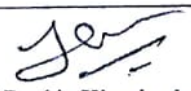
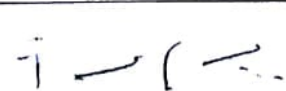
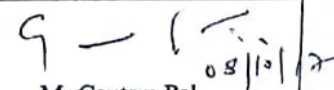


ET

RECOMMENDED SCOPE OF ACCREDITATION
(For Calibration Laboratories)



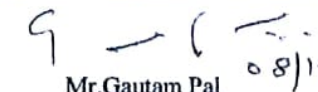
Laboratory: Prism Calibration Centre, Ahmedabad					Date(s) of Visit: 7-8 Oct 2017		
Discipline: Electro Technical (Source) Lab & Site							
Sl	Parameter*/ Device under calibration	Master equipmen t used	Range(s) of measurement ***	Calibration and Measurement Capability **			Remarks*/ Method used
				Claimed by Laboratory (±)	Observed by Assessor (±)	Recommended by Assessor (±)	
1	Temperature simulation # Thermocouple K type J type B type R Type S type T type RTD PT 100	Advance Calibrator	-50 – 1300°C -100 – 1200°C 600 – 1800°C 360 – 1700°C 300 – 1700°C -50 – 400°C -200 - 800°C	0.58°C – .75°C 0.48°C 2.42°C-1.41°C 1.37°C 1.82°C-1.28°C 0.75°C 0.41°C - .63°C	-50 – 0.89°C 1200 -0.82°C 600 – 2.52°C 360 – 1.53°C 1700 – 1.56°C 400 – 1.01°C -199 – 0.39°C	0.90°C – .75°C 0.82°C 2.52°C-1.41°C 1.55°C 1.82°C-1.56°C 1.01°C 0.41°C – 0.63°C	Direct Method
2	1 Phase/3 Phase Power#	3 Phase Power / Energy Calibrator Zeal	50Hz 50-250V 0.1A– 5A -0.5 to +0.5 PF (7.5W – 3750W)	0.34% - 0.21%	250V/5A/0.5PF – 0.07%	0.34% - 0.21%	Direct Method
3	1 Phase/3 Phase Energy#	3 Phase Power / Energy Calibrator Zeal	50Hz 50-250V 0.1A– 5A -0.5 to +0.5 PF (1.25Wh – 625Wh)	0.23% - 0.18%	250V/5A/0.5PF – 0.44%	0.25% - 0.44%	Direct Method
4	Power Factor #	3 Phase Power / Energy Calibrator Zeal	-0.5 to +0.5	0.012 PF	-0.5 - .001 +0.5 – 0.012	0.012 PF	Direct Method
5	DC Voltage #	MFC Zeal	10 mV – 100 mV 100 mV – 1000V	0.27% - 0.13% 0.13% - 0.12%	10mV – 0.14% 100 0V- 0.12%	0.27% - 0.13% 0.13% - 0.12%	Direct Method
6	AC Voltage #	MFC Zeal	50Hz 10 mV – 100 mV 100 mV – 1000V	0.52% - 0.19% 0.19% - 0.17%	10mV – 0.46% 100mV 0.22%	0.52% - 0.22% 0.22%	Direct Method

 Mr. Parthiv Kinariwala Signature, Date & Name of Lab Representative	 Mr. Gautam Pal Signature, Date & Name of Assessor(s)	 Mr. Gautam Pal Signature, Date & Name of Lead Assessor
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Laboratory: Prism Calibration Centre, Ahmedabad Date(s) of Visit: 7-8 Oct 2017

Discipline: Electro Technical (Source) Lab & Site

Sl	Parameter*/ Device under calibration	Master equipmen t used	Range(s) of measurement ***	Calibration and Measurement Capability **			Remarks*/ Method used
				Claimed by Laboratory (±)	Observed by Assessor (±)	Recommended by Assessor (±)	
7	DC Current #	Advanced calibrator & MFC with Current coil	0.2mA – 24mA 24mA – 100mA 100mA – 10A 10A – 800A	2.1% - 0.042% 0.042% - 0.21% 0.21% - 0.40% 0.87%	0.2mA – 1.80% 24mA – 0.027% 24mA – 0.20% 10A -0.39% 10A – 1.48% 800A – 0.51%	2.1% - 0.042% 0.2% - 0.21% 0.21% - 0.40% 1.48% - 0.51%	Direct Method
8	AC Current #	MFC with Current coil	1mA – 100 mA 100mA – 10A 10A – 800A	0.36% - 0.25% 0.25% - 0.42% 0.67%	1mA – 0.26% 10A -0.42% 10A – 1.55% 800A – 1.27%	0.36% - 0.25% 0.25% - 0.42% 1.55% - 1.27%	Direct Method
9	Frequency #	Advanced Calibrator	10Hz – 50kHz	0.07% - 0.03%	10Hz – 1.5% 50kHz – 0.01%	1.5% - 0.03%	Direct Method
10	DC resistance #	Decade Box	1Ω - 1 GΩ 1GΩ - 100 GΩ	1.4% - 2.65% 2.65% - 6.0%	1Ω -1.4% 1 GΩ- 2.64% 100 GΩ - 5.99%	1.4% - 2.65% 2.65% - 6.0%	Direct Method



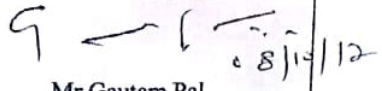
 Mr. Parthiv Kinariwala Signature, Date & Name of Lab Representative	 Mr. Gautam Pal Signature, Date & Name of Assessor(s)	 Mr. Gautam Pal Signature, Date & Name of Lead Assessor
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Laboratory: Prism Calibration Centre, Ahmedabad Date(s) of Visit: 7-8 Oct 2017




Discipline: Electro Technical (Measure) Lab & Site

Sl	Parameter*/ Device under calibration	Master equipment used	Range(s) of measurement	Calibration and Measurement Capability **			Remarks*/ Method used
				Claimed by Laboratory (±)	Observed by Assessor (±)	Recommended by Assessor (±)	
1	DC Voltage #	DMM Fluke	1mV – 100mV 100mV – 1V 1V – 1000V	0.70 - 0.012% 0.01% - 0.2% 0.008%	1mV – 0.7% 1V -0.04% 1000V -0.41%	0.70% - 0.012% 0.01% - 0.2% 0.2% - 0.041%	Direct/Comparison Method
2	AC Voltage #	DMM Fluke	50Hz 100mV – 1V 1V – 1000V	0.12% - 0.2% 0.2%-0.10%	100mV – 0.12% 1V -0.12% 1000V -0.10%	0.12% - 0.2% 0.2%-0.10%	Direct/Comparison Method
3	DC Current #	DMM Fluke	0.1mA – 1mA 1mA – 100mA 100mA – 1A 1A – 10A	1.01% - 0.06% 0.06% - 0.07% 0.07% - 0.2% 0.2% - 0.18%	0.1mA – 1% 1A -0.04% 10A -0.19%	1.01% - 0.06% 0.06% - 0.07% 0.07% - 0.2% 0.04% - 0.19%	Direct/Comparison Method
4	AC Current #	DMM Fluke	50Hz 0.1mA – 1mA 1mA – 100mA 100mA – 1A 1A – 10A	1.0% - 0.3% 0.3% - 0.19% 0.19% - 0.3% 0.3% - 0.24%	0.1mA – 1% 1A -0.2% 10A -0.25%	1.0% - 0.3% 0.3% - 0.19% 0.19% - 0.3% 0.3% - 0.24%	Direct/Comparison Method
5	Frequency #	DMM Fluke	10Hz – 50kHz	0.04% - 0.03%	50 kHz – 0.02%	0.04% - 0.03%	Direct Method
6	DC Resistance #	DMM Fluke	1Ω - 1GΩ	0.7% - 2.32%	1Ω - 0.70% 1GΩ- 2.32%	0.7% - 2.32%	Direct Method

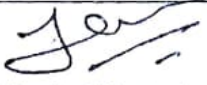

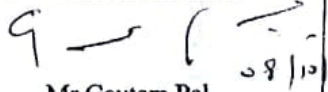
* NABL 143 shall be referred for the recommendation of CMC
 - Remarks shall also include whether the same scope is applicable for site calibration as well. NABL 130 shall be referred while recommending the scope for site calibration.
 - The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.

 Mr. Parthiv Kinariwala Signature, Date & Name of Lab Representative	 Mr. Gautam Pal Signature, Date & Name of Assessor(s)	 Mr. Gautam Pal Signature, Date & Name of Lead Assessor
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Laboratory: Prism Calibration Centre, Ahmedabad				Date(s) of Visit: 7-8 Oct 2017			
Discipline: Electro Technical (Measure) Lab & Site							
SI	Parameter*/ Device under calibration	Master equipment used	Range(s) of measurement	Calibration and Measurement Capability **			Remarks*/ Method used
				Claimed by Laboratory (±)	Observed by Assessor (±)	Recommended by Assessor (±)	
7	Temperature simulation # Thermocouple K type J type B type R Type S type T type RTD PT 100	Advance Calibrator	-50 – 1300°C -100 – 1150°C 600 – 1800°C 360 – 1700°C 300 – 1700°C -50 – 400°C -200 - 800°C	0.57°C – 0.74°C 0.46°C 2.4°C-1.36°C 1.25°C 1.82°C-1.28°C 0.74°C 0.28°C – 0.39°C	-50 – 0.88°C 1150 -0.82°C 600 – 2.51°C 360 – 1.53°C 1700 – 1.55°C 400 – 1.01°C -200 – 0.28°C	0.88°C – .75°C 0.82°C 2.52°C-1.41°C 1.55°C 1.82°C-1.55°C 1.01°C 0.28°C – 0.39°C	Direct Method
8	Time #	Dig Stop Watch	7s – 3600s 3600s – 86400s	2.42s -2.53s 2.53s – 20.49s	--	2.42s -2.53s 2.53s – 20.49s	Comparison Method
9	AC High Voltage	HV Probe with DMM	1kV – 5 kV	1.70%	1kV – 8.3% 5 kV- 5.8%	8.3% - 5.8%	Comparison Method
10	DC High Voltage	HV Probe with DMM	1kV – 5 kV	3.4%	--	5.0%	Comparison Method
<p><i>- NABL 143 shall be referred for the recommendation of CMC</i></p> <p><i>- Remarks shall also include whether the same scope is applicable for site calibration as well. NABL 130 shall be referred while recommending the scope for site calibration.</i></p> <p><i>- The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.</i></p>							

 Mr. Parthiv Kinariwala Signature, Date & Name of Lab Representative	 Mr. Gautam Pal Signature, Date & Name of Assessor(s)	 Mr. Gautam Pal Signature, Date & Name of Lead Assessor
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Laboratory: Prism Calibration Centre, Ahmedabad					Date(s) of Visit: 7-8 Oct 2017		
Discipline: Electro Technical (Measure) Only Site							
Sl	Parameter*/ Device under calibration	Master equipment used	Range(s) of measurement	Calibration and Measurement Capability **			Remarks*/ Method used
				Claimed by Laboratory (±)	Observed by Assessor (±)	Recommended by Assessor (±)	
1	AC High Voltage	HV Probe with DMM	1kV – 30 kV	1.70%	1kV – 8.3% 30kV- 5.7%	8.3% - 5.7%	Comparison Method
2	DC High Voltage	HV Probe with DMM	1kV –30 kV	3.4%	--	5.0%	Comparison Method
<p>[*] NABL 143 shall be referred for the recommendation of CMC</p> <p>^{**} Remarks shall also include whether the same scope is applicable for site calibration as well. NABL 130 shall be referred while recommending the scope for site calibration.</p> <p>^{***} The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.</p>							

 Mr. Parthiv Kinariwala Signature, Date & Name of Lab Representative	 Mr. Gautam Pal Signature, Date & Name of Assessor(s)	 Mr. Gautam Pal Signature, Date & Name of Lead Assessor
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