

 <b>VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY</b> Burla, Sambalpur-768018, Odisha	
NO. VSSUT/6401/14	Date - 24.02.2014
Sealed tenders are invited from the firms with VAT clearance certificate, copy of PAN card, for the supply of chemicals, glasswares and minor equipments for the Department of Chemistry, VSSUT, Burla. This would reach the office of the undersigned by 10 <sup>th</sup> March, 2014, 5.00PM. Details will be available at <a href="http://www.vssut.ac.in">www.vssut.ac.in</a> .	
<b>Comptroller of Finance</b>	

General:

1. The eligible firms are requested to quote the single price of minimum package.
2. All chemicals may be of CDH / Sigma-Aldrich depending on the price and the availability.
3. Glassware and Glass apparatus should be quoted from Borosil / Rivera make depending upon the price and availability.
4. Small equipments should be quoted the price of both indigenous and imported items depending on their availability and price
5. Firms are requested to attach the certificates of VAT clearance, Income tax and authorize dealership documents for particular make.
6. All the prices should be including VAT and all taxes.
7. Delivery of items will be at University Campus.
8. All the chemicals should be of analytical grade.

## Revised List of Glass wares, Chemicals and Small Equipments

### Name of glassware and small equipments to be purchased

SI NO	
	Blow pipe
1.	Test tube holder
2.	Beaker (100ml)
3.	Beaker (250ml)
4.	Beaker (25ml)
5.	Beaker (50ml)
6.	Beaker(1000ml)
7.	Beaker(500ml)
8.	Buchner funnel
9.	Burette
10.	centrifuger (minimum 500 rpm)
11.	Cobalt blue glass
12.	Condensors
13.	Conical flask (250 ml)
14.	Conical flask (500 ml)
15.	digital balance (upto 3 decimal)
16.	Double distillation appartus
17.	dropper head
18.	Filter paper
19.	Flat bottommed flask with joint
20.	Glass funnel (short stem)

21.	Graduated pipette (1ml,2ml,5ml,10ml)
22.	Heating mantle
23.	Hot air oven
24.	Hot plate
25.	Lassaigne tube
26.	Magnetic stirrer with hot plate
27.	Measuring cylinder (100ml)
28.	Measuring cylinder (10ml)
29.	Measuring cylinder (25ml)
30.	Measuring cylinder (50ml)
31.	Melting point apparatus
32.	Micro pipette (100ml,500ml,10ml)
33.	Mortar
34.	Nicrome ware fitted in glass rod
35.	pH meter
36.	Magnetic stirrer
37.	Pipette (10 ml)
38.	Pipette (25 ml)
39.	Pipette (5 ml)
40.	Pipette stand
41.	Porcelain crucible
42.	Round bottom flask with joint(100ml, 250ml)
43.	Separating funnel (250ml)
44.	Single distillation appartus

<b>45.</b>	Sonicator bath
<b>46.</b>	Spatula
<b>47.</b>	Test tube
<b>48.</b>	Tongs for crucible
<b>49.</b>	T-tube joint
<b>50.</b>	Wash bottle
<b>51.</b>	Whatman filter paper no 42
<b>52.</b>	Water bath
<b>53.</b>	Conducto meter
<b>54.</b>	500 mL bottle as buffer container
<b>55.</b>	Three necked round bottle flask
<b>56.</b>	Condensor
<b>57.</b>	Magnetic bar
<b>58.</b>	15 mL glass vial
<b>59.</b>	5 mL homeo vial
<b>60.</b>	Tips holder
<b>61.</b>	Tips (2-10 $\mu$ L, 20-100 $\mu$ L, 1mL)
<b>62.</b>	1mL micropipette fixed
<b>63.</b>	10 $\mu$ L micropipette (variable from 2-10 $\mu$ L)
<b>64.</b>	Tissue paper
<b>65.</b>	Glass leads
<b>66.</b>	Spatula
<b>67.</b>	Alumina foil

<b>68.</b>	Gloves
<b>69.</b>	15 mL centrifuge glass tube
<b>70.</b>	PH meter

### Name of chemicals to be purchased

<b>Sl no.</b>	<b>Name</b>	<b>Amount</b>
1.	1,4-dioxane	Minimum Pack
2.	2-aminophenol	Minimum Pack
3.	2-aminothiophenol	Minimum Pack
4.	4-amino phenol	Minimum Pack
5.	Acetic acid	Minimum Pack
6.	Acetone	2.5 Litre
7.	Acetonitrile	Minimum Pack
8.	Acetyl chlorite	2.5 litre
9.	Ammonia solution	2.5 litre
10.	Ammonium acetate	Minimum Pack
11.	Ammonium chloride	Minimum Pack
12.	Ammonium thiocyanate	Minimum Pack
13.	Ammonium thiocyanate	Minimum Pack
14.	Aniline	2.5 litre
15.	Benzene	2.5 litre
16.	Calcium chloride	Minimum Pack
17.	Carbon tetrachloride	2.5 litre
18.	Chloroform	2.5 litre

19.	Copper foil	Minimum Pack
20.	Dichloromethane (DCM)	Minimum Pack
21.	Diethyl ether	Minimum Pack
22.	Dimethyl formamide (DMF)	Minimum Pack
23.	Dimethyl sulphoxide (DMSO)	2.5 litre
24.	Disodium salt of EDTA	Minimum Pack
25.	Ethanol	2.5 litre
26.	Ethyl acetate	Minimum Pack
27.	Fehling solution	2.5 litre
28.	Ferric chlorite	Minimum Pack
29.	Ferroun indicator	Minimum Pack
30.	Ferrous sulphate	Minimum Pack
31.	Formamide	2.5 litre
32.	Fructose	Minimum Pack
33.	Glucose	Minimum Pack
34.	Hexane	Minimum Pack
35.	Hydrogen phosphate	2.5 litre
36.	Lead borate	Minimum Pack
37.	Magnesium chloride	Minimum Pack
38.	Magnesium nitrate	Minimum Pack
39.	Manganous sulphate	Minimum Pack
40.	Methanol	2.5 litre
41.	Nitromethane	Minimum Pack
42.	Oxalic acid	2.5 litre

43.	Perchloric acid	Minimum Pack
44.	Phenol	2.5 litre
45.	phosphoric acid	Minimum Pack
46.	Potassium chlorate	Minimum Pack
47.	Potassium hydroxide	Minimum Pack
48.	Potassium iodide (1000gm)	Minimum Pack
49.	Potassium permanganate	Minimum Pack
50.	Pyridine	Minimum Pack
51.	Pyrrole	Minimum Pack
52.	Salicylaldehyde	Minimum Pack
53.	Salicylic acid	Minimum Pack
54.	Schiff's reagent	Minimum Pack
55.	Silver nitrate	Minimum Pack
56.	Sodium bicarbonate	Minimum Pack
57.	Sodium bicarbonate	Minimum Pack
58.	Sodium chloride	Minimum Pack
59.	Sodium hydroxide	Minimum Pack
60.	Sodium metal	Minimum Pack
61.	Sodium nitrite	Minimum Pack
62.	Sodium stannite	Minimum Pack
63.	Sodium thiosulphate	2.5 litre
64.	Thiourea	Minimum Pack
65.	Toluene	2.5 litre
66.	Tween-20	Minimum Pack

67.	Tween-80	Minimum Pack
68.	Urea	Minimum Pack
69.	Zinc dust	Minimum Pack
70.	3-Formyl salicylic acid	Minimum Pack
71.	2-Amino thio phenol (99%)	Minimum Pack
72.	Tris( 3 amino propyl) amine	Minimum Pack
73.	Na <sub>2</sub> EDTA	Minimum Pack
74.	NH <sub>4</sub> Cl	Minimum Pack
75.	NH <sub>3</sub>	2.5 litre
76.	HCl	2.5 litre
77.	Whatmann filter paper – 41	Minimum Pack
78.	Bromo methyl blue	Minimum Pack
79.	NH <sub>4</sub> NO <sub>3</sub>	Minimum Pack
80.	Ferric ammonium alum	Minimum Pack
81.	Dodecane Thiol	Minimum Pack
82.	3-amino propyle methacrylamide	Minimum Pack
83.	Pentachlorophenol	Minimum Pack
84.	Benzenehexachloride	Minimum Pack
85.	Igepal-520	Minimum Pack
86.	Cyclohexane	Minimum Pack
87.	Methacrylic acid	Minimum Pack
88.	Stearic acid	Minimum Pack
89.	Octadecene	Minimum Pack



90.	FeCl <sub>2</sub> (anhydrous)	Minimum Pack
91.	Absolute alcohol	Minimum Pack
92.	Dextran (6 kDa)	Minimum Pack
93.	Maltose	Minimum Pack
94.	Cysteamine hydrochloride	Minimum Pack
95.	N,N,N,'N' tetra methal ethylendiamine	Minimum Pack
96.	Disodiumhydrogen phosphate-500gm	Minimum Pack
97.	Monosodium hydrogen phosphate	Minimum Pack
98.	Boric acid	Minimum Pack
99.	MES buffer	Minimum Pack
100.	Sodium bicarbonate	Minimum Pack
101.	Carbon disulphide	Minimum Pack
102.	Ascorbic acid	Minimum Pack
103.	Potassium mono persulphate	Minimum Pack
104.	Ammonium di persulphate	Minimum Pack
105.	NaBH <sub>4</sub>	Minimum Pack
106.	Ascorbic acid	Minimum Pack
107.	Carbon disulphide	Minimum Pack
108.	Sodium bicarbonate	Minimum Pack
109.	Sodium carbonate	Minimum Pack
110.	MES buffer	Minimum Pack
111.	Polyacrylic acid	Minimum Pack
112.	Benzoyl peroxide	Minimum Pack

113.	Ammonium di persulphate	Minimum Pack
114.	Acrylonitrile	Minimum Pack
115.	Hexyl ethyl acrylate	Minimum Pack
116.	Ethyl methyl acrylate	Minimum Pack
117.	Fish muscular protein	Minimum Pack
118.	Bovine albumin	Minimum Pack
119.	3-formyl salicylic acid	Minimum Pack
120.	Triphenylphosphine	Minimum Pack
121.	meso-2,3-dimercaptosuccinic acid	Minimum Pack
122.	Fluorescein-N-hydroxy succinimide (fluorescein-NHS)	Minimum Pack
123.	Rhodamine-B	Minimum Pack
124.	Hyaluronic acid	Minimum Pack
125.	Lactobionic acid	Minimum Pack
126.	Lactose	Minimum Pack
127.	Nile red	Minimum Pack
128.	Nile blue	Minimum Pack
129.	Mercupto undecanol	Minimum Pack
130.	Mercultoundecanoic acid	Minimum Pack
131.	Thiourea	Minimum Pack
132.	Trehalose	Minimum Pack
133.	Silver nitrate	Minimum Pack
134.	HAuCl <sub>4</sub>	Minimum Pack
135.	Oleylamine	Minimum Pack

136.	Rodamine 6G	Minimum Pack
137.	Fluorescein	Minimum Pack
138.	CTAB-	Minimum Pack
139.	Twin 20	Minimum Pack
140.	Cadmium oxide	Minimum Pack
141.	Sulphur	Minimum Pack
142.	ZnCl <sub>2</sub>	Minimum Pack
143.	HgCl <sub>2</sub>	Minimum Pack
144.	Sodium cyanoborohydride	Minimum Pack
145.	Cholesterol	Minimum Pack
146.	Octadecyl acrylate	Minimum Pack
147.	N-isopropyl acrylamide	Minimum Pack
148.	Acrylchloride	Minimum Pack
149.	Fluorescamine-	Minimum Pack
150.	Mercuptopropanoic acid	Minimum Pack
151.	Glucose	Minimum Pack
152.	3-aminophenylboronic acid-	Minimum Pack
153.	HCl, H <sub>2</sub> SO <sub>4</sub> , HNO <sub>3</sub>	2.5 litre
154.	Sodium dichromate-500gm	Minimum Pack
155.	DMSO	2.5 litre
156.	Sodium chloride	Minimum Pack

157.	Sodium nitrate	Minimum Pack
158.	Chitosan	Minimum Pack
159.	Tetramethylammoniumhydroxide(TMAH)	Minimum Pack
160.	Acrylic acid	Minimum Pack
161.	PEG methyacrylate (Mn-360)	Minimum Pack
162.	mGluteraldehyde	Minimum Pack
163.	Aniline	2.5 litre
164.	Trisodium citrate	Minimum Pack
165.	Decanoic acid	Minimum Pack
166.	Silver nitrate	Minimum Pack
167.	HAuCl <sub>4</sub>	Minimum Pack
168.	Dithiothreitol (DTT)	Minimum Pack
169.	Ammoniumpersulfate	Minimum Pack
170.	5-fluoro uracil	Minimum Pack
171.	Fructose	Minimum Pack
172.	Folic acid	Minimum Pack
173.	Dicyclohexylcarbodiimide (DCC)	Minimum Pack
174.	N-hydroxy succinimide	Minimum Pack

### List of Small Equipments

<b>Sl. No</b>	<b>Name of Equipments</b>	<b>Specification</b>
<b>1</b>	<b>Digital Balance</b>	<b>0.0001 to 100 g.</b>
<b>2</b>	<b>Water circulating bath</b>	<b>Room temperature to 50°C</b>
<b>3</b>	<b>UV lamp</b>	<b>Merck Living Innovation</b>
<b>4</b>	<b>Tubular furnace</b>	<b>Upto 1200°C</b>
<b>5</b>	<b>Conductivity meter</b>	
<b>6</b>	<b>Refracto meter</b>	<b>Measurement of refractive index</b>
<b>7</b>	<b>Spin Coater</b>	<b>Indigenous</b>
<b>8</b>	<b>Water bath</b>	<b>Six hole with variable diameter</b>
<b>9</b>	<b>Nitrogen Cylinder</b>	<b>With regulator (laboratory grade)</b>
<b>10</b>	<b>Argon Cylinder</b>	<b>With Regulator</b>
<b>11</b>	<b>Centrifuge</b>	<b>High RPM</b>