

Name of work: Purchase of chemical for under Graduate laboratories, faculty of pharmacy


**SCHEDULE - B**

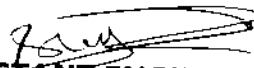
S.No:	Description	
01	Supplying of chemicals for Under Graduate laboratories for Faculty of Pharmacy BBSUL	chemicals list are Attached herewith

**Terms and conditions**

1. Arbitration clause stands deleted from the agreement.
2. Any typographical errors in the schedule "B" are subject to correction with the reference to the schedule of rates General items & Water Supply and Sanitary items 2012 in force from 12<sup>th</sup>-07-2012 as approved by the standing rates committee Sindh, Karachi.
3. 100% well graded crushed bajri shall be used in Item of RCC 1:2:4
4. Water shall be arranged by the contractor at site work without any extra payment.
5. C.C. Block shall be machine made.
6. All RCC/CC cast in situ shall be mechanically vibrated.
7. Contractor has to bring samples of the material and handed over Engineer incharge free of cost.
8. All buildings debris & surplus stuff not req. for use and construction shall be removed from the site the suitable disposal off by the contractors for which no extra cartages shall be paid.
9. The work will be carried out as per PWD Specification.

**Contractor**

  
**SUB-ENGINEER**  
Benazir Bhutto Shaheed  
University, Lyari, Karachi.

  
**ASSISTANT ENGINEER**  
Benazir Bhutto Shaheed  
University, Lyari, Karachi.

  
**EXECUTIVE ENGINEER**  
Benazir Bhutto Shaheed  
University, Lyari, Karachi.

**MINIMUM REQUIREMENTS OF CHEMICALS  
FOR UNDER-GRADUATE LABORATORIES**

(Approximately for 50 students)

*Each 1 Rate*

S. No.	Chemicals	Minimum Quantity In hand (approx for 50 students)
1.	Ammonia	20 L
2.	Ammonium chloride	2 Kg
3.	Acetic acid	25 L
4.	Acetyl salicylic acid	3 Kg
5.	Acetone	15 L
6.	Atropine sulphate	25 gm
7.	Anise oil	1 Lb
8.	Aniline	5 L
9.	Acetanilide	1 Kg
10.	Aluminium chloride	1 Kg
11.	Acetyl chloride	1 L
12.	Acriflavine	1 Pack
13.	Acetamide	1 Kg
14.	4-amino phenol	250 gm
15.	Acetophenone	1 L
16.	Aspartic acid	100 gm
17.	4-amino benzoic acid	250 gm
18.	2-acetyl salicylic acid	1 kg
19.	Amn. Bicarbonate	2 kg
20.	Ammonium molybdate	1 kg
21.	Amaranth	2 kg
22.	Accacia gum	10 Kg
23.	Acid fuchsin ind.	250 ml
24.	Anthrone	50 gm
25.	Arabinose	10 gm
26.	Adipic acid	1Kg
27.	Aluminium hydroxide	1 Kg
28.	Ascorbic acid	1 Kg
29.	Arginine	100 gm
30.	Albumin(bovine)	500 gm
31.	Anthracene	250 gm
32.	Acetyl choline	25 gm
33.	Aspirin power	2 Kg
34.	Alanine	50 Gm
35.	Aluminium sulphate	1 gm
36.	Amyl alcohol	1 L
37.	Amn iron II sulphate	1Kg
38.	Asparagines	25 gm
39.	Almond bitter oil	2 L

Each Rate

40.	Adrenaline voil	25 ml
41.	Alizarine red	25 gm
42.	Amm.sulphate	1 kg
43.	Arachis oil	1 L
44.	Amm oxalate	1 kg
45.	Agarose	10 g
46.	Acrylamide	1 kg
47.	Acetonitril	2.5 L
48.	Aluminium oxide	1 Kg
49.	Adenosine tri phosphate	100 gm
50.	Calcium carbonate	1 kg
51.	Copper sulphate	2 kg
52.	Citric acid	1 kg
53.	Carbon tetra chloride	10 L
54.	Chloroform	10 L
55.	Cupric sulphate	1 Kg
56.	Cupric acetate	1 Kg
57.	Cinamic acid	1 kg
58.	Coumarin	1 kg
59.	Cupric oxide	1 kg
60.	Chloro acetic acid	1 kg
61.	Caffeine	1 Lbs
62.	Calcium lactate	2 Kg
63.	Crystal violet	100 gm
64.	Chloral hydrate	2 Kg
65.	Charcoal animal	1 Kg
66.	Camphor	2 Kg
67.	Calcium chloride	2 Kg
68.	Creatinine	25 gm
69.	Cetomacrogol	1 kg
70.	Coriander oil	1 L
71.	Cod liver oil	1 L
72.	Calamine	2 Kg
73.	Ceric amm sulphate	25 gm
74.	Chloramines	1 L
75.	Cyclo hexane	5 L
76.	Cystine	25 gm
77.	Clove oil	1 Lbs
78.	Carmine	1 Lbs
79.	Cedar Wood Oil	1 L
80.	Cinnamon oil	1 L
81.	Caster oil	5 L
82.	Cardamom oil	1 L
83.	Caraway oil	1 L
84.	Calcium hydroxide	2 Kg

Each

Rate

85.	Canada balsam	1 L
86.	Calcium acetate	1 Kg
87.	Cetyl alcohol	2 Kg
88.	Cobalt chloride	500 gm
89.	Cobalt nitrate	500 gm
90.	Congo red	50 gm
91.	Cresol red solution	50 gm
92.	Cellulose	1 kg
93.	Cadmium chloride	250 gm
94.	Chloro benzene	2.5 L
95.	Carbapol	1 Kg
96.	Calcium phosphate	1 kg
97.	Calcium sulphate	1 kg
98.	Calcium stearate	1 kg
99.	Carboxy methyl cellulose	2 kg
100.	Cellulose acetate phthalate	1 kg
101.	Carnauba black wax	1 kg
102.	Calcium oxide	1 kg
103.	Capillary tube	10 Packet
104.	Celite powder	1 kg
105.	Coconut oil	1 kg
106.	Carbal fuchine	500 ml
107.	Di pot. hydrogen phosphate	2 kg
108.	Di methyl aniline	1 L
109.	Di phenylamine	1 kg
110.	Di oxane	2.5 L
111.	Di methyl formamide	2.5 L
112.	Di sod phosphotungstate	250 gm
113.	Di sod tartarate	1 kg
114.	2-6-dichloro phenol indophenol	25 gm
115.	Dextrose powder	1 kg
116.	Di ethylamine	1 L
117.	Di sod di hydrogen phosphate	5 kg
118.	Dextrine	1 kg
119.	Dextrine blue	100 gm
120.	Di methyl sulphoxide	2 L
121.	Di chloro methane	5 l.
122.	Di phenyl carbazide	20 gm
123.	Diclofenac sodium	500 gm
124.	Di pot di hydrogen phosphate	2 kg
125.	Ethyl acetate	5 L
126.	Ethanol	20 L
127.	Erichrome black	25 gm
128.	Ethylene diamine tetra acetic acid	1 kg
129.	Ether solvent	5 L

Each Rate

130	Eosine(stain)	25 gm
131	Ethylene glycol	1 L
132	Ethylene diamine	1 L
133	Ethyl cellulose	1 kg
134	Eudragit-L-100	1 Kg
135	Emyluesifing wax	1 kg
136	Glucose	10 kg
137	Glactose	1 kg
138	Glycine	500 gm
139	Glutaric acid	500 gm
140	Gallic acid	500 gm
141	Glycerine	10 L
142	Gum Arabic	1 Kg
143	Gelatin	1 kg
144	Glutamic acid	500 gm
145	Gram's staining	500 gm
146	Giemsa stain	500 ml
147	Glutamine	500 ml
148	Glass wool	2 kg
149	Glass slide	50 packs
150	Glass cover slip	50 packs
151	Hydrogen per oxide	1 L
152	Hydro chloric acid	10 L
153	Hydroquinone	1 kg
154	Hydroxylamine hydro chloride	1 kg
155	Heavy kaoline	5 kg
156	Hydroxyl praline	25 gm
157	Histidine	25 gm
158	8-hydroxy quinoline	50 gm
159	Hydroxyl ethylene cellulose	1 kg
160	Hydroxy propyl methyl cellulose	500 gm
161	Hydroxyl ethyl cellulose	500 gm
162	4-hydroxy benzoic acid	100 gm
163	Iodine	1 kg
164	Iodoform	1 kg
165	Isatin	2 kg
166	Kiesulgahr	10 pack
167	Litmus paper blue	10 pack
168	Litmus paper red	25 gm
169	Litmus blue powder	25 gm
170	Lemon oil	1 L
171	Lactose	5 kg
172	Lead acetate	1 kg
173	Lenoline	1 kg
174	Leishman stain	500 ml

*Each**Rak*

175.	Light green	100 gm
176.	Light magnesium carbonate	5 kg
177.	light magnesium oxide	3 kg
178.	Light kaoline	5 kg
179.	Leucine	25 gm
180.	Methyl red	25 gm
181.	Methyl orange	25 gm
182.	Magnesium sulphate	1 kg
183.	Malic acid	1 kg
184.	Malonic acid	500 gm
185.	Maleic acid	1 kg
186.	Methanol	10 L
187.	Maltose	1 kg
188.	Malachite green	25 gm
189.	Mercuric acetate	250 gm
190.	Methyl blue	25 gm
191.	Methyl cellulose(20)	10 kg
192.	Methyl hydroxyl benzoate	1 kg
193.	Mercuric chloride	500 gm
194.	Magnesium chloride	1 kg
195.	Methyl salicylate	5 L
196.	Magnesium tri salicate	1 kg
197.	Methyl acetate	1 L
198.	Macconkey agar	500 gm
199.	Mannitol	500 gm
200.	Methionine	25 gm
201.	Menthol	500 gm
202.	Magnesium stearate powder	2 kg
203.	Mineral oil	3 L
204.	Micro crystalline cellulose	1 kg
205.	Methyl paraben	500 gm
206.	Magnesium carbonate	2 kg
207.	Mustard oil	1 L
208.	Magnesium oxide	500 gm
209.	N-butanol	5 L
210.	n-hexane	5 L
211.	Nitric acid	10L
212.	2-nitro phenol	25 gm
213.	4-nitro phenol	25 gm
214.	1-naphthol	1 kg
215.	2-naphthol	1 kg
216.	1-naphthyl amine	1 kg
217.	Ninhydrin	50 gm
218.	Nutmeg oil	1 L
219.	Nitro benzene	2.5 L

Each Rate-

220.	Nutrient broth	500 gm
221.	Nickel chloride	250 gm
222.	Naphthalene	500 gm
223.	Nutrient agar	500 gm
224.	Orange oil	1 L.
225.	Oleic oil	2 L
226.	Oxalic acid	2 kg
227.	Orcinol	25 gm
228.	Olive oil	2 L.
229.	Pot.di hydrogen phosphate	5 kg
230.	Pot.dichromate	1 kg
231.	Pot.permaganate	1 kg
232.	Pyridine	2 L.
233.	Phenol red	25 gm
234.	Phenolphthalein	500 gm
235.	Paraffin oil	20 L
236.	Pot. Iodide	1 kg
237.	Phenyl hydrazine hydro chloride	500 gm:
238.	Pot. hydrogen phosphate	1 kg
239.	Pot. Meta bi sulphate	250 gm
240.	Pthalic anhydride	500 gm
241.	Pyrocatechol	1 kg
242.	Phenol	1 kg
243.	Pot.Hydride	3 kg
244.	Pyrogallol	1 kg
245.	Phloroglucinol	100 gm
246.	Pot.chromate	1 kg
247.	Phenyl urea	25 gm
248.	Pot.Thiocyanate	1 kg
249.	Phthalimide	1 kg
250.	Pot.sod tartrate.	2 kg
251.	Phenacetine	100 gm
252.	Pot.hydrogen phthalate	500 gm
253.	Picric acid	500 gm
254.	Petroleum ether	2.5 L.
255.	Pot.chloride	3 kg
256.	Paraffin soft	5 kg
257.	Paraffin hard	5 kg
258.	Per chloric acid	1 L
259.	Phosphotungstic acid	250 gm
260.	Petroleum jelly	5 kg
261.	Propylene glycol	5 L
262.	Poly sorbate	500 mg
263.	Proline	25 gm
264.	O-phosphoric acid	2.5 L

Each Rate

265.	Pot.citrate	500 gm
266.	Petroleum ether	5 L
267.	Pot.bromide	500 gm
268.	Palmitic acid	1 kg
269.	2-propanol	10 L
270.	Poly ethylene glycol(400)	1 L
271.	Poly ethylene glycol(4000)	1 kg
272.	Poly ethylene glycol(8000)	1 kg
273.	Poly ethylene glycol(200)	1 L
274.	Pot.carbonate	2 kg
275.	Pot.ferrocyanide	500 gm
276.	Pot.nitrate	500 gm
277.	Pot.sulphate	500 gm
278.	Poly vinyl alcohol	1 kg
279.	Poly ethylene	1 kg
280.	Poly vinyl chloride	1 kg
281.	Poly vinyl pyrrolidone	1 kg
282.	p.v.p crosslinked	1 kg
283.	Povidon	1 kg
284.	Pot.floride	500 gm
285.	Peppermint	2 L
286.	Paracetamol	1 kg
287.	Propyl paraben	500 gm
288.	Resorcinol	25 gm
289.	Rose oil	1 L
290.	Raspberry.	1L
291.	Sod. Carbonate	5 kg
292.	Sod.hydroxide	5 kg
293.	Sod.bi carbonate	3 kg
294.	Salicylic acid	2 kg
295.	Starch	2 kg
296.	Sod acetate	1 kg
297.	Sucrose	1 kg
298.	Sod.thio sulphate	1 kg
299.	Sulphanilic acid	500 gm
300.	Sod nitropruside	250 gm
301.	Succinic acid	1 kg
302.	Succinamide	500 gm
303.	Sod.hydrogen sulphate	500 gm
304.	Silica gel	2 kg
305.	Salicyladehyde	500 gm
306.	Sod. Sulphate	2 kg
307.	Sod.benzoate	500 gm
308.	Sod.metal	1 kg
309.	Sod. Nitrite	500 gm



*Each Use*

310.	Silver nitrate	25 gm
311.	Sod. Nitrate	500 gm
312.	Saffranine	25 gm
313.	Borax	1 kg
314.	Sulphuric acid	10 L
315.	Sod. citrate.	500 gm
316.	Sublimed sulphur	500 gm
317.	Sod. chloride	5 kg
318.	Saccharine	1 kg
319.	Sorbitol	500 ml
320.	Sod. Molybdate	500 gm
321.	Silica gel moisture	1 kg
322.	Sod. acid phosphate	500 gm
323.	Sod. Sulphite	500 gm
324.	Stearic acid	2 kg
325.	Sod. di hydrogen phosphate	1 kg
326.	Sod. lauryl sulphate	5 kg
327.	Sod. salicylate	3 kg
328.	Sun flower oil	1 L
329.	Sod bromide	500 gm
330.	Sulphanilamide	250 gm
331.	Sod tungstate	250 gm
332.	Sod carboxy methyl cellulose	2 kg
333.	Sod floride	500 gm
334.	Tartaric acid	4 kg
335.	Thio urea	2 kg
336.	Toluene	5 L
337.	Thymol	100 gm
338.	Turpentine oil	5 L
339.	Tannic acid	1 kg
340.	Tincture of benzoin	500 ml
341.	Tragacanth	1 kg
342.	Triethylamine	1 L
343.	Tri chloro acetic acid	250 gm
344.	Tryptophan	25 gm
345.	Tyrosine	25 gm
346.	Tri. Sod. Citrate	500 gm
347.	Tincture cardamom	500 ml
348.	Titanium di oxide	500 gm
349.	Talcum	5 kg
350.	Thymol blue	25 gm
351.	Tween-80	1 L
352.	Triethanolamine	1 L
353.	Tin granular	200 gm
354.	Universal ph paper	10 packs

Each Rate

355.	Urea	1 kg
356.	Vaniline	25 gm
357.	Valine	25 gm
358.	Whatman filter paper	5 packs
359.	Wool fat	2 kg
360.	Wool alcohol	2 kg
361.	Xylose	25 gm
362.	Xylene (xylol)	2.5 L
363.	Zinc sulphate	1 kg
364.	Zinc powder	1 kg
365.	Zinc chloride	500 gm
366.	Zinc oxide	500 gm
367.	Zn staining	500 ml
368.	Zein	100 gm
369.	Zinc metal (granulated)	500 gm
370.	Boric acid	1 kg
371.	Benzene	5 L
372.	Bromine	1 L
373.	Benzil	500 gm
374.	Benzamide	500 gm
375.	Biphenyl	1 kg
376.	Benzaldehyde	500 gm
377.	Benzoyl chloride	1 L
378.	Beeswax	1 kg
379.	Benzyl chloride	1 L

Name of work: **Repair & renovation of Stone Building Ground floor (remaining works) and Partition work of BBSUL, Karachi**

**SCHEDULE - B**

**PART -A SCHEDULE ITEMS:**

S.No:	Description	Quantity	Rate	Unit	Amount
1.	S&L in Position Aluminum Channels Framing for hinged Doors or Alcop made with 5mm thick tinted glass glazing (Belgium) and Alpha (Japan) Locks I/c Handles, Stoppers etc. (Deluxe Model "Bronze") (p.108,s.83.b)	634 Sft	1507.66	P.Sft	Rs.955856/=
2.	First class deodar wood wrought, joinery in doors and windows etc, fixed in position including chowkats hold hinges, iron towers bolts,etc (2" thick) (p.58, s.7.a)	230 Sft	1336.59	P.sft	Rs.307415/=
3.	Distempering (Three Coats) (p. 54, s.24.c)	8780 Sft	829.95	%sft	Rs.72869/=
<b>Total Part A Rs.</b>					<b>13,36,140/=</b>

**PART B - SANITARY SCHEDULE ITEMS:**


S.No:	Description	Quantity	Rate	Unit	Amount
01	W.C pan of not less than 23" clear opening between flushing rims and 3 gallons flushing tank with 4" etc (p.01, s.1.b)	06 No's	5044.60	Eac h	Rs.30267/=
02	P&F 22"x16" lavatory basin in white galazed earthen were complete with & I/c the cost of W.I etc. (p.4, s.13)	06 No's	6237.00	Eac h	Rs.37422/=
03	S&F bath room accessories set (7 pices I/c etc). (p.19, s.22)	06 No's	8122.40	Eac h	Rs.48734/=
04	Shifting to the site and fixing of 36" dia Ring Slab in perfect position on damaged manholes etc. (p.31, s.4)	06 No's	563.09	Eac h	Rs.3378/=
05	S&F fiber glass tank of approved quality and design and wall thickness etc, 250 gallons wall thickness 3.5mm (p.21, s.3.a)	02 No's	21989.61	Eac h	Rs.43979/=
<b>Total Part B Rs.</b>					<b>1,63,780/=</b>
<b>Total Part A+B Rs.</b>					<b>14,99,920/=</b>


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3. 100% well graded trushed bajri shall be used in Item of RCC 1:2:4
4. Water shall be arranged by the contractor at site work without any extra payment.
5. C.C. Block shall be machine made.
6. All RCC/CC cast in situ shall be mechanically viberated.
7. Contractor has to bring samples of the material and handed over Engineer Incharge free f cost.

8. All buildings debris & surplus stuff not req. for use and constriction shall be removed from the site the suitable disposal off by the contractors for which no extra cartages shall be paid.
9. The work will be carried out as per PWD Specification.

**Contractor**

  
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**EXECUTIVE ENGINEER**  
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**\* Name of work: Repair and Maintenance bathroom & washroom old drainage system of BBSUL**

## SCHEDULE – B

### SCHEDULE ITEMS:

<b>S.No:</b>	<b>Description</b>	<b>Quantity</b>	<b>Rate</b>	<b>Unit</b>	<b>Amount</b>
01	Dismantling cement with brick aggregate. (p.10,s19.d)	24000 cft	907.05	%Cft	Rs.217692/=
02	Scraping ordinary distemper, iol bound distemper or paint on walls. (p.13, s. 54. B)	22560 cft	226.88	C.sft	Rs.51184/=
03	Dismantling brick work in lime or cement mortar (p.10, s.13)	29330 cft	1285.63	%Cft	Rs.377075/=
04	P&L 1:4:8 Cement Solid block masonry above 6" thickness etc (p.19,s 21)	2690 cft	13741.87	%C.ft	Rs.369656/=
05	2" Stucco cement plaster 1:2:4 (cement sand and shingle) (p. 52, s.8)	10990 Sft	4178.02	%sft	Rs.459164/=
06	Laying RCC pipe & collars of class A and fixing in trench i/c cutting fitting and jointing with maxphalt composition and cement mortar (1:1) i/c testing with water to a head of 4.5 meter or 15ft (s.i 1 p-36)				
a.	3" dia	200 Rft	47.25	P.Rft	Rs.9450/=
b.	4" dia	150 Rft	63.00	P.Rft	Rs.9450/=
c.	6" dia	200 Rft	94.49	P.Rft	Rs.18890/=
d.	9" dia	100 Rft	141.74	P.Rft	Rs.14174/=
7.	Constructing manhole or inspection chamber for required dia of circular sewer and 12' depth with wall of B.B in cement motor 1:3 cement plastered 1:3, ½" thick inside of wall and 1" (25mm) thick over benching and channel i/c fixing C.I manhole cover with frame of clear opening 2"x2" (457x457mm) of 4.5cwt .....(S.I 3.Page No.48)				
a	4" to 9" dia 4'-6"x3'x12'	02No's	55411	Each	Rs.110822/=
b.	15" dia 4'-6"x3'x6x12'	05 No's	59370	Each	Rs.296850/=
c.	18" to 21" dia 4'-6"x4'x12'	01 No	63421	Each	Rs.63421/=
<b>Total Rs.</b>					<b>19,97,828/=</b>


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3. 100% well graded crushed bajri shall be used in Item of RCC 1:2:4
4. Water shall be arranged by the contractor at site work without any extra payment.
5. C.C. Flock shall be machine made.
6. All RCC/CC cast in situ shall be mechanically viberated.
7. Contractor has to bring samples of the material and handed over Engineer Incharge free f cost.
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Contractor



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University, Lyari, Karachi.



**EXECUTIVE ENGINEER**  
Benazir Bhutto Shaheed  
University, Lyari, Karachi.

**Name of work: Repair and Maintenance of pavers of faculty Building back side, Stone Building back Side, auditorium back side & laboratory Building back side Fixing of new pavers a of BBSUL, Karachi.**

**SCHEDULE - B**


**SCHEDULE ITEMS:**


<b>S.No:</b>	<b>Description</b>	<b>Quantity</b>	<b>Rate</b>	<b>Unit</b>	<b>Amount</b>
01	Providing & fixing cement Paving blocks flooring size 197x97x60(MM) of city /quddra/cobble shape with natural color, having strength b/w 5000psi to 8500psi i/c filling the joint with hill sand and lying in specified manner / pattern and design etc complete.	4527 Sft	199.77	P.sft	Rs.904358/=
02.	Repair and Maintenance of pavers i-e khaka, roller, & other material charges used material charges etc labour charges etc complete directed by EI	22960 Sft	16.94	P.sft	Rs.595582/=
<b>Total Rs.</b>					<b>14,99,940/=</b>

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**EXECUTIVE ENGINEER**  
 Benazir Bhutto Shaheed  
 University, Lyari, Karachi.

Name of work: Repair & renovation of Motor Cycle Shades outside the campus (remaining works) of BBSUL, Karachi

**SCHEDULE – B**


**SCHEDULE ITEMS**

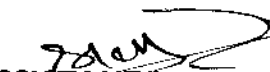
S.No:	Description	Quantity	Rate	Unit	Amount
1	P&L 1:4:8 Cement Solid block masonry above 6" thickness etc	1260 Cft	13741.87	%cft	Rs.1731147/=
2	2" Stucco cement plaster 1:2:4 (cement sand and shingle)	1260 sft	4178.02	% Sft	Rs.52643/=
3	Cement plaster 1:2 upto 12' height (1/2" thick)	1260 Sft	2496.72	% Sft	Rs.31458/=
4	P/F steel T.R and Grader and brice works and steel frame roof toping, material cost labour cost cartage etc complte as directed by EI	2270 Sft	107 Sft	P.sft	Rs.242890/=
<b>Total Rs.</b>					<b>5,00,138/=</b>


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3. 100% well graded trushed bajri shall be used in Item of RCC 1:2:4
4. Water shall be arranged by the contractor at site work without any extra payment.
5. C.C. Block shall be machine made.
6. All RCC/CC cast in situ shall be mechanically viberated.
7. Contractor has to bring samples of the material and handed over Engineer Incharge free f cost.
8. All buildings debris & surplus stuff not req. for use and constriction shall be removed from the site the suitable disposal off by the contractors for which no extra cartages shall be paid.
9. The work will be carried out as per PWD Specification.

**Contractor**

  
**SUB-ENGINEER**  
Benazir Bhutto Shaheed  
University, Lyari, Karachi.

  
**ASSISTANT ENGINEER**  
Benazir Bhutto Shaheed  
University, Lyari, Karachi.

  
**EXECUTIVE ENGINEER**  
Benazir Bhutto Shaheed  
University, Lyari, Karachi.



Name of work: Providing & fixing Steel grill of outside garden area of BBSUL, Karachi.


**SCHEDULE – B**


<b>S.No:</b>	<b>Description</b>	<b>Quantity</b>	<b>Rate</b>	<b>Unit</b>	<b>Amount</b>
01	Providing & fixing steel disco pipe, steel ,jail, steel hanger & steel claim, and steel clips etc labour charge ,transport charges, cartage etc completed as directed by EI	960 Sft		P.Sft	
<b>Total Rs.</b>					


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4. Water shall be arranged by the contractor at site work without any extra payment.
5. C.C. Block shall be machine made.
6. All RCC/CC cast in situ shall be mechanically viberated.
7. Contractor has to bring samples of the material and handed over Engineer Incharge free f cost.
8. All buildings debris & surplus stuff not req. for use and constriction shall be removed from the site the suitable disposal off by the contractors for which no extra cartages shall be paid.
9. The work will be carried out as per PWD Specification.

**Contractor**

  
**SUB-ENGINEER**  
Benazir Bhutto Shaheed  
University, Lyari, Karachi.

  
**ASSISTANT ENGINEER**  
Benazir Bhutto Shaheed  
University, Lyari, Karachi.

  
**EXECUTIVE ENGINEER**  
Benazir Bhutto Shaheed  
University, Lyari, Karachi.

**Name of work: Repair & renovation of bathroom back side of auditorium of BBSUL, Karachi.**

**SCHEDULE - B**

**SCHEDULE ITEMS:**

<b>S.No:</b>	<b>Description</b>	<b>Quantity</b>	<b>Rate</b>	<b>Unit</b>	<b>Amount</b>
01	P&L 1:4:8 Cement Solid block masonry above 6" thickness etc (p.19,s 21)	560 Cft	13741.87	%C.ft	Rs.76954/=
02	2" Stucco cement plaster 1:2:4 (cement sand and shingle) (p. 52, s.8)	1094 Sft	4178.02	%sft	Rs.45707/=
03	Cement plaster 1:2 upto 12' height (1/2" thick)(p. 52, s.9.b)	1094 Sft	2496.72	%sft	Rs.27314/=
04	Dismantling cement with brick aggregate. (p.10,s19.d)	2010 Cft	907.05	% cft	Rs.18231/=
05	Distempering (Three Coats) (p. 54, s.24.c)	2010 Sft	829.95	%sft	Rs.16681/=
	First class deodar wood wrought, joinery in doors and windows etc, fixed in position including chowkats hold hinges, iron towers bolts,etc (2" thick) (p.58, s.7.a)	51Sft	1336.59	P.sft	Rs.68166/=
<b>Total Rs.</b>					<b>253053/=</b>

**PART B - SANITARY SCHEDULE ITEMS:**

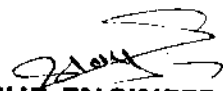
<b>S.No:</b>	<b>Description</b>	<b>Quantity</b>	<b>Rate</b>	<b>Unit</b>	<b>Amount</b>
01	W.C pan of not less than 23" clear opening between flushing rims and 3 gallons flushing tank with 4" etc (p.01, s.1.b)	03 No's	5044.60	Each	Rs.15133/=
02	P&F 22"x16" lavatory basin in white galazed earthen were complete with & I/c the cost of W.I etc. (p.4, s.13)	03 No's	6237.00	Each	Rs.18711/=
03	S&F bath room accessories set (7 pices I/c etc). (p.19, s.22)	03 No's	8122.40	Each	Rs.24367/=
04	Shifting to the site and fixing of 36" dia Ring Slab in perfect position on damaged manholes etc. (p.31, s.4)	02 No's	563.09	Each	Rs.1126/=
05	S&F fiber glass tank of approved quality and design and wall thickness etc, 250 gallons wall thickness 3.5mm (p.21, s.3.a)	01 No	21989.61	Each	Rs.21989/=
06	Providing G.I Pipes, specials and clamps etc including F&C complete with I/c the cost of breaking through walls etc. ( internal fitting) (p.12, s.1)				
	1" dia G.I Pipe	100 rft	128.55	P.Rft	Rs.12855/=
	1/2" dia G.I Pipe	156 rft	73.21	P.Rft	Rs.11420/=
	3/4" dia G.I Pipe	175 rft	95.79	P.Rft	Rs.16763/=


	1-1/2" dia G.I Pipe	180 rft	188.97	P.Rft	Rs.34014/=
07	Providing G.I Pipes, specials etc including F&C complete with I/c the cost of cutting trench upto 2-1/2" feet deep refilling etc. ( external fitting) (p.14, s.1)	154 rft	64.88	P.Rft	Rs.9991/=
	1/2" dia G.I Pipe				
	1" dia G.I Pipe				
	1-1/2" dia G.I Pipe				
	2" dia G.I Pipe		225.73	P.Rft	Rs.40631/=
<b>Total Part - B Rs.</b>					<b>245914/=</b>
<b>Total Part A+B Rs.</b>					<b>498967/=</b>


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3. 100% well graded crushed bajri shall be used in Item of RCC 1:2:4
4. Water shall be arranged by the contractor at site work without any extra payment.
5. C.C. Block shall be machine made.
6. All RCC/CC cast in situ shall be mechanically vibrated.
7. Contractor has to bring samples of the material and handed over Engineer Incharge free of cost.
8. All buildings debris & surplus stuff not req. for use and construction shall be removed from the site the suitable disposal off by the contractors for which no extra cartages shall be paid.
9. The work will be carried out as per PWD Specification.

### Contractor

  
**SUB-ENGINEER**  
 Benazir Bhutto Shaheed  
 University, Lyari, Karachi.

  
**ASSISTANT ENGINEER**  
 Benazir Bhutto Shaheed  
 University, Lyari, Karachi.

  
**EXECUTIVE ENGINEER**  
 Benazir Bhutto Shaheed  
 University, Lyari, Karachi.

**Name of work: Supply of computers core i5, UPS, Air-condition printers, dispenser**

**SCHEDULE – B**

<b>S.No:</b>	<b>Description</b>	<b>Quantity</b>	<b>Rate</b>	<b>Unit</b>	<b>Amount</b>
01	Supply of Air Condition 1.5ton Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	10 No's		Each	
02	Supply of laptop core i5 Approval by Higher Authority etc. Complete as directed by Engineer In-Charge	02 NO's		Each	
03	Supply of Core i5 Computer full Set Key Board, Mouse, LED 18.5" Hard Disk 500GB, Ram 4GB,) Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	15 No's		Each	
04	Supply of Color LaserJet Printer model no. cp1025 (or equivalent)approval by higher authority etc. complete	05 No's		Each	
05	Supply of Printer Laser Jet (black & white) model no. M1212nf(MFP) (or equivalent)approval by higher authority etc. complete, as directed by Engineer In-Charge	10 No's		Each	
6.	Supply of water dispenser Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	10 No's		Each	
<b>Total Rs.</b>					

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**Contractor**

  
**SUB-ENGINEER**

Benazir Bhutto Shaheed  
University, Lyari, Karachi.

  
**ASSISTANT ENGINEER**

Benazir Bhutto Shaheed  
University, Lyari, Karachi.

  
**EXECUTIVE ENGINEER**

Benazir Bhutto Shaheed  
University, Lyari, Karachi.

**Name of work: Supply of electrical Spares**

**SCHEDULE – B**

<b>S.No:</b>	<b>Description</b>	<b>Quantity</b>	<b>Rate</b>	<b>Unit</b>	<b>Amount</b>
1.	Supply of Wire 6 mm <sup>2</sup> 04 core pvc/pvc Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	200mtr		Each	
2.	Supply of Wire 7/0.44 (90 meter coil) Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	04 Coils		Each	
3.	Supply of Wire 7/0.36 (90 meter coil) Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	04 Coils		Each	
4.	Supply of Wire 7/0.29 (90 meter coil) Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	06 Coils		Each	
5.	Supply of Wire 3/0.29 (90 meter coil) Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	24 Coils		Each	
6.	Supply of Flexible wire 2 Core Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	10 Coils		Each	
7.	Supply of Single pair drop wire for Telephone Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	1000 mtr		Each	
8.	Supply of 02 pair wire for Telephone/Intercom Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	08 Coil		Each	
9.	Supply of Cat 6 Ethernet cable for internet Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	05Coil		Each	
10.	Supply of Extension wire boards upto 30 meter Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	04		Each	
11.	Supply of Extension wire boards upto 08 meter Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	25		Each	
12.	Supply of Switches/sockets Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	250 Nos		Each	
13.	Supply of Light Plug (Universal Sockets) Approval by Higher Authority etc. Complete as directed by Engineer In-Charge. Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	100 Nos		Each	
14.	Supply of Tube Lights complete fitting (Double) Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	100 No's		Each	


15.	Supply of Tube Light Rod Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	350 Nos		Each	
16.	Supply of Tube light chokes Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	150 Nos		Each	
17.	Supply of Tube light starter Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	150 No's		Each	
18.	Energy Severs Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	400 Nos		Each	
19.	Supply of Lamp Holders Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	60 Nos		Each	
20.	Supply of Fan Dimmer Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	100 Nos		Each	
21.	Supply of Capacitors 2.5uF (for Fans) Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	200 No's		Each	
22.	Supply of capacitors 50uF (for ACs) Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	20 No's		Each	
23.	Supply of Intercom set Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	25 No's		Each	
24.	Supply of Intercom Rozzet Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	60 No's		Each	
25.	Supply of Street Light Choke 400w Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	40 No's		Each	
26.	Supply of Street Light lamps 250w Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	40 No's		Each	
27.	Supply of Street Light igniter Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	25 No's		Each	
28.	Supply of Insulation Tape Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	30 No's		Each	
29.	Supply of Screws, Nails, clips etc. Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	25 Packets		Each	
				Total	

### **Terms and conditions**

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3. 100% well graded crushed bajri shall be used in Item of RCC 1:2:4
4. Water shall be arranged by the contractor at site work without any extra payment.
5. C.C. Block shall be machine made.
6. All RCC/CC cast in situ shall be mechanically vibrated.
7. Contractor has to bring samples of the material and handed over Engineer Incharge free of cost.
8. All buildings debris & surplus stuff not req. for use and construction shall be removed from the site the suitable disposal off by the contractors for which no extra cartages shall be paid.
9. The work will be carried out as per PWD Specification.

**Contractor**

  
**SUB-ENGINEER**  
Benazir Bhutto Shaheed  
University, Lyari, Karachi.

  
**ASSISTANT ENGINEER**  
Benazir Bhutto Shaheed  
University, Lyari, Karachi.

  
**EXECUTIVE ENGINEER**  
Benazir Bhutto Shaheed  
University, Lyari, Karachi.

**Name of work: Supply of computers Spares****SCHEDULE - B**

<b>S.No:</b>	<b>Description</b>	<b>Quantity</b>	<b>Rate</b>	<b>Unit</b>	<b>Amount</b>
1.	Supply of UPS 2KW for computers Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	25		Each	
2.	Supply of UPS 650W for computers Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	30		Each	
3.	Supply of RAM 2GB DDR III Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	50		Each	
4.	Supply of HARD DISK (HDD 180 GB) Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	40		Each	
5.	Supply of Power Supply Pack of PC Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	25		Each	
6.	Supply of Key Boards Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	100		Each	
7.	Supply of Mouse Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	100		Each	
8.	Supply of VGA cables Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	60		Each	
9.	Supply of Power Cord Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	50		Each	
10.	Supply of 08 Port Networking Switch 150/300mbps Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	08		Each	
11.	Supply of RJ 45 face plates Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	40		Each	
12.	Supply of RJ 45 Connectors Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	500		Each	
13.	Supply of UPS 2KW for computers Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	25		Each	
14.	Supply of UPS 650W for computers Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	30		Each	





15.	Supply of RAM 2GB DDR III Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	50		Each	
				<b>Total Rs.</b>	

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4. Water shall be arranged by the contractor at site work without any extra payment.
5. C.C. Block shall be machine made.
6. All FCC/CC cast in situ shall be mechanically viberated.
7. Contractor has to bring samples of the material and handed over Engineer Incharge free f cost.
8. All buildings debris & surplus stuff not req. for use and constriction shall be removed from the site the suitable disposal off by the contractors for which no extra cartages shall be paid.
9. The work will be carried out as per PWD Specification.

**Contractor**

  
**SUB-ENGINEER**  
 Benazir Bhutto Shaheed  
 University, Lyari, Karachi.

  
**ASSISTANT ENGINEER**  
 Benazir Bhutto Shaheed  
 University, Lyari, Karachi.

  
**EXECUTIVE ENGINEER**  
 Benazir Bhutto Shaheed  
 University, Lyari, Karachi.

**Name of work: Supply of Electrical Appliances**


**SCHEDULE – B**


<b>S.No:</b>	<b>Description</b>	<b>Quantity</b>	<b>Rate</b>	<b>Unit</b>	<b>Amount</b>
01	Supply of Ceiling fan Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	30		Each	
02	Supply Bracket fan Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	50		Each	
03	Supply Pedestal fan Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	20		Each	
	Supply Exhaust fans Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	14		Each	
	Supply Water coolers Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	04		Each	
<b>Total Rs.</b>					


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**Contractor**

  
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Benazir Bhutto Shaheed  
University, Lyari, Karachi.

  
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Benazir Bhutto Shaheed  
University, Lyari, Karachi.

  
**EXECUTIVE ENGINEER**  
Benazir Bhutto Shaheed  
University, Lyari, Karachi.

Name of work: Masonry partition for class rooms & halls of BBSUL, Karachi.

## SCHEDULE – B


### SCHEDULE ITEMS:


S.No:	Description	Quantity	Rate	Unit	Amount
1.	P&L 1:4 8 Cement Solid block masonry above 6" thickness etc (p.19,s 21)	5310 Cft	13741.87	%C.ft	729693
2.	Cement plaster 1:2 upto 12' height (1/2" thick)(p. 52, s.9.b)	4370 Sft	2496.72	%sft	109106
3.	Dismantling cement with brick aggregate. (p.10,s19.d)	8310 cft	907.05	%Cft	75375
4.	Distemping (Three Coats) (p. 54, s.24.c)	4370 Sft	829.95	%sft	36268
5.	First class deodar wood wrought, joinery in doors and windows etc, fixed in position including chowkats hold hinges, iron towers bolts,etc (2" thick) (p.58, s.7.a)	45. Sft	1336.59	P.sft	60146
<b>Total Rs.</b>					<b>10,105,88/=</b>


### Terms and conditions

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3. 100% well graded trused bajri shall be used in Item of RCC 1:2:4
4. Water shall be arranged by the contractor at site work without any extra payment.
5. C.C. Block shall be machine made.
6. All RCC/CC cast in situ shall be mechanically viberated.
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Benazir Bhutto Shaheed  
University, Lyari, Karachi.

  
**ASSISTANT ENGINEER**  
Benazir Bhutto Shaheed  
University, Lyari, Karachi.

  
**EXECUTIVE ENGINEER**  
Benazir Bhutto Shaheed  
University, Lyari, Karachi.

Name of work: **Boundary wall plaster and barbed wire of roundabout Campus**

## SCHEDULE - B


### SCHEDULE ITEMS:

<b>S.No:</b>	<b>Description</b>	<b>Quantity</b>	<b>Rate</b>	<b>Unit</b>	<b>Amount</b>
01	2" Stucco cement plaster 1:2:4 (cement sand and shingle) (p. 52, s.8)	9500 Sft	4178.02	%sft	Rs.396911/=
02	Cement plaster 1:2 upto 12' height (1/2" thick)(p. 52, s.9.b)	4960 Sft	2496.72	%sft	Rs.1122525/=
03	Providing & fixing angle iron vertical plsts for barbed wire fencing of size 2"x2" 1/4" embedded in RCC/ masonry pillars i/c making cutting/ holders @ 12" i/c fixing in pillars by chiseling and fitting the with cement sand mortar saprining & finishing the surface.	2843.5 Rft	169.18	P.Rft	Rs.480551/=
<b>Total Rs.</b>					<b>19,99,987/=</b>

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Benazir Bhutto Shaheed  
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**ASSISTANT ENGINEER**  
Benazir Bhutto Shaheed  
University, Lyari, Karachi.

  
**EXECUTIVE ENGINEER**  
Benazir Bhutto Shaheed  
University, Lyari, Karachi.

**Name of work: Purchase of allied equipment for Officers & staff, faculty of pharmacy**

**SCHEDULE - B**


**NON-SCHEDULE ITEMS:**


<b>S.No:</b>	<b>Description</b>	<b>Quantity</b>	<b>Rate</b>	<b>Unit</b>	<b>Amount</b>
1.	Supply of laptop core i5 Approval by Higher Authority etc. Complete as directed by Engineer In-Charge	03 No's		Each	
2.	Supply of Core i5 Computer full Set Key Board, Mouse, LED 18.5" Hard Disk 500GB, Ram 4GB,) Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	14 No's		Each	
3.	Supply of Color LaserJet Printer model no. cp1025 (or equivalent)approval by higher authority etc. complete	05 No's		Each	
4.	Supply of Printer Laser Jet (black & white) model no. P1102 (or equivalent)approval by higher authority etc. complete, as directed by Engineer In-Charge	10 No's		Each	
5.	Providing & fixing Air-condition 1.5 ton approved by higher authority as directed by IE.	10 No's		Each	
6.	Providing refrigerator medium Size approved by higher authority as directed by IE.	02 No's		Each	
7.	Supply of water dispenser Approval by Higher Authority etc. Complete as directed by Engineer In-Charge.	10 No's		Each	
<b>Total Rs.</b>					


**Terms and conditions**

1. Arbitration clause stands deleted from the agreement.
2. Any typographical errors in the schedule "B" are subject to correction with the reference to the schedule of rates General items & Water Supply and Sanitary items 2012 in force from 12<sup>th</sup>-07-2012 as approved by the standing rates committee Sindh, Karachi.
3. 100% well graded crushed bajri shall be used in Item of RCC 1:2:4
4. Water shall be arranged by the contractor at site work without any extra payment.
5. C.C. Block shall be machine made.
6. All RCC/CC cast in situ shall be mechanically vibrated.
7. Contractor has to bring samples of the material and handed over Engineer Incharge free of cost.
8. All buildings debris & surplus stuff not req. for use and construction shall be removed from the site the suitable disposal off by the contractors for which no extra cartages shall be paid.
9. The work will be carried out as per PWD Specification.

**Contractor**

  
**SUB-ENGINEER**  
 Benazir Bhutto Shaheed  
 University, Lyari, Karachi.

  
**ASSISTANT ENGINEER**  
 Benazir Bhutto Shaheed  
 University, Lyari, Karachi.

  
**EXECUTIVE ENGINEER**  
 Benazir Bhutto Shaheed  
 University, Lyari, Karachi.

Name of work: Purchase of glassware / laboratories equipment's for under Graduate laboratories, faculty of pharmacy


**SCHEDULE - B**


S.No:	Description	
01	Supplying of glassware / Laboratories Equipment for undergraduate Laboratories, for faculty of Pharmacy BBSUL.	List attach herewith


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**SUB-ENGINEER**  
Benazir Bhutto Shaheed  
University, Lyari, Karachi.

  
**ASSISTANT ENGINEER**  
Benazir Bhutto Shaheed  
University, Lyari, Karachi.

  
**EXECUTIVE ENGINEER**  
Benazir Bhutto Shaheed  
University, Lyari, Karachi.

## A- Graduate Laboratory

**1-Bio-chemistry / Organic / Inorganic Laboratory (approx for 50 students)**

S. No.	Name of Instruments	Quantity
1	Water bath single hole	10
2	Triple beam balance	5
3	Microscope	15
4	Water bath	10
5	Balance digital balance	2
6	Melting Point Apparatus	10
7	Spectrophotometer	2

Rate, Each

**2- Pharmaceutics / Dispensing Laboratory (approx for 50 students)**

1	Triple beam balance	5
2	Water bath	10
3	Cold & Hot Incubator	1

**3- Pharmacology/ Physiology Laboratory (approx for 50 students)**

1	Haemometer set	8
2	Tissue organ bath	15
3	Kymograph	15
4	Triple beam balance	5
5	Digital balance	2
6	Microscope	15
7	Oven	1
8	Burner	15
9	Barometer	5
10	E.S.R stand	15
11	Spiro meter plastic body	5
12	Western Green Tubes	15
13	Glass Test Tubes	100
14	Test Tub stands	20
15	Neubar Chamber 0.0025mm <sup>2</sup>	10
16	RBC Pipette	10
17	WBC Pipette	15
18	Snellen's Chart(Eye)	10
19	Meter rod	10
20	Sphygmomanometer	15
21	Stethoscope	15
22	Sahli's haemometer	10
23	Wet Spiro meter	5
24	Perimeter With Object	10
25	ECG machine	1

18	Rotary Press	1
19	Wet Granulator	1
20	Dry Granulator Disintegrator	1
21	Automatic Ampoule filling machine	1
22	Tray dryer	1
23	Digital weight balance	1
24	Furnace	1
25	Ball Mill	1
26	Mechanical Stirrer	1
27	Filter Press	1
28	Water Deionizer Plant	1
29	Disintegration single vessel	1
30	Tablet coating conventional pans	2
31	Canvas line pan	1
32	Single blade mixer	1
33	Distillation apparatus (Gas)	1
34	Centrifuge	1
35	Vernier Caliper	1
36	Screw capping & Sealing machine	1

**7-Instrument Room. (approx for 50 students)**

1	UV Spectrophotometer Double Beam	1
2	IR Spectrophotometer	1
3	Flame photometer	1
4	Digital Dissolution Apparatus & Auto sampler	1
5	Polarimeter	1
6	Digital Incubator	1
7	Digital Moisture analyzer	1
8	Digital hardness tester	1
9	Kenwood Planetary Mixer	1
10	UV Spectrophotometer Single Beam	1
11	Magnetic Stirrer+ Hot Plate	1
12	Digital Weight balance	1
13	Magnetic stirrer	1
14	Vortex Mixer	1
15	pH Meter	1
16	Centrifuge Machine	1
17	Stability chamber	1
18	Oven	1
19	Deep Freezer	1
20	Refrigerator	1
21	Incubator	1
22	Water Distillation Unit	1
23	Water deionizer	1



26	Wattmann Filter paper	10 pack
27	Antiserum A B & D	5 Complete sets
28	Histology Slides	All Basic
29	Weight Machine	2

**4- Microbiology Laboratory (approx for 50 students)**

1	Autoclave	2
2	Cool incubator	1
3	Hot incubator	1
4	Laminar air flow Horizontal	1
5	Laminar air flow Vertical	1
6	Oven	2
7	Microscopes Compound	15
8	Reciprocating Shaker	1
8	Deep freezer	1

**5-Pharmacognosy Laboratory (approx for 50 students)**

1	Centrifuge machine	2
2	Microscope	15
3	Microtome	1
4	Oven	2
5	Water bath 4 holes	6
6	Rota Evaporator + Chiller	3+1
7	Aspirator	1

**6- Industrial Laboratory (approx for 50 students)**

1	Powder Filling Machine	1
2	Single Punch Tablet Machine	1
3	Coating Pressure Tank	1
4	Sigma Blade Mixer	1
5	Friability Test Apparatus	1
6	Dissolution Apparatus	1
7	Dissolution Apparatus (6) Basket	1
8	Disintegration Apparatus Single Vessel	1
9	Disintegration Double vessel	1
10	Syrup Filling Machine	1
11	Colloidal Mill	1
12	Capsule Filling Machine	1
13	Silverson Mixer	1
14	Ampoule gasses	1
15	Oven	1
16	Ointment Filling Machine	1
17	Mechanical Stirrer	1

10- Library: 35\* 60 feet (approx for 50 students)

Ratio

Subject-wise books requirement:			Copies
SUBJECT		SUBJECT	
Analytical Chemistry	10 each	Anatomy	10 each
Bioc hemistry	10 each	Bio Pharmaceutics	10 each
Clinical Pharmacy	10 each	Compendia's	1 each
Dict.onary	1 each	Dispensing	10 each
Drug Law	10 each	Forensic	10 each
Hospital Pharmacy	10 each	Industrial pharmacy	10 each
Pharmaceutical Chemistry	10 each	Math	5 each
Management	10 each	Medicinal chemistry	10 each
Microbiology	10 each	Organic chemistry	10 each
Pharmaceutics	10 each	Pharmacognosy	10 each
Pharmacology	10 each	Physical Pharmacy	10 each
Physiology	10 each	Quality Control	10 each
Statistics	5 each		
Professional Magazines & Writings:		Quantity Sufficient	
Research Journals:		Quantity Sufficient	

17) Students and teacher ratio

1:10 (as per HEC Criteria)

**MINIMUM REQUIREMENTS OF GLASSWARE  
FOR UNDER-GRADUATE LABORATORIES**

(Approximately for 50 students)

*Rate* *Each*

S. No.	Items	Minimum Quantity Required (approx for 50 students)
1.	3-neck R. B. flask (100 & 250 ml)	30
2.	Air condenser	20
3.	Air steam inlet tube	50
4.	Buchner filter funnel	20
5.	Buchner funnel	10
6.	Burettes Borosilicate glass	15
7.	China crucible	15
8.	China dish	30
9.	Condenser	20
10.	Cone MF 15/2	20
11.	Cone MF 15/1	20
12.	Conical Flask Flat Bottom (Various Capacities)	50
13.	Desiccator	10
14.	Desiccator plates	15
15.	Drying tube bent	15
16.	ESR westergren tube	15
17.	Filter flask	15
18.	Funnels	30
19.	Gas washing bottle	30
20.	Glass cover slip	10 pack
21.	Glass slide plain	10 pack
22.	Gloves	50
23.	Graduated Cylinder (Various capacities)	50
24.	Graduated pipette	30
25.	Graduated pipettes, Pyrex (Various capacities)	30
26.	Hollow stopper	15
27.	Iron stand clamp	30
28.	Liebig condenser	15
29.	Magnetic stirrer bar	10
30.	Markham still	15
31.	Melting point apparatus	15
32.	Micro Pipettes Adjustable	15
33.	Multiple adapter	15
34.	Pestle & mortar	15
35.	Petri dish	50
36.	Pycnometer	30
37.	Pipette filter	30
38.	R.B.C pipette	30

Rece. Books

39.	R. B. flask	30
40.	R. flask	30
41.	Reagent bottle	100
42.	Receiver adppter	30
43.	Receiver bend with vent	30
44.	Receiving flask	20
45.	Round Bottom Flask (Various capacities)	30
46.	Socket	20
47.	Soxhlet apparatus	15
48.	Spatula	20
49.	Spatula small steel	20
50.	Stop cork assembly	20
51.	Syringe disposable	10 pack
52.	Test Tube 1/ 1000	10 Pack
53.	Volumetric Flasks Glass (Various capacities)	10 each
54.	W.B.C. pipette	20
55.	Water taps	20
56.	Capillary tube	10 pack
57.	Fusion tube	10
58.	Test tube (5 ml & 25 ml)	10 pack each
59.	Funnel plane angle (60 mm & 80 mm)	20
60.	Thermometer (100 C/ 110 C, 360C & 340C)	10 each
61.	Water distillation plants (Electric)	2 minimum
62.	Beaker (50, 100, 250, 1000 & 2000 ml)	20 each
63.	Separating funnel (100 ml & 250 ml)	10 each
64.	Funnel plain (100 ml)	10 each
65.	Measuring flask (50, 100, 250, 500 & 1000ml)	10 each
66.	Volumetric pipette (10 & 20 ml)	10 each
67.	Titration flask (50, 100 & 250 ml)	10 each
68.	Burette (10 & 50 ml)	10 each
69.	Measuring cylinder (10, 50, 100 & 250 ml)	15 each
70.	Condenser (14/23, 19/26 & 24/29)	10 each
71.	Round bottom flask (50, 100 & 1000 ml)	10 each
72.	3-neck round bottom flask (100 & 250 ml)	10 each
73.	Receiving flask (50, 100 & 250 ml)	10 each
74.	Desiccator (140, 200 mm, 150 ml)	5 each
75.	Desiccator plate	10
76.	Pycnometer (10, 25 & 50 ml)	10 each
77.	Glass washing bottles (250 ml)	15 each
78.	Cone MF 15/1 and 15/2 (14/23, 19/26)	15 each

Rate Each

79.	Dropping bottle (125 ml)	15 each
80.	Viscometer	15
81.	Watch glass (2 inch & 3 inch)	20 each
82.	Glass slide plain	10 Pack
83.	Glass cover slip	10 Pack
84.	Petri dish (4 inch)	20
85.	Iodine flask (250 ml)	20
86.	Neubauer's chamber	20
87.	Air condenser (C2/11,C2/12)	20
88.	Glass tile	20
89.	Safety glasses	20
90.	Flat bottom flask (5 L)	10
91.	Rotational viscometer	10
92.	Micro pipette	20
93.	Wall thermometer	2
94.	Depression slide	20
95.	Colony counter	1
96.	Filtration assembly	5
97.	Distillation apparatus glass	5
98.	Glass vials	50
99.	Lens for microscope (10X & 40X)	5

Note. All the Glass apparatus will be of Class A grade