







CC - 2287

CALIBRATION CERTIFICATE

IDEMI

INSTITUTE FOR DESIGN OF ELECTRICAL MEASURING INSTRUMENTS, MUMBAI

MSME - Technology Centre Mumbai

(A Govt. of India Society)
Ministry of Micro, Small & Medium Enterprises
Government of India

Eastern Express Highway, Chunabhatti, Sion P.O., MUMBAI - 400 022.

Phone: (022) 2405 0301-4 Fax: (022) - 2405 0016

Website: www.idemi.org

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FF-LAB-013

ACCREDITATIONS / RECOGNITIONS / CERTIFICATIONS / MEMBERSHIPS

Govt. of India Institute under the Ministry of MSME	©≣ME
Laboratories are Accredited by NABL as per ISO/IEC 17025	
Recognised by BIS, under Laboratory Recognition Scheme for Type Testing of Energy Meter.	Execution Sections
Certified by SGS, UK for ISO 9001 : 2015	ISO 9001:2015
Member of National Conference of Standards laboratories International	NCSLINTERNATIONAL Energy to State of Baselment
Member of Bureau of Indian Standards (BIS)	
Member of British Standard Institute, (BSI) United Kingdom	bsi.
Member of Society of EMC Engineers	
Member of Institute for Electrical & Electronic Mfg. Association (IEEMA) India.	your link to electricity
Member of Metrology Society of India.	
Member of Fluid Power Society	
Member of Indo - German Chamber of Commerce	AHK Indo-German Chamber of Commerce Deutsch-Indjecte Hardenkammer Mumbai - Delhi - Kolada - Chemai Bengalura - Pune - O'Disseldorf
Undertakes the Testing and Calibration as per IEC Standards (International Electro Technical Commission)	IEC.
Undertakes the Testing for CE Marking	CE
Member of Indo - American Society	
Member of Tool & Gauge Manufacturing Association (TAGMA)	TAGASA TOOL & GAUGE MANUFACTURERS ASSOCIATION OF INDIA



वैद्युतिक मापन उपयंत्र अभिकल्प संस्थान, मुंबई INSTITUTE FOR DESIGN OF ELECTRICAL

INSTITUTE FOR DESIGN OF ELECTRICAL MEASURING INSTRUMENTS, MUMBAI TECHNOLOGY CENTRE

भारत सरकार की सोसायटी सुक्ष्म लघु एंव मध्यम उद्यम मंत्रालय Government of India Society Ministry of Micro, Small & Medium Enterprises



संदर्भ संख्या / Ref no.: Work Order No.: WO/ECL/0791/23-24 Date: 18/03/2024

दिनांक :

Date: 21-03-2024

To,

M/s. National Centre For Quality Calibration, 4, Abhishree Corporate Park, Near Swagat Bungalow BRTS, Iskcon - Ambli Road, Ambli, Ahmedabd - 380 058, Gujarat.

Attn. : Mr. Hitesh Limbachiya

Mobile: 9327017517

विषय : अंशांकन प्रमाणपत्र Subject : Calibration Certificate

महोदय,

Dear Sir,

आपके उपकरणों अवयवों पर किये हुये अंशांकन प्रमाणपत्र संख्या CC/ECL/1683/23-24

आपको जानकारी के लिए पत्र कें साथ भेंज रहे हैं। यदि आपको अंशांकित मतों पर स्पष्टीकरण की कोई आवश्यकता हो तो, कृपया प्रमाणपत्र जानकारी करने वाले प्राधिकारी को हमारे संदर्भ संख्या और तारीख का उल्लेख करते हुए, प्रमाणपत्र प्राप्त होने पर चार सप्ताह के अन्दर सम्पर्क करें अथवा लिखे। हम इस पत्र के साथ फीड बॅक फॉर्म भेज रहे हैं। कृपया उसे भरके प्रधान निदेशक, आई डी ई एम आई को भेंजे।

Calibration Certificate No. CC/ECL/1683/23-24/ on your instruments / components / equipment's are / is enclosed herewith for your information. If you need any clarification on calibration certificate, please write/contact to certificate issuing officer quoting our reference and date within four week the date of receipt of this certificate. We are also enclosing here with feed back form. Kindly fill up and send to the Principal Director of IDEMI.

धन्यवाद! भवदीय Thank You Yours faithfully

संलग्न पत्रानुसार प्रधान निदेशक
Encl. As above PRINCIPAL DIRECTOR



Swatantryaveer Tatya Tope Marg, Chunabhatti, Sion, P.O. Mumbai - 400 022 (M. S.)

Phone: (022) 2405 0301/2/3/4 Fax: (022) 2405 0016

Website: www.idemi.org



CALIBRATION CERTIFICATE



CC-2287

Work Order No. : WO/ECL/0791/23-24 Certificate No. : CC/ECL/1683/23-24

 Work Order Date
 : 18/03/2024
 Date of Calibration
 : 19/03/2024

 Date of Receipt
 : 18/03/2024
 Page No.
 : 1 of 2

 ULR No.
 : CC228724100000494F
 Date of Issue
 : 21/03/2024

Discipline : Mechanical Calibration (Group : Acoustics)

Calibrated for : M/s. National Centre For Quality Calibration, 4, Abhishree Corporate Park, Near Swagat

Bungalow BRTS, Iskcon - Ambli Road, Ambli, Ahmedabd - 380 058, Gujarat.

Calibrated at : IDEMI, Mumbai.

Description and Identification of Device Under Calibration	Standards Used for Calibration
Name : Sound Calibrator	Sound Level Meter with Sound Level Calibrator ID No.: IDEMI/ECL/SLC/01
Manufacturer: M/s. Delta Ohm	Calibration Certificate No. : CC/ECL/0187/22-23 Calibration Valid up to 01/05/2024
Condition on receipt : No visible damage	
Points of Calibration: 94 dB & 114 dB at 1 kHz	All measurement results are traceable to the International system of units (SI), ensured
Model : HD2020 Sr. No. : 11001188 ID. No : NCQC/M-27	by comparison, directly or indirectly with National or International standards through unbroken chain of calibration

Ambient Conditions:

Temperature: 24.6 °C Relative Humidity: 54 %

Remarks: Please refer page 2 of 2 for Calibration Results.

1) Procedure of Calibration : Above mentioned item is calibrated as per operating procedure :

OP-S&R-02

- 2) The reported expanded uncertainty in measurement is stated as the combined standard uncertainty in measurement multiplied by the coverage factor k = 2, which for a normal distribution corresponds to a coverage probability of approximately 95 %.
- 3) Calibration Status: Sticker No. 1683 indicating 'CAL STATUS' is affixed on instrument.
- 4) Our NABL Accreditation Certificate No. is CC 2287, Valid up to 30/08/2025.
- 5) Next Calibration Due on: 18/03/2025

AUTHORISED SIGNATORY

Note:

- This certificate refers only to the particular item(s), submitted for calibration. The certificate should not be reproduced expect in full without the prior permission from the Principal Director, IDEMI, Mumbai - 400 022.
- This is computer generated certificate and may not contain signature. Where send by email, this is signed with digital signature of authorized signatory, approved by NABL. For any queries, please quote work order number mentioned in this certificate



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Ministry of Micro Small & medium Enterprises

स्वातंत्र्यवीर तात्या टोपे मार्ग चुनाभट्टी सायन डाकघर मुंबई

Swatantryaveer Tatya Tope Marg, Chunabhatti, Sion, P.O. Mumbai - 400 022



वैद्युतिक मापन उपयंत्र अभिकल्प संस्थान, मुंबई ४०००२२ INSTITUTE FOR DESIGN OF ELECTRICAL MEASURING INSTRUMENTS, MUMBAI - 400 022



Instrument Sr. No.: 11001188 Page No.: 2 of 2

Date of Calibration: 19/03/2024 Certificate No.: CC/ECL/1683/23-24

ULR No. : CC228724100000494F

Calibration Results:

DUC Setting in dB	Standard Rdg. Measured in dB		Error in dB	
at 1 kHz	'A' Wtg.	'C' Wtg.	'A' Wtg.	'C' Wtg.
94	94.1	94.2	-0.1	-0.2
114	114.0	114.0	0.0	0.0

Note: 1) Value mentioned above is a mean of 5 readings.

- 2) Expanded Uncertainty in calibration is \pm 0.5 dB.
- 3) As requested by customer, Sound Level Calibrator with ½ inch cavity was calibrated at 94 dB & 114 dB at 1 kHz frequency for the accuracy of the generated sound pressure level with the calibrated B & K make sound level analyser, model 2250 with ½ inch microphone & calibrated Omnical make sound level calibrator (Traceable to IDEMI, Mumbai vide their calibration certificate number CC/ECL/0187/22-23). Measurement is carried out in Acoustic Chamber. Sound level difference between inside and outside of acoustic chamber was less than 30 dB at the time of calibration
- 4) DUC = Device Under Calibration



OUR NABL & BIS ACCREDITATION STATUS



IDEMI (MSME-Technology Centre) is a Government of India Society working under the Ministry of Micro, Small & Medium Enterprises (MSME) and Accredited by National Accreditation Board for Testing and Calibration Laboratories (NABL) for its facilities at Mumbai and on site in the following fields as per ISO/IEC 17025:2017

SR. NO.	FIELD	NABL ACCREDITATION CERTIFICATE NUMBER
1	Electro Technical Calibration	CC-2287
2	Pressure Calibration	CC-2287
3	Mass & Volume Calibration	CC-2287
4	Dimensional Metrology	CC-2287
5	Fluid Flow Calibration	CC-2287
6	Thermal Calibration	CC-2287
7	Electrical Testing	TC-5538
8	EMI / EMC Testing	TC-5538
9	Monoblock Pump Testing	TC-5538
10	Electronics Testing	TC-5538
11	Energy Meter Testing	Recognised by BIS

NOTE

- 1. This/These certificate(s) refer(s) only to the particular instrument(s) submitted for calibration.
- This/These certificate(s) shall not be reproduced, except in full unless written permission for the
 publication of an approved abstract has been obtained from the Principal Director of Institute for
 Design of Electrical Measuring Instruments, Mumbai.
- The calibration results reported in the certificate(s) are valid at the time of and under the stated conditions of measurement.
- 4. IDEMI, Mumbai shall not be responsible for any change in calibration date and performance specification on account of malfunctioning of the standard / Instrument / Equipment due to any damage caused to it after handing over it to customer or his authorised representative & certificate has been issued.