



**DEPARTMENT OF PHARMACEUTICAL SCIENCES AND TECHNOLOGY  
BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI**

**LIST OF MAJOR INSTRUMENTS**

S. No.	Instrument Name	Brand
1.	Air compressor (55 CFM)	Atlascopco
2.	Balance Digital Model No-AX-120	Shimadzu
3.	Balance Metler Model No-AB 105S	Metler Toledo
4.	Biological Safety Cabinet	ESCO
5.	Biological Safety Cabinet	Thermo
6.	Biological Safety Cabinet	Klenziads
7.	CHN Elemental Analyzer 8900	DANI
8.	CO <sub>2</sub> Incubator	Thermo
9.	Deep freezer (-86 °C)	Eppendorf
10.	Dehumidifier FFB1000	Bry-Air
11.	Digital balance readability 3	Sartorius
12.	Digital Hot Air Oven	Equitron
13.	Double Station Disintegration Tester (Model ED-2AL)	Electrolab
14.	DSC & TGA (DSC4000- TGA-4000)	Perkin Elmer
15.	DSC-50	Shimadzu
16.	DSC-60	Shimadzu
17.	Dual Drum Friability Tester (Model EF-2)	Electrolab
18.	Electromagnetic Sieve Shaker (Model EMS-8)	Electrolab
19.	ELISA reader (Multiscan GO)	Thermo
20.	FESEM	Zias
21.	Fluid bed processor	ACG
22.	FTIR 8400S	Shimadzu
23.	Gas Chromatograph	HEWLET PACKARD
24.	Gas Chromatograph Ceres 800 Plus	Chemito
25.	Gel DOC	Bio Rad
26.	Horizontal Gel electro phoresis	Bio Rad
27.	HPLC (1525) PDA Detector	WATERS
28.	HPLC PDA Detector	KNAUER
29.	HPLC UV-Vis & Electrochemical Detector	WATERS
30.	HPTLC (Linomat IV, Scanner 3)	CAMAG
31.	Hydrogen Gas Generator CLIND	CLIND



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S. No.	Instrument Name	Brand
32.	Incubator Shaker	Eppendorf
33.	Leica Microscope Model DM LS2 with PC attached	LEICA
34.	Leica Microscope Model DME with PC attached	LEICA
35.	Malvern Viscometer	Brook-Field
36.	Microscope	Olympus
37.	Mini Ball Mill & MINI BLENDER	Karnavati Engg.
38.	Nitrogen Gas Generator CLIND	CLIND
39.	pH Meter	Cyber Scan
40.	Planetary Micro Mill	Retsch
41.	Portable Hardness Tester (Model EH-01)	Electrolab
42.	R & D COATER	ACG
43.	Refrigerated Centrifuge (5804R)	Eppendorf
44.	Rotary Evaporators RII	Buchi
45.	Rotatory Evaporator	RG09EV
46.	Spray Dryer	Labultima
47.	Stability Chamber	Thermolab
48.	TA-60 Thermal Analyzer	Simazhu
49.	Table Top Ultracentrifuge (Optima Max XP)	Beckman coulter
50.	Tablet Compression Machine(16 Station)	Cadmach
51.	Tap Densitometer Model ETD-1020	Electrolab
52.	Texture Analyzer of Load Frame	Stable Micro Systems Ltd
53.	Thermal Cycler	Eppendorf
54.	UHPLC Dionex Ultimate 3000 (Auto sampler)	Thermo Scientific
55.	Ultrasonic Cleaner	Trans-O-Sonic
56.	Ultrasonic Homogenizer	Bandlein Sonoplus
57.	UV-Vis Spectrophotometer UV-1700 (Shimadzu)	Shimadzu
58.	UV-Vis Spectrophotometer UV-1800 (Shimadzu)	Shimadzu
59.	UV-Vis Spectrophotometer UV-2450 (Shimadzu)	Shimadzu
60.	Vertical Gel electrophoresis unit	Bio Rad
61.	Viscometer (Bohlin Visco 88)	Malvern
62.	Western Bolt	Bio Rad