

Sr. No.	CRF Instrument Name	User Category	Appointments / Bookings	No.s of Samples	Payment
1	3D Lab(3D Printer)	IITD Internal	90	3021	302100
2	3D Lab(Laser Cutting Machine)	IITD Internal	104	342	34200
3	Advanced Electrical Characterization Facility(Cryo. Prober setup)	IITD Internal	3	3	15000
4	Advanced Electrical Characterization Facility(Cryo. Prober setup)	External Student / Faculty	4	4	40000
5	Advanced Electrical Characterization Facility(DC and Noise Setup)	IITD Internal	1	1	2500
6	AFM(AFM (Force Spectroscopy))	IITD Internal	56	134	67000
7	AFM(AFM (Imaging))	IITD Internal	66	158	79000
8	AFM(AFM (Imaging))	Industrial	1	4	24000
9	Atom Probe Tomography Facility (APT)(LEAP 5000 (3D Atom Probe))	IITD Internal	3	3	3000
10	BET Facility (Sonipat)(Brunauer - Emmett - Teller (BET))	External Student / Faculty	11	23	46000
11	BET Facility (Sonipat)(Brunauer - Emmett - Teller (BET))	IITD Internal	37	88	88000
12	Bio-AFM(Bio-AFM Imaging)	External Student / Faculty	6	9	13500
13	Bio-AFM(Bio-AFM Imaging)	IITD Internal	26	50	25000
14	Cell Biology Lab (Sonipat Campus)(BD FACSAria-III)	IITD Internal	13	36	10800
15	Cell Biology Lab (Sonipat Campus)(Confocal Microscope Leica TCS SP8)	IITD Internal	70	262	91700
16	Confocal Facility(Confocal Microscope)	IITD Internal	56	168	58800
17	Confocal Facility(Confocal Microscope)	External Student / Faculty	1	8	8000
18	Contact Angle Measurement (Drop Shape Analyzer (DMSE Reserve))	IITD Internal	30	101	0
19	Contact Angle Measurement (Drop Shape Analyzer 100)	External Student / Faculty	15	50	20000
20	Contact Angle Measurement (Drop Shape Analyzer 100)	IITD Internal	175	502	75300
21	Contact Angle Measurement (Drop Shape Analyzer 100)	Industrial	3	8	5600
22	CRF Synthesis Lab(GC-MS)	IITD Internal	87	181	18100
23	CRF Synthesis Lab(GC-MS)	Industrial	2	3	3000
24	CRF Synthesis Lab(GC-MS)	External Student / Faculty	49	89	35600
25	EPMA Facility(EPMA 1720HT)	External Student / Faculty	13	13	19500
26	EPMA Facility(EPMA 1720HT)	Industrial	1	2	6000
27	EPMA Facility(EPMA 1720HT)	IITD Internal	47	92	32200
28	EPR Spectroscopy Lab(Electron Paramagnetic Resonance)	External Student / Faculty	28	82	41000
29	EPR Spectroscopy Lab(Electron Paramagnetic Resonance)	IITD Internal	36	147	22050

30	Femto SLCS Lab(Femtosecond Laser Cutting System)	IITD Internal	26	41	41000
31	Femto SLCS Lab(Femtosecond Laser Cutting System)	R&D Institute	5	5	15000
32	FESEM EDX Block-4(FESEM DMSE)	IITD Internal	102	490	0
33	FESEM EDX Block-4(Field Emission SEM)	IITD Internal	665	2518	755400
34	FESEM EDX Block-4(Field Emission SEM)	Industrial	5	19	57000
35	FESEM EDX Block-4(Field Emission SEM)	External Student / Faculty	4	14	17500
36	FESEM EDX Block-4(Field Emission SEM With EDS)	IITD Internal	49	147	58800
37	FESEM EDX Block-4(Field Emission SEM With EDS)	External Student / Faculty	7	21	37800
38	FTIR Lab (CRF Block-5)(FTIR Nicolet IS-50)	R&D Institute	1	4	10000
39	FTIR Lab (CRF Block-5)(FTIR Nicolet IS-50)	IITD Internal	489	1160	348000
40	FTIR Lab (CRF Block-5)(FTIR Nicolet IS-50)	Industrial	1	2	5000
41	FTIR Lab (CRF Block-5)(FTIR Nicolet IS-50)	External Student / Faculty	20	41	30750
42	GLASS BLOWING WORKSHOP(Glass Blowing)	IITD Internal	221	767	38350
43	HR-TEM (Block -VI)(HR-TEM)	IITD Internal	14	6	3000
44	HRTEM Lab KSBS(Cryo HR TEM)	IITD Internal	7	11	66000
45	HRTEM Lab KSBS(Cryo HR TEM)	Industrial	4	5	200000
46	HRTEM Lab KSBS(Cryo HR TEM)	External Student / Faculty	6	9	162000
47	HRTEM Lab KSBS(Cryo HRTEM (Reserved))	IITD Internal	8	14	0
48	HRTEM Lab KSBS(HR TEM)	IITD Internal	451	794	420820
49	HRTEM Lab KSBS(HR TEM)	Industrial	3	5	39000
50	HRTEM Lab KSBS(HR TEM)	External Student / Faculty	58	87	243600
51	HRTEM Lab KSBS(HR TEM KSBS (Premium Slot))	IITD Internal	5	6	6360
52	HRTEM Lab KSBS(HR TEM KSBS (Premium Slot))	External Student / Faculty	4	4	22400
53	ICP MS(ICP MS (Liquid Sample))	IITD Internal	132	1918	479500
54	ICP MS(ICP MS (Liquid Sample))	R&D Institute	2	52	109200
55	ICP MS(ICP MS (Liquid Sample))	External Student / Faculty	37	629	440300
56	ICP MS(ICP MS (Liquid Sample))	Industrial	1	1	2100
57	ICP MS(ICP MS (Solid Sample))	IITD Internal	103	406	162400
58	ICP MS(ICP MS (Solid Sample))	R&D Institute	1	1	2500
59	ICP MS(ICP MS (Solid Sample))	Industrial	5	12	30000
60	ICP MS(ICP MS (Solid Sample))	External Student / Faculty	36	158	158000
61	Ion Milling (Sonipat Campus)(Ion Milling System)	External Student / Faculty	1	3	9000

62	Liquid Nitrogen(Liquid Nitrogen)	IITD Internal	1217	30167	663674
63	Makerspace IITD(3D Printer Training)	IITD Internal	91	76	0
64	Makerspace IITD(3D Printing)	IITD Internal	253	250	0
65	Makerspace IITD(Basic Power Tools Training)	IITD Internal	47	47	0
66	Makerspace IITD(CNC Router Machining)	IITD Internal	23	23	0
67	Makerspace IITD(CNC Router Training)	IITD Internal	45	35	0
68	Makerspace IITD(Laser Cutter Training)	IITD Internal	94	97	0
69	Makerspace IITD(Laser Cutting)	IITD Internal	141	140	0
70	Makerspace IITD(PCB Prototyping)	IITD Internal	23	22	0
71	Makerspace IITD(PCB Station Training)	IITD Internal	83	83	0
72	Makerspace IITD(Power Tools Machining)	IITD Internal	35	35	0
73	Makerspace IITD(Water Jet Cutting)	IITD Internal	145	143	0
74	Makerspace IITD(Waterjet Cutter Training)	IITD Internal	69	69	0
75	Multi-Functional Tribotester(Reciprocatory mode)	External Student / Faculty	5	5	3000
76	Multi-Functional Tribotester(Reciprocatory mode)	IITD Internal	113	136	40800
77	Multi-Functional Tribotester(Rotary mode)	IITD Internal	6	6	1800
78	Multi-Functional Tribotester(Scratch and Indentation Testing)	External Student / Faculty	7	7	4200
79	Multi-Functional Tribotester(Scratch and Indentation Testing)	IITD Internal	85	99	29700
80	NMR Central Facility(NMR 400MHz (Proton))	IITD Internal	773	1188	23760
81	NMR Central Facility(NMR 400MHz (Proton))	External Student / Faculty	11	37	9250
82	NMR Central Facility(NMR 500 Mhz (Multinuclei))	External Student / Faculty	4	7	7000
83	NMR Central Facility(NMR 500 Mhz (Multinuclei))	Industrial	1	1	3000
84	NMR Central Facility(NMR 500 Mhz (Multinuclei))	IITD Internal	731	730	29200
85	NMR Central Facility(NMR 500 MHz (Night Shift 1))	IITD Internal	205	205	10250
86	NMR Central Facility(NMR 500 MHz (Proton))	IITD Internal	1594	2276	68280
87	NMR Central Facility(NMR 500 MHz (Proton))	External Student / Faculty	29	159	39750
88	NMR Central Facility(NMR 500MHz (Proton cum Multinuclear))	External Student / Faculty	1	6	6000
89	Photoluminescence Lab(Time Resolved and Steady State PL)	External Student / Faculty	2	5	5000

90	Photoluminescence Lab(Time Resolved and Steady State PL)	IITD Internal	28	27	13500
91	PPMS Sonipat Campus(PPMS)	IITD Internal	201	204	204000
92	PPMS Sonipat Campus(PPMS)	External Student / Faculty	46	47	117500
93	RF and Microwave Facility(Antenna Test Setup)	External Student / Faculty	1	1	600
94	Rheometer (CRF Sonipat Campus) (Rheometer ARES-G2)	External Student / Faculty	1	5	6000
95	Rheometer (CRF Sonipat Campus) (Rheometer ARES-G2)	IITD Internal	25	42	25200
96	SAXS Sonipat Campus(SAXS Point)	R&D Institute	2	6	3000
97	SAXS Sonipat Campus(SAXS Point)	External Student / Faculty	13	26	13000
98	SAXS Sonipat Campus(SAXS Point)	Industrial	4	15	18000
99	SAXS Sonipat Campus(SAXS Point)	IITD Internal	48	171	34200
100	SEM LAB(EDX)	IITD Internal	191	742	185500
101	SEM LAB(EDX)	Industrial	20	72	180000
102	SEM LAB(EDX)	External Student / Faculty	10	38	38000
103	SEM LAB(FESEM TESCAN)	Industrial	3	8	24000
104	SEM LAB(FESEM TESCAN)	IITD Internal	692	2977	893100
105	SEM LAB(FESEM TESCAN)	External Student / Faculty	11	30	37500
106	SEM LAB(FESEM TESCAN)	R&D Institute	1	4	12000
107	SEM LAB(SEM)	External Student / Faculty	49	197	147750
108	SEM LAB(SEM)	IITD Internal	1398	5732	1003100
109	SEM LAB(SEM)	Industrial	11	37	74000
110	SEM LAB(Ultramicrotome)	IITD Internal	55	78	19500
111	SMITA Research Labs(FESEM)	External Student / Faculty	1	2	2500
112	SMITA Research Labs(FESEM)	IITD Internal	111	443	121825
113	SMITA Research Labs(FESEM-EDX)	IITD Internal	137	395	138250
114	SMITA Research Labs(FESEM-EDX)	External Student / Faculty	1	2	3600
115	SMITA Research Labs(Micro Raman Spectroscope 514 nm)	External Student / Faculty	10	36	21600
116	SMITA Research Labs(Micro Raman Spectroscope 514 nm)	IITD Internal	380	1311	196650
117	SMITA Research Labs(Micro Raman Spectroscope 514 nm)	Industrial	4	25	151250
118	SMITA Research Labs(Micro Raman Spectroscope 785 nm)	IITD Internal	200	720	108000
119	SMITA Research Labs(Micro Raman Spectroscope 785 nm)	External Student / Faculty	1	4	2400
120	SMITA Research Labs(NMR 400MHz Solid Probe)	External Student / Faculty	9	9	45000

121	SMITA Research Labs(NMR 400MHz Solid Probe)	IITD Internal	116	116	110200
122	SQUID Lab(SQUID Magnetometer)	IITD Internal	107	107	107000
123	SQUID Lab(SQUID Magnetometer)	External Student / Faculty	19	19	38000
124	TEM Grids Central Facility(Carbon Coated Copper Grid)	IITD Internal	451	873	436500
125	TEM Grids Central Facility(Carbon Coated Nickel Grid)	IITD Internal	138	284	142000
126	TEM Grids Central Facility(Holey Carbon Copper Grid)	IITD Internal	3	6	3000
127	TEM Lab (EX Hall)(TEM (CPSE))	IITD Internal	505	999	274725
128	TEM Lab (EX Hall)(TEM (CPSE))	External Student / Faculty	9	18	36000
129	TEM Lab (EX Hall)(TEM (CPSE))	Industrial	2	4	18000
130	TEM Lab (EX Hall)(TEM (CRF))	IITD Internal	612	1034	284350
131	TEM Lab (EX Hall)(TEM (CRF))	Industrial	1	2	9000
132	TEM Lab (EX Hall)(TEM (CRF))	External Student / Faculty	14	26	52000
133	TEM Lab (EX Hall)(TEM (CRF))	R&D Institute	2	3	13500
134	TEM Lab (EX Hall)(TEM (DMSE Pre reserved))	IITD Internal	31	62	0
135	Thermal Series Sonipat Campus(Differential Scanning Calorimeter DSC2500)	IITD Internal	73	121	121000
136	Thermal Series Sonipat Campus(Differential Scanning Calorimeter DSC2500)	External Student / Faculty	5	7	14000
137	Thermal Series Sonipat Campus(Differential Scanning Calorimeter DSC2500)	R&D Institute	3	5	10000
138	Thermal Series Sonipat Campus(Simultaneous Thermal Analyzer SDT650)	External Student / Faculty	29	56	56000
139	Thermal Series Sonipat Campus(Simultaneous Thermal Analyzer SDT650)	R&D Institute	5	5	5000
140	Thermal Series Sonipat Campus(Simultaneous Thermal Analyzer SDT650)	IITD Internal	238	321	160500
141	UTM (Sonipat Campus)(UTM Z010 (Static))	External Student / Faculty	15	93	46500
142	UTM (Sonipat Campus)(UTM Z010 (Static))	Industrial	1	12	12000
143	UTM (Sonipat Campus)(UTM Z010 (Static))	R&D Institute	2	24	12000
144	UTM (Sonipat Campus)(UTM Z010 (Static))	IITD Internal	32	312	62400
145	XPS Sonipat Campus(AXIS Supra)	IITD Internal	130	252	126000
146	XPS Sonipat Campus(AXIS Supra)	External Student / Faculty	31	61	91500
147	XRD Lab Textile(XRD -Textile)	IITD Internal	294	626	109550
148	XRD Lab Textile(XRD -Textile)	Industrial	3	6	9000

149	XRD Lab Textile(XRD -Textile)	External Student / Faculty	26	50	25000
150	XRD Sonipat Campus(Gonio (theta /2 theta))	IITD Internal	43	88	44000
151	XRD Sonipat Campus(Gonio (theta /2 theta))	External Student / Faculty	5	3	3600
152	XRD Sonipat Campus(HRXRD-(GIXRD/XRR/PHI/ OMEGA-ROCKING))	IITD Internal	15	20	10000
153	XRD Sonipat Campus(HRXRD-(GIXRD/XRR/PHI/ OMEGA-ROCKING))	External Student / Faculty	2	3	3600
154	XRD Sonipat Campus(Residual Stress/Texture (Pole Figure))	IITD Internal	5	7	7000
155	XRD Sonipat Campus(XRD Empyrean)	IITD Internal	99	257	44975
156	XRD Sonipat Campus(XRD Empyrean)	External Student / Faculty	12	33	16500
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