

Calibration Charges: Sub-div#2.01 LF, HF Impedance & DC Metrology (w.e.f. 01.04.2023)

DC Voltage, DC Current, DC Resistance & DC Charge

Sl. No.	Parameter	Item Type / Group	Item Name	Alias Name	Range	No of points for calibration	Revised Charges as per CSIR guidelines	Additional Charges Rs.	Description for Additional Charges
1	DC Voltage	DC voltage source	Nanoscan DC Voltage Standard	Zener Reference Standard	1, 1.018 & 10V	1 to 2 points	95590	26136	For each additional 1 point
2	DC Current	DC current source	Transconductance Amplifier (up to 20A)		1 microA to 20 A	3 points (one range)	71390	14883	For each additional 3 point
3	DC Current	DC current source	Transconductance Amplifier		1 microA to 100 A	3 points (one range)	95590	14883	For each additional 3 point
4	DC Resistance	DC standard Resistor/ DC Resistance source	Fixed Value Resistor and high Current Shunt		0.1 $\mu\Omega$ to 1 T Ω	one point (for each volt/ current) Current range up to 2000A, Voltage range up to 1000V & Resistance upto 1 G Ω	36300	36300	For each additional 1 point
5	DC Resistance	High resistance meter		High resistance meter	10 $\mu\Omega$ to 1T Ω	3 points (one range)	95590	14883	
6	DC Voltage, Current & Resistance	DC Voltage, Current & Resistance source	DC Calibrator 7½ digit & above	Calibrator	10 μ V to 1 kV, 1 μ A to 20A, 1 Ω to 10 G Ω	3 points (one range)	127897	14883	For each additional 3 points in one range
7	DC Voltage, Current & Resistance	DC Voltage, Current & Resistance meter	Digital Multimeter 7½ digit & above	DMM	10 μ V to 1 kV, 1 μ A to 20A, 1 Ω to 10 G Ω	3 points (one range)	127897	14883	For each additional 3 points in one range
8	DC current	DC Current source /meter	current source/pico ammeter/ electrometer		1pA to 10 mA	3 points per range	62920	9680	For each additional 3 points in one range
9	DC Charge	Charge amplifier	Electrometer/ charge amplifier		100 pC to 2 μ C	3 points per range	62920	9680	For each additional 3 points in one range
10	DC Charge	Charge Amplifier	coloumb meter		2 μ C to 1 nC		21780		
11	DC Voltage, Current & Resistance	DC Voltmeter	Nano voltmeter		100 nV to 100V	3 points per range	41140	7744	For each additional 3 points in one range
12	DC current	DC Current source	current coil		0 to 20A		20570		
13	DC voltage & current	DC voltage & current source	DC power supply		up to 1000V & 20A		16940		
14	DC & AC Voltage, current & resistance	DC & AC Voltage, current & Resistance Meter	Digital multimeter 6 & 1/2 digit	DMM	DC Parameters: 10 mV - 1 kV, 1 A - 20 A, 1 Ω to -100 M Ω AC parameters: 1 mV - 1000 V (10 Hz - 1 MHz), 1 mA - 20 A (40 Hz - 10 kHz)	In DC : 3 points (in each range) In AC : 3 frequency points and at each frequency - 3 Voltage and 3 Current levels covering the entire range of DUC	18634	1815	For each additional 3 points in one range
15	AC/DC Voltage AC/DC Current, Frequency, DC Resistance, Capacitance, RTD, Thermocouple	DC Voltage, Current & Resistance source	Multiproduct/multifunction Calibrator 6½ digit	Calibrator	10 μ V to 1 kV, 1 μ A to 20A, 1 Ω to 10 G Ω	In DC : 3 points for voltage and current (one range) DC resistance in decade values In AC : Seven levels @ 3 frequencies Seven points in frequency	71616	10890	For each additional frequency or points
16	DC Voltage, Current, Resistance, RTD, Thermocouple	DC Voltage, Current & Resistance source & measure	Hand Held Calibrator 5 & 1/2 digit and 4 & 1/2	Hand Held Multi function calibrator	10 μ V to 1 kV, 1 μ A to 20A, 1 Ω to 10 G Ω	At discrete points	40924	1210	For each points
17	Thermocouple	DC voltage simulation method, source and measure	Hand held thermometers and thermal indicators		10 μ V to 10V	At discrete points	25740		