



SPECIALTY GLASS DIVISION
List of Items



Consumable Items

SI No	Item Name
1	Silica wares- Quartz rod, Quartz tube, Silica Lid, Silica Channel, Quartz Dish Cover
	Silica wares- Quartz rod, Quartz tube, Silica Lid, Silica Channel, Quartz Dish Cover
2	Silica wares- silica ampoules
3	Gas clean filter with SS filter Stand
	Gas clean filter with SS filter Stand
4	Thermo couples
	Thermo couples
	Thermo couples
5	Consumables for cutting, grinding & polishing machines
6	Heating Elements
	Heating Elements
	Heating Elements
7	PID controller, Thyristor, Over Temperature Controller, Insulating Board
	PID controller, Thyristor, Over Temperature Controller, Insulating Board
	PID controller, Thyristor, Over Temperature Controller, Insulating Board
	PID controller, Thyristor, Over Temperature Controller, Insulating Board
8	Moisture Trapper
9	Oxygen Sensor & Moisture Sensor for Glove box
10	Liquid N2 Storage Tank
11	Alloy Steel mould
12	Mould Base plate
13	High Temperature Cloth
14	Refractive index matching liquids
	Refractive index matching liquids
	Refractive index matching liquids
15	Wooden box
16	Light Diesel Oil
17	Wooden mould for Refractory pot fabrication
18	Distilled water
	Distilled water
	Distilled water
19	Rubber wheel (for material carrying trolley)
20	Ethanol
21	Isopropanol
	Isopropanol
22	I-Propanol
23	I-Butanol
24	2-Butanol
25	Tetraethylorthosilicate
26	Nitric acid , Sulphuric acid, hydrochloric acid
	Nitric acid , Sulphuric acid, hydrochloric acid
27	Nitric acid , Sulphuric acid, hydrochloric acid
28	Acetone



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SI No	Item Name
29	HF (30%)
	HF (30%)
30	Chloroform
31	Octadecyltrichlorosilane
32	Methyl octadecyl-cholorosilane
33	Chloro(dimethyl)octadecylsilane
34	Pyrophillite
35	Fused Silica Crucible
	Fused Silica Crucible
36	Silica Gel Fumed 200
37	Aluminum Wire(99.999%)
38	Fabricated Exhaust system for Chiller
39	Pipe line for different Gas
	Pipe line for different Gas
40	Refractory Bricks, Castable
	Refractory Bricks
41	Wide mouth bottle (PP) 500 mL
42	Wide mouth bottle (PP) 250mL
43	Wash bottle new 500 mL
44	Labeled Wash bottle Water 500mL
45	Labeled Wash bottle Ethanol 500mL
46	Volumetric flask
47	Pipette bulb
48	Pipettor stand
49	Variable volume pipette
51	Micro tip box (2-200 μ L)
52	Microtips low retention 200 μ L
53	Macro tips 10mL
54	Macro tip box
55	Micro centrifuge tube
57	Centrifuge tube
58	Self standing centrifuge tube 50mL sterile
59	Centrifuge tube box for 50mL
60	Specimen tube
63	Sample container sterile
65	Pasteur pipette 3mL sterile
68	Funnel
69	Pipettes,
74	Glass dropper
75	Petri dishes
76	Whatman filter paper
77	Tissue rolls
78	Silica Cloth, Rubber Cloth, Silica Tape
79	Apron, Gloves, Face Masks, Shoes
80	High Temperature Face Guard
81	Tools – Mechanical, Electrical, Ceramic
82	Spares for Tools – Cutter/Grinder wheels, bearings, Nut-Bolt-Washers/Screws/Drill Bits
83	Emery Papers, Lens Paper, Felt, Pitch, , Glass sample holding zig/fixtures/guide
84	Grease- Normal/Vacuum, Lubricant oils, Anti-rust Cleaner, Sealant, Coolant
85	Vacuum Cleaner and Spares



Consumable Items

SI No	Item Name
86	Pipettes, class B
87	pH buffer 4 (NIST standard)
88	pH buffer 7 (NIST standard)
89	pH buffer 10 (NIST standard)
90	Ethyl cellulose
91	Poly methyl vinyl ether
92	Poly vinyl alcohol
93	Napthalene
94	pH electrode storage solution
95	Parafilm
96	Relays, Potentiometric Regulators, Snubbers, PCBs, Kit-kats
97	CCTV Camera
98	Plastic Containers
99	Beaker & Flask
100	Zirconia Ball
101	Allumina Ball
102	Kaoline powder
103	Copper metal powder
104	Aluminium metal powder
105	Cobalt metal powder
106	Nickel Metal
107	Iron Metal
108	Chromium Metal
109	Manganese Metal
110	TG-DSC Cp sample carrier for ASC operation
111	Alumina Crucibles, Quartz Crucible, Nickel Crucible
112	Dropping Bottle
113	White LED light
114	Squizer
115	Allyl Alcohol
116	D-Mannitol
	Raw materials: Ashapura clay/ Chitorpur clay/ Rajmahal clay/ Technical alumina China clay/ Pyrophyllite/ Blast Furnace slag Iron oxide/ Red lead/ Silica
117	Chemical compounds
118	Refractory pot
119	Mother mould for refractory pot fabrication
120	Pabbles for ball mill
121	Distilled water
122	Thermocouple
123	Thermocouple siethe
124	High alumina boat
125	Glass items: Petridish, Desiccator, Beaker, Flask, Funnel
126	Twister, Spatula, Tongs, Heat resistant gloves, Helmet, Face protector by, safety shoe
127	Gas regulator, Temperature controller, hydraulic oil



List of Urgent Chemicals

SL No	Name of the Item
1	Silicon Di Oxide
2	Boric Acid
3	Barium carbonate
4	Calcium Carbonate
5	Lithium carbonate
6	Sodium carbonate
7	Potassium Carbonate
8	Titanium Oxide
9	Niobium Oxide
10	Tungsten Oxide
11	Antimony Oxide
12	Lanthanum Oxide
13	Aluminium Oxide
14	Yttrium Oxide
15	Tungsten(VI) Oxide,
16	Zinc Oxide
17	Zirconium di Oxide
18	Tantalum Oxide
19	Zirconium (IV)propoxide 70 wt% 1-propanol
20	Aluminium nitrate nonahydrate
21	Ammonium Hydroxide Solution
22	Silica Gel Fumed 200
23	Selenium
24	Germanium
25	Antimony
26	Tellurium
27	Sulphur
	Sodium Sulphide
28	Gold chloride
29	Aluminium orthophosphate
30	Aluminium metaphosphate
31	Barium metaphosphate
32	Potassium metaphosphate
33	Tellurium dioxide
34	Lutetium Oxide
35	Lutetium fluoride
36	Strontium Oxide
37	Indium Oxide
38	Copper Oxide
39	Neodymium Oxide
40	Holmium Oxide
41	Sodium phosphate
42	Sodium metaphosphate
43	Lithium metaphosphate (LiPO ₃)
44	Caesium bromide
45	Barium orthophosphate
	Strontium orthophosphate
	Aluminium orthophosphate
	Potassium orthophosphate
	Sodium orthophosphate
	Potassium hexafluorophosphate
	Lithium orthophosphate
46	Lead bromide
	Boron Phosphate (BPO ₄)



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SL No	Name of the Item
47	Calcium carbonate
48	Calcium phosphate dibasic dihydrate
49	Sodium carbonate
50	Potassium carbonate
51	Strontium carbonate
52	Magnesium oxide
53	Tris
53	Lithium carbonate
54	Zinc oxide
55	Sodium chloride
56	Sodium bicarbonate
57	Potassium chloride
58	Potassium phosphate dibasic trihydrate
59	Calcium chloride dihydrate
60	Magnesium chloride hexahydrate
61	Sodium sulphate
62	Potassium bromide
47	Calcium carbonate
48	Calcium phosphate dibasic dihydrate
49	Sodium carbonate
50	Potassium carbonate
51	Strontium carbonate
52	Magnesium oxide
53	Tris
53	Lithium carbonate
54	Zinc oxide
55	Sodium chloride
63	Silver Nitrate
64	Silicon carbide
65	Manganese dioxide
66	Chromium oxide
67	Cobalt Oxide
68	Magnesium metaphosphate
69	Zinc phosphate
70	Boron phosphate
71	Ammonium acetate
72	Ferrozine
73	Potassium dihydrogen phosphate
74	Ammonia
75	Potassium dihydrogen phosphate
76	Caesium carbonate
77	Bismuth oxide
78	Silver Oxide



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List of Items

Other chemicals for basic and applied research in Specialty Glass Division
Germanium Oxide (GeO ₂)
Ytterbium Oxide (Yb ₂ O ₃)
Erbium oxide (Er ₂ O ₃)
Metal targets for sputtering (Cr, Si, Ti, Cu, Mo, W, Hf, Nb, Ag, Al etc.)
Europium oxide (Eu ₂ O ₃)
Gallium oxide (Ga ₂ O ₃)
Molybdenum oxide (MoO ₂)
Vanadium oxide (VO ₂)
Indium tin oxide (ITO) coated glass substrate
Vanadium pentoxide (V ₂ O ₅)

List of Urgent Machineries & Furnaces.

1	Mould carriage Fork-lift/hot mould transfer device
	Mould carriage Fork-lift/hot mould transfer device
2	Exhaust blower
	Exhaust blower
3	Electrical Balance
4	Prism coupler
5	Batch mixing machine
6	Pot Catcher
7	Induction Furnace
8	Glass Casting Machine
	Storage cabinet with humidity control
9	Zygo Interferometer for testing Refraction index homogeneity
10	Horizontal Tube Furnace
11	Glass Cutting machine
12	Pot mill/Ball Mill
13	Different Annealing Furnace & Mould Heating Box Furnace

List of Items for servicing & Annual maintenance

1	Servicing of Contact Angle Meter
2	Quality measurement for the gas services of O ₂ , He and N ₂
3	Servicing of all types of furnace & machineries (induction furnace, resistance heating furnace, Oil fired & gas fired furnace, micro oven furnace, fork lift, Glass cutting/ grinding & polishing machine, Batch mixer, Glass casting machine, hot mould transfer device/mould carriage fork lift, Hydraulic Jack, Dehumidified Storage Chambers, Steel Almirah/Cabinets, Exhaust Blowers/Fans, Fume Hoods)
4	Servicing of DSC, FTIR, UV- VIS spectrophotometer, Heating Microscope, Raman spectroscopy, Viscometer, Dilatometer, Prism Coupler
5	Servicing of gas regulator
6	pH meter service
7	Incubator service
8	Refrigerator Service
9	Microplate Reader Service
10	Gas purifier (O ₂ , N ₂ ,)
11	Moisture trap
12	Annual Maintenance (Servicing) Contract for Dehumidifier
13	Annual Maintenance (Servicing) Contract for UPS
14	Annual Maintenance (Servicing) Contract for Clean Room Machineries