



CERTIFICATE OF ACCREDITATION

JOSTS ENGINEERING COMPANY LIMITED(CALIBRATION LABORATORY)

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

C-7, RD NUMBER 12, WAGLE INDUSTRIAL ESTATE, THANE WEST, THANE, MAHARASHTRA, INDIA

in the field of

CALIBRATION

Certificate Number:

CC-3519

Issue Date:

25/01/2023

Valid Until:

24/01/2025

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL. (To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity: JOSTS ENGINEERING COMPANY LIMITED

Signed for and on behalf of NABL



N. Venkateswaran Chief Executive Officer





SCOPE OF ACCREDITATION

Laboratory Name:

JOSTS ENGINEERING COMPANY LIMITED (CALIBRATION LABORATORY), C-7, RD

NUMBER 12, WAGLE INDUSTRIAL ESTATE, THANE WEST, THANE, MAHARASHTRA,

INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3519

Page No

1 of 20

Validity

25/01/2023 to 24/01/2025

Last Amended on

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
		1 30	Permanent Facility		
1	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz	Using Digital Multimeter By Direct Method	1 A to 10 A	0.18 % to 0.23 %
2	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz	Using Digital Multimeter By Direct Method	100 μA to 100 mA	0.37 % to 0.20 %
3	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz	Using Digital Multimeter By Direct Method	100 mA to 1 A	0.079 % to 0.11 %
4	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC High Voltage @50Hz	Using HV Probe with Digital Multimeter By Direct Method	1 kV to 20 kV	3.59 % to 3.71 %





SCOPE OF ACCREDITATION

Laboratory Name:

JOSTS ENGINEERING COMPANY LIMITED (CALIBRATION LABORATORY), C-7, RD

NUMBER 12, WAGLE INDUSTRIAL ESTATE, THANE WEST, THANE, MAHARASHTRA,

INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3519

Page No

2 of 20

Validity

25/01/2023 to 24/01/2025

Last Amended on

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
5	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz	Using Digital Multimeter By Direct Method	1 V to 750 V	0.099 % to 0.12 %
6	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz	Using Digital Multimeter By Direct Method	10 mV to 100 mV	0.30 % to 0.11 %
7	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz	Using Digital Multimeter By Direct Method	100 mV to 1 V	0.11 % to 0.099 %
8	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Capacitance (at 1 kHz)	Using Digital Multimeter By Direct Method	1 nF to 100 μF	1.78 % to 1.58 %
9	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Capacitance (For Tan Delta) (Freq 50 Hz)	Using Standerd Capacitor by Direct method	100 pF	2.26 pF





SCOPE OF ACCREDITATION

Laboratory Name:

JOSTS ENGINEERING COMPANY LIMITED (CALIBRATION LABORATORY), C-7, RD

NUMBER 12, WAGLE INDUSTRIAL ESTATE, THANE WEST, THANE, MAHARASHTRA,

INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3519

Page No

3 of 20

Validity

25/01/2023 to 24/01/2025

Last Amended on

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
10	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Voltage @50 Hz	Using Digital Multimeter By Direct Method	1 mV to 10 mV	2.949 % to 0.299 %
11	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using Multi Product Calibrator With 50Turn Coil By Direct Method	10 A to 1000 A	0.092 % to 1.44 %
12	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using Multi Product Calibrator by Direct method	100 mA to 1 A	0.33 % to 0.078 %
13	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using Multi Product Calibrator by Direct method	29 μA to 100 mA	0.53 % to 0.33 %
14	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using Multi Product Calibrator by Direct method	1 A to 10 A	0.078 % to 0.092 %





SCOPE OF ACCREDITATION

Laboratory Name:

JOSTS ENGINEERING COMPANY LIMITED (CALIBRATION LABORATORY), C-7, RD

NUMBER 12, WAGLE INDUSTRIAL ESTATE, THANE WEST, THANE, MAHARASHTRA,

INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3519

Page No

4 of 20

Validity

25/01/2023 to 24/01/2025

Last Amended on

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
15	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power Single Phase (50 Hz) 80V - 300V, 0.1A - , 6A 0.5PF to UPF (Lag/Lead),	Using Three Phase Power Energy Meter Calibrator by Direct method	4 W to 1800W	0.20%
16	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power Three Phase (50 Hz)80V -480V, 0.1A -, 6A, 0.5PF to UPF (Lag/Lead)	Using Three Phase Power Energy Meter Calibrator by Direct method	4 W to 2.88 kW	0.20%
17	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multi Product Calibrator by Direct method	100 mV to 1 V	0.21 % to 0.079 %
18	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @50 Hz	Using Multi Product Calibrator by Direct method	1 mV to 10 mV	0.66 % to 0.042 %
19	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @50 Hz	Using Multi Product Calibrator by Direct method	1 V to 750 V	0.079 % to 0.088 %
20	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @50 Hz	Using Multi Product Calibrator by Direct method	10 mV to 100 mV	0.27 % to 0.21 %





SCOPE OF ACCREDITATION

Laboratory Name:

JOSTS ENGINEERING COMPANY LIMITED (CALIBRATION LABORATORY), C-7, RD

NUMBER 12, WAGLE INDUSTRIAL ESTATE, THANE WEST, THANE, MAHARASHTRA,

INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3519

Page No

5 of 20

Validity

25/01/2023 to 24/01/2025

Last Amended on

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
21	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (For Tan Delta) (at 50 Hz)	Using Standerd Capacitor by Direct method	118 pF	2.68 pF
22	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (For Tan Delta) (Freq 50 Hz)	Using Standerd Capacitor by Direct method	18 pF	0.4 pF
23	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (Freq 1 kHz)	Using Multi Product Calibrator by Direct method	220 pF to 110 μF	1.78%
24	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Tan Delta (Equipment Group) @ 50 Hz	Using Tan Delta Bridge & Standard Capacitor by Direct Method	0 to 0.091	0.00025
25	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter By Direct Method	1 A to 10 A	0.055 % to 0.20 %
26	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter By Direct Method	1 mA to 10 mA	0.077 % to 0.093 %





SCOPE OF ACCREDITATION

Laboratory Name:

JOSTS ENGINEERING COMPANY LIMITED(CALIBRATION LABORATORY), C-7, RD

NUMBER 12, WAGLE INDUSTRIAL ESTATE, THANE WEST, THANE, MAHARASHTRA,

INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3519

Page No

6 of 20

Validity

25/01/2023 to 24/01/2025

Last Amended on

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
27	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using DC Shunts with Digital multimeter by Direct Method	10 A to 600 A	0.4 % to 0.7 %
28	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter By Direct Method	10 mA to 100 mA	0.093 % to 0.012 %
29	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter By Direct Method	100 μA to 1 mA	0.26 % to 0.077 %
30	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter By Direct Method	100 mA to 1 A	0.012 % to 0.055 %
31	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with Digital Multimeter by Direct method	1 kV to 20 kV	2.92 % to 3.0 %
32	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	Using Digital Multimeter By Direct Method	1 mV to 100 mV	0.54 % to 0.015 %





SCOPE OF ACCREDITATION

Laboratory Name:

JOSTS ENGINEERING COMPANY LIMITED(CALIBRATION LABORATORY), C-7, RD

NUMBER 12, WAGLE INDUSTRIAL ESTATE, THANE WEST, THANE, MAHARASHTRA,

INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3519

Page No

7 of 20

Validity

25/01/2023 to 24/01/2025

Last Amended on

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
33	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	Using Digital Multimeter By Direct Method	100 mV to 1000 V	0.015 % to 0.009 %
34	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	Resistance (2 & 4 Wires)	Using Digital Multimeter By Direct Method	100 kohm to 100 Mohm	0.014 % to 1.93 %
35	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	Resistance (2 & 4 Wires)	Using Digital Multimeter By Direct Method	100 Mohm to 1 Gohm	1.93 % to 4.97 %
36	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	Resistance (2 & 4 Wires)	Using Digital Multimeter By Direct Method	100 Ohm to 100 kohm	0.051 % to 0.014 %
37	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	Resistance (4 Wires)	Using Digital Multimeter By Direct Method	1 Ohm to 100 Ohm	0.051 % to 0.014 %
38	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	1 mA to 10 mA	0.4 % to 0.25 %





SCOPE OF ACCREDITATION

Laboratory Name:

JOSTS ENGINEERING COMPANY LIMITED(CALIBRATION LABORATORY), C-7, RD

NUMBER 12, WAGLE INDUSTRIAL ESTATE, THANE WEST, THANE, MAHARASHTRA,

INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3519

Page No

8 of 20

Validity

25/01/2023 to 24/01/2025

Last Amended on

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
39	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator With 50Turn current Coil By Direct Method	10 A to 1000 A	0.092 % to 1.12 %
40	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	10 mA to 100 mA	0.25 % to 0.12 %
41	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	100 μA to 1 mA	0.55 % to 0.4 %
42	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	100 mA to 10 A	0.12 % to 0.092 %
43	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct method	1 mV to 10 mV	2.031 % to 0.098 %
44	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct method	10 mV to 1 V	0.098 % to 0.069 %





SCOPE OF ACCREDITATION

Laboratory Name:

JOSTS ENGINEERING COMPANY LIMITED (CALIBRATION LABORATORY), C-7, RD

NUMBER 12, WAGLE INDUSTRIAL ESTATE, THANE WEST, THANE, MAHARASHTRA,

INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3519

Page No

9 of 20

Validity

25/01/2023 to 24/01/2025

Last Amended on

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
45	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct method	0.01 Ohm to 1 Ohm	1.38 % to 0.025 %
46	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct method	1 Ohm to 1 Mohm	0.025 % to 0.004 %
47	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	Resistance	Using High Stability Decade Mega Ohm Box by Direct method	10 Mohm to 100 Gohm	1.80 % to 2.054%
48	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	Resistance	Using High Stability Decade Mega Ohm Box by Direct method	100 Gohm to 1000 Gohm	2.054 % to 2.89 %
49	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multi Product Calibrator by Direct method	100 Mohm to 1 Gohm	0.58 % to 1.80 %
50	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	Resistance (4 Wires)	Using Multi Product Calibrator by Direct method	1 Mohm to 100 Mohm	0.017 % to 0.58 %





SCOPE OF ACCREDITATION

Laboratory Name:

JOSTS ENGINEERING COMPANY LIMITED(CALIBRATION LABORATORY), C-7, RD

NUMBER 12, WAGLE INDUSTRIAL ESTATE, THANE WEST, THANE, MAHARASHTRA,

INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3519

Page No

10 of 20

Validity

25/01/2023 to 24/01/2025

Last Amended on

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
51	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	Resistance (4 Wires)	Using Multi Product Calibrator by Direct method	1 Ohm to 100 Ohm	0.16 % to 0.012 %
52	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	Resistance (4 Wires)	Using Multi Product Calibrator by Direct method	100 Ohm to 1 Mohm	0.012 % to 0.017 %
53	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	Voltage	Using Multi Product Calibrator by Direct method	1 V to 1000 V	0.069 % to 0.081 %





SCOPE OF ACCREDITATION

Laboratory Name:

JOSTS ENGINEERING COMPANY LIMITED (CALIBRATION LABORATORY), C-7, RD

NUMBER 12, WAGLE INDUSTRIAL ESTATE, THANE WEST, THANE, MAHARASHTRA,

INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3519

Page No

11 of 20

Validity

25/01/2023 to 24/01/2025

Last Amended on

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
		2.0	Site Facility		
1	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz	Using Digital Multimeter By Direct Method	1 A to 10 A	0.18 % to 0.23 %
2	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz	Using Digital Multimeter By Direct Method	100 μA to 100 mA	0.37 % to 0.20 %
3	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz	Using Digital Multimeter By Direct Method	100 mA to 1 A	0.079 % to 0.11 %
4	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using 100 kV HV Potential Divider By Direct Method	20 kV to 100 kV	3.71 % to 3.43%





SCOPE OF ACCREDITATION

Laboratory Name:

JOSTS ENGINEERING COMPANY LIMITED(CALIBRATION LABORATORY), C-7, RD

NUMBER 12, WAGLE INDUSTRIAL ESTATE, THANE WEST, THANE, MAHARASHTRA,

INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3519

Page No

12 of 20

Validity

25/01/2023 to 24/01/2025

Last Amended on

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
5	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC High Voltage @50Hz	Using HV Probe with Digital Multimeter By Direct Method	1 kV to 20 kV	3.59 % to 3.71 %
6	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz	Using Digital Multimeter By Direct Method	1 V to 750 V	0.099 % to 0.12 %
7	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz	Using Digital Multimeter By Direct Method	10 mV to 100 mV	0.30 % to 0.11 %
8	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz	Using Digital Multimeter By Direct Method	100 mV to 1 V	0.11 % to 0.099 %
9	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Capacitance (at 1 kHz)	Using Digital Multimeter By Direct Method	1 nF to 100 μF	1.78 % to 1.58 %





SCOPE OF ACCREDITATION

Laboratory Name:

JOSTS ENGINEERING COMPANY LIMITED (CALIBRATION LABORATORY), C-7, RD

NUMBER 12, WAGLE INDUSTRIAL ESTATE, THANE WEST, THANE, MAHARASHTRA,

INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3519

Page No

13 of 20

Validity

25/01/2023 to 24/01/2025

Last Amended on

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
10	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Capacitance (For Tan Delta) (Freq 50 Hz)	Using Standerd Capacitor by Direct method	100 pF	2.26 pF
11	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Voltage @50 Hz	Using Digital Multimeter By Direct Method	1 mV to 10 mV	2.949 % to 0.299 %
12	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using Multi Product Calibrator With 50Turn Coil By Direct Method	10 A to 1000 A	0.092 % to 1.44 %
13	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using Multi Product Calibrator by Direct method	100 mA to 1 A	0.33 % to 0.078 %
14	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using Multi Product Calibrator by Direct method	29 μA to 100 mA	0.53 % to 0.33 %





SCOPE OF ACCREDITATION

Laboratory Name:

JOSTS ENGINEERING COMPANY LIMITED(CALIBRATION LABORATORY), C-7, RD

NUMBER 12, WAGLE INDUSTRIAL ESTATE, THANE WEST, THANE, MAHARASHTRA,

INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3519

Page No

14 of 20

Validity

25/01/2023 to 24/01/2025

Last Amended on

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
15	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using Multi Product Calibrator by Direct method	1 A to 10 A	0.078 % to 0.092 %
16	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power Single Phase (50 Hz) 80V - 300V, 0.1A - , 6A 0.5PF to UPF (Lag/Lead),	Using Three Phase Power Energy Meter Calibrator by Direct method	4 W to 1800W	0.20%
17	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power Three Phase (50 Hz)80V -480V, 0.1A -, 6A, 0.5PF to UPF (Lag/Lead)	Using Three Phase Power Energy Meter Calibrator by Direct method	4 W to 2.88 kW	0.20%
18	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multi Product Calibrator by Direct method	100 mV to 1 V	0.21 % to 0.079 %
19	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @50 Hz	Using Multi Product Calibrator by Direct method	1 mV to 10 mV	0.66 % to 0.042 %
20	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @50 Hz	Using Multi Product Calibrator by Direct method	1 V to 750 V	0.079 % to 0.088 %





SCOPE OF ACCREDITATION

Laboratory Name:

JOSTS ENGINEERING COMPANY LIMITED(CALIBRATION LABORATORY), C-7, RD

NUMBER 12, WAGLE INDUSTRIAL ESTATE, THANE WEST, THANE, MAHARASHTRA,

INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3519

Page No

15 of 20

Validity

25/01/2023 to 24/01/2025

Last Amended on

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
21	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @50 Hz	Using Multi Product Calibrator by Direct method	10 mV to 100 mV	0.27 % to 0.21 %
22	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (For Tan Delta) (at 50 Hz)	Using Standerd Capacitor by Direct method	118 pF	2.68 pF
23	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (For Tan Delta) (Freq 50 Hz)	Using Standerd Capacitor by Direct method	18 pF	0.4 pF
24	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (Freq 1 kHz)	Using Multi Product Calibrator by Direct method	220 pF to 110 μF	1.78%
25	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Tan Delta (Equipment Group) @ 50 Hz	Using Tan Delta Bridge & Standard Capacitor by Direct Method	0 to 0.091	0.00025
26	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter By Direct Method	1 A to 10 A	0.055 % to 0.20 %





SCOPE OF ACCREDITATION

Laboratory Name:

JOSTS ENGINEERING COMPANY LIMITED(CALIBRATION LABORATORY), C-7, RD

NUMBER 12, WAGLE INDUSTRIAL ESTATE, THANE WEST, THANE, MAHARASHTRA,

INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3519

Page No

16 of 20

Validity

25/01/2023 to 24/01/2025

Last Amended on

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
27	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter By Direct Method	1 mA to 10 mA	0.077 % to 0.093 %
28	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using DC Shunts with Digital multimeter by Direct Method	10 A to 600 A	0.4 % to 0.7 %
29	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter By Direct Method	10 mA to 100 mA	0.093 % to 0.012 %
30	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter By Direct Method	100 μA to 1 mA	0.26 % to 0.077 %
31	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter By Direct Method	100 mA to 1 A	0.012 % to 0.055 %
32	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with Digital Multimeter by Direct method	1 kV to 20 kV	2.92 % to 3.0 %





SCOPE OF ACCREDITATION

Laboratory Name:

JOSTS ENGINEERING COMPANY LIMITED(CALIBRATION LABORATORY), C-7, RD

NUMBER 12, WAGLE INDUSTRIAL ESTATE, THANE WEST, THANE, MAHARASHTRA,

INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3519

Page No

17 of 20

Validity

25/01/2023 to 24/01/2025

Last Amended on

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
33	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe Digital Multimeter by Direct method	20 kV to 65 kV	3 % to 2.85 %
34	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	Using Digital Multimeter By Direct Method	1 mV to 100 mV	0.54 % to 0.015 %
35	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	Using Digital Multimeter By Direct Method	100 mV to 1000 V	0.015 % to 0.009 %
36	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	Resistance (2 & 4 Wires)	Using Digital Multimeter By Direct Method	100 kohm to 100 Mohm	0.014 % to 1.93 %
37	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	Resistance (2 & 4 Wires)	Using Digital Multimeter By Direct Method	100 Mohm to 1 Gohm	1.93 % to 4.97 %
38	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	Resistance (2 & 4 Wires)	Using Digital Multimeter By Direct Method	100 Ohm to 100 kohm	0.051 % to 0.014 %





SCOPE OF ACCREDITATION

Laboratory Name:

JOSTS ENGINEERING COMPANY LIMITED(CALIBRATION LABORATORY), C-7, RD

NUMBER 12, WAGLE INDUSTRIAL ESTATE, THANE WEST, THANE, MAHARASHTRA,

INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3519

Page No

18 of 20

Validity

25/01/2023 to 24/01/2025

Last Amended on

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
39	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	Resistance (4 Wires)	Using Digital Multimeter By Direct Method	1 Ohm to 100 Ohm	0.051 % to 0.014 %
40	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	1 mA to 10 mA	0.4 % to 0.25 %
41	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator With 50Turn current Coil By Direct Method	10 A to 1000 A	0.092 % to 1.12 %
42	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	10 mA to 100 mA	0.25 % to 0.12 %
43	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	100 μA to 1 mA	0.55 % to 0.4 %
44	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	100 mA to 10 A	0.12 % to 0.092 %





SCOPE OF ACCREDITATION

Laboratory Name:

JOSTS ENGINEERING COMPANY LIMITED(CALIBRATION LABORATORY), C-7, RD

NUMBER 12, WAGLE INDUSTRIAL ESTATE, THANE WEST, THANE, MAHARASHTRA,

INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3519

Page No

19 of 20

Validity

25/01/2023 to 24/01/2025

Last Amended on

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
45	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct method	1 mV to 10 mV	2.031 % to 0.098 %
46	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct method	10 mV to 1 V	0.098 % to 0.069 %
47	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct method	0.01 Ohm to 1 Ohm	1.38 % to 0.025 %
48	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct method	1 Ohm to 1 Mohm	0.025 % to 0.004 %
49	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	Resistance	Using High Stability Decade Mega Ohm Box by Direct method	10 Mohm to 100 Gohm	1.80 % to 2.054%
50	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	Resistance	Using High Stability Decade Mega Ohm Box by Direct method	100 Gohm to 1000 Gohm	2.054 % to 2.89 %





SCOPE OF ACCREDITATION

Laboratory Name:

JOSTS ENGINEERING COMPANY LIMITED (CALIBRATION LABORATORY), C-7, RD

NUMBER 12, WAGLE INDUSTRIAL ESTATE, THANE WEST, THANE, MAHARASHTRA,

INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3519

Page No

20 of 20

Validity

25/01/2023 to 24/01/2025

Last Amended on

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
51	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multi Product Calibrator by Direct method	100 Mohm to 1 Gohm	0.58 % to 1.80 %
52	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	Resistance (4 Wires)	Using Multi Product Calibrator by Direct method	1 Mohm to 100 Mohm	0.017 % to 0.58 %
53	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	Resistance (4 Wires)	Using Multi Product Calibrator by Direct method	1 Ohm to 100 Ohm	0.16 % to 0.012 %
54	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	Resistance (4 Wires)	Using Multi Product Calibrator by Direct method	100 Ohm to 1 Mohm	0.012 % to 0.017 %
55	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	Voltage	Using Multi Product Calibrator by Direct method	1 V to 1000 V	0.069 % to 0.081 %

^{*} CMCs represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of k = 2.