
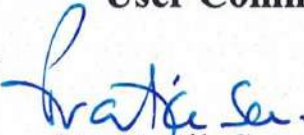


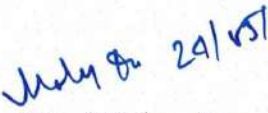
**Free Glass Apparatus**


	<b>Job Description</b>	<b>Cost</b>
1	Capillary	0
2	Adapter/Reducer	0
3	Round Bottom Flask up to 50ml	0
4	Two/Three Neck flask	0
5	Adapter with stopcock	0
6	Rotavapor adapter	0
7	Drying Tube (Guard Tube)	0
8	Gas Wash Bottle head	0
9	Air/Liebig Condenser	0
10	Column up to 40mm	0
11	Column with reservoir up to 40mm	0
12	Receiver Adapter, Bend with Vacuum	0
13	Plain still head	0
14	Splash head	0
15	Droppers	0
16	Conical Flask up to 50 ml	0
17	Vacuum sealing of sample tube	0
18	Glass Rods	0
19	Funnel/Powder funnel	0
20	Additional Funnel	0
21	"T" and "Y"	0
22	"U" bend manometer	0
23	Schlenk flask/tube	0
24	Nitrogen bubbler	0
25	Small trap	0
26	Sintered Funnel/Crucible	0
27	Filter Pump	0
28	Cow head	0
29	Take-Off	0
30	Spreader	0
31	Repairing of glass wares	0
32	Stirring rod	0
33	Gas water bottle head	0
34	Spatula	0

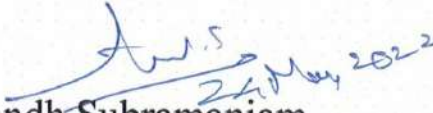
**User Committee, CGBS&SWF**

  
25/5/22  
Dr. Ramesh  
Ramapanicker

  
Dr. Pratik Sen

  
29/5/22  
Dr. Malay Das

  
Dr. Nishith Verma

  
24 May 2022  
Dr. Anandh Subramaniam.

Coordinator, CGBS & SWF



**Charges for Transparent Quartz tube.**

	<b>Quartz tube OD.</b>	<b>Cost/Mts</b>	<b>Cost/Feet</b>
35	Quartz glass tubing 6 mm	190	70
36	Quartz glass tubing 8 mm	220	100
37	Quartz glass tubing 10 mm	330	130
38	Quartz glass tubing 12 mm	370	140
39	Quartz glass tubing 15 mm	725	320
40	Quartz glass tubing 19mm	1150	460
41	Quartz glass tubing 22 mm	1275	520
42	Quartz glass tubing 25 mm	1500	600
43	Quartz glass tubing 28 mm	1850	750
44	Quartz glass tubing 33 mm	2400	1000

**Charges for Making Transparent Quartz ampoule/piece.**

	<b>Quartz ampoule ( length15cm x 12 cm)</b>	<b>Cost/piece</b>
45	Quartz Ampoule 10mm/8 mm	125
46	Quartz Ampoule 12mm/8 mm	170
47	Quartz Ampoule 15mm/8 mm	240
48	Quartz Ampoule 18mm/8 mm	275
49	Quartz Ampoule 22mm/8 mm	320
50	Quartz Ampoule 25mm/8 mm	425
51	Quartz Ampoule 28mm/8 mm	500
52	Quartz Ampoule 33mm/10 mm	700


**Charges for cutting, Grinding and fire polish of glass tubes both sides.**


	<b>Glass cutting</b>	<b>Cost/piece</b>
53	Cutting glass tubes above Diameter 100mm to 120mm	700
54	Cutting glass tubes above Diameter 60mm to 95mm	600
55	Cutting glass tubes above Diameter 40mm to 58mm	300
56	Cutting Glass tubes below 40mm	100
57	Cutting of slides 10 Nos.	100
58	Cutting Glass as per special design or angle	*

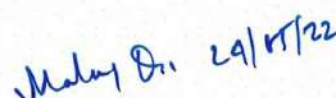
**\*Charges as per Design**


*Charges as for Quartz special design will be finalized by In-charge CGBS&SWF.*


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**Charges for Making Borosilicate Glass Apparatus / Piece.**

	<b>Job Description</b>	<b>Amount/Piece</b>
1	Condenser Bulb Liebig	250
2	Condenser Coil Single Surface	350
3	Condenser Coil Double Surface	650
4	Condenser Distillation Double Surface	700
5	Condenser Distillation Single Surface	450
6	Condenser Distillation Double surface with vigrus vacuum column	750
7	Condenser Water Still Distillation	1500
8	Condenser Double Surface	450
9	Condenser Single surface Liebig	150
10	Condenser Short Path	200
11	Dewar Flask (Without Silvering) 100mm	2000
12	Dewar Flask with Silvering 100 mm Flask	4500-5300
13	Dewar Flask with Silvering above 105mm	5500-6500
14	Distillation Flask 5 lts	2500
15	Distillation Solvent Flask	1000
16	Flange 8mm up-to 30mm	300
17	Flange 32mm up-to 50mm	500
18	Flange 52mm up-to 80mm	750
19	Flange 85mm up-to 120mm	1000
20	Jacketed Flask up to 50ml	750
21	Jacketed Flask 100ml	1300
22	Jacketed Flask 250ml	2100
23	Jacketed Flask 500ml	2600
24	Jacketed Flask 1000ml	3200
25	Pressure Equalizer Funnel	400-650
26	Soxhlet Extractor	400-650
27	Trap Big 40mm	100
28	Trap KOH	200
29	Vacuum Manifold (Double line) Schlenk line with stopcock	2500
30	Vacuum Manifold (Single line) Schlenk line with stopcock	1000
31	Vacuum + Pressure manifold with side tube connectors	500
32	Quartz Apparatus	*
33	New Apparatus as per design	*
34	Glass Apparatus/ Column above 40 mm Dia. glass tube	*

**\*Charges as per Design**

*Note: Ground glass joints, Stopcock, RB flask, Glass frit. are to be supplied by the requisitioner.*

*Charges for new design of borosilicate glass apparatus will be finalized by In-charge CGBS&SWF.*

*Ramesh*  
25/5/22  
Dr. Ramesh  
Ramapanicker

*Pratik Sen*  
Dr. Pratik Sen

*Malay Das*  
29/05/22  
Dr. Malay Das

*Nishith Verma*  
Dr. Nishith Verma

*Anandh Subramaniam*  
24 May 2022  
Dr. Anandh Subramaniam.

Coordinator, CGBS & SWF



**Glassware quantity/job order**

	Job Description	Qty./Job order
1	Adapter/Reducer/ Take off	4
2	Capillary TLC	100
3	Capillary Melting point	50
4	Condenser Air Liebig type	2
5	Condenser/ Bulb Liebig	2
6	Condenser Coil Single surface	1
7	Condenser Coil Double Surface	1
8	Condenser Single Surface	2
9	Condenser Double Surface	1
10	Condenser Distillation Single Surface	1
11	Condenser Distillation Double Surface	1
12	Condenser Distillation Double with Vigurs column	1
13	Condenser Water Still Distillation	1
14	Condenser Short Path	1
15	Column up to 20mm and up to 40mm	4/2
16	Column with reservoir up to 40mm	2
17	Conical Flask up to 50 ml	5
18	Cow head	2
19	Connector, T, Y	5
20	Dewar Flask (Without Silvering) 100mm	1
21	Dewar Flask with Silvering 100 mm Flask	1
22	Dewar Flask with Silvering above 105mm	1
23	Dropper	5
24	Distillation Flask 5 Lts.	1
25	Distillation Plain still head	2
26	Drying Tube (Guard Tube)	5
27	Funnel/ Powder funnel	5
28	Gas Wash Bottle head	2
29	Glass Rods/ Stirrer rod	5
30	Jacketed Flask up to 50ml -1 Lts.	1
31	Pressure Equalizer Funnel/ Additional funnel	1
32	Round bottom flask up to 50ml	4
33	Round bottom flask 2/3/4 neck	2
34	Sintered Frit /Crucible	4
35	Solvent Distillation Flask	1
36	Spreader	4
37	Spatula	4
38	Splash head/ Rotavapor adapter	2
39	Schlenk flask/tube	2
40	Soxhlet Extractor	1
41	Trap, Nitrogen /Oil bubbler/ small	2
42	Trap, KOH/ Solvent big 40mm	2
43	"U" bend manometer	2
44	Vacuum Manifold (Single lines) (double lines)	1
45	Vacuum sealing of sample tube	1
46	Quartz Ampoule	2
47	New apparatus as per design	1

*Shakar*  
**In-charge CGBS & SWF.**

*Anis*




**Charges for Borosilicate glass tube**


	<b>OD. of Borosilicate glass tube</b>	<b>Cost /1.2 Mts.</b>	<b>Cost/Feet</b>
1	Borosilicate glass tube 42 mm	500	200
2	Borosilicate glass tube 45 mm	550	200
3	Borosilicate glass tube 50 mm	650	250
4	Borosilicate glass tube 55 mm	650	250
5	Borosilicate glass tube 60 mm	750	300
6	Borosilicate glass tube 65 mm	750	300
7	Borosilicate glass tube 70 mm	900	350
8	Borosilicate glass tube 75 mm	900	350
9	Borosilicate glass tube 80 mm	1000	400
10	Borosilicate glass tube 85 mm	1000	400
11	Borosilicate glass tube 90 mm	1100	450
12	Borosilicate glass tube 95 mm	1200	500
13	Borosilicate glass tube 100 mm	1500	600
14	Borosilicate glass tube 105 mm	1500	600
15	Borosilicate glass tube 110 mm	1500	600
16	Borosilicate glass tube 115 mm	1650	650
17	Borosilicate glass tube 120 mm	1700	650
18	Borosilicate glass tube 125 mm	1750	700
19	Borosilicate glass tube 130 mm	1800	700
20	Borosilicate glass tube 135 mm	2000	800
21	Borosilicate glass tube 140mm	2000	800
22	Borosilicate glass tube 150mm	2200	800

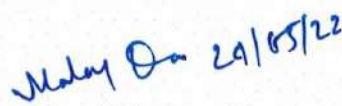
**Charges for Special water facility**


1	Distilled Water	<b>Rs.4/Litres</b>
2	RO+DI water	<b>Rs.8/Litres</b>


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