



# MEASURE TECHNO LAB

2, B.T. ROAD (JAYANTI CINEMA COMPLEX), BARRACKPORE,  
KOLKATA - 700120, W.B.



CC - 2545

Phone : 033 - 2215 - 0032, 2215 - 9687, 8100875519, Mobile: 9831190974,  
LAB:- 8100143376, E-mail: measuretechno@yahoo.co.in

## CALIBRATION CERTIFICATE OF DEEP FREEZER

CALIBRATION CERTIFICATE NO.: MTL / SQDPL / R03 / 03 - 24

ULR - CC254524000012760F

Page: 1 of 1

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:	Deep Freezer	b) Code No.:	DF - 01
	c) SI No.:	N.S.	d) Make:	LG
	e) Model / Type:	N.S.	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&ICPL, Jaipur) (Cal. Date: 13/12/23, Due Date: 13/12/24)
- ii) 4 Wire RTD Cal. Certificate No. TL / 023 / 568.1.1 (TEMPESENS, Udaipur) (Cal. Date: 13/05/23, Due Date: 12/05/24)

### 2.1 Result :

Thermal Calibration (Temperature)

Sl. No.	Parameter/ Range	Corrected Std. Value					Zone	Measurement Expanded Uncertainty ± °C
		Min. Ohms	Min. °C	Max. Ohms	Max. °C	Average °C		
1.	Temperature	91.944	-20.55	91.991	-20.43	-20.477	LZ	0.28
		91.775	-20.98	91.869	-20.74	-20.846	MZ	0.28
		91.716	-21.13	91.775	-20.98	-21.041	RZ	0.28

- 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	LZ - Left Zone	MZ - Middle Zone	RZ - Right Zone	

### Opinions and Interpretations

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

Calibration Engineer  
 Measure Techno Lab  
 Kolkata  
 Calibration Engineer

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