

**Calibration Charges: D6.02b, LF & HF Voltage, Current and Microwave Metrology (w.e.f. 01.04.2021)**

**Frequency, RF Voltage, Microwave Power, Effective Efficiency, Calibration Factor, Voltage Amplitude, AC Voltage & Frequency and Voltage Amplitude & Frequency**

Sl. No.	Parameter	Item Type / Group	Item Name	Alias Name	Range	No. of Points for Calibration	Limitation / Condition	*Present Charges per Item Rs.	*Present Additional Charges Rs.	Description for Additional Charges	Remarks, if any
1	Frequency	Frequency Counter	Frequency Counter	Frequency meter		6 Frequency points for Frequency / Period	Stability >1.0E-8	41500	6200	For each additional frequency	For 'Basic Oscillator' calibration of this counter, see "Time & Frequency" Parameter
2	Frequency	Frequency Counter	Universal Counter			6 Freq. points for Frequency / Period & Time Interval		57300	9200	For each additional frequency	
3	RF Voltage	Voltmeter	Selective Microvoltmeter	Level Meter	Up to 1000 MHz	6 Frequencies with 50 ohm Input Impedance		89700	13800	For each additional frequency	
4	RF Voltage	Voltmeter	RF Millivoltmeter		Up to 1000 MHz	6 Frequencies per probe		89700	24500	For each additional probe	
5	RF Power & Frequency	Signal Generator	Synthesizer	Sweep Oscillator	1 MHz to 18 GHz	5 frequencies for Power Level, Time Base Accuracy & Frequency Response	Type N connector	89700	9200	For each additional frequency	
6	RF Power & Frequency	Spectrum Analyser	Spectrum Analyser	Wave Analyser	1 MHz to 18 GHz	5 frequencies for Power Level, Time Base Accuracy & Frequency Response	Type N connector	89700	9200	For each additional frequency	
7	Effective Efficiency / Calibration Factor / RF Power	Power Meter	RF Power Meter with Sensor		1 MHz to 18 GHz	3 Frequencies with one Sensor (Effective Efficiency/ Calibration Factor/ RF Power)	Type N connector	30900	9200	For each additional frequency	(For VSWR, separate charges under VSWR/reflection coefficient parameter)
8	Effective Efficiency / Calibration Factor	Coaxial Thermistor Mount	Coaxial Thermistor Mount	Power Mount	1 MHz to 18 GHz	1 Frequency	Type N connector	61500	20200	For each additional frequency	(For VSWR, separate charges under VSWR/reflection coefficient parameter)
9	Effective Efficiency / Calibration Factor	RF Power Transfer Standard	RF Power Transfer Standard		1 MHz to 18 GHz	1 Frequency	Type N connector	18800	17800	For each additional frequency	(For VSWR, separate charges under VSWR/reflection coefficient parameter)
10	Effective Efficiency / Calibration Factor	RF Power Transfer Standard	RF Power Transfer Standard		1 MHz to 50 GHz	2 Frequency	2.4mm connector	81400	40700	For each additional frequency	(For VSWR, separate charges under VSWR/reflection coefficient parameter)
11	Effective Efficiency / Calibration Factor / RF Power	Power Meter with sensor	RF Power Meter with Sensor		1 MHz to 50 GHz	3 Frequencies with one Sensor (Effective Efficiency/ Calibration Factor/ RF Power)	2.4mm connector	44600	14900	For each additional frequency	(For VSWR, separate charges under VSWR/reflection coefficient parameter)
12	AC & DC Voltage and Current at different configuration, Line Frequency, GPS Validation.	PMU CAL System/	Phasor Measurement Unit Calibrator System/	PMU-CAL	ACV~1000V ACC~20A DCV~150 DCC~5A GPS Lime Freq	Full Calibration @ pre selected points	Congiguration of System at CSIR-NPL should be done by USER	1200000		For each additional frequency	
13	TVE, FE, RoFE	PMU - M class	Phasor Measurement Unit (M Class)	PMU	50V to 150V 1A to 5A 50/60 Hz 25/50 fps	One Level /class/reporting rate	Congiguration of PMU at CSIR-NPL should be done by USER	15400	15400	For each additional frequency	

14	TVE, FE, RoFE	PMU - P class	Phasor Measurement Unit (P Class)	PMU	50V to 150V 1A to 5A 50/60 Hz 25/50 fps	One Level /class/reporting rate	<b>Configuration of PMU at CSIR-NPL should be done by USER</b>	<b>15400</b>	<b>15400</b>	For each additional frequency	
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