



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ZEAL MANUFACTURING AND CALIBRATION SERVICES PRIVATE LIMITED, UNIT NO.D-104, SATYAM INDUSTRIAL ESTATE, OFF KARVE ROAD, ERANDWANE, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2042 Page No. : 1 / 20

Validity 03/03/2019 to 02/03/2021 Last Amended on 10/05/2019

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
Permanent Facility					
1	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current @ 10Hz to 5 kHz	1 A to 10 A	0.17% to 0.26%	Using 6½ Digit Multimeter by Direct Method
2	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current @ 10Hz to 5 kHz	10 µA to 100 µA	1.25% to 0.16%	Using 6½ Digit Multimeter by Direct Method
3	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current @ 10Hz to 5 kHz	100 µA to 100 mA	0.16% to 0.17%	Using 6½ Digit Multimeter by Direct Method
4	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current @ 10Hz to 5 kHz	100 mA to 1 A	0.17%	Using 6½ Digit Multimeter by Direct Method
5	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current @10 kHz	1 A to 2.4 A	0.17% to 1.39%	Using 6½ Digit Multimeter by Direct Method
6	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current @10 kHz	100 µA to 100 mA	0.55% to 0.52%	Using 6½ Digit Multimeter by Direct Method



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Certificate Number CC-2042 Page No. : 2 / 20

Validity 03/03/2019 to 02/03/2021 Last Amended on 10/05/2019

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7	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current @10 kHz	100 mA to 1 A	0.52% to 0.17%	Using 6½ Digit Multimeter by Direct Method
8	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC High Current @ 50 Hz	20 A to 6000 A	0.79% to 1.14%	Zeal make CT with 6 1/2 DMM and Shunt with DMM
9	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC High Voltage @50Hz	1 kV to 20 kV	4.11% to 6.1%	Using HV Probe with DMM (Kusam Mecco) by Direct Method
10	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Power & Energy (Apparent, Active & Reactive)(1 Ph, 3 Ph) @ 50Hz40V to 300V, 20mA to 120Aat 0.1PF to UPF lead/lag	0.08 W,VAR to 108 KW,KVAR	0.96% to 0.1%	Using 3Ph Reference Meter Zera with CT alongwith Power Source by Direct Method
11	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Resistance @1kHz	10 m Ohm to 100 k Ohm	0.59% to 0.06%	Using LCR Meter by Direct Mehtod
12	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage @ 50 Hz to 10 kHz	1 mV to 5 mV	4.62% to 0.98%	Using 6½ Digit Multimeter by Direct Method



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2042 Page No. : 3 / 20

Validity 03/03/2019 to 02/03/2021 Last Amended on 10/05/2019

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13	ELECTRO- TECHNICAL- ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage @ 50 Hz to 10 kHz	20 mV to 100 mV	0.30% to 0.12%	Using 6½ Digit Multimeter by Direct Method
14	ELECTRO- TECHNICAL- ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage @ 50 Hz to 10 kHz	5 mV to 20 mV	0.98% to 0.30%	Using 6½ Digit Multimeter by Direct Method
15	ELECTRO- TECHNICAL- ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage @ 50Hz to 10 kHz	100 mV to 1000 V	0.12% to 0.10%	Using 6½ Digit Multimeter by Direct Method
16	ELECTRO- TECHNICAL- ALTERNATING CURRENT (< 1 GHZ) (Measure)	Capacitance @1kHz	1 pF to 100 pF	0.08% to 0.06%	Using LCR Meter by Direct Method
17	ELECTRO- TECHNICAL- ALTERNATING CURRENT (< 1 GHZ) (Measure)	Capacitance @1kHz	100 pF to 1 mF	0.06% to 1.10%	Using LCR Meter by Direct Method
18	ELECTRO- TECHNICAL- ALTERNATING CURRENT (< 1 GHZ) (Measure)	Inductance @1kHz	100 µH to 10 H	0.31% to 0.08%	Using LCR Meter by Direct Method



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2042 Page No. : 4 / 20

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19	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	Power Factor @50Hz(Lag & Lead), (1Ph, 3Ph)40 V to 300V10mA to 120A	0.1 PF to UPF lead/lag	0.007 PF	Using 3Ph Reference Meter Zera with CT alongwith Power Source by Direct Method
20	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 50 Hz	>20 A to 1000 A	0.79%	Using Fluke 9100E Multifunction Calibrator by Direct Method
21	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 50 Hz	3.2 A to 20 A	0.13% to 0.27%	Using Fluke 9100E Multifunction Calibrator by Direct Method
22	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 50 Hz to 5 kHz	200 µA to 300 mA	0.76% to 0.10%	Using Fluke 9100E Multifunction Calibrator by Ditect Method
23	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 50 Hz to 5 kHz	300 mA to 3.2 A	0.10% to 0.13%	Using Fluke 9100E Multifunction Calibrator by Ditect Method
24	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage @1kHz to 10 kHz	300 V to 1000 V	0.055% to 0.11%	Using Fluke 9100E Multifunction Calibrator by Ditect Method



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2042 Page No. : 5 / 20

Validity 03/03/2019 to 02/03/2021 Last Amended on 10/05/2019

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
25	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage @1kHz to 10 kHz	60 mV to 300 mV	0.10% to 0.055%	Using Fluke 9100E Multifunction Calibrator by Ditect Method
26	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage @50Hz to 1 kHz	10 mV to 30 mV	4.38% to 0.41%	Using Fluke 9100 Multifunction Calibrator by Direct Method
27	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage @50Hz to 1 kHz	30 mV to 300 mV	0.41% to 0.053%	Using Fluke 9100 Multifunction Calibrator by Ditect Method
28	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage @50Hz to 1 kHz	300 mV to 1000 V	0.053% to 0.071%	Using Fluke 9100E Multifunction Calibrator by Ditect Method
29	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	1 A to 10 A	0.082% to 0.19%	Using 6½ Digit Multimeter by Direct Method
30	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	10 µA to 100 µA	0.35% to 0.09%	Using 6½ Digit Multimeter by Direct Method
31	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	100 µA to 100 mA	0.09% to 0.063%	Using 6½ Digit Multimeter by Direct Method
32	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	100 mA to 1 A	0.063% to 0.082%	Using 6½ Digit Multimeter by Direct Method



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2042 Page No. : 6 / 20

Validity 03/03/2019 to 02/03/2021 Last Amended on 10/05/2019

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
33	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC High Current	20 A to 1000 A	0.63% to 0.70%	Using Source with 6½ DMM & 0.1 Shunt, AC/DC 2000A/75mV Shunt by Direct Method
34	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC High Voltage	1 kV to 20 kV	3.9% to 5.9%	Using HV Probe with DMM (Kusam Mecoc) by Direct Method
35	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	1 Ohm to 100 k Ohm	0.35% to 0.013%	Using 6½ Digit Multimeter by Direct Method
36	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	10 M Ohm to 100 M Ohm	0.05% to 0.92%	Using 6½ Digit Multimeter by Direct Method
37	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	100 K Ohm to 10 M Ohm	0.013% to 0.05%	Using 6½ Digit Multimeter by Direct Method
38	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	100 M Ohm to 1000 M Ohm	0.92% to 2.29%	Using 6½ Digit Multimeter by Direct Method
39	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance (4 Wire)Discrete	1 m ohm	0.09%	Using Multifunction Calibrator Fluke 9100 & 6½ digit DMM
40	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance (4 Wire)Discrete	1 ohm	0.03%	Using Multifunction Calibrator Fluke 9100 & 6½ digit DMM
41	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance (4 Wire)Discrete	10 µohm	1.99%	Using Multifunction Calibrator Fluke 9100 & 6½ digit DMM
42	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance (4 Wire)Discrete	10 m ohm	0.09%	Using Multifunction Calibrator Fluke 9100 & 6½ digit DMM



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2042 Page No. : 7 / 20

Validity 03/03/2019 to 02/03/2021 Last Amended on 10/05/2019

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
43	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance (4 Wire)Discrete	100 µohm	0.21%	Using Multifunction Calibrator Fluke 9100 & 6½ digit DMM
44	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance (4 Wire)Discrete	100 m ohm	0.08%	Using Multifunction Calibrator Fluke 9100 & 6½ digit DMM
45	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance (4 Wire)Discrete	50 µohm	0.41%	Using Multifunction Calibrator Fluke 9100 & 6½ digit DMM
46	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	0.1 mV to 0.5 mV	3.99% to 0.80%	Using 6½ Digit Multimeter by Direct Method
47	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	0.5 mV to 1 mV	0.80% to 0.40%	Using 6½ Digit Multimeter by Direct Method
48	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	1 mV to 20 mV	0.40% to 0.024%	Using 6½ Digit Multimeter by Direct Method
49	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	100 mV to 100 V	0.008% to 0.005%	Using 6½ Digit Multimeter by Direct Method
50	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	100 V to 1000 V	0.005% to 0.006%	Using 6½ Digit Multimeter by Direct Method
51	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	20 mV to 100 mV	0.024% to 0.008%	Using 6½ Digit Multimeter by Direct Method
52	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	High Resistance (@Test Voltage upto 1000V)	5 Mohm to 100 Gohm	2.52% to 8.45%	Using Mega ohm Meter by Direct Method



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2042 Page No. : 8 / 20

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53	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	>20 A to 1000 A	0.74%	Using Fluke 9100 Multifunction Calibrator by Ditect Method
54	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	10 A to 20 A	0.07% to 0.09%	Using Fluke 9100 Multifunction Calibrator by Ditect Method
55	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	10 uA to 300 mA	0.15% to 0.02%	Using Fluke 9100 Multifunction Calibrator by Ditect Method
56	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	300 mA to 10 A	0.02% to 0.07%	Using Fluke 9100 Multifunction Calibrator by Ditect Method
57	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance	1 M Ohm to 40 M Ohm	0.068% to 0.18%	Using Fluke 9100 Multifunction Calibrator by Direct Method
58	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance	1 mOhm to 1 Ohm	5.66% to 0.12%	Using Precision Resistance Box, Make-Zeal
59	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance	1 Ohm to 10 kOhm	1.16% to 0.032%	Using Fluke 9100 Multifunction Calibrator by Direct Method
60	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance	10 kOhm to 1 M Ohm	0.032% to 0.068%	Using Fluke 9100 Multifunction Calibrator by Direct Method
61	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance	40 M Ohm to 400 M Ohm	0.18% to 0.52%	Using Fluke 9100 Multifunction Calibrator by Direct Method
62	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance (Discrete)	1 mohm	0.14%	Using Discrete Standard Resistors by Direct Method



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Certificate Number CC-2042 Page No. : 9 / 20

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63	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance (Discrete)	1 ohm	0.12%	Using Discrete Standard Resistors by Direct Method
64	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance (Discrete)	10 µohm	2.26%	Using Discrete Standard Resistors by Direct Method
65	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance (Discrete)	10 m ohm	0.14%	Using Discrete Standard Resistors by Direct Method
66	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance (Discrete)	100 µohm	0.55 %	Using Discrete Standard Resistors by Direct Method
67	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance (Discrete)	100 mohm	0.14%	Using Discrete Standard Resistors by Direct Method
68	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance (Discrete)	50 µohm	1.32%	Using Discrete Standard Resistors by Direct Method
69	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	0.2 mV to 1 mV	3.68% to 0.74%	Using Fluke 9100 Multifunction Calibrator by Direct Method
70	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	1 mV to 30 mV	0.74% to 0.03%	Using Fluke 9100 Multifunction Calibrator by Direct Method
71	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	30 mV to 1000 V	0.03% to 0.01%	Using Fluke 9100 Multifunction Calibrator by Direct Method
72	ELECTRO-TECHNICAL- ELECTRICAL EQUIPMENT (Source)	OscilloscopeAmplitude (DC Voltage)	5 mV to 20 V/div	0.23% to 0.06%	Using Multifunction Calibrator and Sine Wave Generator by Direct Method



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Certificate Number	CC-2042	Page No. :	10 / 20
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73	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Bandwidth (50 ohm)	500 kHz to 250 MHz	3%	Using Multifunction Calibrator and Sine Wave Generator by Direct Method
74	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Time	5 ns to 0.5 s	1.14% to 0.57%	Using Multifunction Calibrator and Sine Wave Generator by Direct Method
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD Type	-200 °C to 800 °C	0.26 °C to 0.51 °C	Using Fluke 9100 Multifunction Calibrator by Direct Method
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (J-Type)	- 200 °C to 1200 °C	0.64 °C	Using Fluke 9100 Multifunction Calibrator by Direct Method
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (K-Type)	-200 °C to 1300 °C	0.65 °C	Using Fluke 9100 Multifunction Calibrator by Direct Method
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (N-Type)	-50 °C to 1300 °C	0.63 °C	Using Fluke 9100 Multifunction Calibrator by Direct Method
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (R-Type)	0 °C to 1700 °C	0.82 °C	Using Fluke 9100 Multifunction Calibrator by Direct Method
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (S-Type)	0 °C to 1700 °C	0.79 °C	Using Fluke 9100 Multifunction Calibrator by Direct Method



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2042 Page No. : 11 / 20

Validity 03/03/2019 to 02/03/2021 Last Amended on 10/05/2019

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81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (T-Type)	-200°C to 400 °C	0.65 °C	Using Fluke 9100 Multifunction Calibrator by Direct Method
82	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	0.2 Hz to 1 Hz	0.28% to 0.06%	Using Frequency Counter by Direct Method
83	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	1 Hz to 225 MHz	0.06% to 0.25%	Using Frequency Counter by Direct Method
84	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Period	5 ns to 5 s	0.01%	Using Frequency Counter by Direct Method
85	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time	6 s to 24 hr	1.2s to 7.3s	Using Digital stop watch by Direct Method
86	ELECTRO-TECHNICAL- TIME & FREQUENCY (Source)	Frequency	10 Hz to 10 MHz	0.057% to 0.0064%	Using Fluke 9100E Multifunction Calibrator and Sine Wave Generator by Direct Method



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Site Facility					
1	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current @ 10Hz to 5 kHz	1 A to 10 A	0.17% to 0.26%	Using 6½ Digit Multimeter by Direct Method
2	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current @ 10Hz to 5 kHz	10 µA to 100 µA	1.25% to 0.16%	Using 6½ Digit Multimeter by Direct Method
3	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current @ 10Hz to 5 kHz	100 µA to 100 mA	0.16% to 0.17%	Using 6½ Digit Multimeter by Direct Method
4	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current @ 10Hz to 5 kHz	100 mA to 1 A	0.17%	Using 6½ Digit Multimeter by Direct Method
5	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current @10 kHz	1 A to 2.4 A	0.17% to 1.39%	Using 6½ Digit Multimeter by Direct Method
6	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current @10 kHz	100 µA to 100 mA	0.55% to 0.52%	Using 6½ Digit Multimeter by Direct Method



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2042 Page No. : 13 / 20

Validity 03/03/2019 to 02/03/2021 Last Amended on 10/05/2019

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7	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current @10 kHz	100 mA to 1 A	0.52% to 0.17%	Using 6½ Digit Multimeter by Direct Method
8	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC High Current @ 50 Hz	20 A to 6000 A	0.79% to 1.14%	Zeal make CT with 6 1/2 DMM and Shunt with DMM
9	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC High Voltage @50Hz	1 kV to 100 kV	4.11% to 6.1%	Using HV Probe with DMM (Kusam Mecro) by Direct Method
10	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Power & Energy (Apparent, Active & Reactive)(1 Ph, 3 Ph) @ 50Hz40V to 300V, 20mA to 120Aat 0.1PF to UPF lead/lag	0.08 W,VAR to 108 KW,KVAR	0.96% to 0.1%	Using 3Ph Reference Meter Zera with CT alongwith Power Source by Direct Method
11	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Resistance @1kHz	10 m Ohm to 100 k Ohm	0.59% to 0.06%	Using LCR Meter by Direct Mehtod
12	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage @ 50 Hz to 10 kHz	1 mV to 5 mV	4.62% to 0.98%	Using 6½ Digit Multimeter by Direct Method



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name	ZEAL MANUFACTURING AND CALIBRATION SERVICES PRIVATE LIMITED, UNIT NO.D-104, SATYAM INDUSTRIAL ESTATE, OFF KARVE ROAD, ERANDWANE, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2042	Page No. :	14 / 20
Validity	03/03/2019 to 02/03/2021	Last Amended on	10/05/2019

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
13	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage @ 50 Hz to 10 kHz	20 mV to 100 mV	0.30% to 0.12%	Using 6½ Digit Multimeter by Direct Method
14	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage @ 50 Hz to 10 kHz	5 mV to 20 mV	0.98% to 0.30%	Using 6½ Digit Multimeter by Direct Method
15	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage @ 50Hz to 10 kHz	100 mV to 1000 V	0.12% to 0.10%	Using 6½ Digit Multimeter by Direct Method
16	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	Capacitance @1kHz	1 pF to 100 pF	0.08% to 0.06%	Using LCR Meter by Direct Method
17	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	Capacitance @1kHz	100 pF to 1 mF	0.06% to 1.10%	Using LCR Meter by Direct Method
18	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	Inductance @1kHz	100 µH to 10 H	0.31% to 0.08%	Using LCR Meter by Direct Method



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name	ZEAL MANUFACTURING AND CALIBRATION SERVICES PRIVATE LIMITED, UNIT NO.D-104, SATYAM INDUSTRIAL ESTATE, OFF KARVE ROAD, ERANDWANE, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2042	Page No. :	15 / 20
Validity	03/03/2019 to 02/03/2021	Last Amended on	10/05/2019

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
19	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	Power Factor @50Hz(Lag & Lead), (1Ph, 3Ph)40 V to 300V10mA to 120A	0.1 PF to UPF lead/lag	0.007 PF	Using 3Ph Reference Meter Zera with CT alongwith Power Source by Direct Method
20	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 50 Hz to 1 kHz	0.1 mA to 20 mA	0.38% to 0.33%	Using 5½ Digit Multifunction Calibrator by Direct Method
21	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 50 Hz to 1 kHz	10 A to 1000 A	0.79%	Using 5½ Digit Multifunction Calibrator with Current Coil by Direct Method
22	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 50 Hz to 1 KHz	2 A to 10 A	0.32% to 0.33%	Using 5½ Digit Multifunction Calibrator by Direct Method
23	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 50 Hz to 1 kHz	20 mA to 2 A	0.33% to 0.32%	Using 5½ Digit Multifunction Calibrator by Direct Method
24	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage @ 50 Hz to 1 kHz	20 V to 1000 V	0.35% to 0.22%	Using 5½ Digit Multifunction Calibrator by Direct Method



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ZEAL MANUFACTURING AND CALIBRATION SERVICES PRIVATE LIMITED, UNIT NO.D-104, SATYAM INDUSTRIAL ESTATE, OFF KARVE ROAD, ERANDWANE, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2042 Page No. : 16 / 20

Validity 03/03/2019 to 02/03/2021 Last Amended on 10/05/2019

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
25	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage @ 50 Hz to 1 kHz	200 mV to 20 V	0.44% to 0.35%	Using 5½ Digit Multifunction Calibrator by Direct Method
26	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage @50 Hz to 1 kHz	5 mV to 200 mV	1.22% to 0.44%	Using 5½ Digit Multifunction Calibrator by Direct Method
27	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	1 A to 10 A	0.082% to 0.19%	Using 6½ Digit Multimeter by Direct Method
28	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	10 µA to 100 µA	0.35% to 0.09%	Using 6½ Digit Multimeter by Direct Method
29	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	100 µA to 100 mA	0.09% to 0.063%	Using 6½ Digit Multimeter by Direct Method
30	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	100 mA to 1 A	0.063% to 0.082%	Using 6½ Digit Multimeter by Direct Method
31	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC High Current	20 A to 1000 A	0.63% to 0.70%	Using Source with 6½ DMM & 0.1 Shunt, AC/DC 2000A/75mV Shunt by Direct Method
32	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC High Voltage	1 kV to 50 kV	3.9% to 5.9%	Using HV Probe with DMM (Kusam Meco) by Direct Method
33	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	1 Ohm to 100 k Ohm	0.35% to 0.013%	Using 6½ Digit Multimeter by Direct Method



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ZEAL MANUFACTURING AND CALIBRATION SERVICES PRIVATE LIMITED, UNIT NO.D-104, SATYAM INDUSTRIAL ESTATE, OFF KARVE ROAD, ERANDWANE, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2042 Page No. : 17 / 20

Validity 03/03/2019 to 02/03/2021 Last Amended on 10/05/2019

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
34	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	10 M Ohm to 100 M Ohm	0.05% to 0.92%	Using 6½ Digit Multimeter by Direct Method
35	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	100 K Ohm to 10 M Ohm	0.013% to 0.05%	Using 6½ Digit Multimeter by Direct Method
36	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	100 M Ohm to 1000 M Ohm	0.92% to 2.29%	Using 6½ Digit Multimeter by Direct Method
37	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance (4 Wire)Discrete	1 m ohm	0.09%	Using Multifunction Calibrator Fluke 9100 & 6½ digit DMM
38	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance (4 Wire)Discrete	1 ohm	0.03%	Using Multifunction Calibrator Fluke 9100 & 6½ digit DMM
39	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance (4 Wire)Discrete	10 µohm	1.99%	Using Multifunction Calibrator Fluke 9100 & 6½ digit DMM
40	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance (4 Wire)Discrete	10 m ohm	0.09%	Using Multifunction Calibrator Fluke 9100 & 6½ digit DMM
41	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance (4 Wire)Discrete	100 µohm	0.21%	Using Multifunction Calibrator Fluke 9100 & 6½ digit DMM
42	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance (4 Wire)Discrete	100 m ohm	0.08%	Using Multifunction Calibrator Fluke 9100 & 6½ digit DMM
43	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance (4 Wire)Discrete	50 µohm	0.41%	Using Multifunction Calibrator Fluke 9100 & 6½ digit DMM



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name	ZEAL MANUFACTURING AND CALIBRATION SERVICES PRIVATE LIMITED, UNIT NO.D-104, SATYAM INDUSTRIAL ESTATE, OFF KARVE ROAD, ERANDWANE, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2042	Page No. :	18 / 20
Validity	03/03/2019 to 02/03/2021	Last Amended on	10/05/2019

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
44	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	0.1 mV to 0.5 mV	3.99% to 0.80%	Using 6½ Digit Multimeter by Direct Method
45	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	0.5 mV to 1 mV	0.80% to 0.40%	Using 6½ Digit Multimeter by Direct Method
46	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	1 mV to 20 mV	0.40% to 0.024%	Using 6½ Digit Multimeter by Direct Method
47	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	100 mV to 100 V	0.008% to 0.005%	Using 6½ Digit Multimeter by Direct Method
48	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	100 V to 1000 V	0.005% to 0.006%	Using 6½ Digit Multimeter by Direct Method
49	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	20 mV to 100 mV	0.024% to 0.008%	Using 6½ Digit Multimeter by Direct Method
50	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	High Resistance (@Test Voltage upto 1000V)	5 Mohm to 100 Gohm	2.52% to 8.45%	Using Mega ohm Meter by Direct Method
51	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	0.1 mA to 20 mA	0.2% to 0.17%	Using 5½ Digit Multifunction Calibrator by Direct Method
52	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	10 A to 1000 A	0.74%	Using 5½ Digit Multifunction Calibrator by Direct Method
53	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	20 mA to 10 A	0.17% to 0.15%	Using 5½ Digit Multifunction Calibrator by Direct Method



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ZEAL MANUFACTURING AND CALIBRATION SERVICES PRIVATE LIMITED, UNIT NO.D-104, SATYAM INDUSTRIAL ESTATE, OFF KARVE ROAD, ERANDWANE, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2042 Page No. : 19 / 20

Validity 03/03/2019 to 02/03/2021 Last Amended on 10/05/2019

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
54	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	1 mV to 200 mV	0.88% to 0.12%	Using 5½ Digit Multifunction Calibrator by Direct Method
55	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	200 V to 1000 V	0.12%	Using 5½ Digit Multifunction Calibrator by Direct Method
56	ELECTRO-TECHNICAL- TEMPERATURE SIMULATION (Source)	RTD Type	0 °C	0.6 °C	Using mV/mARTD Calibrator by Simulation Method
57	ELECTRO-TECHNICAL- TEMPERATURE SIMULATION (Source)	RTD Type	100 °C	0.76 °C	Using mV/mARTD Calibrator by Simulation Method
58	ELECTRO-TECHNICAL- TEMPERATURE SIMULATION (Source)	RTD Type	25 °C	0.75 °C	Using mV/mARTD Calibrator by Simulation Method
59	ELECTRO-TECHNICAL- TEMPERATURE SIMULATION (Source)	RTD Type	-25 °C	0.6 °C	Using mV/mARTD Calibrator by Simulation Method
60	ELECTRO-TECHNICAL- TEMPERATURE SIMULATION (Source)	RTD Type	300 °C	0.82 °C	Using mV/mARTD Calibrator by Simulation Method
61	ELECTRO-TECHNICAL- TEMPERATURE SIMULATION (Source)	RTD Type	400 °C	0.87 °C	Using mV/mARTD Calibrator by Simulation Method



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ZEAL MANUFACTURING AND CALIBRATION SERVICES PRIVATE LIMITED, UNIT NO.D-104, SATYAM INDUSTRIAL ESTATE, OFF KARVE ROAD, ERANDWANE, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2042 Page No. : 20 / 20

Validity 03/03/2019 to 02/03/2021 Last Amended on 10/05/2019

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD Type	50 °C	0.75 °C	Using mV/mA/RTD Calibrator by Simulation Method
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD Type	-50 °C	0.6 °C	Using mV/mA/RTD Calibrator by Simulation Method
64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD Type	75 °C	0.75 °C	Using mV/mA/RTD Calibrator by Simulation Method
65	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	0.2 Hz to 1 Hz	0.28% to 0.06%	Using Frequency Counter by Direct Method
66	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	1 Hz to 225 MHz	0.06% to 0.25%	Using Frequency Counter by Direct Method
67	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Period	5 ns to 5 s	0.01%	Using Frequency Counter by Direct Method
68	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time	6 s to 24 hr	1.2s to 7.3s	Using Digital stop watch by Direct Method