



# NABL

**Department of Science & Technology, India**

## SCOPE OF ACCREDITATION

Laboratory	Belz Calibration Laboratory, 5L-123, N.I.T., Faridabad		
Accreditation Standard	ISO/IEC 17025:2005		
Field	Electro-Technical Calibration	Issue Date	27.04.2011
Certificate Number	C-0158	Valid Until	27.06.2012
Last Amended on	-	Page	4 of 8

Measured Qty / Instrument	Range	*Calibration Measurement Capability ( $\pm$ )	Remarks
14. AC CURRENT	50 Hz 10 $\mu$ A to 100mA 100mA to 10A	1.17% to 1.51% 1.2% to 1.8%	Using 6 $\frac{1}{2}$ DMM & Micro ohm meter by Comparison/Direct method & V * I method
15. RESISTANCE	1 m $\Omega$ to 1 $\Omega$ 1 $\Omega$ to 10 $\Omega$ 10 $\Omega$ to 1 M $\Omega$ 1 M $\Omega$ to 100 M $\Omega$	0.65% to 0.5% 0.5% to 0.06% 0.06% to 0.13% 0.13% to 0.2%	Using Digital Micro-Ohm Meter Using 6 $\frac{1}{2}$ DMM by Comparison /Direct method
16. AC RESISTANCE	1 kHz 1 $\Omega$ to 1 k $\Omega$ 1 k $\Omega$ to 1 M $\Omega$	0.1% to 0.09% 0.09% to 0.10%	Using Digital LCR Meter
17. FREQUENCY	10 Hz to 1MHz	0.06%	Using 6 $\frac{1}{2}$ DMM
18. CAPACITANCE	1kHz 1nF to 3.3 $\mu$ F	0.08% to 0.15%	Using Digital LCR Meter
19. INDUCTANCE	100 Hz, 1kHz 100 $\mu$ H to 1H	0.15% to 0.8%	Using Digital LCR Meter & Standard Inductance Box
20. ENERGY (1 $\Phi$ , 3 $\Phi$ , 50 Hz) UPF to 0.5PF (Lag/Lead)	Voltage 240V Current 1A/5A	1.0%	Using Power / Energy Meter Accucheck & Power Source by Comparison /Direct method

Convenor