

**DR. S. S. BHATNAGAR UNIVERSITY INSTITUTE OF CHEMICAL  
ENGINEERING AND TECHNOLOGY, PANJAB UNIVERSITY,  
CHANDIGARH**

Ref. No. Dr. SSBUI CET/TEQIP-III/2020/863

Dated:17.11.2020

To,

**Subject:- Request of quotations for Chemicals and Glassware under TEQIP-III**

Note:

1. You are invited to submit your most competitive quotation for the following goods given at **Annexure 1-7**. 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.
2. The price/rate so quoted should be per unit or for a pack as the case may be. In case of a single pack the quantity in it should be mentioned.
3. **For the chemicals, etc. listed in the Notice Inviting quotation (NIQ), of /for those make/brand/catalogue No. or else is particularly mentioned, only for those the rate/price should be quoted in the quotation.**
4. For chemicals, etc. for which there is no mention of a particular make/brand/catalogue number or else, the price/rate be mentioned only for the pack/quantity or else as per mentioned in the Notice Inviting Quotation (NIQ).
5. The validity of the quotation should be for a period of 01 year from the due (last) date of submission of the quotation.
6. The Govt. levies viz-Sales Tax/GST Excise duty, etc. if any, so chargeable should be clearly mentioned in the quotations.
7. GST @ 5% would be chargeable extra & for the purpose a Certificate will be issued for the items/articles are supplied in accordance with the bill.

8. The make/model/type/detail specifications/configuration, salient features etc. if any, should be mentioned. Also the relevant catalogue, if any, be sent along with the quotation.
9. The bill would be processed by the institute within 02 week after satisfactory receipt and inspection of material.
10. The discount if any for academic institute should also be mentioned.
11. The vendors will valid GST should sent the quotation only.
12. The quotation should reach in the office of this institute by **27.11.2020 by 04.00 p.m.**

P.S.

Quotation should be addressed to/in favor of **PROJECT HEAD, TEQIP-III, 2ND FLOOR, Dr. S.S BHATNAGAR UNIVERSITY INSTITUTE OF CHEMICAL ENGINEERING AND TECHNOLOGY, PANJAB UNIVERSITY CHANDIGARH-160014**, and sent under a sealed cover (envelope) subscribing **‘QUOTATION FOR CHEMICALS/GLASSWARE, etc’ UNDER TEQIP-III**, along with office reference number (if any).

Prof. Anupama Sharma  
Project Coordinator  
TEQIP-III

Prof. Amrit Pal Toor  
Project Head  
TEQIP-III

**Annexure-1**

<b>Sr. No.</b>	<b>Chemical Name</b>	<b>Make</b>	<b>CAS No.</b>	<b>Qty</b>	<b>In Packing Of</b>
<b>1.</b>	Chlorobenzene	LOBA Chemie	108-90-7	4	2.5 L
<b>2.</b>	Nitrobenzene	LOBA Chemie	98-95-3	4	2.5 L
<b>3.</b>	Tetrachloroethylene	LOBA Chemie	127-18-4	4	2.5 L
<b>4.</b>	Carbon tetrachloride	LOBA Chemie	56-23-5	1	2.5 L
<b>5.</b>	Hydrochloric Acid	Loba-Chemie	0170F	500mL	
<b>6.</b>	Ammonia Solution (25%)	LobaChemie	1336-21-6	500mL	
<b>7.</b>	Palmitic acid	LobaChemie	57-10-3	500g	
<b>8.</b>	Dichloromethane	Loba	75-09-2	500mL	
<b>9.</b>	Molecular Seives	Loba	1318-02-1	500g	
<b>10.</b>	Dichloromethane	Loba	75-09-2	2.5L	
<b>11.</b>	Rhodamine 6G	LOBA	989-38-8		

**Annexure-2**

<b>Sr. No.</b>	<b>Chemical Name</b>	<b>Make</b>	<b>CAS No.</b>	<b>Qty</b>	<b>In Packing Of</b>
1.	Sulphuric Acid	CDH	650055 (7664-93-9)	5 L	
2.	Silver Sulphate	CDH	641035 (10294-26-5)	25 g	
3.	Mercury Sulphate	CDH	581085 (7783-35-9)	250 g	
4.	Ferriin Indicator	CDH	834360	500 mL	
5.	Ferrous Ammonium Sulphate	CDH	027166 (7783-85-9)	500 g	
6.	Hydroxylamine Hydrochloride	CDH	028523 (5470-11-1)	500 g	
7.	1,10-Phenanthroline monohydrate	CDH	606025 (5144-89-8)	25 g	
8.	Hydrogen Peroxide	CDH	845250 (7722-84-1)	5 L	
9.	Ferrous Ammonium Sulphate	CDH	027166 (7783-85-9)	1 kg	
10.	Terephthalic Acid	CDH	030351 (100-21-0)	500 g	
11.	Ammonium Acetate	CDH	456255 (631-61-8)	500 g	
12.	HCl	CDH	113460 (7647-01-0)	500 mL	
13.	NaOH Pellets	CDH	643525 (1310-73-2)	500 g	
14.	Potassium Permanganate	CDH	029644 (7722-64-7)	500 g	
15.	Potassium Dichromate	CDH	029605 (7778-50-9)	500 g	
16.	Methanol	CDH	029192 (67-56-1)	5 L	
17.	Acetic Acid Glacial	CDH	027017 (64-19-7)	2.5 L	
18.	Paraffin Liquid Heavy	CDH	029437 (8012-95-1)	500 mL	
19.	Silica Gel Blue	CDH	030060 (112926-00-8)	1 kg	
20.	para-Toluene Sulphonic Acid	CDH	030459 (6192-52-5)	500 g	
21.	Toluene	CDH	030452 (108-88-3)	500 mL	
22.	Isopropyl Alcohol	CDH	617665 (67-63-0)	2.5 L	
23.	Butanol	CDH	027500 (71-36-3)	2.5 L	
24.	Acetonitrile	CDH	700630 (75-05-8)	1 L	
25.	Water HPLC	CDH	779600 (7732-18-5)	2.5 L	
26.	Methanol HPLC	CDH	752140 (67-56-1)	1 L	
27.	Methanol with 0.1% formic acid	CDH	752320	2.5 L	
28.	Ammonium Formate	CDH	457185 (540-69-2)	500 g	
29.	Water with 0.1% formic acid	CDH	902820	2.5 L	
30.	Acetonitrile with 0.1% formic acid	CDH	800405	2.5 L	
31.	Silver Nitrate	CDH	7761-88-8	10 g	
32.	Lactic Acid	CDH	50-21-5	500 mL	
33.	Cellulose acetate	CDH	9004-35-7	500 g	
34.	Cellulose powder	CDH	9004-34-6	500 g	
35.	Caprolactum	CDH	105-60-2	1 kg	
36.	1,3 butanediol	CDH	107-88-0	500 mL	
37.	1,4 butanediol	CDH	110-63-4	500 mL	
38.	1,4 propanediol	CDH	57-55-6	500	

				mL	
<b>39.</b>	Diethylene glycol	CDH	111-46-6	500 mL	
<b>40.</b>	Ethylene diamine	CDH	107-15-3	500 mL	
<b>41.</b>	Amberlyst-15	CDH	9037-24-5	250g	
<b>42.</b>	Chloroform	CDH	67-66-3	2.5L	
<b>43.</b>	Fumaric acid	CDH	28435	1	--

**Annexure-3**

Sr. No.	Chemical Name	Make	CAS No.	Qty	In Packing Of
1.	ZnO nanoparticles	SIGMA	1314-13-2	1	5 g
2.	Al <sub>2</sub> O <sub>3</sub> nanoparticles	SIGMA	1344-281-1	1	50 g
3.	Lithium chloride	Sigma Aldrich	16712-20-2	100g	-
4.	Rubidium chloride, 99.8% trace metal basis	Sigma Aldrich	09-11-7791	10g	-
5.	Cesium chloride, Reagent plus	Sigma Aldrich	7647-17-8	25g	-
6.	Aspirin	Sigma Aldrich	50-78-2	100g	-
7.	tert-Butanol	Sigma Aldrich, ACS reagent, 360538-500ML	822264	500ml	-
8.	DIPA(Diisopropylamine)	Sigma Aldrich, puriss. 38290-250ML-F	108-18-9	250ml	-
9.	Methyl ammonium iodide (MAI)	Sigma	793493-5G	5g	-
10.	SnCl <sub>2</sub>	Sigma	7772-99-8	10gms	
11.	SnI <sub>2</sub>	Sigma	409308-5G	5g	-
12.	GBL (Gama butyrolactone)	Sigma	B103608-25G	25g	-
13.	Methyl Palmitate	Sigma	P5177-25g	25g	
14.	1,3,5-benzene tricarboxylic acid	Sigma	482749	100g	
15.	Isopropyl-palmitate	Sigma	142-91-6, 291781	1L	
16.	Tetraethylorthosilicate	Sigma	78-10-4, 8.00658	250ml	
17.	Tetraethylorthosilicate	Sigma	78-10-4, 8.00658	500ml	
18.	Tween-80	Sigma	9005-65-6, P1754	500ml	
19.	Hexamethyl di isocyanate	Sigma	52649	25 mL	
20.	Polyethylene glycol	Sigma	202398	500 g	
21.	Ethylene glycol	Sigma	324558	100ml	
22.	Aluminiumisopropoxide	Sigma	220418	100 g	
23.	2-amino terephthalic acid	Sigma	10312-55-7, 381071	25g	
24.	Titanium butoxide	Sigma Aldrich	5593-70-4		
25.	1,3,5-tribenzenetricarboxylic acid	Sigma	482749	1	
26.	Lanthanum nitrate hexa hydrate	Sigma	102777-43-7	10	
27.	Whatmann filter paper (Grade 42)	Sigma	-	1	250g

**Annexure-4**

<b>Sr. No.</b>	<b>Chemical Name</b>	<b>Make</b>	<b>CAS No.</b>	<b>Qty</b>	<b>In Packing Of</b>
1.	Isopropyl alcohol	Merck	67-63-0	2.5L	-
2.	Titanium tetraisopropoxide	Merck	205273	500mL	
3.	Ethyl Palmitate	Merck	628-97-7, P9009	25g	
4.	Buffer Capsules pH 7	Merck	-	1	
5.	Buffer Capsules pH 4	Merck	-	1	
6.	Stannic Chloride	Merck	7772-99-8	10 g	
7.	Stannous Octate	Merck	301-10-0	10 g	
8.	Silver Nitrate	Merck	7761-88-8	25 g	
9.	Poly Lactic Acid	Merck	26100-51-6	5 g	
10.	Lignin Alkali	Merck	01-05-8068	100 g	
11.	Ethylene glycol	Merck	107-21-1		
12.	Bismuth nitrate pentahydrate	Merck	1304-85-4		
13.	Triethylamine	Merck	121-44-8		
14.	Tin chloride dihydrate	Merck	10025-69-1		
15.	Selenium powder	Merck	7782-49-2		
16.	Tellurium powder	Merck	13494-80-9		
17.	Aluminium nitrate nonahydrate	Merck	7784-27-2		
18.	2-aminoterephthalic acid, 99%	Merck	10312-55-7		1g
19.	Europium(iii) nitrate pentahydrate, 99.99%	Merck	63026-01-7		
20.	Zinc nitrate hexahydrate	Merck	10196-18-6		
21.	Sulfamethoxazole	Merck	723-46-6		
22.	Zirconium chloride	Merck	10026-11-6		
23.	Silica Gel 60 F <sub>254</sub> TLC Plates	Merck	105554		25

**Annexure-5**

<b>Sr. No.</b>	<b>Chemical Name</b>	<b>Make</b>	<b>CAS No.</b>	<b>Qty</b>	<b>In Packing Of</b>
1.	Chloroform	TCI	67-66-3	500mL	
2.	2-methylimidazole	TCI	693-98-1	100g	
3.	Butyl Palmitate	TCI	111-06-8, P0649	25mL	
4.	2-sulfoterephthalic acid	TCI	19089-60-2, S0419	25g	
5.	Ammonium cerium (IV) nitrate	TCI	16774-21-3	1	50g
6.	2,6 pyridine dicarboxylic acid	TCI	499-83-2	1	B19B19
7.	2-methyl imidazole	TCI	693-98-1	1	100
8.	L-Methionine	TCI	63-68-3	1	100g
9.	Orthophosphoric Acid	TCI	7664-38-	1	500ml
10.	Glycine	TCI	56-40-6	1	500g
11.	Methyl Laurate	TCI	111-82-0, S0309	5ml	



**Annexure-6**

<b>Sr. No.</b>	<b>Chemical Name</b>	<b>Make</b>	<b>CAS No.</b>	<b>Qty</b>	<b>In Packing Of</b>
1.	Culture tubes with plastic screw cap.5 ml, 10ml	Riviera/Borosil/Perfit	9.010.603	100 pcs each	5ml,10ml
2.	0.2 1 micropipette tips	Riviera/Borosil/Perfit		500 pcs	-
3.	Fixed volume 500µL micropipette tips	Riviera/Borosil/Perfit		500pcs	-
4.	Beaker (250mL)	Perfit	635/03	1	
5.	Beaker (500mL)	Perfit	635/04	1	
6.	Conical Flask (250mL)	Perfit	84/12	1	
7.	Tong	Perfit	1080	1	
8.	Dropper 15cm with treat borosil glass	perfit	463	10	1
9.	Spatula	Perfit	1077/2	10	1
10	Spatula	Perfit	1077/05	10	1
11	Culture tubes flat bottom with screw cap 40ml	Perfit	327/04	1	-
12	Beaker (100mL)	Borosil	635/02	1	Beaker (100mL)
13	Beaker (1000mL)	Borosil	635/05	1	
14	Measuring Cylinder (100mL)	Borosil	-	1	
15	Measuring Cylinder (50mL)	Borosil	-	1	
16	Burette (50mL)	Borosil	-	1	
17	Glass Vials 5ml	BOROSIL	-	10	1

**Annexure-7**

Sr. No.	Chemical Name	Make	CAS No.	Qty	In Packing Of
1.	Carbon nanotubes	SRL	308068-56-6	1	25 g
2.	Ethanol	Changshu Yangyan Chemicals China	XK-13-01100009	500ml	
3.	Hydrogen Peroxide	Fischer	7722-84-1	500mL	
4.	Acetone (AR)	Molychem	21040	2.5L	
5.	Cetyltrimethyl ammonium bromide	SRL	59-09-0,66302	500g	
6.	Syringe Filters (0.2 µm)	Pall		1 box	
7.	Syringe 5mL	Dispovan	-	1 box	
8.	Syringe 10 mL	Dispovan	-	1 box	
9.	Syringe Filters (0.4 µm)	Pall	-	1 box	
10	Toluene	Rankem	108-88-3	2.5 L	
11	Lactic Acid	SRL	50-21-5	500 mL	
12	Zirconium oxychloride	SRL	13520-92-8	250g	
13	DMF	SRL	68-12-2	2.5L	
14	Zirconium oxychloride	SRL	13520-92-8	500g	
15	Polyvinylpyrrolidone (PVP K-30)	SRL	9003-39-8		
16	Sodium molybdate dihydrate	SDFCL	10102-40-6		
17	Hydrogen peroxide (30 %)	SDFCL	7722-84-1		
18	Sodium borohydride	SDFCL	16940-66-2		
19	Toulene	Rankem	108-88-3	5	2.5 ltr
20	Tissue roll	-	-	10	2
21	Ethanol	-	-	4	5ltr
22	Silver foils rolls	-	-	10	1
23	Hydrochloric acid(36%)	Fischer	-	2	2.5ltr
24	Hydrogen peroxide	Fischer	15465	10	500ml
25	Acetone(AR)grade	Molychem	21040	4	2.5ltr
26	Methanol(AR)grade	Molychem	24260	2	2.5ltr
27	Sodium acetate	Molychem	18060	1	500g
28	Hexane(AR)	Molychem	23480	2	2.5ltr
29	Gloves	Himalaya scientific	--		10g
30	Condenser	Any		5	500g
31	Ethanol AR	Changshu yangyan chemical china	XK13-011-00009	1	
32	Gallic acid	Molychem	14590	1	25g
33	ALP assay kit	Himedia	CCK035-100	2	-
34	MTT assay kit	Himedia	CCK003-1000	1	-
35	Estradiol kit	Elabscience	E-EL-0152	1	-
36	Tissue Roll	-	-	10	2
37	Polyacrylamide	NATIONAL CHEMICALS	08-05-9003	1	100 g
38	Centrifuge tubes of capacity 15ml, 25ml and 50ml respectively	Eppendorf/Tarsons	0030122151, 0030118405, 0030122178	500tubes, 200tubes, 500tubes	-