

**Laboratory** Reliance Infrastructure Laboratory, Reliance Infrastructure Ltd., 2nd Floor,  
Borivali Receiving Bldg., Borivali (E), Mumbai, Maharashtra

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

**Discipline** Electro-Technical Calibration **Issue Date** 19.08.2014

**Certificate Number** C-0654 **Valid Until** 18.08.2016

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
<b><u>SOURCE</u></b>			
1. DC Voltage <sup>\$</sup>	300mV to 1000V	0.015%	Using Multi Product Calibrator Wavetek 9100 by Direct Method
2. DC Current <sup>\$</sup>	300 $\mu$ A to 320mA 320mA to 20A	0.04% 0.04% to 0.10%	Using Multi Product Calibrator Wavetek 9100 by Direct Method
3. AC Voltage <sup>\$</sup>	<b>50 Hz</b> 300mV to 1000V	0.07%	Using Multi Product Calibrator Wavetek 9100 by Direct Method
4. AC Current <sup>\$</sup>	<b>50 Hz</b> 300 $\mu$ A to 320mA 320mA to 20A  20A to 1000A	0.25% to 0.15% 0.15% to 0.3%  0.4% to 0.5%	Using Multi Product Calibrator Wavetek 9100 by Direct Method  With Current Coil
5. Power Factor <sup>\$</sup>	<b>50 Hz</b> 0 $^{\circ}$ to 360 $^{\circ}$	0.06 $^{\circ}$	Using PRS 400.3, MTE as reference and PPS 400.3, MTE as Source
6. AC Energy <sup>\$</sup> (Active)	<b>50 Hz</b> 30V,0.5A to 120A & 63.5V to 300V & 10mA to 120A Cos $\emptyset$ 1 to 0.1	0.04% to 0.05%	Using PRS 400.3, MTE as reference and PPS 400.3, MTE as Source by Comparison Method

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
7. AC Energy <sup>§</sup> (Reactive)	<b>50 Hz</b> 30V,0.5A to 120A & 63.5V to 300V & 10mA to 120A Sin $\emptyset$ 1 to 0.1	0.04% to 0.05%	Using PRS 400.3, MTE as reference and PPS 400.3, MTE as Source by Comparison Method
<b><u>MEASURE</u></b>			
8. DC Voltage <sup>§</sup>	50mV to 1000V	0.004% to 0.003%	Using 8½ Digit, DMM, HP 3458A by Direct Method
9. AC Voltage <sup>§</sup>	<b>50Hz</b> 100mV to 400mV 400mV to 700V	0.03% 0.03% to 0.055%	Using 8½ Digit, DMM, HP 3458A by Direct Method
10. AC Current <sup>§</sup>	<b>50Hz</b> 100mA to 1A 1A to 120A	0.20% 0.04%	Using 8½ Digit, DMM, HP 3458A, PRS 400.3 , MTE as reference 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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