

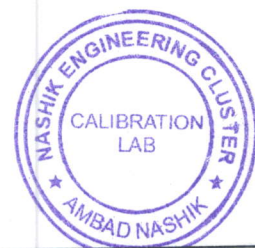
"Sahastrarashmi", C-10, MIDC, Ambad, Nashik-422 010. Tel: +91 253 6699231,32,91 Call : + 91 7276091651
E-mail : quality.lab@nec.org.in, calibrationlab@nec.org.in, testinglab@nec.org.in, website: www.nec.org.in

CALIBRATION CERTIFICATE		Certificate No. CAL/26/CC/127-1	
		ULR No. CC2248260000003650F	
5 ½ Digit Multifunction Calibrator with Current Coil		Date of Issue 26.02.2026	
Date of Calibration 25.02.2026	Next Calibration Due Date 24.02.2027	Page No. 1	No. of Pages 8
Calibrated For	M/s.Chavanke Engineering Private Limited. PAP -113,Near AIMA Office,Ambad MIDC,Nashik 422010		
Date of Receipt of Instrument	24.02.2026 Through Ch.No. 130		
Condition of the Instrument on Receipt	Functional		
SRF no and date	CAL/26/CSRF/127 Dated 24.02.2026		
NEC ID No.	CAL/26/ID/127-1		
Calibrated at	In Lab		
Details of Test Instrument			
Description	5 ½ Digit Multifunction Calibrator with Current Coil		
Make/Model	ZEAL/ZMMFC5.5		
Sr No.	202003665		
ID No.	E/T-02		
Accuracy	As per manual		
Calibration Procedure No.	WI/NEC/CAL/ET/01,02,08		
Calibration Environments			
Temperature	25 ± 4°C		
Relative Humidity	30 to 75% RH		
Reference Standard Used For Calibration (Traceable To National / International Standards)			
Reference Standard Used For Calibration (Traceable To National / International Standards)			
Description	Cal. Cert No.	Valid upto	Traceability
8 1/2 Digit Reference Multimeter	CR/PCAL/53163	07.04.2026	ETDC, Bengaluru
AC Measurement Standadr	CAL/25/CC/560-1	18.08.2026	NEC NASHIK
Frequency Counter	TSC/25-26/9315-1	11.08.2026	Transcal, Bangalore

Note: 1) Calibration results are enclosed on page no. 2 onwards
2) Next calibration due date (1 Year) mentioned in the certificate is given as per customer request.
3) The calibration certificate pertains to the above equipment calibration.
4) The calibration certificate shall not be reproduced except in full,without written approval of the laboratory.



Calibrated By
Monali Borade
(Calibration Engineer)





Reviewed & Approved By
Rahul Golesar
(Quality Manager)

QR/NEC/CC/01

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CALIBRATION CERTIFICATE				Certificate No. CAL/26/CC/127-1	
5 ½ Digit Multifunction Calibrator with Current Coil				ULR No. CC2248260000003650F	
				Date of Issue 26.02.2026	
Date of Calibration 25.02.2026		Next Calibration Due Date 24.02.2027		Page No. 2	
				No. of Pages 8	
CALIBRATION RESULT :-					
Discipline :- Electro - Technical					
Parameter: DC Voltage					
Range	Reading On UUC*	Reading On Standard	Deviation	%Deviation	(±) Expanded Uncertainty
mV	mV	mV	mV	%	%
200	1.000	0.99997	0.00003	0.003	0.023
	20.000	20.00079	-0.00079	-0.004	0.007
	100.000	99.99892	0.00108	0.001	0.001
	199.999	199.98971	0.00929	0.005	0.001
V	V	V	V	%	%
2	0.20000	0.1999655	0.0000345	0.017	0.0008
	1.00000	0.9999752	0.0000248	0.002	0.0008
	1.99999	1.9998912	0.0000988	0.005	0.0008
20	2.0000	1.9990701	0.0009299	0.047	0.0008
	10.0000	9.9923802	0.0076198	0.076	0.0008
	19.9999	19.989765	0.010135	0.051	0.0008
200	20.000	19.986574	0.013426	0.067	0.0009
	100.000	99.907871	0.092129	0.092	0.0009
	199.999	199.90575	0.09325	0.047	0.0009
1000	100.00	99.908663	0.091337	0.091	0.0009
	500.00	499.75571	0.24429	0.049	0.0009
	999.99	999.74225	0.24775	0.025	0.0009

UUC*:- Unit Under Calibration



Calibrated By
Monali Borade
(Calibration Engineer)





Reviewed & Approved By
Rahul Golesar
(Quality Manager)

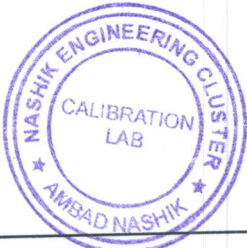
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CALIBRATION CERTIFICATE				Certificate No. CAL/26/CC/127-1	
5 ½ Digit Multifunction Calibrator with Current Coil				ULR No. CC224826000003650F	
				Date of Issue 26.02.2026	
Date of Calibration 25.02.2026		Next Calibration Due Date 24.02.2027		Page No. 3	No. of Pages 8
CALIBRATION RESULT :- Discipline :- Electro - Technical					
Parameter: AC Voltage @50Hz					
Range	Reading On UUC*	Reading On Standard	Deviation	%Deviation	(±) Expanded Uncertainty
mV	mV	mV	mV	%	%
200	6.000	6.0012	-0.0012	-0.020	0.05
	20.000	20.0051	-0.0051	-0.025	0.03
	100.000	100.0115	-0.0115	-0.011	0.01
	199.999	200.0125	-0.0135	-0.007	0.01
V	V	V	V	%	%
2	0.20000	0.200025	-0.000025	-0.012	0.02
	1.00000	1.000021	-0.000021	-0.002	0.03
	1.50000	1.500025	-0.000025	-0.002	0.03
	1.99999	2.000048	-0.000058	-0.003	0.03
20	1.0000	1.00048	-0.00048	-0.048	0.03
	10.0000	10.00125	-0.00125	-0.013	0.03
	19.9999	20.00152	-0.00162	-0.008	0.03
200	10.000	10.0032	-0.0032	-0.032	0.03
	100.000	100.0058	-0.0058	-0.006	0.04
	199.999	200.0069	-0.0079	-0.004	0.04
1000	100.00	100.021	-0.021	-0.021	0.04
	500.00	500.078	-0.078	-0.016	0.05
	999.99	1000.488	-0.498	-0.050	0.05

UUC*:- Unit Under Calibration



Calibrated By
Monali Borade
(Calibration Engineer)





Reviewed & Approved By
Rahul Golesar
(Quality Manager)

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CALIBRATION CERTIFICATE				Certificate No. CAL/26/CC/127-1	
5 ½ Digit Multifunction Calibrator with Current Coil				ULR No. CC2248260000003650F	
				Date of Issue 26.02.2026	
Date of Calibration 25.02.2026		Next Calibration Due Date 24.02.2027		Page No. 4	No. of Pages 8
CALIBRATION RESULT :- Discipline :- Electro - Technical					
Parameter: AC Voltage @1KHz					
Range	Reading On UUC*	Reading On Standard	Deviation	%Deviation	(±) Expanded Uncertainty
mV	mV	mV	mV	%	%
200	6.000	6.0085	-0.0085	-0.142	0.05
	20.000	20.0078	-0.0078	-0.039	0.03
	100.000	100.0741	-0.0741	-0.074	0.01
	199.999	200.0971	-0.0981	-0.049	0.01
V	V	V	V	%	%
2	0.20000	0.200052	-0.000052	-0.026	0.02
	1.00000	1.000552	-0.000552	-0.055	0.03
	1.50000	1.500432	-0.000432	-0.029	0.03
	1.99999	2.001025	-0.001035	-0.052	0.03
20	1.0000	1.000371	-0.000371	-0.037	0.03
	10.0000	10.00475	-0.00475	-0.047	0.03
	19.9999	20.01239	-0.01249	-0.062	0.03
200	10.000	10.0035	-0.0035	-0.035	0.03
	100.000	100.0478	-0.0478	-0.048	0.04
	199.999	200.1225	-0.1235	-0.062	0.04
1000	100.00	100.0431	-0.0431	-0.043	0.04
	500.00	500.3669	-0.3669	-0.073	0.05
	999.99	1000.7629	-0.7729	-0.077	0.05

UUC*:- Unit Under Calibration


Calibrated By
Monali Borade
(Calibration Engineer)




Reviewed & Approved By
Rahul Golesar
(Quality Manager)

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CALIBRATION CERTIFICATE				Certificate No. CAL/26/CC/127-1	
				ULR No. CC2248260000003650F	
5 ½ Digit Multifunction Calibrator with Current Coil				Date of Issue 26.02.2026	
Date of Calibration 25.02.2026		Next Calibration Due Date 24.02.2027		Page No. 5	No. of Pages 8
CALIBRATION RESULT :- Discipline :- Electro - Technical					
Parameter: DC Current					
Range	Reading On UUC*	Reading On Standard	Deviation	%Deviation	(±) Expanded Uncertainty
mA	mA	mA	mA	%	%
2	0.20000	0.1998855	0.0001145	0.057	0.004
	1.00000	1.0001525	-0.0001525	-0.015	0.004
	1.50000	1.4992352	0.0007648	0.051	0.004
	1.99999	1.9999719	0.0000181	0.001	0.004
20	2.0000	1.9999838	0.0000162	0.001	0.004
	10.0000	9.9987824	0.0012176	0.012	0.004
	19.9999	19.999725	0.000175	0.001	0.004
200	20.000	19.999415	0.000585	0.003	0.004
	100.000	99.993412	0.006588	0.007	0.005
	199.999	199.96825	0.03075	0.015	0.005
2000	200.00	199.99639	0.00261	0.001	0.006
	1000.00	999.76325	0.23675	0.024	0.007
	1999.99	1999.5225	0.4675	0.023	0.007
A	A	A	A	%	%
10	1.0000	0.9999515	0.0000485	0.005	0.02
	5.0000	4.9996852	0.0003148	0.006	0.03
	9.9999	9.9991458	0.0007542	0.008	0.03

UUC*:- Unit Under Calibration


Calibrated By
Monali Borade
(Calibration Engineer)




Reviewed & Approved By
Rahul Golesar
(Quality Manager)

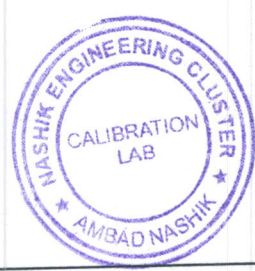
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CALIBRATION CERTIFICATE				Certificate No. CAL/26/CC/127-1	
5 ½ Digit Multifunction Calibrator with Current Coil				ULR No. CC224826000003650F	
				Date of Issue 26.02.2026	
Date of Calibration 25.02.2026		Next Calibration Due Date 24.02.2027		Page No. 6	No. of Pages 8
CALIBRATION RESULT :- Discipline :- Electro - Technical					
Parameter: AC Current @50Hz					
Range	Reading On UUC*	Reading On Standard	Deviation	%Deviation	(±) Expanded Uncertainty
mA	mA	mA	mA	%	%
2	1.00000	0.999525	0.000475	0.048	0.02
	1.50000	1.499978	0.000022	0.001	0.02
	1.99999	1.999785	0.000205	0.010	0.02
20	2.0000	1.999963	0.000037	0.002	0.02
	10.0000	9.999718	0.000282	0.003	0.02
	19.9999	19.98778	0.01212	0.061	0.02
200	20.000	19.99865	0.00135	0.007	0.03
	100.000	100.0235	-0.0235	-0.023	0.03
	199.999	199.9785	0.0205	0.010	0.03
2000	200.00	199.9963	0.0037	0.002	0.03
	1000.00	999.9725	0.0275	0.003	0.03
	1999.99	1999.952	0.038	0.002	0.03
A	A	A	A	%	%
10	1.0000	1.000315	-0.000315	-0.031	0.04
	9.9999	10.00502	-0.00512	-0.051	0.04

UUC*:- Unit Under Calibration



Calibrated By
Monali Borade
(Calibration Engineer)





Reviewed & Approved By
Rahul Golesar
(Quality Manager)

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E-mail : quality.lab@nec.org.in, calibrationlab@nec.org.in, testinglab@nec.org.in, website: www.nec.org.in

CALIBRATION CERTIFICATE					Certificate No. CAL/26/CC/127-1	
5 ½ Digit Multifunction Calibrator with Current Coil					ULR No. CC2248260000003650F	
					Date of Issue 26.02.2026	
Date of Calibration 25.02.2026		Next Calibration Due Date 24.02.2027			Page No. 7	No. of Pages 8
CALIBRATION RESULT :- Discipline :- Electro - Technical						
Parameter: AC Current @1KHz						
Range	Reading On UUC*	Reading On Standard	Deviation	%Deviation	(±) Expanded Uncertainty	
mA	mA	mA	mA	%	%	
2	1.00000	0.999925	0.000075	0.008	0.02	
	1.50000	1.499675	0.000325	0.022	0.02	
	1.99999	1.999278	0.000712	0.036	0.02	
20	2.0000	1.999852	0.00015	0.007	0.02	
	10.0000	9.994863	0.00514	0.051	0.02	
	19.9999	19.99452	0.00538	0.027	0.02	
200	20.000	19.99445	0.00555	0.028	0.03	
	100.000	99.93425	0.0657	0.066	0.03	
	199.999	199.8852	0.1138	0.057	0.03	
2000	200.00	199.9235	0.077	0.038	0.03	
	1000.00	999.1252	0.875	0.088	0.03	
	1999.99	1998.975	1.015	0.051	0.03	
A	A	A	A	%	%	
10	1.0000	1.000825	-0.000825	-0.082	0.04	
	9.9999	10.00805	-0.00815	-0.081	0.04	
Parameter: Frequency@3V						
Range	Reading On UUC*	Reading On Standard	Deviation	%Deviation	(±) Expanded Uncertainty	
Hz	Hz	Hz	Hz	%	%	
999.9	45.0	45.0015	-0.0015	-0.003	0.06	
	50.0	49.9948	0.0052	0.010	0.06	
	60.0	59.9992	0.0008	0.001	0.06	
	500.0	500.035	-0.035	-0.007	0.07	
	999.9	999.971	-0.071	-0.007	0.07	

UUC*:- Unit Under Calibration



Calibrated By
Monali Borade
(Calibration Engineer)





Reviewed & Approved By
Rahul Golesar
(Quality Manager)

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CALIBRATION CERTIFICATE				Certificate No. CAL/26/CC/127-1	
5 ½ Digit Multifunction Calibrator with Current Coil				ULR No. CC2248260000003650F	
				Date of Issue 26.02.2026	
Date of Calibration 25.02.2026		Next Calibration Due Date 24.02.2027		Page No. 8	No. of Pages 8
CALIBRATION RESULT :- Discipline :- Electro - Technical					
Parameter: DC Voltage (Drop Across Internal 1 Ω Resistance)					
SR.No.	Set Current	Expected Voltage Drop	Actual Measured Voltage Drop on Standard DMM	Deviation	($\pm$) Expanded Uncertainty
	mV	mV	mV	mV	%
1	1.00	1.000	0.99935	-0.00065	0.023
2	5.00	5.000	4.99975	-0.00025	0.004
3	10.00	10.000	10.00038	0.00038	0.004
4	100.00	100.000	100.00741	0.00741	0.001
5	180.00	180.000	180.02352	0.02352	0.001
6	200.00	200.000	200.01335	0.01335	0.001
Parameter: AC Voltage (Drop Across Internal 1 Ω Resistance) @50Hz					
SR.No.	Set Current	Expected Voltage Drop	Actual Measured Voltage Drop on Standard DMM	Deviation	($\pm$) Expanded Uncertainty
	mV	mV	mV	mV	%
1	1.00	1.000	0.9999	-0.0001	0.9
2	5.00	5.000	5.0011	0.0011	0.9
3	10.00	10.000	10.0015	0.0015	0.9
4	100.00	100.000	100.0201	0.0201	0.04
5	180.00	180.000	180.0215	0.0215	0.04
6	200.00	200.000	200.0285	0.0285	0.04

UUC*:- Unit Under Calibration

- Remark:
- 1 Uncertainty has been calculated for a coverage factor k=2 corresponding to approximately 95.45 % Confidence Level.
 - 2 The Standard maintained are traceable to National / International Standard through accredited Laboratories.
 - 3 The observations reported represent values at the time of the measurements, and under the stated conditions. they do not convey any long term stability information.
 - 4 Measured O/P is average of 5 readings.



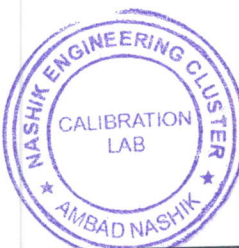
Calibrated By
Monali Borade
(Calibration Engineer)

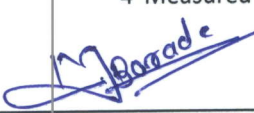
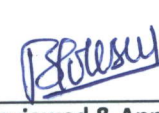


****End Of The Certificate****



Reviewed & Approved By
Rahul Golesar
(Quality Manager)

VERIFICATION CERTIFICATE		Certificate No. CAL/26/N/CC/016	
5 ½ Digit Multifunction Calibrator With Current Coil		Date of Issue 26.02.2026	
Date of Calibration 25.02.2026	Next Calibration Due Date 24.02.2027	Page No. 1	No. of Pages 2
Calibrated For		M/s.Chavanke Engineering Private Limited. PAP -113,Near AIMA Office,Ambad MIDC,Nashik 422010	
Date of Receipt of Instrument		24.02.2026 Through Challan No.130	
Condition of the Instrument on Receipt		Functional	
SRF no and date		CAL/26/N/SRF/014 Dated on 24.02.2026	
NEC ID No.		CAL/26/N/ID/016	
Calibrated at		In-Lab	
Details of Test Instrument			
Description		5 ½ Digit Multifunction Calibrator With Current Coil	
Make/Model		Calibrator: ZEAL/ZMMFC5.5 & Coil: ZEAL/ZMCC	
Sr No.		Calibrator: 202003665 & Coil: 21911-06	
ID No.		Calibrator: E/T-02 & Coil: -----	
Range & Accuracy		As per manual	
Calibration Procedure No.		WI/NEC/CAL/ET/02	
Calibration Environments			
Temperature		25 ± 4°C	
Relative Humidity		30 to 75% RH	
Reference Standard Used For Calibration (Traceable To National / International Standards)			
Description	Cal. Cert No.	Valid upto	Traceability
Multiproduct Calibrator	TSC/25-26/2139-1	22.04.2026	Transcal Bangalore
Current Coil With Multiproduct Calibrator	TSC/25-26/18819-1	09.01.2027	Transcal, Bangalore
Digital Clampmeter	CAL/25/CC/539-1	10.08.2026	NEC, Nashik
Note: 1) Calibration results are enclosed on page no. 2 2) Next calibration due date (1 Year) mentioned in the certificate is given as per customer request. 3) The calibration certificate pertains to the above equipment calibration. 4) The calibration certificate shall not be reproduced except in full,without written approval of the laboratory.			
 Calibrated By Monali Borade (Calibration Engineer)		  Reviewed & Approved By Rahul Golesar (Quality Manager) QR/NEC/CC/01	

VERIFICATION CERTIFICATE					Certificate No. CAL/26/N/CC/016	
5 ½ Digit Multifunction Calibrator With Current Coil					Date of Issue 26.02.2026	
Date of Calibration 25.02.2026		Next Calibration Due Date 24.02.2027		Page No. 2	No. of Pages 2	
CALIBRATION RESULT :- Discipline:- Electro-Technical						
Parameter: DC Current						
Range	STD. Input	Reading on Coil by using 5522A MPC	Reading on Coil by using 5 ½ MPC	Deviation	(±) Expanded Uncertainty	
A	A	A	A	A	%	
1000	0.1	10.1	10.2	0.1	0.008	
	0.5	50.2	50.3	0.1	0.03	
	1	99.9	100.2	0.3	0.06	
	3	300.1	300.4	0.3	0.06	
	5	499.7	500.2	0.5	0.06	
	8	799.8	800.1	0.3	0.06	
	10	999.7	999.8	0.1	0.06	
Parameter: AC Current @ 50Hz						
Range	Set Point	Reading on Coil by using 5522A MPC	Reading on Coil by using 5 ½ MPC	Deviation	(±) Expanded Uncertainty	
A	A	A	A	A	%	
1000	0.1	10.2	10.1	-0.1	0.016	
	0.5	50.1	50.2	0.1	0.06	
	1	99.8	100.1	0.3	0.06	
	3	299.7	300.2	0.5	0.06	
	5	499.9	500.3	0.4	0.07	
	8	799.9	800.2	0.3	0.07	
	10	999.8	999.9	0.1	0.07	
Note - 1 Coil 1 -ZEAL/ZMCC Coil belongs to M/s. Chavanke Engineering Private Limited. 2 Coil 2 - Fluke 5500A Coil belongs to M/s.Nashik Engineering Cluster UUC*:- Unit Under Calibration Remark: 1 Uncertainty has been calculated for a coverage factor k=2 corresponding to approximately 95.45 % Confidence Level. 2 The Standard maintained are traceable to National / International Standard through accredited Laboratories. 3 The observations reported represent values at the time of the measurements, and under the stated conditions. they do not convey any long term stability information. 4 Measured O/P is average of 5 readings.						
 Calibrated By Monali Borade (Calibration Engineer)				 Reviewed & Approved By Rahul Golekar (Quality Manager)		
End Of The Certificate						