

INDIA OPTEL LIMITED's TESTING FACILITIES FOR PRIVATE ENTITIES

1. UNIT: OPTO ELECTRONICS FACTORY, DEHRADUN

ENV TESTING DETAILS

Sl. No.	Test Facility	Test/Specifications	Material to be tested	Rate in Rs.
1.	Hot & Cold Chambers	Chamber Work Space/Size : 95 cm x 110 cm x 95 cm Capacity : 1000 liters Testing Range : - 40°C +120°C (cooling and heating Rate-2 degree / minute)	-	2000/hr/Item
2.	Hot & Cold Chambers	Chamber Work Space/Size : 3000 mm x 2000 mm x 2000 mm Capacity : 12000 liters Testing Range : - 70°C +120°C (cooling and heating Rate-2 degree / minute)	-	2500/hr/Item
3.	Hot & Cold Chambers	Chamber Work Space/Size : 1220mmX1220mmX1220mm Capacity : 1815 liters Testing Range : - 70°C +190°C (cooling and heating Rate-10 degree / minute)		3500/hr/Item
4.	Thermal Shock Chambers	Chamber Work Space/Size : 1000 mm x 1000 mm x 1000 mm Capacity : 1000 liters Temperature : - 50°C to +120°C	-	3500/hr/Item
5.	Humidity test	Chamber Work Space/Size : 1000 mm x 1000 mm x 1000 mm Capacity : 1000 liters Temperature : +20°C to +60°C Humidity RH 30% TO 98%		2000/hr/Item
6.	RAIN TEST	Chamber Work Space/Size : 1000 mm x 1000 mm x 1000 mm Capacity : 1000 liters Temperature: Room temperature		2000/hr/Item
7.	SALT SPRAY	Chamber Work Space/Size : Capacity : 1000 liters Temperature : +35°C to +40°C Humidity RH- 92-95%		2000/hr/Item
8.	3-D Vibration Testing	Maximum load capacity = 150 Kg at 10 'g'		3000/hr/Item
9.	Vertical Vibration testing	Maximum load capacity = 40 Kg at 10 'g'		1800/hr/Item
10.	Vertical	Maximum load capacity =		3000/hr/Item

	Vibration testing	200 Kg at 10 'g'		
11.	Vertical Impact Testing Machine	Maximum load capacity = 250 Kg at 50 'g' (Max. speed 180 Impact / minute)		100/impt/Item
12.	Vertical Impact Testing Machine	Maximum load capacity = 250 Kg at 100 'g' (Max. speed 180 Impact / minute)		200/impt/Item
13.	Vertical Impact Testing Machine	Maximum load capacity = 250 Kg at 150 'g' (Max. speed 180 Impact / minute)		300/impt/Item
14.	3-D Impact Testing	Maximum load capacity = 150 Kg at 50 'g'		400/impt/Item
15.	Dust testing	Chamber Work Space/Size : Capacity : 1000 liters Temperature : +5°C to +75°C Humidity RH ≤ 50%		3000/hr/Item
16.	Leak Test (nitrogen)	Maximum 1.0 Kg/cm ²		200/minute/Item
17.	Leak Test (dry air)	Maximum 1.0 Kg/cm ²		100/minute/Item
18.	Night vision device testing (Dark tunnel)	Testing facility available from 0.7 mili lux. Distance from 40 meters to 200 meters		1800/device
19.	Hardness test			500/test/Item
20.	Resolving power Test			1000/component
21.	focal length test	100 mm to 1000 mm		900/Component
22.	Theodolite Calibration	Angle measurement (1 to 360°)		18284/Item
23.	Light transmission test	From 4000 nm to 7000 nm		1500/component 5000/device
24.	Diopter tests for lens	From ± 0.5 diopter to ± 5.0 diopter		5482/Set
25.	Light Transmission Test	Light Transmission (4000 nm to 7000 nm)	Optics	1500/Component
26.			Device	5000/Device

2. UNIT: ORDNANCE FACTORY DEHRADUN

Sl. No.	Test facility	TEST/SPECIFICATION	MATERIAL TO BE TESTED	Rate excluding GST
1	Spectrometer (Chemical Analysis of Material - Fe, Al, Cu)	(As per ISO/IEC 17025:2017) Fe - ASTM E 415 Al - ASTM E 1251 Cu - BSEN 15079	Raw Materials and its Components	Rs.600 per sample
2	Hot chamber	JSS: 5855:2019	Devices and components	Rs. 900/hour
3	Cold Chamber	JSS: 5855:2019	Devices and components	Rs. 900/hour
4	Bump Test	JSS: 5855:2019	Devices and components	Rs. 20/bump
5	Vibration test	JSS: 5855:2019	Devices and components	Rs. 3000/hour
6	Rain Test	JSS: 5855:2019	Devices and components	Rs. 900/hour

3. UNIT: ORDNANCE FACTORY CHANDIGARH

S. No.	TEST FACILITY	TEST/SPECIFICATIONS	MATERIAL TO BE TESTED	RATE in Rs. (Excluding GST)
1	UNIVERSAL TENSILE STRENGTH (100 KN)	Tensile Strength and Elongation %	Metal wires and Insulated Cables	1300/Sample
2	IZOD TESTING MACHINE (20 Kgf)	Tensile Strength and Elongation %	Cable Insulation	1000/Sample
3	COMPRESSION TESTING MACHINE (1000Kgf)	Compression Strength	Insulated Cables	1000/Sample
4	TORSION TEST	Torsion Strength	Metal Wires	800/Sample
5	ENVIRONMENT CHAMBER (-) 40 °C to (+) 180 °C RH 20% to 98%	Extreme Hot & Cold Conditioning Chamber size (1 x 1 x 1) Mtr	Optics, Cables, and Cable Harnesses	2000/Hr. Max. wt 50 Kg
6	THERMAL SHOCK CHAMBER (-) 70 °C to (+) 200 °C, RH 95%	Extreme Hot & Cold Conditioning Chamber size (1 x 1 x 1) Mtr		2200/Hr. Max. wt 50 Kg
7	HIGH VOLTAGE TEST	DC: 12 KV and AC: 6 KV	Insulated Cables	1200/Sample
		AC: 18 KV		1100/Sample
		AC: up to 4.4 KV		1100/Sample
8	DIGITAL INSULATTION TESTER	DC 500V TO 5000V Resistance 0.1mΩ to 10TΩ	Insulated Cables, Cable harness and optical devices	1100/Sample
9		DC VOLTAGE: 50V Upto 1000V RESI. - 1MΩ- 200GΩ		1100/sample
10	L C R METER, E4980AL (20 Hz to 1 MHz)	Attenuation & Characteristic Impedance	Communication Cables i.e. Insulated cables	1100/Sample, Per Parameter
11	HOT AIR OVEN	Up to 200 °C , Chamber size (0.6 x 0.6 x 0.6) Mtr. Approx.	Insulated Cables etc.	1250/Hrs, Max. wt. 30 Kg
12	MUTUAL CAPACITANCE	Up to 30 KHz Frequency	Communication Cables	1100/sample
13	LEAKAGE BRIDGE (MUTUAL CAPACITANCE)	Capacitance 1100000pf	Communication Cables	1100/Sample
14	TEMPERATURE MEASUREMENT	Up to 360 °C	--	500/Sample
15	MELT FLOW INDEX	Polymers up to 300 °C	Polymers	1100/Sample
16	CONDUCTOR RESISTANCE (WHEATSTONE BRIDGE)	0.001 Ω to 10 MΩ	Copper conductors	1100/Sample
17	VIBRATION TESTER	Vibration Test , Wt. 350Kg, Freq.- 50 Hz to 3 KHz	Optical devices	1200/Hrs Per sample (Fixture to be provided)
18	BUMP TESTER WITH IMPACT	0-9999 COUNT.- 10g to 50g	Optical devices	
19	ELECTROSTATIC CAP.UNBALANCE TESTER	Freq.- 800 HZ/ 1000HzCapacitance 1999pf /19.99NF	Communication Cable	1100/sample
20	OPTICAL TRANSMISSION	0 to 100%	Optical devices	1100/sample
21	MULTI-METER (Conductor Resistance)	DC/AC Volt 600 MV-1000V DC/AC current 60MA-10A Resistance 600Ω to 50MΩ	Cable, Cable Harnesses & Optical Devices	500/sample