosil/PT-781/04	1 pc
149.	Tong	Borosil/PT-780/06	1 pc
150.	Dibasic Sodium Phosphate (di hydrate)	-	500 gm.
151.	Citric Acid	-	500 gm.
152.	Sodium Citrate	-	500 gm.
153.	Acetic Acid	-	500 gm.
154.	Sodium Acetate	-	500 gm.
155.	Ferrous Fumarate	-	500 gm.
156.	Heavy Protein Isolate	-	500 gm.
157.	Enzyme – Pepsin	Himedia	200 gm.
158.	Enzyme – Pancreation	Himedia	200 gm.
159.	Cyclohexane AR grade	SRL (46616)	2500 ml.
160.	N,N-DMF AR grade	SRL (21974)	2500 ml.
161.	Cyclohexene	Merck (110-83-8)	500 ml.
162.	Aniline	Sd fine (20041 L 25)	2.5 L
163.	Butan-1-ol	Sd fine (37500 L 05)	500 ml
164.	Ethanol	Sd fine (58021 L 05)	500 ml
165.	Hydrochloric acid	Merck (1.93001 .0521)	500 ml
166.	Sulphuric acid	Merck (1.93000.0521)	500 ml

Sr. No.	Name of Item	Make /Grade	In Packing of
167.	Diethyl ether	Sd fine (20094 L 05	500 ml
168.	Filters paper Grade 42 (pack of 100 pcs)	Whatman (WHA10347511)	1 pkt.
169.	2-propanol	Merck(1.09634.1011)	1L
170.	3-aminio-1-propanol	Sigma Aldrich (A76400-500G	500 g
171.	Ethanolamine	Sd fine (20325 L 05)	500 g
172.	Filters paper, Grade 1(Pack of 100 pcs.))	Whatman (WHA 1001125)	1 pack
173.	Glacial acetic acid	Sd fine (20001BP L 25)	2.5 L
174.	N,N-dimethyl formamide	Sigma Aldrich (319937-500 ML)	500 ml
175.	Tartaric acid	Merck (1.93417.0521)	500 g
176.	Multiwalled CNT	RN/PL/MCNP/	10g
177.	Graphene – GO2	RN/PE/GN/G02/	10 g.
178.	Zinc Acetate	Sigma 383058	500 g
179.	Copper Nitrate	Sigma 223395	500 g
180.	Diethanole Amene	Sigma D8885	500 gm
181.	Copper Sulphate	Sigma 209198	500 gm
182.	Methyle Orange	Sigma 114510	100 gm
183.	Tetrabutyle titnate	Sigma 244112	500 g
184.	Ferric Nitrate	Sigma 216828	500 g
185.	Cobalt Nitrate	Sigma 239267	100 g
186.	Beakers Longform A-grade (500 ml)	Sigma 1060D29	10
187.	Sodium dodecyl Sulphate	Sigma 74255	250 g
188.	Boric anhydride	Sigma 339075	100 g
189.	Polyvinyl Alchocol (PVA)	Sigma 81381	250 g
190.	Polyethylene Glycol (PEG)	Sigma 202398	250 g
191.	CTAB	Sigma H6269	100 g
192.	Hexa methylene tetraamine (HMT)	Sigma 398160	250 g

NOTE: -

(i) Please send the quote in the given sequence only without making any changes and if you are not able to quote any item please put a dash in that column.

(ii) The price/rate so quoted should be per unit or for a pack as the case may be. In case of a pack the quantity in it should be mentioned.

P.S.

- i) The quotation should be addressed to/in favor of Chairperson, Dr. S.S. Bhatnagar University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh- 160014.
- ii) The validity of the quotation should be for a period of 6 months from the due (last) date of submission of the quotation.
- iii) The item/article, if so ordered for should be delivered (supplied) for this institute i.e. Dr. S.S. Bhatnagar University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh- 160014 within 2 – 4 weeks of date of placing of the supply order.

- iv) The government levies viz- Sales Tax/VAT, Excise Duty, etc, if any, so chargeable should be mentioned in the quotation.
- v) **The make/ model/ type/ detail specifications/configurations, salient features etc. if any, should also be mentioned. Also, the relevant catalogue, if any, be sent along with the quotation.**
- vi) The bill would be processed by the institute within 2 weeks after satisfactory checking of the material.
- vii) The payment would be made by the University as per its norms and procedures.
- viii) The discount if any for academic institutions should also be mentioned.
- ix) The quotation should reach in the office of this institute by 15.09.2016.

(Chairperson)