

# Advanced Machines and Sophisticated Analytical Instruments Facilities

## Testing and Consultancy charges

S.No	Facilities	University Depts/Centre	Other Academic Institutions	Industry, Funded project & others
1.	Surface Roughness Tester (contact type)	Rs.200/- for first 10 measurements and part there of Rs.50.0 for every additional measurement	Rs.550/- for 5 measurements and part there of Rs.100/- for every additional measurement	Rs.1000/ for 5 measurements and part thereof Rs.200/- for every additional measurement.
2.	CNC CMM and 3D Laser Scanner	Rs.400/ hr (Including setting time)	Rs.500/ hr (Including setting time)	Rs.800/ hr (Including setting time)
3.	VMS (Video Measuring Machine)	Rs.250 for first 10 measurements and part there of Rs.5/- for every additional measurement.	Rs.350/- for 5 measurements and part there of Rs.100/- for every additional measurement	Rs.600/- for 5 measurements and part thereof Rs.150/- for every additional measurement.
4.	Non Contact Surface Roughness Tester	Rs.350/- per measurement up to 10 measurements and part there of Rs.50/- for every additional measurement	Rs.750/- per measurements up to 10 measurements and part there of Rs.100/- for every additional measurement	Rs.3000/- per measurements up to 10 measurements and part there of Rs.200/- for every additional measurement
5.	Chemical Vapour Deposition equipment  Flow / inert gas to be arranged by separately	Rs.1000/- for 6 hr and part thereof Rs.500 for additional 2 hr	Rs.1500/- for 6 hr and part thereof Rs.750 for additional 2 hr	Rs.2500/- for 6hr and part thereof Rs.1250 for additional 2 hr
6.	Stir Casting Facility  (Stirrer and Crucible arranges separately)	Rs.1000/- per casting  (Maximum 1 Kg)	Rs.1500/- per casting  (Maximum 1 Kg)	Rs.2000/- per casting  (Maximum 1 Kg)
7.	Stir Casting Facility with ultrasonic Cavitation  (Stirrer and Crucible arranges separately)	Rs.1500/- per casting	Rs.2000/- per casting	Rs.2500/- per casting
8.	High Energy Ball Mill of 4 station	Rs.200/ hr	Rs.400/ hr	Rs.500/ hr
9.	3D Printing Machine	Rs.100/hr	Rs.300/hr	Rs.700/hr

	(STRATASYS $\mu$ Print)			
10.	Muffle furnace (1000°C)	Rs.500/ hr (soaking) and part thereof	Rs.750/ hr(soaking) and part thereof	Rs.1000/ hr (soaking)and part thereof
11.	Tubular Furnace 1200°C) Flow / inert gas to be arranged by separately	Rs.600/ hr (soaking) and part thereof	Rs.1000/ hr and part thereof	Rs.1500/ hr and part thereof
12.	High Temperature furnace 1600°C	Rs.1000 per soaking hr	Rs.1500/- per soaking hr	Rs.2500/- per soaking hr
13.	Electro chemical Micro machine	Rs.1100/ hr (Including setting time)	Rs.1600/ hr (Including setting time)	Rs.2200/ hr (Including setting time)
14.	Abrasive Water Jet Machine	Rs.1600/ hr (Including setting & Programming time)	Rs.2100/ hr (Including setting & programming time)	Rs.2600/ hr (Including setting & programming time)
15.	CNC Wire EDM	Rs.250/- per hour (Including setting & programming time)	Rs.350/- per hour (Including setting & programming time)	Rs.600/ hr (Including setting & programming time)
16.	4 Axes CNC Machining centre	Rs.600/ hr (Including setting & programming time)	Rs.800/hr (Including setting & programming time)	Rs.1000/hr (Including setting & programming time)
17.	5 Axes CNC Machining centre	Rs.700/ hr (Including setting & programming time)	Rs.1000/hr (Including setting & programming time)	Rs.1200/hr (Including setting & programming time)
18.	CNC turning centre	Rs.300/hr(Including & programming setting time)	Rs.500/hr (Including & programming setting time)	Rs.1000/hr (Including setting & programming time)
19.	Ultrasonic Machining	Rs.300/ hr (Including setting time)	Rs.500/ hr (Including setting time)	Rs.800/hr (Including setting time)
20.	Ultrasonic welding	Rs.300/ hr (Including setting time)	Rs.500/ hr (Including setting time)	Rs.800/hr (Including setting time)
21.	CNC Power press brake	Rs.2000 hr	Rs.2500/hr	Rs.3500/hr

		(Including setting time) and part thereof	(Including setting time) and part thereof	(Including setting time) and part thereof
22.	Hydraulic press (100 Ton)	Rs.300/- per specimen	Rs.350/- per specimen	Rs.600/- per specimen
23.	CNC controlled hydraulic press (40 ton capacity)	Rs.600/- per specimen	Rs.800/ per specimen	Rs.1200/ per specimen
24.	TIG Welding Machine (Inert gas and other items to be arranged separately)	Rs.2000/hr (and part thereof)	Rs.2500/hr and part thereof)	Rs.3500/hr (and part thereof)
25.	MIG Welding Machine (Inert gas , Electrodes to be arranged separately)	Rs.2000/hr (and part thereof)	Rs.2500/hr (and part thereof)	Rs.3500/hr (and part thereof)
26.	6-Axes robot Welding (Inert gas , Electrodes to be arranged separately)	Rs.2000/hr (Including setting & programming time and part thereof)	Rs.2000/hr (Including setting & programming time and part thereof)	Rs.2000/hr (Including setting & programming time and part thereof)
27.	Vision system	Rs.600/10 readings and part thereof	Rs.800/ - 10 readings and part thereof	Rs.1200/ - 10 readings and part thereof
28.	Two high rolling machines	500/hr	1000/hr	1500/hr
29.	Squeeze casting	1000/hr	1500/hr	2500/hr
30.	Super plastic Forming	1000/hr	1500/hr	2500/hr
31.	Universal testing machine(50kN)	100/sample	150/sample	250/sample
32.	Compression moulding(150 ton)	500/mould	1000/mould	2000/mould
33.	Microwave furnace	500/30min	1000/30min	2000/30min
34.	Twin screw extruder	1000/hr	2000/hr	3000/hr
35.	Injection moulding	750/hr	1500/hr	5000/hr
36.	CNC injection moulding	1500/hr	3000/hr	6000/hr
37.	Grid analyser	250 Rs for first 10 measurements	350 Rs for first 5 measurements	600 for first 5 measurements
38.	Micro Vickers hardness	250 Rs for first 10 measurements	350 Rs for first 5 measurements	600 Rs for first 5 measurements

39.	CNC die sinking EDM	250/hr	350/hr	600/hr
40.	Friction stir welding	Rs 700 Per Sample	Rs 700 Per Sample	1500/- Per Sample
41.	CNC-Incremental Forming	Rs 400 Per Hour	Rs 400 Per Hour	800/- Per Hour

### **Mode of Payment**

#### **Testing Charges + 18% GST**

The DD must be drawn in favour of

"The Director,

Centre for Technology Development and Transfer (CTDT),

Anna University, Chennai - 600 025."