



CALIBRATION CERTIFICATE



Work Order No. : WO/ECL/0799/22-23
Date : 22/02/2023
ULR No. : CC228723100000434F
Discipline : Mechanical Calibration (Group : Acoustics)

Certificate No. : CC/ECL/1826/22-23
Date of Calibration : 24/02/2023
Page No. : 1 of 2

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

Ambient Conditions :

Temperature : 25.2 °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. 1826 indicating 'CAL STATUS' is affixed on instrument.
- 4) Our NABL Accreditation Certificate No. is CC - 2287, Valid up to 30/08/2023.
- 5) Next Calibration Due on : 23/02/2024

MAHENDRA
TUKARAM
MAHADIK

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MAHENDRA
TUKARAM MAHADIK
Date: 2023.03.14
11:40:48 +05'30'

AUTHORISED SIGNATORY

Note:

1. This certificate refers only to the particular item(s), submitted for calibration. The certificate should not be reproduced except in full without the prior permission from the Principal Director, IDEMI, Mumbai - 400 022.
2. 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



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

भारत सरकार की सोसायटी
सूक्ष्म लघु एवं मध्यम उद्यम मंत्रालय
Government of India Society

Ministry of Micro Small & medium Enterprises

स्वातंत्र्यवीर तात्या टोपे मार्ग चुनाभट्टी सायन डाकघर मुंबई

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



FF-LAB-003



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



Instrument Sr. No. : 11001188
Date of Calibration : 24/02/2023
ULR No. : CC228723100000434F

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Calibration Results :

DUC Setting in dB at 1 kHz	Standard Rdg. Measured in dB		Error in dB	
	'A' Wtg.	'C' Wtg.	'A' Wtg.	'C' Wtg.
94	94.0	94.1	0.0	-0.1
114	113.8	113.9	0.2	0.1

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

2) Expanded Uncertainty in calibration is ± 0.5 dB.

3) As requested by customer, Sound Level Calibrator with $\frac{1}{2}$ 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 $\frac{1}{2}$ inch microphone & calibrated Omnicl 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

*** End of Calibration Certificate ***

Digitally signed by
MAHENDRA MAHENDRA
TUKARAM TUKARAM
MAHADIK MAHADIK
Date: 2023.03.14
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Authorised Signatory



CC-2287

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