



MEASURE TECHNO LAB

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CC - 2545

CALIBRATION CERTIFICATE OF REFRIGERATOR

CALIBRATION CERTIFICATE NO.: MTL / SQDPL / R06 / 03 - 24

ULR - CC254524000012763F

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1.0 Service Request No.: MTL / 18A / 03 / 23 - 24

1.1 Issued to: M/s. SpectroQ Diagnostics Pvt. Ltd.
Plot No. - 853 / 4786, 1st Floor,
Jharapada, Govinda Prasad, Cuttack Road,
Bhubaneswar, Khordha - 751006.

1.2 Description & Identification of item to be Calibrated:	a) Name:	Refrigerator	b) Code No.:	REFG - 01
	c) SI No.:	N.S.	d) Make:	Kelvinator
	e) Model / Type:	KNE - 183	f) Range:	As Per Report
	g) Sensor:	N.A.	h) Resolution:	N.A.
	i) End User:	Lab	j) Accuracy:	N.S.
	k) Calibration done at:	√ On Site / In House		

1.3 Date of receipt of item : 18-03-24

1.4 Physical Condition of DUC : OK

1.5 Date of calibration : 18-03-24

1.6 Recommended date of next calibration : 18-03-25

1.7 Date of Issue : 21-03-24

1.8 Environmental Conditions During Calibration:

Temperature: 25 °C ± 2 °C
Humidity: 55 % RH ± 10 % RH

1.9 Method of Calibration: SOP / TH / 05

2.0 Traceability :

a) Standards used for calibration are traceable to National standards through NABL Accredited Laboratory.

b) The following standards / Equipment have been used.

- i) Data Acquisition Unit Cal. Certificate No. C&I/CAL/23-12/060 (C&I/CPL, Jaipur) (Cal. Date: 13/12/23, Due Date: 13/12/24)
- ii) 4 Wire RTD Cal. Certificate No. TL / 023 / 568.1.1 (TEMPSENS, Udaipur) (Cal. Date: 13/05/23, Due Date: 12/05/24)

2.1 Result :

Thermal Calibration (Temperature)

Sl. No.	Parameter/ Range	Chamber	Corrected Std. Value					Rack	Measurement Expanded Uncertainty ± °C
			Min. Ohms	Min. °C	Max. Ohms	Max. °C	Average °C		
1.	Temperature	Deep	98.651	-3.45	98.741	-3.22	-3.321	1	0.28
		Normal	102.003	5.13	102.054	5.26	5.180	1	0.31
2.	Temperature		102.132	5.46	102.175	5.57	5.529	2	0.31
		102.234	5.72	102.269	5.81	5.747	3	0.31	

Remarks: i) This result has an expanded uncertainty with a coverage factor k=2 at approximately 95% confidence level.

ii) The calibration certificate issued for this instrument is to be used for scientific or industrial purposes only.

iii) Average Reading obtained by 10 Readings.

iv) Calibrations are carried out without any adjustment or repair.

DUC - Device Under Calibration

N.S. - Not Specified

N.A. - Not Applicable

Std. - Standard

Min. - Minimum

Max. - Maximum

Opinions and Interpretations

Calibrated	√	Accepted / Valid for use
Limited Use		Rejected / Out of use

Calibration Engineer
Measure Techno Lab
J. Dey
Kolkata
Calibration Engineer

Checked / Approved by:
S. Pandey
Quality / Technical Manager