

# CALIBRATION CERTIFICATE



Work Order No. : WO/IECU/144/18-19  
 Certificate No. : CC/IECU/2950/18-19  
 Date : 27/03/2019  
 Date of Calibration : 27/03/2019  
 ULR No. : CC228719100000941F  
 Page No. : 1 of 2  
 Calibrated Item : Sound Level Meter  
 Calibrated for : M/s. National Centre For Quality Calibration, 4, Abhishek Corporate Park,  
 Near Swagat Bunglow BRTS, Iskon - Ambli Road, Ambli, Ahmedabad - 380 058.

Calibrated at : IDEMI, Mumbai.  
**Standard Instruments Used for Calibration**  
 Manufacturer : M/s. Lutron.  
 Condition of Item on receipt : No Visible Damage  
 Range of Calibration : 35 - 80 dB, 50 - 100 dB, 80 - 130 dB  
 Sr. No. : I. 151193  
 Model No. : SL - 4010  
 ID. No. : NCQC/M - 26  
 Accuracy :  $\pm 1.4$  dB at 1 kHz

**Ambient Conditions :**  
 Temperature :  $25 \pm 2^\circ\text{C}$   
 Relative Humidity : 45 % to 75 %  
 Remarks : Please refer page 2 for Calibration Results.  
 1) Procedure of Calibration : Above mentioned item is calibrated as per operating procedure :  
 OP-S&R - 02  
 2) Reported Expanded Uncertainty is at Coverage Factor  $k=1.96$  & at 95% Confidence Level.  
 3) Calibration Status : Sticker No. 2375 indicating 'CAL STATUS' is affixed on instrument.  
 4) Our NABL Accreditation Certificate No. is CC - 2287, Valid up to 30/09/2020  
 5) Next Calibration Due on : 26/03/2020

Digitally signed by  
 NISHANT  
 NARESH  
 PAWASKAR  
 DATE:20190401 16:27:05  
 AUTHORIZED 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 Managing 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

माल सकार की संसाधनी  
 कृम तयु एन मयान उरम मंत्रालय  
 Government of India Society  
 Ministry of Micro Small & medium Enterprises  
 स्वातंत्र्यवेर ताया टोपे मार्ग बुलान्दुटी सारन ठाकरर बुई  
 Swatantryaveer Tanya Tope Marg, Chunarbhatti, Slon, P.O. Mumbai - 400 022  
 FF-LAB-03

NCQC  
 Valid up to 26-05-2020  
 Reviewed

Calibration No. 80



वैद्युतिक मापन उपयंत्र अभिकल्प संस्थान, मुंबई, ४०००२२  
 INSTITUTE FOR DESIGN OF ELECTRICAL  
 MEASURING INSTRUMENTS, MUMBAI - 400022



# ELECTRICAL CALIBRATION LABORATORY

Instrument Sr. No. : I. 151193  
 Page No. : 2 of 2  
 Date of Calibration : 27/03/2019  
 Certificate No. : CC/IECU/2950/18-19  
 ULR No. : CC228719100000941F

Calibration Results :

Calibration Std. in dB at 1 kHz	Instrument Under Calibration		Error in dB
	Range	Reading in dB	
73.3	35 ~ 80 dB	73.9	0.6
73.3	50 ~ 100 dB	73.8	0.5
83.2		83.9	0.7
93.4		93.9	0.5
83.2	80 ~ 130 dB	83.9	0.7
93.4		93.9	0.5
103.4		103.9	0.5
113.4		113.9	0.5

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

- 2) Expanded Uncertainty in measurement  $\pm 0.45$  dB  
 3) The Sound Level Meter along with it's microphone was calibrated for deviations from indicated value at the reference frequency 1 kHz at 74, 84, 94, 104 & 114 dB for 'A' & 'C' weighing by using calibrated sound level calibrator (Calibrated by NPL vide their calibration certificate number 18050717/D1.077C-020). Measurement is carried out in Acoustic Chamber. Difference between inside and out side sound level of chamber was less than 30 dB at the time of measurement.

\*\*\* End of Calibration Certificate \*\*\*