

Laboratory **Electronics Calibration Lab, Hindustan Aeronautics Ltd., Avionics Division, Tehsil: Amethi, Post HAL Korwa, Distt. Amethi, Uttar Pradesh**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **CC-2629**

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Validity **22.03.2018 to 21.03.2020**

Last Amended on **-**

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>ELECTRO-TECHNICAL CALIBRATION</u>				
I.	SOURCE			
1.	DC Voltage ^s	10 mV to 100 mV 100 mV to 10 V 10 V to 1000 V	0.10 % to 0.002 % 0.002 % to 0.001 % 0.001	Using Multi Product Calibrator Fluke 5720A by Direct Method
2.	DC Current ^s	10 mA to 3 A	0.007 % to 0.072 %	Using Multi Product Calibrator Fluke 5720A with Amplifier Fluke 5725A by Direct Method
3.	DC Resistance ^s (2 Wire)	1 Ω to 100 M Ω	0.13 % to 0.10 %	Using Multi Product Calibrator Fluke 5720A by Direct Method
4.	AC Voltage ^s	50 Hz to 1 kHz 100 mV to 1 V 1 V to 750 V	0.023 % to 0.01 % 0.01 % to 0.054 %	Using Multi Product Calibrator Fluke 5720A by Direct Method
5.	AC Current ^s	50 Hz to 1 KHz 100 mA to 3 A	0.03 % to 0.07 %	Multi Product Calibrator Fluke 5720A with Amplifier Fluke 5725A by Direct Method
6.	DC Capacitance ^s	1 kHz 1000 pF 0.01 μ F 0.1 μ F 1 μ F	0.15 % 0.26 % 0.07 % 0.065 %	Using GR Standard (Discrete Values) by Direct Method

Rajeshwar Kumar
Convenor

Avijit Das
Program Director

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
7.	Inductance [§]	1 kHz 0.1 mH 1 mH 10 mH 100 mH	0.42 % to 0.40 %	Using Tinsley Inductors (Discrete Values) by Direct Method
8.	Frequency [§]	1 MHz 5 MHz 10 MHz	7.39E-07 3.69E-06 1.97E-05	Using Rubidium Frequency Standard by Direct Method
9.	Pulse Width [§]	10 kHz to 1 MHz 10 ns to 100 ns	8 %	Using Oscilloscope Calibrator Fluke 9500B by Direct Method

* Measurement Capability is expressed as an uncertainty (\pm) at a confidence probability of 95%

[§] Only in Permanent Laboratory

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