



GOVERNMENT POLYTECHNIC ARVI

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GP/WS/Chem. prct/2022/ 2547

Date:- 10 / 11 /2022


To,
As Per List Attached /Over Leaf.

Subject :- Inviting of sealed quotation to supply of Chemicals, Glassware & consumable for Chemical Engg. Dept.

You are requested to send quotation for the supply of following items for subjects to conditions given below.

- 1) Rate quoted should be **F.O.R.** at the institute including all taxes.
- 2) Specifications of the articles you are interested to supply should be given, if not according to specifications mentioned.
- 3) GST/other taxes, packing & forwarding charges should be inclusive or shown extra if applicable.
- 4) The Equipments/materials should be supplied within **15 days** from the date of order.
- 5) The earliest delivery period should be quoted if you can't supply within the period mentioned above.
- 6) **Quotation should be valid upto 31/03/2022 .**
- 7) Condition of advance payment or payment against documents will not be considered.
- 8) **Last date for receiving the Quotation is 25 /11 /2022 (upto 5.00pm)** received sealed quotation/envelope will be opened on next working day. Or as per convenience of the committee.
- 9) **"Quotation for Chemicals & Glassware"** should be boldly mentioned on sealed envelope otherwise your quotation will not be accepted.

List of Chemicals, glassware and other consumable item is enclosed separately.


(Dr. M.A. Ali)
I/c Principal,
Govt. Polytechnic, Arvi

Copy to ✓ 1) HoD Computer to publish on institute Web-Site
2) Notice Board Copy to publish

LIST OF CHEMICALS (SD Fine Chem. Make/ MERCK Life Science) for year 2022-23

(Note: Supplier may only supply the chemicals of SD FINECHEM/MERCK/MERCK Life Science/ THOMAS BAKER brand unless stated. Other brands will not be accepted due to problem of quality

The enlisted chemicals are of SDFINCHEM brand)

S. N.	Name of the Chemical	Formula	Code No.	Quantity	Remark
1	Acetic Acid	CH ₃ COOH	-----	500 ml × 01	Any Brand
2	Acetone	CH ₃ COCH ₃	-----	500 ml × 01	Any Brand
3	Ammonia (LR)	NH ₄	29086	500ml× 01	SD Fine Chem
4	Ammonium Chloride	NH ₄ Cl	37149	1kg × 01	SD Fine Chem
5	Ammonium Nitrate	NH ₄ NO ₃	-----	500g × 01	Any Brand
6	Barium Chloride	BaCl ₂	37290 UR	500g × 01	SD Fine Chem
7	Benzene	C ₆ H ₆	37315	500ml x01	SD Fine Chem.
8	Buffer Solution pH 4.0 (Pthalate)	--	35098	500 ml x 01	SD Fine Chem.
9	Buffer Solution pH 7.0 (Phosphate)	--	29039	500 ml x 01	SD Fine Chem.
10	Buffer Solution pH 9.0 (Borate)	--	29041	500 ml x 01	SD Fine Chem.
11	Calcein Powder	C ₃₀ H ₂₆ N ₂ O ₁₃	-----	500g × 01	Any Brand
12	Calcium Carbonate	CaCO ₃	37579	500 gm. x 01	SD Fine Chem.
13	Calcium Sulphate Anhydrous	CaSO ₄	37624	500 gm× 01	SD Fine Chem.
14	Carbon Tetra Chloride	CCl ₄	-	500 ml × 01	Any Brand.
15	Chlorobenzene	C ₆ H ₅ Cl	37690	500 ml × 01	SD Fine Chem.
16	Chloroform	CHCl ₃	36272	500 ml × 01	SD Fine Chem.
17	Dimethyl Sulfoxide	C ₂ H ₆ OS	-	500 ml x 01	<u>Any Brand</u>
18	Eriochrome Black T (Ebt)	C ₂₀ H ₁₂ N ₃ O ₇ SNa	26032	25 g x 01	SD Fine Chem.
20	Ethanol	C ₂ H ₅ OH	--	500 ml x 03	Any Brand
21	Ethylene Diamine Tetra Acetic Acid (EDTA)	C ₁₀ H ₁₆ N ₂ O ₈	38021	100 gm x 01	SD Fine Chem.
22	Ferrion Indicator	C ₃₆ H ₂₄ FeN ₆ ²⁺	20187	5 g x 01	SD Fine Chem.
23	Filter Paper 125 Mm	-	-	01 packet (100 pc)	Any Brand
24	Glycerine	C ₃ H ₈ O ₃	20118IP	500ml x 01	SD Fine Chem.
25	Grease (High Vacuum Silicone Grease))	-	43135	50 g x01	SD Fine Chem.
26	Hexamethylenediamine (HMD)	C ₆ H ₁₆ N ₂	39719	250 ml x 01	SD Fine Chem
27	Hexamethylenetetramine (HMTA)	C ₆ H ₁₂ N ₄	38483	500gm x 01	SD Fine Chem.
28	Hydrazine Sulphate	H ₆ N ₂ O ₄ S	38503	100gm x 01	SD Fine Chem.
29	Hydrochloric Acid	HCL	56331	500ml. × 02	SD Fine Chem
30	Hydroxylamine Hydrochloride	HONH ₂ ·HCl	38523	100 g x01	SD Fine Chem.
31	Magnesium Sulphate (Uh)	MgSO ₄	39118	500 g× 01	SD Fine Chem.
32	Manganous Sulphate Monohydrate AR	MnSO ₄ ·H ₂ O	20355	500g x 01	SD Fine Chem.
33	Mercuric Sulphate	HgSO ₄	30174	25 g x01	SD Fine Chem.
34	Methanol	CH ₃ OH	39192	2.5 lit. × 02	SD Fine Chem.
35	Methyl Orange Indicator	C ₁₄ H ₁₄ N ₃ NaO ₃ S	31020	125 ml x 02	SD Fine Chem.
36	Methyl Red Indicator pH Solution	C ₁₅ H ₁₅ N ₃ O ₂	31022	125 ml x 01	SD Fine Chem.
37	Methylthymol Blue Indicator	C ₃₇ H ₄₄ N ₂ O ₁₃ S	45027	125 ml× 01	SD Fine Chem
38	N-Hexane	C ₆ H ₁₄	38487	500 ml. × 01	SD Fine Chem
39	Nitric Acid	HNO ₃	39335	500 ml. × 01	SD Fine Chem
40	Phenolphthalein Indicator	C ₂₀ H ₁₄ O ₄	31028	125 ml x 02	SD Fine Chem.
41	Potassium Nitrate	KNO ₃	39638	500 g × 01	Any Brand
42	Potassium Chloride pH	KCl	39594	500 g× 01	SD Fine Chem.
43	Potassium Hydroxide (LR)	KOH	39627	500g × 01	SD Fine Chem

44	Pyrogallol	$C_6H_3(OH)_3$	20228	100 g x 01	SD Fine Chem.
45	Sodium Aluminate	$NaAlO_2$	-----	10 g x01	Any Brand
46	Sodium Azide	NaN_3	40111	100 g x 01	SD Fine Chem.
47	Sodium Carbonate	Na_2CO_3	40121	500g x 01	SD Fine Chem
48	Sodium Hydroxide	$NaOH$	40166	500 g x 04	SD Fine Chem.
49	Sodium Hypochlorite Soln. (4%)	$NaOCl$	33040	500 ml x 01	SD Fine Chem.
50	Sodium Thio Sulphate	$Na_2S_2O_3$	40235	500 g x 01	SD Fine Chem.
51	Starch Soluble (Potato) AR	--	20271	500 g x 01	SD Fine Chem.
52	Sulphuric Acid	H_2SO_4	40325	1 lit. x 01	SD Fine Chem
53	Toluene Rectified LR	$C_6H_5CH_3$	40452	500 ml x 01	SD Fine Chem.
54	Triethanol Amine (TEA)	$C_6H_{15}NO_3$	40501	500 ml. x 01	Any Brand

LIST OF GLASSWARES/MISC. CONSUMABLES for year 2022-2023

(Glassware must be made from Borosilicate glass and brand may be BOROSIL/JSIL/ASCO etc.)

SN	Name of the glassware/Lab ware/Accessories	Qty.
Glassware		
	Beaker (100 ml)	3
1	Bottles, Relative density, 25 ml, with capillary bore interchangeable Teflon stopper	2
2	Burette with pinchcock, 50 ml	3
	Conical Flask ,250 ml	3
3	Crucible 25 ml , without lid quartz, 47 x 30 mm	3
5	Eppendorf -2 ml (Centrifuge tube)	2
6	Finger clamp (Zinc pressure die casted)	2
7	Flask, Kjeldal ,with stopper 500 ml	1
9	Flasks, Volumetric, 250 ml, with Interchangeable Solid Glass Stopper Accuracy as per Class B	2
10	Glass Beads, Round Transparent up to 2mm size	500 g
	Glass Dropper , 30 ml	2
11	Manometer, U Tube, Scale Range 180 – 200 mm, without manometric fluid	1
	Petri dish (75mm)	2
	Pipette ,10ml	2
13	Sample bottle ordinary 25 ml capacity 36 x 70 mm approx	2
14	Sealant (Wax use for glass assembly sealing)	250 g
15	Separating Funnel 250 ml , Pear Shape, Fitted with Boroflo Stopcock with PTFE Key and Interchangeable Stopper(24/29 mm)	1
17	Stefan Tube, Standard size , for diffusivity experiment	2
18	Thermometer $-10^{\circ}C$ to $110^{\circ}C$ measurement	2
	Thermometer $0^{\circ}C$ to $250^{\circ}C$ measurement	2
	Thermometer $0^{\circ}C$ to $360^{\circ}C$ measurement	2
19	Tray rigid rectangular 350 x 200 x 58 (Approx)	1
20	U tubes with 300 mm limbs, 6-12 mm bore	1
23	Alloy material samples 150 mm x 150 mm sheet size for teaching purpose, Stainless steel, Bronze, Chromel, Monel, Nichrome etc	1 Pkt
25	Chemical Jerry Can, 20-50 liter capacity, with screw cap	1
26	Coal	1 Kg
27	Different crystal structure samples for teaching purpose Cubical, tetragonal, hexagonal, orthorhombic, monoclinic, triclinic etc.	1 Pkt
28	Ear Muff (Ergonomic, Head mountable, adjustable)	1
29	Ear plugs (13x 24 mm size, foam material)	2
30	Glass Plate 1' x 1'	2
31	Hand Gloves (Chemical Resistant, Nitrile rubber material, 12-14" size)	1 Pair
32	Heating Mantle – 500 ml capacity Non rusting aluminum housing - Powder Coat Finish, Thick hand knitted fiber glass netting , High density glass wool insulation, Energy regulator – Power controller, Maximum surface temperature $350^{\circ}C$, High grade chrome plated Nichrome heating elements, Operates on 230 Volts AC Single phase 50 Hz.,suitable for 500 ml round bottom flask.	1
35	Magnetic bar, 2" length , 1 ' width approx.	2

36	Magnetic material samples for teaching purpose Cobalt, Hematite etc	1 Pkt
37	Magnetic stirrer bars – octagonal with molded pivot angular surface , 8 x 20 mm	2
	pH paper (0-14)	2 Pkt
38	Psychometric Wall Chart (Standard size)	1
39	PVC transparent tubing superior quality 6.3 x1.5 mm	10 mt
40	Retort Ring (with boss head size 3")	2
41	Round shape electrical heater (Approx. 300 to 500 w)	1
42	Rubber Cock borer (made up of brass ,chrome plated)	1 set
43	Rubber corks (Different sizes)	1 pack
44	Rubber hose for hot water in laboratory 10 mm bore	10 mt
45	Safety goggle (Chemical Safety, PVC material)	1
46	Safety Helmet (With polycarbonate face shield, PVC material for helmet, Industrial purpose, White or yellow color)	1
47	Screw clip made of thick electroplated brass 12 mm	1
51	Stop Watch, Digital display hour, minute, second	2

LIST OF MISC CONSUMABLES for year 2022-23

SN	Name of the Consumable	Qty.
Class Rooms/ Laboratory		
1	Apron (Chemical laboratory, White/cream color, Cotton fabric, Full sleeve)	1
2	Brush for Painting	1
3	Dustless Chalks (White/ Color)	5 box
4	First aid box (Transparent plastic, empty, elegant look)	1
5	Glass Chalk board Standard for Drawing Hall	1
6	Hand Wash bottle with soap solution	2
7	Tester (Electrical, standard)	1
8	Tool Kit (Mechanical) Kit should contain necessary tools needed for most repairs in the laboratory. The tools should contain in a sturdy blow molded case. It should contain Pliers, Hammer, Tape Measure, Bit Driver, Ratcheting Socket Driver; Screwdrivers; Wrenches, Ball Point Hex Keys Set Drive Metric Sockets, Tester etc.	1 Kit
9	White Board Duster	2
10	White Board Marker	2 Set
11	Antivirus CD	5
12	Dual Drive (Pen Drive) 64 GB	2
13	HP Cartridge 18 A CF 218a for All in One Printer MFP M 129-M134-PCLmS	1
14	Acrylic Table Top Elevator	1
15	Doormat (Paypusani)	2
16	Flower Pot	1
17	Manjarpat	5 m
18	Measuring Tape 2-3 m	1
19	Mopper	1
20	Permanent Marker Pen Set	2 set
21	Plastic Bucket	2
22	Room Freshner	1
23	Rubber bands (Mixed sizes – 1",1.5",2",3"& 4", Non-sticky and convenient to use, available in various colors, high elasticity	250 g Pack
24	Table Top Glass (with smooth border)	1
25	Wall Clock	1
26	Gardening hand tool kit (weeder,big trowel ,hand fork, cultivator and sped)	1 Kit
