



TMSCC

TESTING MACHINE SERVICE AND CALIBRATION CENTRE
Precision is Our Destination.....

An NABL Accredited Calibration Laboratory
A Constituent Board of Quality Council of India

An ISO 9001 : 2015 Certified company
Calibration of Various Instruments & Testing Machines...



CC - 3125

Form No.: TMSCC/R/23

CALIBRATION CERTIFICATE

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ISSUE DATE : 5-Jun-2023

ULR No.: CC312523000007019F

1.0 ISSUED TO : M/s. Suraha Speciality Laboratory
167, Beharapara, I.L.C. Sarani, Sonarpur,
24.Parganas(S), Kolkata - 700150

1.1 Service Request Form No. : SRF/2023/06/02/02

1.2 Service Request Date : 02-06-2023

1.3 Location : At Site

1.4 Description identification of item to be calibrated :

i Name :	Refrigerator	ii Make :	SAMSUNG
iii Model / Type No.:	--	iv S/L No.:	--
v I.D.No.:	SSL/REF/01	vi Job Code No.:	2023/06/102
vii Range :	Normal Zone(2 to 6) °C & Deep Zone(-20)°C	viii Resolution :	1°C
ix Accuracy :	As Per DKD R5 - 1	x End User :	--

1.5 Full / Partial Calibration : Full Calibration

1.6 Applicable specification of item to be calibrated: Accuracy / permissible limit : Not Specified.

1.7 Date of receipt of item : 2-Jun-2023 1.7 Date of calibration : 2-Jun-2023

1.9 Calibration due on : 1-Jun-2024 1.9 Frequency of calibration once in : 12 Months

2.1 Environmental condition during calibration : Temperature : 25.5°C
Humidity : 55% RH

2.2 Basis of calibration : SOP/1/06

2.3 Traceability : Standards used for calibration are traceable to National Standards through NABL accredited Laboratory.

Name of Instrument	Sl. No. / ID no.	Certificate No.	Lab Certificate No.	Calibrated On	Due On
Digital Temperature Indicator with Sensor(RTD)	Sl. No.- 18K588073 (Sl. No.- 19102403)	TSC/22-23/12095-36	CC-2231	17-11-2022	17-11-2023

CALIBRATION RESULTS

Sl. No.	DUC set in °C	Observed Reading at Ref. Std. in °C (Avg. of five readings)	Error in °C	Uncertainty in ± °C	Acceptance Criteria	
Normal Zone : (2 to 6)°C						
1	2	2.003	0.003	0.61	Pass	
2	4	4.005	0.005	0.61	Pass	
3	6	6.008	0.008	0.61	Pass	
Sl. No.	DUC set in °C	Observed Reading at Ref. Std. in °C	Mean reading in °C	Error in °C	Uncertainty in ± °C	Acceptance Criteria
Deep Zone : Working Range :- (-)20°C						
1	-20	-20.030	-20.027	-0.027	0.61	Pass
2		-20.025				Pass
3		-20.028				Pass
4		-20.027				Pass
5		-20.026				Pass

Maximum Permissible Error : ± 0.3% of rdg

Measurement Uncertainty at 95% Confidence Level where Coverage Factor k = 2

REMARKS : The DUC has been calibrated over its range. The readings observed are tabulated above. The reference standard is traceable to National standard.

DUC: Device Under Calibration.

Physical Status of the DUC : OK

Calibrated By :

R. Ghosh
(Calibration Engineer)

Checked By :

C. Ghosh
(Technical Director)



Approved By :

P. K. Modak
(Sr. Calibration Engineer)

END OF CERTIFICATE