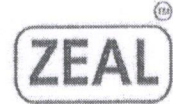




CC-3385

ZEAL MANUFACTURING AND CALIBRATION SERVICES PRIVATE LIMITED



S.No: 78/1, Pandhari Industrial Estate, Shivane, Pune - 411023, Maharashtra, INDIA

Calibration Laboratory:

Mob. No.: +91 9325714841, +91 9075014802, Email: calibration@zealmfg.com

Marketing : Mob. No.: +91 9371025315, +91 7030326565

Email : marketing@zealmfg.com, support@zealmfg.com, Web: www.zealmfg.com

CALIBRATION – CERTIFICATE

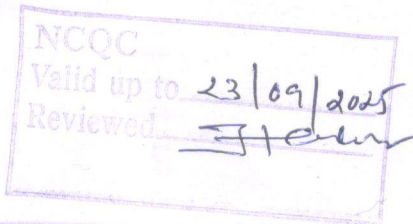
Date of Calibration	Next agreed Date of Calibration	Date of Issue	Certificate No.	ULR No.		
24/09/2024	23/09/2025	26/09/2024	09/133 (2024-2025)	CC338524000002398F		
1	Name of Customer		M/s: NCQC Laboratory LLP 4, Abhishree Corporate Park, Nr. Swagat Bunglow BRTS, Iskcon - Ambli Road, Ambli, Ahmedabad - Gujarat, India, 380058			
2	Calibration Carried out at		: Calibration Laboratory			
3	Date of Receipt of Item		: 24/09/2024			
4	Condition of the Item		: Item Received in working condition.			
5	Calibration to be done		: Without Adjustment			
6	Description & Identification of U.U.C:					
Nomenclature		Make	Model	Sr. No.	Id. No.	Accuracy
Decade Resistance Box		ZEAL	ZSDB	200809378	NCQC/E-08	As per manual
7	Environmental Conditions		: Temperature: 25.2 °C To 24.8°C		Humidity: 55 %RH	
8	Calibration Procedure No.		: CPM-26			
9	Parameter to be calibrated		: DC Resistance.			
10. Details of Standard Traceability Used For Calibration						
NAME		MAKE/MODEL	SR.NO. / ID.NO.	CALIBRATION CERT. NO. & VALID UPTO		CALIBRATED BY
Reference Multimeter		FLUKE / 8588A	486776409 / ZS/8.5DMM/01	CC/ECL/0122/24-25 24/04/2025		IDEMI, Mumbai.

11. Remarks:

- 1) This certificate refers only to particular items submitted & results are observed at the time of calibration.
- 2) This certificate shall not be reproduced, except in full, without written approval of the Laboratory.
- 3) All measurements are traceable to National / International standards.
- 4) The reported expanded uncertainty of measurement is calculated at approximately 95.45% of confidence level with coverage factor $k = 2$.

12. A glossary of terms used in this Certificate includes:

- | | |
|--------------------------------------|---------------------------------------|
| 1. U. U. C. : Unit Under Calibration | 2. STD. : Standard |
| 3. RDG. : Reading | 4. DGT. : Digit |
| 5. INST. : Instrument | 6. ULR No. : Unique Lab Report Number |



TRUE COPY

NCQC System Certificate No. 32

Calibrated By

Calibration Engineer
(Mr. Bhauraj S. Gulik)

Format/Rev. No. : F/CI/04-07



Reviewed & Authorized By

Technical Manager
(Mr. Vikas B. Rathod)





CC-3385

ZEAL MANUFACTURING AND CALIBRATION SERVICES PRIVATE LIMITED

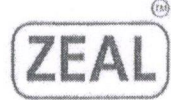
S.No: 78/1, Pandhari Industrial Estate, Shivane, Pune - 411023, Maharashtra, INDIA

Calibration Laboratory:

Mob. No.: +91 9325714841, +91 9075014802, Email: calibration@zealmfg.com

Marketing : Mob. No.: +91 9371025315, +91 7030326565

Email : marketing@zealmfg.com, support@zealmfg.com, Web: www.zealmfg.com



ULR No-. CC33852400002398F

Certificate No. 09/133 (2024-2025)

13. OBSERVATIONS:

PARAMETER: DC RESISTANCE (1 Ω - 9 Ω) Residual Resistance: 0.27583 Ω Discipline: Electro-Technical Group :-DIRECT CURRENT					
DECADE SWITCH	SET POSITION ON U.U.C	READING ON STD. METER	DEVIATION	ERROR IN (%)	EXPANDED UNCERTAINTY (%)
		Ω	Ω	% Rdg	% Rdg
X 1 Ω	1	1.00035	-0.00035	-0.035	± 0.002
	2	1.99673	0.00327	0.16	± 0.0017
	3	2.99458	0.00542	0.18	± 0.0014
	4	3.99384	0.00616	0.15	± 0.0013
	5	4.99418	0.00582	0.12	± 0.0012
	6	5.99115	0.00885	0.15	± 0.0012
	7	6.98827	0.01173	0.17	± 0.0012
	8	7.99751	0.00249	0.031	± 0.0011
	9	8.99629	0.00371	0.041	± 0.0011
PARAMETER: DC RESISTANCE (10 Ω - 90 Ω) Discipline: Electro-Technical Group :-DIRECT CURRENT					
DECADE SWITCH	SET POSITION ON U.U.C	READING ON STD. METER	DEVIATION	ERROR IN (%)	EXPANDED UNCERTAINTY (%)
		Ω	Ω	% Rdg	% Rdg
X 10 Ω	1	9.99784	0.00216	0.022	± 0.0011
	2	19.9917	0.0083	0.042	± 0.0013
	3	29.9965	0.0035	0.012	± 0.0012
	4	39.9693	0.0307	0.077	± 0.0011
	5	49.9781	0.0219	0.044	± 0.0011
	6	59.9795	0.0205	0.034	± 0.0011
	7	69.9815	0.0185	0.026	± 0.0011
	8	79.9884	0.0116	0.015	± 0.0011
	9	89.9849	0.0151	0.017	± 0.0011
PARAMETER: DC RESISTANCE (100 Ω - 900 Ω) Discipline: Electro-Technical Group :-DIRECT CURRENT					
DECADE SWITCH	SET POSITION ON U.U.C	READING ON STD. METER	DEVIATION	ERROR IN (%)	EXPANDED UNCERTAINTY (%)
		Ω	Ω	% Rdg	% Rdg
X 100 Ω	1	100.0373	-0.0373	-0.037	± 0.0011
	2	200.052	-0.052	-0.026	± 0.0012
	3	300.064	-0.064	-0.021	± 0.0011
	4	400.059	-0.059	-0.015	± 0.0011
	5	499.821	0.179	0.036	± 0.0011
	6	599.749	0.251	0.042	± 0.001
	7	700.368	-0.368	-0.053	± 0.001
	8	800.405	-0.405	-0.051	± 0.001
	9	900.317	-0.317	-0.035	± 0.001

Calibrated By

Calibration Engineer
(Mr. Bhauraj S. Gulik)

Format/Rev. No. :F/CL/04-07



Reviewed & Authorized By

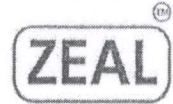
Technical Manager
(Mr. Vikas B. Rathod)





CC-3385

ZEAL MANUFACTURING AND CALIBRATION SERVICES PRIVATE LIMITED



S.No: 78/1, Pandhari Industrial Estate, Shivane, Pune - 411023, Maharashtra, INDIA

Calibration Laboratory:

Mob. No.: +91 9325714841, +91 9075014802, Email: calibration@zealmfg.com

Marketing : Mob. No.: +91 9371025315, +91 7030326565

Email : marketing@zealmfg.com, support@zealmfg.com, Web: www.zealmfg.com

ULR No-. CC33852400002398F

Certificate No. 09/133 (2024-2025)

PARAMETER: DC RESISTANCE (1 kΩ - 9 kΩ) Discipline: Electro-Technical Group :-DIRECT CURRENT					
DECADE SWITCH	SET POSITION ON U.U.C	READING ON STD. METER	DEVIATION	ERROR IN (%)	EXPANDED UNCERTAINTY (%)
		kΩ	- kΩ	% Rdg	% Rdg
X 1 kΩ	1	1.000464	-0.000464	-0.046	± 0.001
	2	1.99944	0.00056	0.028	± 0.0011
	3	3.00171	-0.00171	-0.057	± 0.001
	4	4.00195	-0.00195	-0.049	± 0.001
	5	5.00219	-0.00219	-0.044	± 0.001
	6	6.00223	-0.00223	-0.037	± 0.001
	7	6.99955	0.00045	0.0064	± 0.001
	8	8.00301	-0.00301	-0.038	± 0.001
	9	9.00375	-0.00375	-0.042	± 0.001
PARAMETER: DC RESISTANCE (10 kΩ - 90 kΩ) Discipline: Electro-Technical Group :-DIRECT CURRENT					
DECADE SWITCH	SET POSITION ON U.U.C	READING ON STD. METER	DEVIATION	ERROR IN (%)	EXPANDED UNCERTAINTY (%)
		kΩ	kΩ	% Rdg	% Rdg
X 10 kΩ	1	10.00613	-0.00613	-0.061	± 0.001
	2	20.0045	-0.0045	-0.022	± 0.003
	3	30.0053	-0.0053	-0.018	± 0.003
	4	40.0027	-0.0027	-0.0067	± 0.003
	5	49.9931	0.0069	0.014	± 0.003
	6	59.9847	0.0153	0.026	± 0.003
	7	69.9959	0.0041	0.0059	± 0.003
	8	79.9885	0.0115	0.014	± 0.003
	9	90.0111	-0.0111	-0.012	± 0.003
PARAMETER: DC RESISTANCE (100 kΩ - 900 kΩ) Discipline: Electro-Technical Group :-DIRECT CURRENT					
DECADE SWITCH	SET POSITION ON U.U.C	READING ON STD. METER	DEVIATION	ERROR IN (%)	EXPANDED UNCERTAINTY (%)
		kΩ	kΩ	% Rdg	% Rdg
X 100 kΩ	1	100.0141	-0.0141	-0.014	± 0.003
	2	200.097	-0.097	-0.048	± 0.003
	3	300.116	-0.116	-0.039	± 0.003
	4	400.102	-0.102	-0.025	± 0.003
	5	500.319	-0.319	-0.064	± 0.003
	6	600.277	-0.277	-0.046	± 0.003
	7	700.525	-0.525	-0.075	± 0.003
	8	800.504	-0.504	-0.063	± 0.003
	9	900.763	-0.763	-0.085	± 0.003

Calibrated By

Calibration Engineer
(Mr. Bhauraj S. Gulik)

Format/Rev. No. :F/CL/04-07



Reviewed & Authorized By

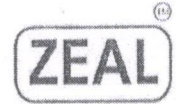
Technical Manager
(Mr. Vikas/B. Rathod)



CC-3385

ZEAL MANUFACTURING AND CALIBRATION SERVICES PRIVATE LIMITED

S.No: 78/1, Pandhari Industrial Estate, Shivane, Pune - 411023, Maharashtra, INDIA
 Calibration Laboratory:
 Mob. No.: +91 9325714841, +91 9075014802, Email: calibration@zealmfg.com
 Marketing : Mob. No.: +91 9371025315, +91 7030326565
 Email : marketing@zealmfg.com, support@zealmfg.com, Web: www.zealmfg.com



ULR No-. CC338524000002398F

Certificate No. 09/133 (2024-2025)

PARAMETER: DC RESISTANCE (1 MΩ - 9 MΩ) Discipline: Electro-Technical Group :-DIRECT CURRENT					
DECADE SWITCH	SET POSITION ON U.U.C	READING ON STD. METER	DEVIATION	ERROR IN (%)	EXPANDED UNCERTAINTY (%)
		MΩ	- MΩ	% Rdg	% Rdg
X 1 MΩ	1	1.000232	-0.000232	-0.023	± 0.003
	2	1.99895	0.00105	0.053	± 0.0073
	3	3.00172	-0.00172	-0.057	± 0.0055
	4	4.00138	-0.00138	-0.034	± 0.0047
	5	5.00184	-0.00184	-0.037	± 0.0042
	6	6.00267	-0.00267	-0.044	± 0.0039
	7	6.99814	0.00186	0.027	± 0.0037
	8	8.00296	-0.00296	-0.037	± 0.0036
	9	9.00474	-0.00474	-0.053	± 0.0035
PARAMETER: DC RESISTANCE (10 MΩ - 90 MΩ) Discipline: Electro-Technical Group :-DIRECT CURRENT					
DECADE SWITCH	SET POSITION ON U.U.C	READING ON STD. METER	DEVIATION	ERROR IN (%)	EXPANDED UNCERTAINTY (%)
		MΩ	MΩ	% Rdg	% Rdg
X 10 MΩ	1	9.99558	0.00442	0.044	± 0.0034
	2	20.0039	-0.0039	-0.019	± 0.061
	3	29.9924	0.0076	0.025	± 0.042
	4	39.9867	0.0133	0.033	± 0.032
	5	49.9859	0.0141	0.028	± 0.027
	6	60.0213	-0.0213	-0.035	± 0.023
	7	70.0335	-0.0335	-0.048	± 0.02
	8	80.0511	-0.0511	-0.064	± 0.018
	9	90.0293	-0.0293	-0.033	± 0.017
PARAMETER: DC RESISTANCE (100 MΩ - 900 MΩ) Discipline: Electro-Technical Group :-DIRECT CURRENT					
DECADE SWITCH	SET POSITION ON U.U.C	READING ON STD. METER	DEVIATION	ERROR IN (%)	EXPANDED UNCERTAINTY (%)
		MΩ	MΩ	% Rdg	% Rdg
X 100 MΩ	1	99.9892	0.0108	0.011	± 0.015
	2	200.663	-0.663	-0.33	± 0.63
	3	299.935	0.065	0.022	± 0.44
	4	400.310	-0.310	-0.077	± 0.35
	5	498.752	1.248	0.25	± 0.29
	6	597.783	2.217	0.37	± 0.25
	7	697.617	2.383	0.34	± 0.22
	8	796.586	3.414	0.43	± 0.2
	9	895.691	4.309	0.48	± 0.19

Calibrated By

Calibration Engineer
(Mr. Bhauraj S. Gulik)



Reviewed & Authorized By

Technical Manager
(Mr. Vikas B. Rathod)

