



# NABL

**Department of Science & Technology, India**

## SCOPE OF ACCREDITATION

Laboratory	Belz Calibration Laboratory, 5L-123, N.I.T., Faridabad	Issue Date	27.04.2011
Accreditation Standard	ISO/IEC 17025:2005	Valid Until	27.06.2012
Field	Electro-Technical Calibration	Page	6 of 8
Certificate Number	C-0158		
Last Amended on	-		

Measured Qty / Instrument	Range	*Calibration Measurement Capability ( $\pm$ )	Remarks
5. RESISTANCE	1 $\Omega$ to 1M $\Omega$ 20M $\Omega$ to 200M $\Omega$	1.16% to 0.2% 3.48%	Using Deade resistance box with Mega ohm box by direct method
6. FREQUENCY	40Hz to 1000Hz	0.62% to 0.21%	Using multifunction calibrator "Zeal" by Direct method
7. TEMPERATURE SIMULATION (INDICATOR/ CONTROLLER/ RECORDER)			
RTD Type	-200 $^{\circ}$ C to 800 $^{\circ}$ C	0.63 $^{\circ}$ C	Using Universal calibrator masibus by simulation/ direct method
'T' Type T/C	-160 $^{\circ}$ C to 400 $^{\circ}$ C	0.84 $^{\circ}$ C	
'S' Type T/C	200 $^{\circ}$ C to 1700 $^{\circ}$ C	1.42C	
'J' Type T/C	0 $^{\circ}$ C to 760 $^{\circ}$ C	0.65 $^{\circ}$ C	
'K' Type T/C	0 $^{\circ}$ C to 1370 $^{\circ}$ C	1.1 $^{\circ}$ C	
'R' Type T/C	200 $^{\circ}$ C to 1700 $^{\circ}$ C	1.42C	
<b><u>MEASURE</u></b>			
8. DC VOLTAGE	1mV to 10V 10V to 1000V	0.43% to 0.06% 0.06% to 0.02%	Using 6 $\frac{1}{2}$ DMM by Comparison /Direct method
9. DC CURRENT	5 $\mu$ A to 10 mA 10mA to 3A 3A to 10A 10A to 800A	1.23% to 0.6% 0.6% to 0.2% 0.2% to 0.6% 0.6% to 2.5%	Using 6 $\frac{1}{2}$ DMM Using Digital Clamp Meter Fluke

Convenor