



National Accreditation Board for  
Testing and Calibration Laboratories

**CERTIFICATE OF ACCREDITATION**

**ESSJAY TECHNOMEASURE PRIVATE LIMITED**

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

36 KANTAPUKUR 3RD BYE LANE FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

in the field of

**CALIBRATION**

Certificate Number: CC-2628

Issue Date: 04/01/2023

Valid Until:

02/02/2024

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](http://www.nabl-india.org))

Name of Legal Identity: ESSJAY TECHNOMEASURE PRIVATE LIMITED

Signed for and on behalf of NABL



N. Venkateswaran  
Chief Executive Officer



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

1 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage	By direct method/Using 6 ½ digit DMM	1 V to 1000 V	0.15 % to 0.40 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage at 50 Hz	By direct method/Using 6 ½ digit DMM	10 mV to 1 V	0.74 % to 0.15 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Alternating Current at 50 hz	By direct method/Using 6 ½ digit DMM	1 A to 10 A	0.63 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Alternating Current at 50 Hz	By direct method/Using 6 ½ digit DMM	10 mA to 100 mA	0.30 % to 0.52 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

2 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)	Alternating Current at 50 Hz	By direct method/Using 6 ½ digit DMM	100 mA to 1 A	0.52 % to 0.63 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (100 Hz to 1 kHz)	By direct method/Using 6 ½ digit DMM	1 nF to 100 µF	5.84 % to 1.81 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Energy Phase-I (20V to 220V, 1A to 5A, upto UPF	by direct method/using powerline analyzer	1 kWh to 10 kWh	2 % to 1 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Energy Phase-III (230V-320V, 5A, UPF)	by direct method/using Power line analyzer	0.1 kWh to 10 kWh	0.35 % to 0.64 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Frequency	By direct method/Using 6 ½ digit DMM	10 Hz to 1 kHz	0.10 % to 0.09 %





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

3 of 57

**Validity**

04/01/2023 to 02/02/2024

**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) (Source)	AC Power(UPF to 0.2 PF lead/lag,120V to 240 V,0.01 A to 20 A)	using MFC by direct method	1200 W to 2400 W	1.5 % to 0.2 %
11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power(UPF to 0.2 PF lead/lag,120V to 240 V,0.01 A to 20 A)	using MFC by direct method	240 W to 500 W	3 % to 5 %
12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power(UPF to 0.2 PF lead/lag,120V to 240 V,0.01 A to 20 A)	using MFC by direct method	2400 W to 3840 W	0.2 % to 0.1 %
13	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power(UPF to 0.2 PF lead/lag,120V to 240 V,0.01 A to 20 A)	using MFC by direct method	500 W to 1200 W	5 % to 1.5 %
14	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage at (50 Hz to 1 kHz)	using MFC by direct method	>1 V to 300 V	0.156 %
15	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage at (50 Hz to 1 kHz)	using MFC by direct method	>300 mV to 1 V	0.05 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

4 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage at (50 Hz to 1 kHz)	using MFC by direct method	>300 V to 1000 V	0.092 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage at (50 Hz to 1 kHz)	using MFC by direct method	1 mV to 300 mV	3.44 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Alternating Current at (45 Hz to 1 kHz)	using MFC by direct method	>1 A to 20 A	0.36 % to 0.10 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Alternating Current at (45 Hz to 1 kHz)	using MFC by direct method	>1 mA to 30 mA	0.17 % to 0.06 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Alternating Current at (45 Hz to 1 kHz)	using MFC by direct method	>30 mA to 300 mA	0.06 % to 0.03 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Alternating Current at (45 Hz to 1 kHz)	using MFC by direct method	>300 mA to 1 A	0.03 % to 0.38 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

5 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Alternating Current at (45 Hz to 1 kHz)	using MFC by direct method	>330 $\mu$ A to 1 mA	0.19 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Alternating Current at (45 Hz to 1 kHz)	using MFC by direct method	33 $\mu$ A to 330 $\mu$ A	0.36 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Alternating Current at (50 Hz)	Using current coil using MFC by direct method	20 A to 1000 A	0.44 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	using MFC by direct method	0.40 nF to 1 nF	4.35 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	using MFC by direct method	1 nF to 300 nF	1.74 % to 0.41 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance (100 Hz to 1 kHz)	using MFC by direct method	300 nF to 109 $\mu$ F	0.45 %





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

6 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
28	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	DC Voltage	using MFC by direct method:	>1 V to 300 V	0.01 %
29	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	DC Voltage	using MFC by direct method	>300 mV to 1 V	0.57 %
30	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	DC Voltage	using MFC by direct method	>300 V to 1000 V	0.01 %
31	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	DC Voltage	using MFC by direct method	1 mV to 300 mV	0.66 %
32	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Frequency	using MFC by direct method	1 Hz to 100 Hz	1.7 %
33	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Frequency	using MFC by direct method:	10 kHz to 100 kHz	1.70 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

7 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
34	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Frequency	using MFC by direct method	100 Hz to 10 kHz	0.03 %
35	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	Direct Current	By direct method/Using 6 ½ digit DMM	1 A to 10 A	0.17 % to 0.18 %
36	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	Direct Current	By direct method/Using 6 ½ digit DMM	100 µA to 100 mA	0.7 % to 0.1 %
37	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	Direct Current	By direct method/Using 6 ½ digit DMM	100 mA to 1 A	0.1 % to 0.1 7 %
38	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	Direct Voltage	By direct method/Using 6 ½ digit DMM	1 mV to 1000 V	0.43 % to 0.013 %
39	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	Resistance	By direct method/Using 6 ½ digit DMM	1 kohm to 10 kohm	1.7 % to 0.14 %





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

8 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By direct method/Using 6 ½ digit DMM	1 ohm to 1 kohm	1.73 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By direct method/Using 6 ½ digit DMM	10 kohm to 100 kohm	0.14 % to 0.06 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By direct method/Using 6 ½ digit DMM	100 kohm to 100 Mohm	0.06 % to 1.09 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	using MFC by direct method	1 µA to 330 µA	2.36 % to 0.024 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	using MFC by direct method	1 A to 20 A	0.13 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	using MFC by direct method	1 mA to 30 mA	0.06 % to 0.013 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

9 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	Using Current Coil using MFC by direct method	20 A to 1000 A	0.35 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	using MFC by direct method	30 mA to 300 mA	0.013 % to 0.013 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	using MFC by direct method	300 mA to 1 A	0.013 % to 0.048 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	using MFC by direct method	330 µA to 1 mA	0.024 % to 0.06 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance at 100 V	using Megaohm Decade Box by direct method	0.1 Mohm to 1 Mohm	1.7 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance at 1000 V	using Megaohm Decade Box by direct method	1 Mohm to 2 Gohm	1.44 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

10 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance at 1000 V	using Megaohm Decade Box by direct method	2 Gohm to 5 Gohm	1.44 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance at 5000 V	using Megaohm Decade Box by direct method	10 Gohm to 100 Gohm	3.88 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance at 5000 V	using Megaohm Decade Box by direct method	5 Gohm to 10 Gohm	1.18 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using MFC by direct method:	>3 kohm to 300 kohm	0.86 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using MFC by direct method:	>300 ohm to 3 kohm	0.80 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using MFC by direct method:	>300 kohm to 1100 Mohm	0.86 % to 1.70 %





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

11 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using Time Electronics tester by Direct Method	1 kohm to 19.99 kohm	1.97 % to 0.12 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using Time Electronics tester by Direct Method	1 mohm to 200 mohm	0.89 % to 0.14 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using MFC by direct method	1 ohm to 300 ohm	1.73 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using Time Electronics tester by Direct Method	2 ohm to 1 kohm	1.97 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using Time Electronics tester by Direct Method	200 μOhm to 1 mOhm	1.25 % to 3.63 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using Time Electronics tester by Direct Method	200 mohm to 2 ohm	0.14 % to 0.36 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

12 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using Time Electronics tester by Direct Method	50 $\mu$ ohm to 200 $\mu$ ohm	3.58 % to 1.25 %
65	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Time Interval	by comparison method /using Digital Timer	>10 hr to 24 hr	26 s to 101.6 s
66	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Time Interval	by comparison method /using Digital Timer	>1800 s to 3600 s	5.10 s
67	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Time Interval	by comparison method /using Digital Timer	>2 hr to 10 hr	5.1 s to 26 s
68	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Time Interval	by comparison method /using Digital Timer	>3600 s to 2 hr	5.1 s
69	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Time Interval	by comparison method /using Digital Timer	>60 s to 1800 s	0.25 s to 5.1 s



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

13 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
70	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Time Interval	by comparison method /using Digital Timer	1 s to 60 s	0.25 s
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD type- pt-100	By direct method/Using 6 ½ digit DMM	(-)200 °C to 650 °C	0.63 °C to 0.29 °C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD Pt-100 type	Using MFC by Simulation method	-200 °C to 850 °C	0.25 °C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple type-B	Using MFC by Simulation method	500 °C to 1800 °C	0.8 °C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple type-E	Using MFC by Simulation method	(-)200 °C to 1000 °C	0.7 °C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple type-J	Using MFC by Simulation method	(-)210 °C to 1200 °C	0.5 °C





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

14 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple type-K	Using MFC by Simulation method	(-)-250 °C to 1370 °C	0.7 °C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple type-L	Using MFC by Simulation method	(-)-200 °C to 900 °C	0.6 °C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple type-N	Using MFC by Simulation method	(-)-200 °C to 1300 °C	0.68 °C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple type-R	Using MFC by Simulation method	(-)-200 °C to 1760 °C	0.87 °C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple type-S	Using MFC by Simulation method	0 °C to 1750 °C	0.79 °C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple type-T	Using MFC by Simulation method	(-)-250 °C to 400 °C	0.65 °C



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

15 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
82	MECHANICAL-ACCELERATION AND SPEED	RPM (Non contact type)RPM meter,Tachometer,C entrifuge	By comparison method as per SANAS TR 45-01/using Digital tachometer and LED type rpm:	20 rpm to 40000 rpm	0.88 %
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angular graticule (angle)	using profile projector by direct method	0° to 360°	52 "
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector (L.C. 5')	by comparison method /using Profile Projector	0° to 180°	50 "
85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Dial Gauge(for transmission movement) LC:0.01 mm	by comparison method /using Dial Calibration Tester	upto 2 mm	1.90 μm
86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness gauge (L.C. 0.1μm)	by comparison method using standard foils	upto 1 mm	1.2 μm



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

16 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge L.C 1 µm	by comparison method /using Standard Foils	upto 2 mm	3.20 µm
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	cube Mould	using Digimatic caliper/by comparison method	250 mm	15 µm
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer LC:0.01 mm	by comparison method/using Slip Gauge and Surface Plate	upto 150 mm	5.95 µm
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier Gauge LC:0.02 mm	by comparison method /using Slip Gauge & Surface Plate :	upto 300 mm	12 µm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digimatic Caliper LC:0.005 mm	by comparison method /using Slip Gauge and Digital Micrometer	upto 300 mm	4.60 µm





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

17 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Caliper L.C :0.01 mm	By comparison method/using Caliper Checker	0 to 1000 mm	11.36 µm
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Indicator/ Plunger : Dial Gauges, L.C: 0.001 mm	by comparison method /using Dial Calibration tester	25 mm	1.9 µm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	by comparison method using Digimatic micrometer	upto 2 mm	1.70 µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness gauge/ Elongation gauge	using digital caliper by comparison method	upto 125 mm	17 µm
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegman Gauge	using dial indicator by comparison method	0 to 100µm	2 µm



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

18 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height gauge, L.C: 0.01 mm	By comparison method using Caliper Checker	0 to 1000 mm	6 µm
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer LC:-0.01 mm	by comparison method using Slip Gauge and Digital Indicator	50 mm to 1000 mm	9.50 µm
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever type Dial gauge,L.C:0.01 mm	by comparison method /using Dial Calibration Tester	upto 1 mm	1.9 µm
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Microscope (Magnification)	by comparison method using glass scale	10X,20X,40X,50X,80 X,100X	0.5 %
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Micrometer LC:-0.001 mm	by comparison method using Slip Guge	25 mm	1.80 µm



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

19 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Micrometer LC:0.01 mm	by comparison method using Slip Gauge	25 mm to 600 mm	4.50 µm
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper LC:0.01 mm	by comparison method using Slip Gauge	upto 100 mm	40 µm
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	by comparison method using Slip gauge and Digital indicator	upto 250 mm	4.5 µm
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge (Concave/ Convex)	by comparison method using Profile Projector	0.25 mm to 40 mm	6 µm
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Scale for eye piece/ Brinell Microscope	by comparison method using Profile Projector	upto 10 mm	4.50 µm





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

20 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Rod	by comparison method /using Slip Gauge, Digital Indicator, and Comparator Stand	upto 600 mm	7.2 $\mu\text{m}$
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap gauge	by comparison method using slip gauge	upto 250 mm	2.20 $\mu\text{m}$
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel scale	by comparison method /using Tape and Scale Calibrator	2000 mm	58.40 sqrt(L/1000 ) $\mu\text{m}$
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Tape, Fibre Tape(Wooven) Pie Tape	by comparison method /using Tape and Scale Calibrator	0 to 50 mm	120 sqrt(L/1000 ) $\mu\text{m}$
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Step Height Gauge	using slip gauge by comparison method	up to 10mm	6 $\mu\text{m}$



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

21 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	by comparison method using Digimatic Caliper	2.36 mm to 125 mm	20.8 µm
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	by comparison method using Profile Projector	40 µm to 2.36 mm	4.50 µm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Gauge LC:0.01 mm	by comparison method using Slip Gauge	upto 20 mm	9 µm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge-Angle	by comparison method using Profile Projector	55 ° to 60 °	27 s
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge-Pitch	by comparison method using Profile Projector	0.25 mm to 6 mm	4.6 µm



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

22 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge L.C: 0.01 mm	Using Slip Gauge set and long slip gauge/by comparison method	0 to 200 mm	65 µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Welding fillet gauge	using profile projector/by comparison	0 to 150 mm	3.5 µm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Welding fillet gauge	using profile projector/by comparison method	0° to 360°	1.5 '
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width gauge/paddle gauge/limit gauge (Length ,width, Height,radius)	using Profile Projector/by comparison method	0 to 150 mm	3 µm
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire gauge	using Profile projector	upto 10 mm	4.5 µm





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

23 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
122	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Angular Scale )	Using Angle Graticule by comparison method	upto 360 °	40 "
123	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Linear Scale )	Using Slip Gauge set by comparison method	upto 150 mm	4.5 μm
124	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (magnification)	Using Gauge Block with Vernier Caliper by comparison method	10X,20X,50X,100 X zoom	0.5 %
125	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Tape and Scale calibrator	Using long slip gauge/by comparison method	0 to 1000 mm	6 μm
126	MECHANICAL-DUROMETER	Rubber Hardness Tester -Shore A	using Shore A calibrator.as per ISO 18898-2016	0 to 100 Shore A	2.1 %
127	MECHANICAL-DUROMETER	Rubber Hardness Tester -Shore D	using Shore D calibrator.as per ISO 18898-2016	0 to 100 Shore D	2.1 %
128	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Diamond Cone(Axis angle)	Using Profile projector/by comparison method	90°	1.5 '



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

24 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
129	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Diamond Cone(Included angle)	using Profile projector/by comparison method	120°	1.5 '
130	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Intender(Axis Angle)	using Profile Projector/by comparison method	90 °	1.5 '
131	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Intender(Included angle)	using Profile Projector/by comparison method	136 °	1.5 '
132	MECHANICAL-IMPACT TESTING MACHINE	Impact Test Specimen (angular)	using profile projector by comparison method	45°	1.3 '
133	MECHANICAL-IMPACT TESTING MACHINE	Impact Test Specimen (Linear)	using profile projector by comparison method	0 to 120 mm	1.5 μm
134	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure-Dial/Digital Pressure Gauge and calibrator	Using Dead Weight Tester as per (DKD-R-6-1) by comparison method:	11 bar to 980 bar	0.3 %
135	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure-Dial/Digital Pressure Gauge and calibrators,Pressure Transmitters,Pressure Switches	Using Digital Pressure Gauge as per (DKD-R-6-1) by comparison method:	>400 bar to 700 bar	0.29 bar



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

25 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
136	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure-Dial/Digital Pressure Gauge and calibrators,Pressure Transmitters,Pressure Switches	Using Digital Pressure Gauge:as per (DKD-R-6-1) by comparison method	>700 bar to 1000 bar	0.21 %rdg
137	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure-Dial/Digital Pressure Gauge and calibrators,Pressure Transmitters,Pressure Switches	Using Digital Pressure Gauge as per (DKD-R-6-1) by Comparison method	0 to 400 bar	0.59 bar
138	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic -Vacuum-Dial/Digital Vacuum Gauge/Indicators and Calibrators/Manometer	Using Pneumatic Digital Vacuum Gauge as per (DKD-R-6-1) by comparison method	-0.85 bar to 0	0.008 bar
139	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure-Dial/Digital Pressure Gauge and Calibrators,Pressure Transmitters,Pressure Switches/Manometer	Using Pneumatic Digital Pressure Gauge as per (DKD-R-6-1) by Comparison method	0 to 20 bar	0.008 bar





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

26 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
140	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure-Digital Pressure Calibrator/Manometer/Pr. transmitter/Pressure . switch/ Magnehelic gauge	using Pneumatic Digital Pressure Calibrator by comparison method:	0 to 500 Pa	5.8 Pa
141	MECHANICAL-TORQUE MEASURING DEVICES	Torque Wrench, Type-I, Class-B,C	Using Torque sensor and Indicator as per IS 16906: 2018 by Comparison method	10 Nm to 100 Nm	1.7 %
142	MECHANICAL-TORQUE MEASURING DEVICES	Torque Wrench, Type-II, Class-A,B,C	Using Torque sensor and Indicator as per IS 16906: 2018 by Comparison method	100 Nm to 1000 Nm	2 %
143	MECHANICAL-VOLUME	Glass burette (LC:0.1 ml)	Using E1 class weights,Digital Balance upto 60g/200g resolution 0.01 mg/0.1 mg with distilled water/as per ISO 4787 and ISO/TR 20461	1 ml to 50 ml	17.3 µl
144	MECHANICAL-VOLUME	Glass Pipettes (Graduated/Non Graduated)	Using E1 class weights, Digital Balance upto 60g/200g resolution 0.01/0.1 mg with distilled water/as per IS 4787 and ISO/TR 20461	0.1 ml to 50 ml	17 µl



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

27 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
145	MECHANICAL-VOLUME	Measuring Cylinder/Volumetric Flask/Conical Flask/Beaker	Using E1 class weights,Digital Balance upto 3000 g resolution 0.01g,with distilled water/as per ISO 4787 and ISO/TR 20461	>100 ml to 200 ml	0.05 ml
146	MECHANICAL-VOLUME	Measuring Cylinder/Volumetric Flask/Conical Flask/Beaker	Using F1 class weights , Digital Balance upto 3000 g resolution 0.01 g and 30000 g balance with resolution 0.1 g ,with distilled water/as per ISO 4787 and ISO/TR 20461 .	>1000 ml to 2000 ml	0.2 ml
147	MECHANICAL-VOLUME	Measuring Cylinder/Volumetric Flask/Conical Flask/Beaker	Using F1 class weights, Digital Balance 3000 g resolution 0.01 g, with distilled water/as per ISO 4787 and ISO/TR 20461	>200 ml to 1000 ml	0.5 ml



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

28 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
148	MECHANICAL-VOLUME	Measuring Cylinder/Volumetric Flask/Conical Flask/Beaker	Using E1 class weights , Digital Balance upto 60g/200g resolution 0.01/0.1 mg and upto 3000 g resolution 0.01 g, with distilled water/as per ISO 4787 and ISO/TR 20461	1 ml to 100 ml	20 µl
149	MECHANICAL-VOLUME	Piston Pipette( Micro Pipette)	Using E1 class weights, Digital Balance upto 60g/200g resolution 0.01/0.1 mg and distilled water/as per IS 8655-6 and ISO/TR 20461	>100 µl to 10 ml	0.45 µl
150	MECHANICAL-VOLUME	Piston Pipette( Micro Pipette)	Using E1 class weights, Digital Balance upto 60g/200g resolution 0.01/0.1 mg and distilled water/as per IS 8655-6 and ISO/TR 20461	10 µl to 100 µl	0.1 µl
151	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing balance d>0.01 kg	using F2 class weights as per OIML R 76	>30 kg to 100 kg	6.621 g





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

29 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
152	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing balance d>0.01 mg	using E1 class Weights as per OIML R-76	>60 g to 200 g	0.16 mg
153	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing balance d>0.01 mg	using E1 class weights as per OIML R-76	1 mg to 60 mg	0.05 mg
154	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing balance d>0.1 g	using F2 class weights as per OIML R 76	>3 kg to 30 kg	0.2 g
155	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing balance d>10 mg	using E1/F1 class weights as per OIML R 76	>200 g to 3 kg	0.05 g
156	MECHANICAL-WEIGHING SCALE AND BALANCE	Micro Balance,L.C:0.001 mg	using E1 class Weights as per OIML R-76	0 to 5.1 g	0.007 mg
157	MECHANICAL-WEIGHTS	F1 and Coarser class weights	Using E1 and E2 class weights as per OIML R-111 by ABBA Method	1 mg	0.0076 mg
158	MECHANICAL-WEIGHTS	Mass F1 class and coarser weights	Using E1 and E2 class weights as per OIML R-111 by ABBA Method	10 mg	0.05 mg



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

30 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
159	MECHANICAL-WEIGHTS	Mass F1 class and coarser weights	Using E1 and E2 class weights as per OIML R-111 by ABBA Method	5 mg	0.008 mg
160	MECHANICAL-WEIGHTS	Mass F1 class weights and coarser	Using E1 and E2 class weights as per OIML R-111 by ABBA Method	1 g	0.05 mg
161	MECHANICAL-WEIGHTS	Mass F1 class weights and coarser	Using E1 class weights as per OIML R-111 by ABBA Method	10 g	0.04 mg
162	MECHANICAL-WEIGHTS	Mass F1 class weights and coarser	Using E1 and E2 class weights as per OIML R-111 by ABBA Method	100 g	0.2 mg
163	MECHANICAL-WEIGHTS	Mass F1 class weights and coarser	Using E1 and E2 class weights as per OIML R-111 by ABBA Method	100 mg	0.01 mg
164	MECHANICAL-WEIGHTS	Mass F1 class weights and coarser	Using E1 and E2 class weights as per OIML R-111 by ABBA Method	2 g	0.05 mg
165	MECHANICAL-WEIGHTS	Mass F1 class weights and coarser	Using E1 and E2 class weights as per OIML R-111 by ABBA Method	2 mg	0.012 mg



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

31 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
166	MECHANICAL-WEIGHTS	Mass F1 class weights and coarser	Using E1 and E2 class weights as per OIML R-111 by ABBA Method	20 g	0.05 mg
167	MECHANICAL-WEIGHTS	Mass F1 class weights and coarser	Using E1 and E2 class weights as per OIML R-111 by ABBA Method	20 mg	0.01 mg
168	MECHANICAL-WEIGHTS	Mass F1 class weights and coarser	Using E1 class weights as per OIML R-111 by ABBA Method	200 g	0.15 mg
169	MECHANICAL-WEIGHTS	Mass F1 class weights and coarser	Using E1 and E2 class weights as per OIML R-111 by ABBA Method	200 mg	0.05 mg
170	MECHANICAL-WEIGHTS	Mass F1 class weights and coarser	Using E1 class weights as per OIML R-111 by ABBA Method	5 g	0.02 mg
171	MECHANICAL-WEIGHTS	Mass F1 class weights and coarser	Using E1 class weights as per OIML R-111 by ABBA Method	50 g	0.04 mg
172	MECHANICAL-WEIGHTS	Mass F1 class weights and coarser	Using E1 and E2 class weights as per OIML R-111 by ABBA Method	50 mg	0.005 mg





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

32 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
173	MECHANICAL-WEIGHTS	Mass F1 class weights and coarser	Using E1 and E2 class weights as per OIML R-111 by ABBA Method	500 mg	0.05 mg
174	MECHANICAL-WEIGHTS	Mass F2 class weights and coarser	Using F1 class weights as per OIML R-111 by ABBA Method	1000 g	0.04 g
175	MECHANICAL-WEIGHTS	Mass F2 class weights and coarser	Using F1 class weights as per OIML R-111 by ABBA Method	10000 g	0.24 g
176	MECHANICAL-WEIGHTS	Mass F2 class weights and coarser	Using F1 class weights as per OIML R-111 by ABBA Method	2000 g	0.04 g
177	MECHANICAL-WEIGHTS	Mass F2 class weights and coarser	Using F1 class weights as per OIML R-111 by ABBA Method	500 g	0.05 g
178	MECHANICAL-WEIGHTS	Mass M1 class weights and coarser	Using F2 class weights as per OIML R-111 by ABBA Method	20000 g	0.24 g
179	MECHANICAL-WEIGHTS	Mass M1 class weights and coarser	Using F2 class weights as per OIML R-111 by ABBA Method	5000 g	0.24 g



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

33 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
180	THERMAL-SPECIFIC HEAT & HUMIDITY	Relative Humidity Indicator inbuilt in sensor OR with external sensor (Digital and Analog) @ 25°C	Using Portable Temperature and Humidity generator and Standard Humidity Indicator by comparison method:	10 %RH to 98 %rh	2.08 % rh
181	THERMAL-TEMPERATURE	Liquid in glass thermometer	By Comparison method/Using Standard Master Sensor(PT-100), with 6 ½ Digit DMM as a readout,& Liquid temperature Baths:	(-)30 °C to 50 °C	0.30 °C
182	THERMAL-TEMPERATURE	Liquid in glass Thermometer	By Comparison method/Using Standard Master Sensor(PT-100), with 6 ½ Digit DMM as a readout,& Liquid temperature Baths:	>50 °C to 250 °C	0.3 °C
183	THERMAL-TEMPERATURE	Thermocouples with or without indicator,Dial Thermometer, Thermistor	By Comparison method/Using Standard Master Sensor( R type Thermocouple, with 6 ½ Digit DMM as a readout,& Dry Block temperature Baths:	>400 °C to 1200 °C	2.5 °C



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

34 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
184	THERMAL-TEMPERATURE	Thermocouples, Temperature sensor(RTD) with or without indicator,Dial Thermometer,Thermistor	By Comparison method/Using Standard Master Sensor(PT-100), with 6 ½ Digit DMM as a readout & temperature Baths:	>250 °C to 400 °C	0.88 °C
185	THERMAL-TEMPERATURE	Thermocouples, Temperature sensor(RTD) with or without indicator,Dial Thermometer,Thermistor	By Comparison method/Using Standard Master Sensor(PT-100), with 6 ½ Digit DMM as a readout,& Liquid temperature Baths:	(-)30 °C to 250 °C	0.35 °C





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

35 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage at 50 Hz	by direct method/using HV probe & DMM	>40 kVAC to 75 kVAC	1.9 % to 1.71 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage at 50 Hz	by direct method/using HV probe & DMM	1 kV to 40 kV	2 .06 % to 2 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage	By direct method/Using 6 ½ digit DMM	1 V to 1000 V	0.15 % to 0.40 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage at 50 Hz	By direct method/Using 6 ½ digit DMM	10 mV to 1 V	0.74 % to 0.15 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

36 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)	Alternating Current at 50 hz	By direct method/Using 6 ½ digit DMM	1 A to 10 A	0.63 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Alternating Current at 50 Hz	By direct method/Using 6 ½ digit DMM	10 mA to 100 mA	0.30 % to 0.52 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Alternating Current at 50 Hz	By direct method/Using 6 ½ digit DMM	100 mA to 1 A	0.52 % to 0.63 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (100 Hz to 1 kHz)	By direct method/Using 6 ½ digit DMM	1 nF to 100 µF	5.84 % to 1.81 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Energy Phase-I (20V to 220V, 1A to 5A, upto UPF	by direct method/using powerline analyzer	1 kWh to 10 kWh	2 % to 1 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

37 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)	Energy Phase-III (230V-320V, 5A, UPF)	by direct method/using Power line analyzer	0.1 kWh to 10 kWh	0.35 % to 0.64 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Frequency	By direct method/Using 6 ½ digit DMM	10 Hz to 1 kHz	0.10 % to 0.09 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power(UPF to 0.2 PF lead/lag,120V to 240 V,0.01 A to 20 A)	using MFC by direct method	1200 W to 2400 W	1.5 % to 0.2 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power(UPF to 0.2 PF lead/lag,120V to 240 V,0.01 A to 20 A)	using MFC by direct method	240 W to 500 W	3 % to 5 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power(UPF to 0.2 PF lead/lag,120V to 240 V,0.01 A to 20 A)	using MFC by direct method	2400 W to 3840 W	0.2 % to 0.1 %





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

38 of 57

**Validity**

04/01/2023 to 02/02/2024

**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(UPF to 0.2 PF lead/lag,120V to 240 V,0.01 A to 20 A)	using MFC by direct method	500 W to 1200 W	5 % to 1.5 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage at (50 Hz to 1 kHz)	using MFC by direct method	>1 V to 300 V	0.156 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage at (50 Hz to 1 kHz)	using MFC by direct method	>300 mV to 1 V	0.05 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage at (50 Hz to 1 kHz)	using MFC by direct method	>300 V to 1000 V	0.092 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage at (50 Hz to 1 kHz)	using MFC by direct method	1 mV to 300 mV	3.44 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Alternating Current at (45 Hz to 1 kHz)	using MFC by direct method	>1 A to 20 A	0.36 % to 0.10 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

39 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)	Alternating Current at (45 Hz to 1 kHz)	using MFC by direct method	>1 mA to 30 mA	0.17 % to 0.06 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Alternating Current at (45 Hz to 1 kHz)	using MFC by direct method	>30 mA to 300 mA	0.06 % to 0.03 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Alternating Current at (45 Hz to 1 kHz)	using MFC by direct method	>300 mA to 1 A	0.03 % to 0.38 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Alternating Current at (45 Hz to 1 kHz)	using MFC by direct method	>330 $\mu$ A to 1 mA	0.19 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Alternating Current at (45 Hz to 1 kHz)	using MFC by direct method	33 $\mu$ A to 330 $\mu$ A	0.36 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Alternating Current at (50 Hz)	Using current coil using MFC by direct method	20 A to 1000 A	0.44 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

40 of 57

**Validity**

04/01/2023 to 02/02/2024

**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- Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	using MFC by direct method	0.40 nF to 1 nF	4.35 %
28	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	using MFC by direct method	1 nF to 300 nF	1.74 % to 0.41 %
29	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (100 Hz to 1 kHz)	using MFC by direct method	300 nF to 109 µF	0.45 %
30	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	DC Voltage	using MFC by direct method:	>1 V to 300 V	0.01 %
31	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	DC Voltage	using MFC by direct method	>300 mV to 1 V	0.57 %
32	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	DC Voltage	using MFC by direct method	>300 V to 1000 V	0.01 %





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

41 of 57

**Validity**

04/01/2023 to 02/02/2024

**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- Alternating Current (< 1 GHz) (Source)	DC Voltage	using MFC by direct method	1 mV to 300 mV	0.66 %
34	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Frequency	using MFC by direct method	1 Hz to 100 Hz	1.7 %
35	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Frequency	using MFC by direct method:	10 kHz to 100 kHz	1.70 %
36	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Frequency	using MFC by direct method	100 Hz to 10 kHz	0.03 %
37	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC High Voltage	by direct method/using HV probe & DMM	>40 kV to 100 kV	1.9 % to 1.7 %
38	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC High Voltage	by direct method/using HV probe & DMM	1 kV to 40 kV	1.66 % to 1.9 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

42 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)	Direct Current	By direct method/Using 6 ½ digit DMM	1 A to 10 A	0.17 % to 0.18 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Direct Current	By direct method/Using 6 ½ digit DMM	100 µA to 100 mA	0.7 % to 0.1 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Direct Current	By direct method/Using 6 ½ digit DMM	100 mA to 1 A	0.1 % to 0.1 7 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Direct Voltage	By direct method/Using 6 ½ digit DMM	1 mV to 1000 V	0.43 % to 0.013 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By direct method/Using 6 ½ digit DMM	1 kohm to 10 kohm	1.7 % to 0.14 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By direct method/Using 6 ½ digit DMM	1 ohm to 1 kohm	1.73 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

43 of 57

**Validity**

04/01/2023 to 02/02/2024

**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 (Measure)	Resistance	By direct method/Using 6 ½ digit DMM	10 kohm to 100 kohm	0.14 % to 0.06 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By direct method/Using 6 ½ digit DMM	100 kohm to 100 Mohm	0.06 % to 1.09 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	using MFC by direct method	1 µA to 330 µA	2.36 % to 0.024 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	using MFC by direct method	1 A to 20 A	0.13 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	using MFC by direct method	1 mA to 30 mA	0.06 % to 0.013 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	Using Current Coil using MFC by direct method	20 A to 1000 A	0.35 %





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

44 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)	Direct Current	using MFC by direct method	30 mA to 300 mA	0.013 % to 0.013 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	using MFC by direct method	300 mA to 1 A	0.013 % to 0.048 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	using MFC by direct method	330 µA to 1 mA	0.024 % to 0.06 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance at 100 V	using Megaohm Decade Box by direct method	0.1 Mohm to 1 Mohm	1.7 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance at 1000 V	using Megaohm Decade Box by direct method	1 Mohm to 2 Gohm	1.44 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance at 1000 V	using Megaohm Decade Box by direct method	2 Gohm to 5 Gohm	1.44 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

45 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance at 5000 V	using Megaohm Decade Box by direct method	10 Gohm to 100 Gohm	3.88 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance at 5000 V	using Megaohm Decade Box by direct method	5 Gohm to 10 Gohm	1.18 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using MFC by direct method:	>3 kohm to 300 kohm	0.86 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using MFC by direct method:	>300 ohm to 3 kohm	0.80 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using MFC by direct method:	>300 kohm to 1100 Mohm	0.86 % to 1.70 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using Time Electronics tester by Direct Method	1 kohm to 19.99 kohm	1.97 % to 0.12 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

46 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using Time Electronics tester by Direct Method	1 mohm to 200 mohm	0.89 % to 0.14 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using MFC by direct method	1 ohm to 300 ohm	1.73 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using Time Electronics tester by Direct Method	2 ohm to 1 kohm	1.97 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using Time Electronics tester by Direct Method	200 µOhm to 1 mOhm	1.25 % to 3.63 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using Time Electronics tester by Direct Method	200 mohm to 2 ohm	0.14 % to 0.36 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using Time Electronics tester by Direct Method	50 µohm to 200 µohm	3.58 % to 1.25 %





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

47 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
69	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Time Interval	by comparison method /using Digital Timer	>10 hr to 24 hr	26 s to 101.6 s
70	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Time Interval	by comparison method /using Digital Timer	>1800 s to 3600 s	5.10 s
71	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Time Interval	by comparison method /using Digital Timer	>2 hr to 10 hr	5.1 s to 26 s
72	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Time Interval	by comparison method /using Digital Timer	>3600 s to 2 hr	5.1 s
73	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Time Interval	by comparison method /using Digital Timer	>60 s to 1800 s	0.25 s to 5.1 s
74	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Time Interval	by comparison method /using Digital Timer	1 s to 60 s	0.25 s



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

48 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD type- pt-100	By direct method/Using 6 ½ digit DMM	(-)-200 °C to 650 °C	0.63 °C to 0.29 °C
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD Pt-100 type	Using MFC by Simulation method	-200 °C to 850 °C	0.25 °C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple type-B	Using MFC by Simulation method	500 °C to 1800 °C	0.8 °C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple type-E	Using MFC by Simulation method	(-)-200 °C to 1000 °C	0.7 °C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple type-J	Using MFC by Simulation method	(-)-210 °C to 1200 °C	0.5 °C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple type-K	Using MFC by Simulation method	(-)-250 °C to 1370 °C	0.7 °C



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

49 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple type-L	Using MFC by Simulation method	(-)-200 °C to 900 °C	0.6 °C
82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple type-N	Using MFC by Simulation method	(-)-200 °C to 1300 °C	0.68 °C
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple type-R	Using MFC by Simulation method	(-)-200 °C to 1760 °C	0.87 °C
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple type-S	Using MFC by Simulation method	0 °C to 1750 °C	0.79 °C
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple type-T	Using MFC by Simulation method	(-)-250 °C to 400 °C	0.65 °C





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

50 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
86	MECHANICAL-ACCELERATION AND SPEED	RPM (Non contact type)RPM meter,Tachometer,C entrifuge	By comparison method as per SANAS TR 45-01/using Digital tachometer and LED type rpm:	20 rpm to 40000 rpm	0.88 %
87	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester Indirect Verification	using standard hardness test block as per 1500(P-2):2021 by comparison method	10/3000 HBW	2 %
88	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester Indirect Verification	using standard hardness test block as per 1500(P-2):2021 by comparison method	2.5/187.5 HBW	2 %
89	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester Indirect Verification	using standard hardness test block as per IS:1586(P-2):2018 by Comparison method	HRA	1.9 HRA
90	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester Indirect Verification	using standard hardness test block as per IS:1586:(P-2) 2018 by comparison method	HRBW	1.4 HRBW



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

51 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
91	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester Indirect Verification	using standard hardness test block as per IS:1586(P-2):2018 by Comparison method	HRC	0.7 HRC
92	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Tester Indirect method	using standard hardness test block as per IS:1501 (Part 2):2020 by comparison method	10 HV	2.8 %
93	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Tester Indirect Verification	using standard hardness test block as per IS:1501 (Part 2):2020 by comparison method	30 HV	2.7 %
94	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Tester Indirect Verification	using standard hardness test block as per IS:1501 (Part 2):2020 by comparison method	5 HV	2.8 %
95	MECHANICAL-IMPACT TESTING MACHINE	Charpy	Direct and Indirect verification as per ISO:148-2:2016/Using Force Proving instrument, Clinometer, and other Gauges and Standard Samples	0 J to 300 J	0.9 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

52 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
96	MECHANICAL-IMPACT TESTING MACHINE	Izod	Direct verification as per IS3766 - 1977 Using Force Proving instrument, Clinometer, and other Gauges:	0 to 170 J	0.9 %
97	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure-Dial/Digital Pressure Gauge and calibrators,Pressure Transmitters,Pressure Switches	Using Digital Pressure Gauge as per (DKD-R-6-1) by comparison method:	>400 bar to 700 bar	0.29 bar
98	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure-Dial/Digital Pressure Gauge and calibrators,Pressure Transmitters,Pressure Switches	Using Digital Pressure Gauge:as per (DKD-R-6-1) by comparison method	>700 bar to 1000 bar	0.21 %rdg
99	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure-Dial/Digital Pressure Gauge and calibrators,Pressure Transmitters,Pressure Switches	Using Digital Pressure Gauge as per (DKD-R-6-1) by Comparison method	0 to 400 bar	0.59 bar
100	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic -Vacuum-Dial/Digital Vacuum Gauge/Indicators and Calibrators/Manometer	Using Pneumatic Digital Vacuum Gauge as per (DKD-R-6-1) by comparison method	-0.85 bar to 0	0.008 bar





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2628 **Page No** 53 of 57

**Validity** 04/01/2023 to 02/02/2024 **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)(±)
101	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure-Dial/Digital Pressure Gauge and Calibrators,Pressure Transmitters,Pressure Switches/Manometer	Using Pneumatic Digital Pressure Gauge as per (DKD-R-6-1) by Comparison method	0 to 20 bar	0.008 bar
102	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure-Digital Pressure Calibrator/Manometer/Pr. transmitter/Pressure switch/ Magnehelic gauge	using Pneumatic Digital Pressure Calibrator by comparison method:	0 to 500 Pa	5.8 Pa
103	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Static Uniaxial Testing Machine Compression mode	Using Proving Ring and Dynamometer by comparison method as per IS 1828-1:2022	>1000 kN to 2000 kN	0.8 %
104	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Static Uniaxial Testing Machine Compression mode	Using Proving Ring and Dynamometer by comparison method as per IS 1828-1:2022	200 N to 1000 kN	0.5 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

54 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
105	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Static Uniaxial Testing Machine Tension mode	Using Proving Ring and Dynamometer/Load Cell as per IS/1828-1:2022 by Comparison method	20 N to 50 kN	0.51 %
106	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing balance d>0.01 kg	using F2 class weights as per OIML R 76	>30 kg to 100 kg	6.621 g
107	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing balance d>0.01 mg	using E1 class Weights as per OIML R-76	>60 g to 200 g	0.16 mg
108	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing balance d>0.01 mg	using E1 class weights as per OIML R-76	1 mg to 60 mg	0.05 mg
109	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing balance d>0.1 g	using F2 class weights as per OIML R 76	>3 kg to 30 kg	0.2 g
110	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing balance d>10 mg	using E1/F1 class weights as per OIML R 76	>200 g to 3 kg	0.05 g
111	MECHANICAL-WEIGHING SCALE AND BALANCE	Micro Balance,L.C:0.001 mg	using E1 class Weights as per OIML R-76	0 to 5.1 g	0.007 mg



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	CC-2628	<b>Page No</b>	55 of 57
<b>Validity</b>	04/01/2023 to 02/02/2024	<b>Last Amended on</b>	-

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)(±)
112	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator of Humidity Chambers,Climatic chambers @ 25°C	Using Standard Humidity Indicator by ( Single position) direct method:	10 % rh to 98 % rh	1.87 % rh
113	THERMAL-SPECIFIC HEAT & HUMIDITY	Relative Humidity Indicator inbuilt in sensor OR with external sensor (Digital and Analog) @ 25°C	Using Portable Temperature and Humidity generator and Standard Humidity Indicator by comparison method:	10 %RH to 98 %rh	2.08 % rh
114	THERMAL-TEMPERATURE	Temperature Indicator of Bod incubator (for non medical purpose only),deep freezer, cooler.	Using Standard PT-100 Sensor with Digital Multimeter By direct method (Single Position).	(-)80 °C to 0 °C	0.82 °C
115	THERMAL-TEMPERATURE	Temperature Indicator of Bod incubator, autoclave (25°C to 150°C) (for non medical purpose only),deep freeze /cooler (0 to 25°C)	Using Standard PT-100 Sensor with Digital Multimeter by direct method (Single Position)/	>0 °C to 150 °C	0.8 °C
116	THERMAL-TEMPERATURE	Temperature Indicator of Digital/Analog Industrial furnaces/ovens	Using Standard PT-100 Sensor with Digital Multimeter by Direct method ( Single position)	>0 °C to 250 °C	0.62 °C





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

56 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
117	THERMAL-TEMPERATURE	Temperature Indicator of Digital/Analog Industrial furnaces/ovens	Using Standard R type Thermocouple with Yokogawa Handy Calibrator/Digital Multimeter By Direct method (Single Position).	>1200 °C to 1400 °C	3.7 °C
118	THERMAL-TEMPERATURE	Temperature Indicator of Digital/Analog Industrial furnaces/ovens	Using Standard PT-100 Sensor with Digital Multimeter by Direct method ( Single position).	>250 °C to 400 °C	1 °C
119	THERMAL-TEMPERATURE	Temperature Indicator of Digital/analog Industrial furnaces/ovens( up to 400°C).	Using Standard R type Thermocouple with Yokogawa Handy Calibrator/Digital Multimeter by Direct method ( Single position)	>400 °C to 1200 °C	2.3 °C
120	THERMAL-TEMPERATURE	Thermocouples with or without indicator,Dial Thermometer, Thermistor	By Comparison method/Using Standard Master Sensor( R type Thermocouple, with 6 ½ Digit DMM as a readout,& Dry Block temperature Baths:	>400 °C to 1200 °C	2.5 °C



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ESSJAY TECHNOMEASURE PRIVATE LIMITED, 36 KANTAPUKUR 3RD BYE LANE  
FLAT NO. D1, 3RD FLOOR, HOWRAH, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2628

**Page No**

57 of 57

**Validity**

04/01/2023 to 02/02/2024

**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)(±)
121	THERMAL-TEMPERATURE	Thermocouples, Temperature sensor(RTD) with or without indicator,Dial Thermometer,Thermistor	By Comparison method/Using Standard Master Sensor(PT-100), with 6 ½ Digit DMM as a readout & temperature Baths:	>250 °C to 400 °C	0.88 °C
122	THERMAL-TEMPERATURE	Thermocouples, Temperature sensor(RTD) with or without indicator,Dial Thermometer,Thermistor	By Comparison method/Using Standard Master Sensor(PT-100), with 6 ½ Digit DMM as a readout,& Liquid temperature Baths:	(-)30 °C to 250 °C	0.35 °C

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