

ULR Number	CC417824000000379F	Certificate Number	RF-120RPL-CF-2024-ET-1206-C-2815
Date of Calibration	13.12.2024	Recommended due date	12.12.2025

Electro Technical Calibration Certificate For Multi Function Meter

Laboratory certifies that the equipment has been calibrated in accordance with a quality system registered to ISO 9001:2015 and confirms to ISO/IEC 17025:2017 and laboratory applicable procedures.

The measurement expanded uncertainty is expressed at 95% confidence level with a coverage factor equal to two ($k=2$).

Laboratory measurement standards are traceable through unbroken chain of comparison to National and / or to International Standards.

Calibration of all equipment, meters used are traceable to National Standards / International Standards and their calibration are current.

This calibration report contains the results of calibration and / or other relevant data about the calibration.

This report applies only to the item identified and shall not be reproduced except in full, without specific written approval from the Laboratory.

No statement of compliance with specifications is made or implied on this report. However, the results are reviewed to establish where any measurement results exceed the manufacturers specification and communicate results by means of this report.



Lab QR Code



Certificate QR Code

Calibration Procedure	As Received Conditions	As Shipped Condition
RPL-L03-DI-025-ET-011	Satisfactory	Cleaned & Calibrated

Calibrated By		Reviewed & Approved By Authorized Signatory	
Identification	RPL-TM-02	Identification	Jayasree Manikandan



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Date of Performance of Calibration	13.12.2024	Date of Issue	16.12.2024
		Recommended Due Date	12.12.2025

Name & Contact information of Customer:	R G Bronze MFG Company Pvt Limited DP-70, Sidco Industrial Estate, Ambattur, Chennai - 600 098.	Date of Receipt	13.12.2024
		CSRF Number	RPL/SRF/2024/1206
		Location-Calibrated at	Onsite

Description of the Unit Under Calibration (UUC)

Description	Multi Function Meter	Model	EM6436H
Range	As Per Report	Serial No	34153530812
Least Count	As Per Report	Identification No	--
Make	Schneider	Accuracy	Class 1
Location	Press shop	Operating Range	As Per Report

Condition of unit under calibration on receipt	Satisfactory
Method used - Reva Phoenix Document Number	RPL-L03-DI-025-ET-011
Reference Standard (International / National)	IS 13875 Part I & II

Environmental Details	Temperature	Start	25.5 °C	End	25.5 °C	Difference	0.2 °C
	Relative Humidity		58 %RH		59 %RH		1.0 %RH

Details of Traceability - Master Equipment / Standard used for Calibration

Sl. No.	Description Master Equipment / Standard used for calibration	Metrological Traceability to National / International Standards
1	Multi Product Calibrator	CR/PCAL/52891/1 Valid till 18.07.2025

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		Jayasree Manikandan	

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Discipline : Electro Technical

Calibration Results

Sr.No.	Reference Value (Master)	Observed Value (UUC)	Error	Expanded Uncertainty ($\pm$)
AC Voltage @ 50 Hz (R - Phase)				
	V	V	V	V
1	50.00	50.04	0.04	0.060
2	100.00	100.1	0.1	0.131
3	150.00	150.2	0.2	0.185
4	200.00	200.3	0.3	0.240
5	230.00	230.4	0.4	0.274
AC Voltage @ 50 Hz (Y - Phase)				
	V	V	V	V
1	50.00	50.04	0.04	0.060
2	100.00	100.1	0.1	0.131
3	150.00	150.1	0.1	0.185
4	200.00	200.2	0.2	0.240
5	230.00	230.3	0.3	0.274
AC Voltage @ 50 Hz (B - Phase)				
	V	V	V	V
1	50.00	50.04	0.04	0.060
2	100.00	100.1	0.1	0.131
3	150.00	150.1	0.1	0.185
4	200.00	200.2	0.2	0.240
5	230.00	230.2	0.2	0.274
AC Voltage @ 50 Hz (R - Y - Phase)				
	V	V	V	V

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Sr.No.	Reference Value (Master)	Observed Value (UUC)	Error	Expanded Uncertainty (±)
1	415.00	415.4	0.4	0.485
AC Voltage @ 50 Hz (Y - B - Phase)				
	V	V	V	V
1	415.00	415.4	0.4	0.485
AC Voltage @ 50 Hz (B - Y - Phase)				
	V	V	V	V
1	415.00	415.2	0.2	0.485
Power Factor @ 50 Hz (R - Phase)				
	pF	pF	pF	pF
1	0.200	0.200	0.000	0.002
2	0.500	0.500	0.000	0.002
3	1.000	0.999	-0.001	0.002
Power Factor @ 50 Hz (Y - Phase)				
	pF	pF	pF	pF
1	0.200	0.200	0.000	0.002
2	0.500	0.500	0.000	0.002
3	1.000	1.000	0.000	0.002
Power Factor @ 50 Hz (B - Phase)				
	pF	pF	pF	pF
1	0.200	0.200	0.000	0.002
2	0.500	0.499	-0.001	0.002
3	1.000	1.000	0.000	0.002

Sr.No.	Reference Value (Master)	Standard Equivalent Reading	UUC Reading	Error	Expanded Uncertainty (±)
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Sr.No.	Reference Value (Master)	Standard Equivalent Reading	UUC Reading	Error	Expanded Uncertainty ($\pm$)
AC Current @ 50 Hz (R - Phase)					
	A	A	A	A	A
1	1	20.00	20.00	0.00	0.0375
2	3	60.00	59.98	-0.02	0.1064
3	5	100.00	99.96	-0.04	0.1848
AC Current @ 50 Hz (Y - Phase)					
	A	A	A	A	A
1	1	20.00	20.01	0.01	0.0375
2	3	60.00	59.99	-0.01	0.1064
3	5	100.00	99.97	-0.03	0.1848
AC Current @ 50 Hz (B - Phase)					
1	1	20.00	19.98	-0.02	0.0375
2	3	60.00	59.97	-0.03	0.1064
3	5	100.00	99.96	-0.04	0.1848

Labs & Consultants Pvt. Ltd.

	Standard Reading						
Sr.No.	Voltage	Current	Power	UUC Reading	Error	Expanded Uncertainty (±)	
AC Power @ 50 Hz (R - Phase)							
	V	A	kW	kW	kW	kW	
1	230	20.0000	4.600	4.595	-0.005	0.0083	
2	230	60.0000	13.80	13.77	-0.03	0.0248	
3	230	100.0000	23.00	22.94	-0.06	0.0414	
AC Power @ 50 Hz (Y - Phase)							
	V	A	kW	kW	kW	kW	

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Standard Reading						
Sr.No.	Voltage	Current	Power	UUC Reading	Error	Expanded Uncertainty (±)
1	230	20.0000	4.600	4.597	-0.003	0.0083
2	230	60.0000	13.80	13.78	-0.02	0.0058
3	230	100.0000	23.00	22.96	-0.04	0.0058
AC Power @ 50 Hz (B - Phase)						
	V	A	kW	kW	kW	kW
1	230	20.0000	4.600	4.596	-0.004	0.0083
2	230	60.0000	13.80	13.77	-0.03	0.0058
3	230	100.0000	23.00	22.95	-0.05	0.0058

Energy

	Standard Reading						
Sr.No.	Voltage	Current	Power	Energy	UUC Reading	Error	Expanded Uncertainty (±)
	V	A	kW	kWh	kWh	kWh	kWh
1	230	100.0000000	23.000	916.228	916.205	-0.023	0.6000

Digital Signature of Laboratory:

REVA PHOENIX LABS AND CONSULTANTS
PRIVATE LIMITED

Date: 06/01/2025 20:02:55 +05:30

Reason: Calibration Certificate

Location: Chennai

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Mandatory Annexure to Calibration Certificate

- Calibration Certificate includes all the information as agreed with Customer and as necessary for the interpretation of the results and all information required by the method used, including, additions to deviations, or exclusions.
- All issued reports are retained as technical records by our Laboratory as per ISO/IEC 17025: 2017 requirements.
- Metrological traceability to National | International Standards as per ISO/IEC 17025: 2017 requirements is and Calibration reports do not contain any recommendation on Calibration interval, except where agreed.
- Laboratory is responsible for all the information provided in the report, except when information is provided by the customer. Data provided, where applicable, is clearly identified, as they can affect the validity of results.
- Measurement Uncertainty reported is at approximately 95% confidence level with $k=2$; Unit of measurement result and measurement uncertainty are same as that of range selected, unless otherwise indicated in certificate.
- Calibration Certificate is issued in accordance with the terms and conditions laid down by NABL which has assessed our measurement capability and its traceability to recognized National | International standards.
- Metrological traceability of Masters to National / International Standard is established by unbroken chain of calibration.
- Calibration Certificate pertains only to the particular item(s) submitted and reported for calibration and shall not be reproduced except in full, without the written approval from our Laboratory.
- Results reported in Calibration Certificate are valid at the time of and stated conditions of measurement of UUC.
- Error(s), if any, in the Calibration Certificate, shall be brought to the notice of Laboratory within 30 days from the date of issue. Amendments to Certificate will not be entertained thereafter.
- Calibration Certificate is issued based on Customer requirements for Scientific and Industrial purposes and not meant for other purpose and shall not be produced in the court of law.
- Legal Aspects: Calibration of Weights, Density of solids, Load cell, UTM, Pressure Dead Weight Tester, Pressure Gauge. Liquid-in-glass Thermometer done by our Laboratory is meant for scientific and industrial purpose only. However, if used for commercial trading, additional recognition/ approval shall be complied as required by Department of Legal Metrology, Regulatory body, etc.
- Laboratory is not liable for any change in the reported data and performance specification on account of malfunctioning of Standards | Equipment covered by this Certificate due to damage caused to it after the issue of this Certificate.
- Any corrections | changes | erasing | modifications | unauthorized Seal, Stamp or Signature on this Calibration Certificate invalidate this Certificate.
- Unless otherwise specified, the measurement data reported is considered 'As found data - without any adjustments.'
- Decision Rule: No conformity statement (Pass | Fail | Accepted | Rejected) is provided, unless otherwise indicated on report.
- NABL Guideline 133 is adopted for the use of NABL Symbol.
- This report pertains only to the sample | equipment submitted and shall not be reproduced in part or full, without explicit written permission from our Laboratory.
- Only Digital calibration Certificate in soft, valid and prepared as per ISO/IEC 17025:20217 requirement is issued.

Scope of Accreditation:

Please contact our Laboratory to get a copy of our ISO/IEC 17025: 2017 Accredited Certificate and Scope of Calibration. You may also download the same directly from NABL Website.

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For any further information, assistance or feedback; please contact:

Director | Managing Director

Reva Phoenix Labs & Consultants Private Limited

Reva Phoenix Complex, No.14, 4th Street, Rajarajeswari Nagar,

Madipakkam, Chennai 600 091, Tamil Nadu, India

Enquiry : +91 99406 72352 | Accounts: +91 95000 32931 | Reception: +91 98402 96996 | Management: +91 99403 48159

E mail: enquiry@revaphoenix.com | Website: www.revacalibration.com

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- Mechanical - Impact Testing Machine
- Mechanical - Mass & Volume, Weighing Scale & Balance, Weights
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 Calibrator | Torque Sensor Upto 2000 Nm

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- End of Calibration Certificate -

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