

DEPARTMENT OF CHEMISTRY

GOVT. DEGREE COLLEGE KUPWARA

LIST OF EQUIPMENTS IN DEPARTMENT OF CHEMISTRY (as on 20-04-2026)

S. No.	Name of Items	Specification	Quantity
1	Digital pH meter (with inbuilt magnetic stirrer & electronic buffer, PVC electrode)	Readout 4 digit LED display; Temp.comp. 0 to 100°C	01
2	UV-Visible Spectrophotometer With Quartz cuvette PVC Jacketed and compliant software	Single Beam with auto scanning; Wavelength: 190–1100 nm	01
3	Digital TDS meter	4 digit LED display; Range = 0.01 ppm to 200ppt in 6 ranges	01
4	Digital Colorimeter (with separate filters and square cuvettes)	One button press micro controller based colorimeter	01
5	Digital Potentiometer	with built in magnetic stirrer & standard cell cell one button calibration (PC Compatible)	01
6	UV Cabinet with UV & White light with inbuilt safety procation	With Hood to view sample & UV filter for protection	01
7	Vaccum Filtration Setup (Buchner funnel, flask)	-	01
8	Microfiltration Unit	-	01
9	Reagent Refrigerator (Double Door)	-	02
10	Water Bath	Digital, temperature up to 100 °C	02
11	Hot Plate with Magnetic Stirrer	With Temp. Control ($\pm 2^{\circ}\text{C}$ accuracy)	02
12	Analytical Balance	Sensitivity 0.1 mg (0.0001 g)	01
13	Digital Polarimeter	$\pm 200^{\circ}$ dextro & laevo digital readout	01
14	Digital Boiling/Melting Point Apparatus	Microprocessor based on 0-300°C, slow rate 1°/min., magnetic stirrer for uniform mixing	01
15	Microwave oven	Standard size	01
16	Dessicator	-	01
17	Heating Mantle	-	01
18	TLC Setup	-	01
19	Bunsen Burners	LPG/Butane compatible	06
20	Heating Mantle	250 mL–1 L, variable temperature	
21	Digital Conductivity Meter	4-digit LED display, Microprocessor based with built-in std. conductance and unbreakable stand	01
22	Muffle Furnace	1000 °C max	01
23	Fire Extinguisher	CO ₂ and dry powder type	01
24	First Aid Kit	Standard chemical lab contents	01
25	Safety Goggles	Impact and chemical resistant	01

26	Desiccator	With vacuum port	01
27	Vertical Gel Electrophoresis Apparatus	With easy casting tray and 2 sets of combs (a.11teeth of 2x 4 mm; b. 8 teeth of 2x6)	01
28	Horizontal Gel Electrophoresis Apparatus	With easy casting tray and 2 sets of combs (a.14 teeth of 3x3 mm; b. 11 teeth of 5x3)	01
29	Flame Photometer	-	01
30	Digital pH meter	AT-148	01
31	Potentiometer (Solid State)	-	01
32	Thermostat Controller Incubator (Heating Mantle)	-	01
33	Spectrophotometer	Single Beam	01

**Head, Department of Chemistry
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