



CHEMISTRY

9-1/4

Chemistry Laboratory Equipment (UG/PG), Govt Auto. College Angul.

SI.No.	Equipment/Apparatus Name	Description / Specification	Sub SI. No.	Unit Price including GST and all charges and taxes with installation and delivery at college etc
1	Test tube High quality glass	15x150mm	1	
2	Round bottomed flask High quality Glass	Two neck: (19/24, 14/23)	2	50mL
			3	100mL
		Single neck: (14/23)	4	5mL
			5	50mL
			6	100mL
			7	250mL
			8	5mL
			9	50mL
		Single Neck (24/29)	10	100mL
			11	250mL
			12	1000mL
			13	25mL
3	Flat bottomed flask, Material: High quality Glass	Single Neck: (14/23)	14	50mL
			15	100mL
			16	250mL
		Single Neck: (24/29)	17	25mL
			18	50mL
			19	100mL
			20	250mL
			21	25mL
4	Beaker, Material: High quality Glass,	Capacity :	22	50mL
			23	100mL
			24	250mL
			25	500mL
			26	1000mL
			27	25mL
5	Conical flask, Material: High quality Glass,	Capacity :	28	50mL
			29	100mL
			30	250mL
			31	500mL
			32	1000mL
			33	5mL
6	Graduated cylinder, Material: High quality Glass,	Capacity :	34	10mL
			35	25mL
			36	50mL
			37	100mL
			38	250mL
			39	5mL
7	Graduated Pipette, Material: High quality Glass,	Capacity:	40	10mL
			41	20mL
			42	25mL
			43	10mL
8	Volumetric pipette, Material: High quality Glass,	Capacity:	44	20mL
			45	25mL
			46	25mL
9	Filter Funnel, Material: High quality Glass,	Capacity:	47	50mL
			48	100mL
			49	50 mL
10	Burette	PET		

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 LASK

Handwritten signature and date: 01/01/25
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Sl.No.	Equipment/Apparatus Name	Description / Specification	Sub Sl. No.	Unit Price including GST and all charges and taxes with installation and delivery at college etc
11	Thermometer	Temperature	50	100 °C
			51	200 °C
			52	300 °C
12	Buchner Funnel		53	50mL
			54	100mL
			55	250mL
13	Air condenser, Material: High quality Glass	Neck/joint Size:14/23	56	
		Neck/joint Size:19/24	57	
		Neck/joint Size:24/29	58	
14	Water condenser, Material: High quality Glass,	Neck/joint Size:14/23	59	
		Neck/joint Size:19/24	60	
		Neck/joint Size:24/29	61	
15	Separating funnel, Material: High Capacity		62	25mL
			63	50mL
			64	100mL
			65	250mL
			66	500mL
16	Volumetric Flask, Material: High quality Glass	Capacity:	67	100mL
			68	250mL
			69	500mL
			70	1000mL
17	Soxhlet extractor, Material: High quality Glass	neck/joint Size: 14/23	71	
		neck/joint Size: 19/24	72	
18	Potentiometer	Digital	73	
19	Calorimeter	Measurement of Heat capacity	74	
20	Ostwald's viscometer	Material: High quality Glass	75	
21	pH meter	Digital	76	
22	Stalagmometer	Material: High quality Glass	77	

Adhwa
04/01/25
Amrta
6/1/25
LASK

Prasanna
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Sl.No.	Equipment/Apparatus Name	Description / Specification	Sub Sl. No.		Unit Price including GST and all charges and taxes with installation and delivery at college etc
23	UV-Visible Spectrophotometer	<p>Measurement mode: Concentration % Absorbance (Abs); % Transmittance, wavelength range: 192-1100nm. Wavelength Accuracy: ± 1nm; Photometric measurement range: ± 3 Abs; Photometric Accuracy: ± 0.005 Abs at Abs<0.5 and $<1\%$ at 0.5-2.0Abs range; stray light: $<0.1\%$ T or better at 220nm and 340nm; lamp type: tungsten lamp (Visible) and Deuterium lamp (UV); Wavelength Calibration: automatic; Cell: 5nos.10mm, 5nos.20mm and 2nos.50mm; Cell recognition:Automatic; Scanning Speed: 400nm/min or better. User define preinstalled methods for following parameters like silica, phosphate, hydrazine, phenol, sulphide, cyanide, iron, ammonical nitrogen, chlorides, sulphate, nitrate, ammonia, SO_x, NO_x, ozone and other important analytical water quality parameter with user friendly menu in the software: instrument must be capable to: (a) run with conventional reagent as per the latest APHA-AWWA methods (b) with ready to use reagents (reagent kit) (c) Customize methods for analysis %A,%T and concentration at required wavelength; supply instruments should be operable under the power supply of 220 voltes AC$\pm 10\%$, 50 Hz$\pm 10\%$,single phase. Including Desktop, CPU and UPS.</p>	78		
24	Colorimeter	<p>Wave Length Range 400 to 700nm, Resolution 1% T, 0.01 Abs., 1 Conc., 1 K Factor, % Transmission 0 - 100% T, Absorbance 0 - 1.99 A, Concentration 0- 19999, K Factor 1 - 19999, Photo Detector Silicon Photodiode/Photo Cell, Display 16x2 line alphanumeric LCD display with backlit for %T, Abs., Conc., K Factor, Keyboard 8 Keys, soft touch membrane type, Data Storage Upto 100 samples, Light Source 6.8V, 0.3Amp. Tungsten Lamp, Sample System 10 mm path length matched glass test tubes, Filters 420, 440, 490, 520, 540, 570, 600, 700nm, Printer Interface Centronics Parallel Printer interface for any dot matrix printer, RS232C Interface Available (on request), Dimensions 240 x 254 x 90 mm (L x B x H) , Weight 2.5 Kg. (Approx.), Power Supply 230V AC$\pm 10\%$ 50Hz. with in-built stabilizer, Accessories Matched Test Tube Set of 5, Operation Manual, Dust Cover, Spare Lampv.</p>	79		
25	Magnetic Stirrer with Hot Plate	Digital RPM	80		
26	Digital weight machine	Upto four decimal, Readeability 0.0001g	81		
27	Hot air oven	<p>Construction: Triple walled in construction inner chamber made of Stainless Steel SS 304 grade.18swg and exterior made up of Mild steel duly Powder coated. The gap between the walls filled with glass wool insulation to minimize the loss of temperature. 2. Inner Chamber size 900(H)x600(L)x600(W) in mm, with 3 Trays. 3. Temperature range Ambient to 250°C with an of accuracy ± 1 °C,</p>	82		

Quanta
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Powder
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Sl.No.	Equipment/Apparatus Name	Description / Specification	Sub Sl. No.	Unit Price including GST and all charges and taxes with installation and delivery at college etc
28	Microwave Oven			
29	Polarimeter	Measurement range: plus or minus 89° (optical rotation). Light source: LED+ interference filter Wavelength 589.44nm, Minimum reading: 0.001° (optical rotation) * Indication error: plus or minus 0.01° (-15° less than or equal to the optical rotation less than or equal to +15°) plus or minus 0.02° (when the optical rotation is less than -15° or the optical rotation is greater than +15°) * Repeatability (standard deviation): 0.002° (-45° less than or equal to the optical rotation degree less than or equal to +45°) 0.005° (when the optical rotation is less than -45° or the optical rotation is greater than +45°) Temperature control range: 15°-30°, Temperature control accuracy: plus or minus 0.5°, Temperature control tube length: 100mm, Temperature control tube capacity: less than 2ml.	83 84	
30	Nephelometer	Range : 0 to 20.00 NTU in 2 Ranges. Resolution : 0.1 NTU. Accuracy : ± 2% FS ±1 digit. Sample System : 60 x 25mm clear glass tube.	85	
31	Watch Glass		86	
32	Double Blue glass		87	
33	Filter Paper	Ordinary	88	
34	Bunsen Burner	High Quality	89	
35	Gas Tube	High Quality	90	
36	Blow Pipe	High Quality	91	
37	Test tube Holder	High Quality	92	
38	Tounges		93	
39	China Dish		94	
			95	

Delivered
07/11/2015
Quantities
L.A.S.R. 4.1.25

Received
04/01/25
HOD

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