National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)

CERTIFICATE OF ACCREDITATION

WIKA INSTRUMENTS INDIA PVT. LTD

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2005

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

Plot No. 40, Gat No. 94 + 100, Hi-Cliff Industrial Estate, Kesnand,
Pune, Maharashtra

in the field of

CALIBRATION

Certificate Number CC-2452 *(in lieu of C-0133)*

Issue Date 15/11/2017 **Valid Until** 14/11/2019

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Signed for and on behalf of NABL

Avijit Das
Program Director

8907697020002000175

Anil Relia
Chief Executive Officer

National Accreditation Board for Testing and Calibration Laboratories

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SCOPE OF ACCREDITATION

Laboratory	**Wika Instruments India Pvt. Ltd., Plot No. 40, Gat No. 94 + 100, Hi-Cliff Industrial Estate, Kesnand, Pune, Maharashtra**
Accreditation Standard	**ISO/IEC 17025: 2005**
Certificate Number	**CC-2452** ***(In lieu of C-0133)*** **Page 1 of 6**
Validity	**15.11.2017 to 14.11.2019** **Last Amended on -**

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
		MECHANICAL CALIBRATION		
I.	**PRESSURE INDICATING DEVICES**			
1.	Pressure (Hydraulic) Dead Wt. Testers- Characterization $	6 bar to 60 bar >60 bar to 100 bar >100 bar to 400 ba >400 bar to 1200 bar >1200 bar to 5000 bar	0.009% of Rdg 0.009% of Rdg 0.009% of Rdg 0.009% of Rdg 0.026% of Rdg	Using Hydraulic Dead Wt. Testers CPB 5000 & CPB 5000 HP By Cross Float Method based on Euramet cg3
2.	Pressure (Hydraulic) Digital Pressure Gauges/ Analog Gauges, Pressure Transmitters, Pressure Switches$	6 bar to 60 bar >60 bar to 100 bar >100 bar to 400 bar >400 bar to 1200 bar >1200 bar to 5000 bar	0.009% of Rdg 0.01% of Rdg 0.009% of Rdg 0.01% of Rdg 0.026% of Rdg	Using Hydraulic Dead Wt. Testers CPB 5000 & CPB 5000 HP By Direct method Based on DKD-R-6-1
3.	Pressure (Pneumatic) Dead Wt. Testers- Characterization $	0.17 bar to 1.7 bar >1.7 bar to 7 bar >7 bar to 70 bar >70 bar to 100 bar	0.004% of Rdg 0.004% of Rdg 0.005% of Rdg 0.009% of Rdg	Using Dead Wt. Testers RUSKA 2465 & WIKA CPB 5000 By Cross Float Method based on Euramet cg3
4.	Pressure (Pneumatic) Digital Pressure Gauges/ Analog Gauges, Pressure Transmitters, Pressure Switches$	0.015 bar to 0.15 bar >0.15 bar to 1.7 bar >1.7 bar to 7 bar >7 bar to 70 bar >70 bar to 400 bar	0.04% of Rdg 0.006% of Rdg 0.003% of Rdg 0.003% of Rdg 0.009% of Rdg	Using Dead Wt. Testers RUSKA 2465 & WIKA CPB 5000 By Direct method Based on DKD-R-6-1

Ashish Kakran
Convenor

Avijit Das
Program Director

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
5.	(Absolute Pressure) Digital Pressure Gauges/ Analog Gauges, Manometers Pressure Transmitters, Pressure Switches[$]	0.015 to 0.15 bar >0.15 to 1.7 bar >1.7 to 7 bar >7 to 70 bar	0.04% of Rdg 0.006% of Rdg 0.003% of Rdg 0.003% of Rdg	Using Dead Wt. Testers RUSKA 2465 By Direct method Based on DKD-R-6-1
6.	(Pressure-Pneumatic) Low Pressure-Digital Pressure Gauges/ Analog Gauges, Manometers, Pressure Transmitters, Pressure Switches[$]	0 to 1 mbar >1 to 10 mbar >10 to 25 mbar	0.001 mbar 0.008 mbar 0.05%of Rdg	Using Digital Pressure controllers CPC 2000 & CPG 2500 By comparison method Based on DKD-R-6-1
7.	(Pressure Pneumatic) Differential Pressure-Digital Pressure Gauges/ Analog Gauges, Pressure Transmitters[$]	0 to 40 bar	0.02%of Rdg	Using Digital Differential Pressure controller CPC 6050 By comparison Method Based on DKD-R-6-1

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
8.	(Vacuum) Dead Wt. Testers Characterization$	(-)0.1 to(-)1 bar	0.01%of Rdg	Using Dead Wt. Tester CPB 5000 By Cross Float Method based on Euramet cg3
9.	(Vacuum) Digital Vacuum Gauges/ Analog Gauges, Vacuum Transmitters, Vacuum Switches$	(-)0.015 to (-)0.1 bar (-) 0.1 to (-) 0.95 bar)	0.06%of Rdg 0.005%of Rdg	Using Dead Wt. Testers RUSKA 2465 By Direct method Based on DKD-R-6-1
10.	(High Vacuum) Digital Vacuum Gauges, Pirani Gauges, Ionization Gauges, Vacuum Transmitters$	10^{-5} to 10^{-2} mbar 10^{-2} to 100 mbar	(15% of Rdg + $2x10^{-7}$ mbar) 3.1% of Rdg	Using Compact Full Range Pirani/ Cold Cathode Gauge With Indicator By comparison method Based on DKD-R-6-1 & DKD-R-6-2
II.	**WEIGHTS**			
1.	Weights$	1 mg 2 mg 5 mg 10 mg 20 mg 50 mg 100 mg 200 mg 500 mg 1 g 2 g 5 g 10 g	0.002 mg 0.002 mg 0.002 mg 0.002 mg 0.002 mg 0.003 mg 0.003 mg 0.003 mg 0.005 mg 0.005 mg 0.005 mg 0.006 mg 0.007 mg	Using E1 class standard weights 1mg – 500 g and Mass comparators of d:1 µg up to 20 g & d:0.01 mg from 50 to 500 g Calibration of E2 class weights and coarser as per OIML R- 111 by Substitution Method through ABBA cycles

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
		20 g 50 g 100 g 200 g 500 g	0.01 mg 0.02 mg 0.03 mg 0.06 mg 0.09 mg	
		1 kg 2 kg 5 kg 10 kg	1 mg 1 mg 10 mg 10 mg	Using E1 class standard weights 1 kg – 10 kg and Mass comparators of d:1 mg up to 2 kg & d:10 mg from 5 to 10 kg Calibration of F1 class weights and coarser as per OIML R- 111 by Substitution Method through ABBA cycles

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
	THERMAL CALIBRATION			
I.	TEMPERATURE			
1.	RTD/ Thermocouple Sensors With Or Without Indicators/ Controllers/ Recorders, Dial /Digital Temperature Gauges, Digital Thermometers $	(-) 35 ^{0}C to 165^{0}C	0.1^{0}C	Using Liquid bath and PRT sensor and Precision Thermometer By comparison method
2.	RTD/ Thermocouple Sensors With Or Without Indicators/ Controllers/ Recorders, Dial /Digital Temperature Gauges, Digital Thermometers$	165 ^{0}C to 650 ^{0}C	0.1^{0}C	Using Dry well bath and PRT sensor and Precision Thermometer By comparison method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
3.	Thermocouple sensors with or without indicators/ controllers/ recorders, Dial /Digital temperature gauges, Digital Thermometers[$]	650°C to 800°C 800°C to 1200°C	1.1°C 1.6°C	Using Furnace and S type T/C sensor with indicator By comparison method

*** Measurement Capability is expressed as an uncertainty (±) at a confidence probability of 95%**
[$]Only in Permanent Laboratory

Ashish.

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