

From

Head,  
Applied Sciences Department  
PEC University of Technology, Chandigarh.

To

College website Copy

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Memo No. PEC/AS/17/\_\_\_\_\_

Dated: \_\_\_\_\_

**Subject: Quotations.**

Quotations are hereby invited in respect of the articles mentioned as per list attached. The quotations should be sent directly to the undersigned in the sealed cover with transparent fixing tape duly signed in ink underneath by post marked “**quotation and due date**” on the top of envelope so as to reach this office on or before **14.09.17** through Registered/Speed post.

These will be opened by the committee members on **15.09.17 at 11.30 A.M.** in the presence of the tenderers or their representatives who may care to be present before the committee members. The right of accepting or rejecting any quotation without assigning any reason is reserved. Necessary literature of the articles may please be sent.

S.No	Description of the articles & Specification	Quantity Required
	<b>The Chemicals should be of E Merck/ Fisher/ SRL/Sigma Aldrich/ Alfa Aesar/ Acros Organics &amp; Glassware of Borosil/Fisher/Corning only. No other brand or make of Chemicals and Glassware will not be accepted.</b>	<b>As per list attached</b>

It may please be specified if the packing, insurance and sales tax/excise duty etc. will be inclusive or extra of the prices quoted. Please quote delivery period also. Only best quality should be quoted. The quotation for advance payment or payment against delivery will not be accepted

**Terms & Conditions:** Overleaf

Head,  
Applied Sciences Department  
PEC University of Technology, Chandigarh

## **TERMS AND CONDITIONS**

1. Bid security / Earnest Money amounting to Rs 10000/- will be taken from the prospective bidder in form of account payee Demand Draft/Bank guarantee from commercial bank in favour of Director PEC University of Technology, Chandigarh. Suppliers registered with DGS&D and NSIC are exempted from bid security/EMD. **Quotation without EMD will not be considered.**
2. A Performance security of 10% of the cost of the equipment will have to be deposited by the successful bidder awarded the supply order in form of A/c payee DD or Bank Guarantee from a commercial bank which should be valid for 90 days beyond the completion of warranty. Performance Security will be forfeited and credited to the institute in the event the supplier does not honor the warranty.
3. Situation in which bid security will stand forfeited if a bidder withdraws its bid during the period of bid validity specified by the bidder on the bid form, and in case of successful bidder, if the bidder fails to supply the equipment or to furnish performance warranty in accordance with the tender.
4. It may please be specified if the packing, insurance and IGST/UTGST/Excise Duty etc. will be inclusive or extra of the prices quoted.
5. Please quote delivery period also. It should be less than 6 weeks from the date of supply order.
6. Catalogue/operation manual should be sent along with supply.
7. Materials should confirm to BSS/ISI specifications where applicable, only best quality should be quoted.
8. The quotation for advance payment or payment against delivery will not be accepted, Payment will only be released after receipt of goods/ material, and satisfactory demonstration/ installation.
9. All legal disputes will be subject to Chandigarh Jurisdiction and will be interpreted under Indian Laws.
10. The Director PEC University of Technology reserves right to reject any or all quotations without assigning any reasons.
11. The firm who has been blacklisted by Center/State Govt./UT/Boards/Corporations/any government authority/PEC University of Technology are not eligible for the quote.
12. The penalty will be charged @ 0.5% per week after the expiry of delivery period, mentioned in the purchase order.
13. All the rates will be FOR, PEC University of Technology, Chandigarh.
14. The institute being a premier Education and Research Institute funded by Chandigarh Administration, discounts as applicable to Research Institute/Educational Institutes may be provided in the quotation.
15. The bidders shall not be allowed to change, alter or modify the bids after expiry of the deadlines for the receipts of bids.
16. The firm is entirely responsible for any damage or losses occurred to the material in the transit. The firm will lodge all complaints regarding the damage occurred in the transit and shall bear all expenses.
17. In a bid/tender, either Indian agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same tender for the same item/ product.
18. If an agent bids on behalf of the Principal/OEM, the same agent shall not bid on behalf of another Principal/OEM in the same tender for the same item/ product.
19. Bids received after the due date will not be considered.
20. The tenderer is required to bring their own testing and measurement instruments which are required for the installation, commissioning and testing. These can be taken back after completion of the process.
21. Form D will not be issued.
22. If price is quoted in foreign currency, the rupee equivalent price must also be indicated.
23. In case, any free gift scheme / cash scheme is launched by the company same will be offered by the vender to PEC free of cost.
24. Generally the bid offer will be received opened on the day as specified in the schedule. If the above day is declared as a holiday, then the tender shall be received opened on the next working day at the same time.
25. The agency shall arrange to impart training to the concerned lab staff regarding operation / maintenance of equipment free of cost.
26. The institute has been exempted from custom duty in terms of Government Notification No. 51/96-Customs Dated 23 July 1996 and Central Excise duty in terms of Government Notification No. 10/97-Customs Dated 01 March 1997 as amended from time to time.
27. The validity of offer should be for at least 90 days after opening of the quotations.
28. The equipment/software supplied should carry a warranty/guaranty for one year.
29. **Every bidder should accept the Terms & Conditions of the tender documents by signing along with seal.**

**Date**

**Signature & seal.**

The following chemicals are required for conducting Applied Chemistry practical's during the academic year 2017-18. The Chemicals should be of **E Merck/ Fisher/ SRL/Sigma Aldrich/ Alfa Aesar/ Acros Organics** & Glassware of **Borosil/Fisher/Corning** only.

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S. No.	Name of the Chemical/	Qty. required
1.	Oxalic Acid	6 x 500 g
2.	Iodine	6 x 100 g
3.	Kerosene Oil	10 litres
4.	Conc. Sulphuric Acid	4 x 2.5 litre
5.	Conc. Hydrochloric Acid	12 x 2.5 litre
6.	Ethanol	12x 500 ml
7.	Potassium Iodide LR	12 x 500 g
8.	Oxalic Acid LR	3 x 500g
9.	Sodium Hydroxide LR	6 x 500g
10.	Potassium Hydroxide LR	6 x 500g
11.	Mercuric Chloride LR	2 x 500g
12.	Potassium thiocyanate	2 x 500g
13.	Potassium Iodide LR	12 x 500 g
14.	Potassium Ferricyanide	1 x 500g
15.	Sodium bicarbonate	6x 500 g
16.	Starch Soluble	2 x 500g
17.	Eriochrome Black-T	2 x 100 g
18.	Liquid Ammonia	12 x 500 ml
19.	Ethyl Acetate	6 x 500 ml
20.	Carbon tetrachloride	6 x 500 ml
21.	Buffer solution ( Fischer Scientific) pH 7	1 litre
22.	Buffer solution ( Fischer Scientific) pH10	1 litre
23.	Buffer solution ( Fischer Scientific) pH4	1 litre
24.	Conductivity Standard Solution 1413 $\mu$ S	1 litre
25.	Sodium Sulphate.10H <sub>2</sub> O	500 g
26.	Copper Sulphate	2 x 500 g
27.	Glacial Acetic Acid	2 x 2.5 litre
28.	Ethylenediaminetetraacetic acid (Disodium Salt)	1 x 250 g
29.	Ammonium Chloride	2 x 500 g
30.	Ferrous Sulphate	2 x 500 g
31.	Stannous Chloride	2 x 500 g
32.	Manganous Sulphate	1 x 500 g
33.	Phenolphthalein	1 x 100 g
34.	Calcium Carbonate	1 x 500 g
35.	Ammonium Oxalate	1 x 500 g
36.	Nitro benzene	1 x 100 g
37.	Toluene	500 ml
38.	Benzene	500 ml
39.	Chloro benzene	500 ml
40.	Salicylic Acid	1 x 500 ml
41.	Acetic anhydride	1 x 500 ml
42.	Acetone	2 x 25 L
43.	THF	2x 2.5 L

44.	Ether	20×500 ml
45.	Deuterated CDCl <sub>3</sub>	2×100 mL
46.	Deuterated DMSO	2×10 g
47.	Deuterated D <sub>2</sub> O	2×1L
48.	Ethanol	20×500 ml
49.	Acetonitrile	2×2.5 L
50.	DMSO	2×2.5 L
51.	DMF	2×2.5 L
52.	Distilled water	5×5 L
53.	Hexane HPLC	4×1 L
54.	Chloroform	2×25 L
55.	Toluene	2×25 L
56.	Methanol	1×25 L
57.	Potassium Iodide	1x500g
58.	1 methyl imidazole	2×100 g
59.	Triflic acid	1x100 g
60.	Methane sulphonic acid	1x100 g
61.	1,3-propane sultone	2×50 g
62.	NaIO <sub>4</sub>	1x100 g
63.	Potassium Bisulphate	1x500 g
64.	Citric acid (anhydrous)	1x500 g
65.	Sodium chloride	1x500 g
66.	Sodium sulphate	1x500 g
67.	Sodium bicarbonate	1x500 g
68.	Potassium hydroxide	1x500 g
69.	Magnesium sulphate (anhydrous)	1x500 g
70.	Urotropine	1x500 g
71.	Palladium Chloride	2×1 g
72.	Palladium acetate	2×1 g
73.	Potassium acetate	1x500 g
74.	Sodium acetate	1x500 g
75.	Copper sulphate pentahydrate	1x500 g
76.	Copper sulphate monohydrate	1x500 g
77.	Acrylonitrile	1x500 ml
78.	Methyl acrylate	1x100 g
79.	Dioxane	1x500 ml
80.	Neutral Alumina	
81.	Acroline	1x100 g
82.	Sodium borohydride	1x100 g
83.	Grubs catalyst 1	1x5 g
84.	Grubs catalyst 2	1x5 g
85.	Sodium tetrachloropalladate (II)	1x5 g
86.	n-butyl lithium	1x100g
87.	Calcium nitrate tetrahydrate	1Kg
88.	Barium acetate	3x500g
89.	Zirconium propoxide solution	3x500ml
90.	Titanium propoxide	3x500g
91.	Acetylacetone	2x1L
92.	Barium carbonate	4x500g

93.	Zirconium oxide	4x500g
94.	Barium nitrate	3x500g
95.	Titanium isopropoxide	3x500ml
96.	2-Methoxyethanol	2x2.5L
97.	Bismuth oxide	2x100g
98.	Zinc oxide	3x500g
99.	Nickel nitrate hexahydrate	3x250g
100.	Iron nitrate nonahydrate	3x500g
101.	Citric acid	2x500g
102.	Ethylene glycol	2x1L
103.	Zirconyl chloride octahydrate	1x500g
104.	Titanium dioxide	2x1 Kg
105.	Calcium carbonate	2x1Kg
106.	Calcium acetate hydrate	2x500g
107.	Polyvinyl alcohol	2x500g
108.	Silver Conducting Paste	2x25g
109.	Potassium hydroxide	1x500g
110.	Nickel (II) oxide	2x25g
111.	Gallium(III) nitrate hydrate	2x25g
112.	Gallium oxide	2x25g
113.	Manganese Oxide(MnO)	1x500g
114.	Iron (III) Oxide	1x2.5 Kg
115.	Lead(II) oxide	2x1 kg
116.	Niobium (V) oxide	4x50g
117.	Cerium(IV) oxide	2x100g
118.	Nickel(II) oxide	2x25g
119.	Copper(II) oxide	2x25g
120.	Lithium carbonate	1x250g
121.	Magnesium oxide	1x500g
122.	Xylene	1x500ml
123.	Strontium carbonate	2x100g
124.	Lanthanum(III) oxide	1x100g
125.	Acetone	2x25 L
126.	Labolene	2x1 L
127.	Ethanol	2x2.5 L
128.	Acetic Acid	1x2.5 L
129.	HCL	2x2.5 L
130.	Dettol	2x900 ml
131.	Nitric acid	1x1 L
132.	Silver Tape	1Pc
133.	Sodium hydroxide pellets	1x500 gm
134.	Diphenyltindichloride(A.R)	1x10G
135.	Dibutyltindichloride(A.R)	1x50G
136.	Dimethyl tin dichloride(A.R)	1x100G
137.	Trimethyl tin chloride(A.R)	1x10G
138.	8-Hydroxyquinolines(A.R)	1x25G
139.	O-Vanillin(A.R)	1x10G
140.	Acetazolamide(A.R)	1x5G
141.	3,4-Diaminobenzophenone(A.R)	1x5G
142.	Pyrazine carboxamide(A.R)	1x5G

143.	Pyrrole-2-carboxaldehyde(A.R)	1x10G
144.	2,3-Diaminotoluene(A.R)	1x50G
145.	Isoniazid(A.R)	1x100G
146.	Acetone(A.R)	2x2.5L
147.	Chloroform (A.R)	1x2.5l
148.	Ethanol ( A.R)	1x2.5l
149.	Hexane ( A.R)	1x2l
150.	2-Hydroxy naphthaldehyde ( A.R)	1x25G
151.	2-Aminophenol ( A.R)	1x100G
152.	Acetonitrile ( A.R)	1x2.5L
153.	Dichloromethane ( A.R)	1x500ML
154.	Diethylether ( A.R)	1x2.5L
155.	5-Iodoisatin (A.R)	1x5G
156.	Neodymium(III) Nitrate hexahydrate ( A.R)	1x25G
157.	Gadolinium(III) Chloride (A.R)	1x5G
158.	Sodium hydroxide pellets(A.R)	1x1KG
159.	Cerium chloride heptahydrate(A.R)	1x25G
160.	Nickel(II) Sulfate hexahydrate(A.R)	1x100G
161.	Cobalt(II) Chloride hexahydrate (A.R)	1x25G
162.	Palmitic acid (A.R)	1x10G
163.	Stearic acid (A.R)	1x5G
164.	Butyric Acid (A.R)	1x250ML
165.	Valeric acid (A.R)	1x5ML
166.	Caprylic acid (A.R)	1x1G

Sr No.	Name of the Glassware & other items	Quantity
1.	Conical flask 250 ml capacity	50 Nos.
2.	Conical flask 50 ml capacity	50 Nos.
3.	Beakers 1 litre capacity	12 Nos.
4.	Beakers 500 ml capacity	50 Nos.
5.	Beakers 400 ml capacity	50 Nos.
6.	Beakers 250 ml capacity	50 Nos.
7.	Beakers 100 ml capacity	50 Nos.
8.	Reagent droppers with rubber teats	100 Nos.
9.	Glass rods	100 Nos.
10.	Stalagmometer with rubber tubes and stop cock	24 Nos.
11.	Pyknometer	24 Nos.
12.	Dilatometer	12 Nos.
13.	Separating Funnels (100ml capacity)	12 Nos.
14.	Reagent bottles (100 ml capacity)	50 Nos.
15.	Watch Glass	12 Nos.
16.	Burette (Glass) A Class	12 Nos.
17.	Burette Unbreakable	50 Nos.
18.	Pipette Graduated 10ml capacity	24 Nos.
19.	Pipette 20ml capacity	24 Nos.
20.	Steel Clamps (Specifications will be provided)	06 Nos.
21.	Steel Clamps (Specifications will be provided)	50 Nos.
22.	Round bottom flasks 50 ml capacity	06 Nos.
23.	Reagent bottles with wide mouth 50 ml capacity	12 Nos.
24.	Test tubes with stoppers 10 ml capacity	50 Nos.
25.	Sample tubes with screw caps & Flat bottom 5 ml capacity (sample tube specification will be provided)	50 Nos.
26.	Sample tubes with screw caps & Flat bottom 10 ml capacity (sample tube specification will be provided)	50 Nos.
27.	1- necked round bottomed flask	10×50 mL
28.	1-necked round bottomed flask	10×100 ml
29.	1-necked round bottomed flask	10×25 ml
30.	2-necked round bottomed flask ( B-24,14) , (B-14,14) joint	6×25 ml
31.	2-necked round bottomed flask	6×50 ml
32.	2-necked round bottomed flask	4×100 ml
33.	3-necked round bottomed flask( B-24,14, 14) , (B-14, 14,14) joint	6×50 mL
34.	3-necked round bottomed flask( B-24,14) , (B-14,14) joint	4×100 mL
35.	Chromatographic column with socket – B 14	2
36.	Chromatographic column with socket – B 24	2
37.	Condenser double surface – B 24	2
38.	Condenser coil – B 24	2
39.	Still	1×250 mL
40.	Still	1×500 mL
41.	Tissue roll	2 packets
42.	Spatula 4”	5
43.	Spatula 6”	5

44.	Take off	5
45.	2- way controller with 3 joints	2
46.	Whatmann filter paper number 3	3 packets
47.	Whatmann filter paper number 4	4 packets
48.	Droppers	50
49.	Rubber tubing	2 rolls
50.	Beaker	10×100 mL
51.	Beaker	10×50 mL
52.	Filter flask with socket- B24 joint	2
53.	Buchner funnel with sintered disk (100 mL)	2
54.	Condenser clamp with stand	5
55.	Glass vials 15 ml	30
56.	Glass vials 5 ml	30
57.	Glass vials 30 ml	20
58.	Centrifuge round bottom tube With screw cap	12
59.	Separating funnel	2×250 ml
60.	Separating funnel	2×100 ml
61.	Beaker 100ml	24pc
62.	Beaker 250ml	12pc
63.	Beaker 500ml	12pc
64.	Wash Bottle	5 Pc
65.	Scintillation Vial 20 ml	1 Pkt
66.	Measuring cylinder 10ml	5pc
67.	Measuring cylinder 50ml	5pc
68.	Butter Paper	100 sheet
69.	Tissue Paper	100 Piece
70.	Gloves large	1 packet
71.	Spatula	10pc
72.	Micro spatula	10pc
73.	Mini spatula	10pc
74.	Tweezers (30cm)	5pc
75.	Tweezers (45cm)	5pc
76.	Parafilm (4"W x 125'L)	1 Roll
77.	Thermometer (500 C)	5pc
78.	Micro centrifuge tube (1.5ml)	1pkt
79.	Magnetic Beed 8x40	10 Pc
80.	Magnetic Beed 9.5x22	10 Pc
81.	Aluminum Foil	1 Pkt.
82.	Gloves small	1 pkt
83.	Micro spin magnetic stirring bar (2x6 mm)	3 pc
84.	Forceps	10pc
85.	Scrubber	25 Pc
86.	Glass ware Washing Brush	10 Pc
87.	Kimwipes	10 Pc
88.	Wash bottle	05 Pc
89.	Labelling tape	05 Pc
90.	Soldering Box	1
91.	Wire Guaze	24 Nos.

92.	Laboratory Safety Coats (For Chemistry labs.)	03 Nos.
93.	Rubber Gloves (for Chemistry lab. use) (Specifications will be provided)	06Pairs
94.	Whatmann 40 Filter Paper	06 Packs
95.	Liquid Lifebuoy with dispenser (500ml capacity)	03 Nos.
96.	Dusters big size	24 Nos.
97.	Dusters small size	24 Nos.
98.	Test tube stand (Poly plastic) for 50 ml test tubes (Specifications will be provided)	12 Nos.
99.	Test tube stand (Poly plastic) for 10ml test tubes (Specifications will be provided)	06 Nos.
100.	Cleaning Powder (Vim)	06 Pkts.
101.	Tissue Paper roll	12 Nos.
102.	Cotton rolls (big size)	06 Nos.
103.	Soft Cloth duster for instruments cleaning purpose	12 Nos.
104.	Soap dish	03 Nos.
105.	Lifebuoy Soap	06 Nos.
106.	Match Box	06 Nos.
107.	Gas Lighter (Crystal)	03 Nos.
108.	Extension Board with 5 Amp & 15 Amp switches and sockets with at least 2 metre wire & 5 Amp plug ( ISI Marked only )	03 Nos.
109.	Extension Board with 5 Amp & 15 Amp switches and sockets with at least 2 metre wire & 15 Amp plug ( ISI Marked only )	03 Nos.
110.	Switches 5 Amp( ISI Marked only )	03 Nos.
111.	Switches 15 Amp( ISI Marked only )	03 Nos.
112.	Electric plug 5 Amp.( ISI Marked only )	03 Nos.
113.	Electric plug 15 Amp.( ISI Marked only )	03 Nos.
114.	Water Pipe (white transparent)- Sample will be provided	20 metre
A	<b>Alumina Cylindrical Crucible (Diameter*Height)</b>	
1.	CruCy A20 (32*40mm)	10Pc
2.	CruCy A30 (35*45mm)	10Pc
3.	CruCy A40 (40*52mm)	10Pc
4.	CruCy A50 (41*56mm)	10Pc
5.	Desiccator Vacuum dia 300mm	5 Pc
B	<b>Alumina Plate (Length* Width*Thickness)</b>	
6.	Plate 4 (80*29*4mm)	10
C	<b>Alumina Disc (Diameter * thickness)</b>	
7.	Cov 48 (48*4mm)	10Pc
8.	Cov 58 (58*48mm)	20Pc
D	<b>Alumina Boat(Length*Width*Height)</b>	
9.	Boat A7 (86*15*13mm)	10Pc
10.	Plate4 (99*32mm)	10Pc