Laboratory	**Sri Daakshyaani Energy Solutions, D. No. 36-12-14 A, 5 A, Classic Circle, Mogalrajpuram, Vijayawada, Andhra Pradesh**		
Accreditation Standard	**ISO/IEC 17025: 2005**		
Certificate Number	**CC-2288**	**Page**	**1 of 4**
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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
		ELECTRO TECHNICAL CALIBRATION		
I.	**SOURCE**			
1.	AC Voltage #	**50 Hz** 40 V to 520 V	0.014%	Using MTE, K2006/PRS600.3 Reference with PPS400.3 Source by Direct & Comparison Method
2.	AC Current #	**50 Hz** 1 mA to 120 A	0.030 % to 0.024 %	Using MTE, K2006/PRS600.3 Reference with PPS400.3 Source by Direct & Comparison Method
3.	Power Factor #	**50 Hz** (-)1 PF to (+)1 PF	0.0007%	Using MTE, K2006/PRS600.3 Reference with PPS400.3 Source by Direct & Comparison Method
4.	Frequency #	45 Hz to 65 Hz	0.033%	Using MTE, K2006/PRS600.3 Reference with PPS400.3 Source by Direct & Comparison Method
II.	**MEASURE**			
1.	AC Voltage #	**50 Hz** 40 V to 520 V	0.014%	Using MTE, K2006/PRS600.3 Reference with PPS400.3 Source by Direct & Comparison Method

Vishal Shukla
Convenor

Avijit Das
Program Director

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
2.	AC Current #	**50 Hz** 1 mA to 120 A	0.030 % to 0.024 %	Using MTE, K2006/PRS600.3 Reference with PPS400.3 Source by Direct & Comparison Method
3.	Power Factor #	**50 Hz** (-)1 PF to (+)1 PF	0.0007%	Using MTE, K2006/PRS600.3 Reference with PPS400.3 Source by Direct & Comparison Method
4.	Frequency #	45 Hz to 65 Hz	0.033%	Using MTE, K2006/PRS600.3 Reference with PPS400.3 Source by Direct & Comparison Method
5.	AC Energy # 1 Ø , 3 Ø Active & Reactive CosØ ± 0.25 to ± 1 Sin Ø ± 0.25 to ± 1 Apparent	**50 Hz** 40 V to 300 V 1mA to 120A **Active Energy** 0.01 Wh to 108kWh **Reactive Energy** 0.01 to 108 kVArh **Apparent Energy** 0.01 to 108 kVAh	 0.055% 0.055% 0.055%	Using MTE, K2006/PRS600.3 Reference with PPS400.3 Source by Direct & Comparison Method

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
6.	AC Power # 1 Ø , 3 Ø Active & Reactive Cos Ø, Sin Ø ± 0.1 to ± 1 Apparent	**50 Hz** 63.5 V to 240 V 1 mA to 50 mA **Active& Reactive Power** 0.0 6mW/ mVar to 36 W / VAr **Apparent Power** 0.63 mVA to 36 VA	0.058 % to 0.028% 0.058% to 0.028%	Using MTE, K2006/PRS600.3 Reference with PPS400.3 Source by Direct & Comparison Method
7.	Current Transformer # (Primary Injection)	**5 A-2000 A** Primary, **5 A** Secondary to **5A-2000A** Primary, **1A** Secondary (120%,100%,20%, 5%,1%)	**Ratio Error** : 0.024 % **Phase Error** : 1.03 min **Ratio Error** : 0.021 % **Phase Error** : 2.45 min	Using Standard Current Transformer & Automatic Instrument Transformer Test Set by Comparison method
8.	Potential / Voltage Transformer # (Primary Injection)	**6.6kV- 6.6kV/√3** Primary **110V-110V/√3** Secondary to	**Ratio Error** :- 0.065 % **Phase Error** :- 2.67 min	Using Standard Potential / Voltage Transformer & Automatic Instrument Transformer Test Set by Comparison Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
		11 kV-11 kV/√3 Primary **110V-110V/√3** Secondary (120%, 100%, 80%)	**Ratio Error** :- 0.065% **Phase Error** :- 2.67min	
9.	Potential / Voltage Transformer # (Primary Injection)	**22 kV- 22 kV/√3** Primary **110V-110V/√3** Secondary to **33 kV- 33 kV/√3** Primary **110V-110V/√3** Secondary (120%, 100%, 80%)	Ratio Error :- 0.07 % Phase Error :- 2.82 min Ratio Error :- 0.07% Phase Error :- 2.82 min	Using Standard Potential / Voltage Transformer & Automatic Instrument Transformer Test Set by Comparison Method

*** Measurement Capability is expressed as an uncertainty (±) at a confidence probability of 95%**

 # The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.

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Convenor

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Program Director