Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

0616

Accredited to ISO/IEC 17025:2005

Yadav Measurements Private Limited

Issue No: 029 **Issue date:** 16 May 2017

Post Box 169 **Plot No. 373 - 375** **RiicoBhamashah Industrial Area** **Kaladwas** **Udaipur 313 003** **India**	**Contact: Mr B M Vyas** **Tel: +91 294 265 0127** **Fax: +91 294 265 0129** **E-Mail: yadav.measurements@ymllabs.com** **Website: http://www.ymllabs.com**

Calibration performed by the Organisation at the locations specified

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Address Post Box 169 Plot No. 373 – 375 RiicoBhamashah Industrial Area Kaladwas Udaipur 313 003 India	**Contact** Mr B M Vyas Tel: +91 294 265 0127 Fax: +91 294 265 0129 E-Mail: yadav.measurements@ymllabs.com	Calibration: Electrical Flow	P

Site activities performed away from the locations listed above:

Location details	Activity	Location code
The customers' site or premises must be suitable for the nature of the particular calibrations undertaken and will be the subject of contract review arrangements between the laboratory and the customer	Calibration: Electrical	S

DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty (k = 2)	Remarks	Location Code
ELECTRICAL MEASUREMENTS				
DC RESISTANCE	1 mΩ to 100 mΩ 100 mΩ to 1Ω 1 Ω to 10 Ω 10 Ω to 10 MΩ 10 MΩ to 100 MΩ 100 MΩ to 330 MΩ 330 MΩ to 1 GΩ	0.50 % to 0.20 % 0.20 % to 0.060 % 0.060 % to 0.0040 % 0.0040 % to 0.015 % 0.015 % to 0.12 % 0.12 % to 1.2 % 1.2 %		P
DC VOLTAGE	1 mV to 5 mV 5 mV to 10 mV 10 mV to 40 mV 40 mV to 1000 V	0.13 % to 0.030 % 0.030 % to 0.014 % 0.014 % to 0.0050 % 0.0050 % to 0.0040 %		P
DC CURRENT	1 mA to 100 mA 100 mA to 1 A 1 A to 20 A	0.010 % 0.010 % to 0.030 % 0.60 %		P
AC VOLTAGE	*40 Hz to 1 kHz* 1 mV to 1 V 1 V to 120 V 120 V to 700 V *1 kHz to 300 kHz* 500 mV to 10 V *40 Hz to 70 Hz* 10 V to 480 V *50 Hz* 480 V to 11 kV	 0.50 % to 0.15 % 0.15 % to 0.10 % 0.10 % to 0.13 % 0.40 % 0.011 % 0.25 %		P

Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty (k = 2)	Remarks	Location Code
AC CURRENT	*70 Hz to 1 kHz* 1 mA to 10 mA	0.040 % to 0.031 %		P
	40 Hz to 70 Hz 1 mA to 10 mA 10 mA to 50 mA 50 mA to 100 A 100 A to 120 A	0.040 % to 0.031 % 0.013 % 0.007 % 0.021 %		
	40 Hz to 1 kHz 1 mA to 1 A	0.35 %		
AC POWER/ENERGY Frequency range 40 Hz to 70 Hz Voltage range 40 V to 320 V Single and three phase active and reactive power and energy cos or sin *Φ = 0.1 to 1, capacitive and inductive*				P
	0.004 W/Var to 48 W/Var	0.041 %	Current range 0.001 A to 0.05 A	
	0.2 W/Var to 9.6 kW/kVar	0.0080 %	Current range 0.05 A to 10 A	
	40 W/Var to 96 kW/kVar	0.0070 %	Current range 10 A to 100 A	
	400 W/Var to 115.2 kW/kVar	0.014 %	Current range 100 A to 120 A	
Single and three phase apparent power and energy				P
	0.04 VA to 48 VA 2 VA to 9.6 kVA 400 VA to 96 kVA 4 kVA to 115.2 kVA	0.056 % 0.013 % 0.013 % 0.021 %		
AC POWER FACTOR	0 to unity, inductive or capacitive	0.0050		P
FREQUENCY	10 Hz to 225 MHz	2.0×10^{-5} to 1.0×10^{-5}		P

Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty (k = 2)	Remarks	Location Code
Calibration of specific test equipment				
EFT/B Generators				P
Peak voltage into 50 Ω & 1 KΩ	0 V to 7 kV	3.0 %		
Rise and fall time	5 ns to 50 ns	5.0 %		
Burst period and period	15 ms to 300 ms	5.0 %		
Frequency	2.5 kHz, 5 kHz, 100 kHz	5.0 %		
Surge generator				P
Rise and fall time	0.5 µs to 100 µs	3.0 %		
Open circuit Voltage	0.5 kV to 15 kV	5.0 %		
Short circuit Current	0.2 kA to 7.5 kA	5.0 %		
Damped oscillatory generator				P
Voltage	0 V to 4 kV	5.0 %		
Rise time	1.0 ns to 1.0 s	3.5 %		
Frequency	100 kHz to 1 MHz	3.0 %		
Repetition rate	1.0 µs to 1.0 s	3.0 %		
High frequency field uniformity calibration in GTEM/Anechoic chamber	GTEM (80 MHz to 1000 MHz			S
	2 V/m	0.23 V/m		
	3 V/m	0.69 V/m		
	10 V/m	2.3 V/m		
	30 V/m	6.9 V/m		
	GTEM (1000 MHz to 3000 MHz			
	2 V/m	0.30 V/m		
	3 V/m	0.96 V/m		
	10 V/m	3.0 V/m		
	30 V/m	9.0 V/m		

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Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty (k = 2)	Remarks	Location Code
Three phase voltage dips and interruptions calibration				P
Phase angle	(0 to 360 °)	1.70 °		
Pulse rise/fall time	(0.1 to 5) µs	5.0 %		
Voltage at no load	Up to 240 VAC (P-N) & 415 VAC (P-P)	1.0 %		
Inrush current	30 A	3.0 %		
Time interval	6 ms to 5 min	3.0 %		
Overshoot & undershoot		5.0 %		
FLOW MEASUREMENTS				P
Gas quantity passed	0.001 m^3 to 0.01 m^3 0.01 m^3 to 0.08 m^3 At flow rates of: 0.016 m^3/hour to 6.6 m^3/hour	0.25 % 0.16 %	Calibration medium: Air	
Gas flow-rate	0.016 m^3/hour to 6.6 m^3/hour At quantities passed of 0.001 m^3 to 0.01 m^3 0.01 m^3 to 0.08 m^3	 0.25 % 0.18 %		

END