



TMSCC

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



CC - 3125

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...

Form No.: TMSCC/R/23

CALIBRATION CERTIFICATE

CALIBRATION CERTIFICATE NO. : 2023/06/103		Page 1 of 1				
ISSUE DATE : 5-Jun-2023						
ULR No. : CC312523000007020F						
1.0 ISSUED TO : M/s. Suraha Specialty Laboratory 167, Beharapara, H.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 LD.No. :	SSL/REF/02	vi Job Code No. :	2023/06/103			
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		SI. No. / ID no.	Certificate No.	Lab Certificate No.	Calibrated On	Due On
Digital Temperature Indicator with Sensor(RTD)		SI. No.- 18K588073 (SI. No.- 19102403)	TSC/22-23/12095-36	CC-2231	17-11-2022	17-11-2023

CALIBRATION RESULTS

Sl. No.	Observed reading at DUC 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.	Observed reading at DUC 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