



SRI CHAKRA SCIENTIFIC SERVICES

8-4-16/18, Sri Sai Enclave, Old Bowenpally, Secunderabad - 500 011, TS, India.
Tel : 040 27750300, Email : info@srichakralabs.co.in
URL : www.srichakralabs.co.in
ISO 9001 : 2015 Certified Lab



CALIBRATION CERTIFICATE

Customer Name	M/s. Indi Global Labs		
Address	Plot 7, cf area Cherlapally IDA, Phase II, Hyderabad, Telangana 500051		
Description	Unique Lab Report : ULR-CC255722000026265F		
Name	Temperature Mapping for Deep Freezer	Issue Date	28/05/2022
ID. No.	DL/FRZ/002	Certificate No.	22052501000409
Sl. No.	BFS250210330210700068	Registration Date	25/05/2022
Make	Celfrost	Customer Reference	SRF
Model	BFS250	Date of Calibration	25/05/2022 to 27/05/2022
Range	-18 to -22°C	Recommended Due Date	24/05/2023
Least Count	Not Applicable	Environmental Condition	Temperature (°C) 24.6
Acceptance Criteria	Not Applicable	Relative Humidity (%RH)	52
Location	Diagnostics	Instrument Condition	Good
Department	Diagnostics Lab		

TEMPERATURE VERIFICATION RESULTS

THERMAL CALIBRATION (TEMPERATURE)

	CH-01	CH-02	CH-03	CH-04	CH-05	CH-06	CH-07	CH-08
Max. (°C)	-19.2	-19.5	-19.1	-19.2	-19.2	-19.3	-19.2	-20.0
Min. (°C)	-21.8	-21.6	-20.9	-21.1	-21.5	-21.7	-21.6	-21.9
Average (°C)	-20.7	-20.6	-20.3	-20.6	-20.6	-20.6	-20.7	-20.9
Uniformity		1.5		Overall Deviation		-2.8		
Stability		0.9		Measurement Uncertainty		2.7		

Method: Comparison method as per DKD R 5-7, IEC 60068-3-6 Part 11

Standard Instrument Details

Sl. No.	Standard	Uncertainty	Validity	Traceability
1	24 Channel Data Logger with Sensors ID No.: SCS/DDL/07	± 0.31 °C	18/11/2022	Sri Chakra Scientific Services Cert No.: 2111190100109

Remarks:

1. The above Instrument was Calibrated at site.
2. The above readings were taken as per customer requirements.
3. The results stated in this Certificate are related only to the Instrument Calibrated.
4. The Standards used for Calibration are traceable to National & International standards.
5. The reported Uncertainty is at coverage factor k = 2 which corresponds to a confidence level at 95%.
6. Temperature scale: International Temperature scale of 1990 (ITS 90).
7. This Certificate is meant for Scientific and Industrial purpose only.
8. The above Instrument Calibrated by B Shravan.


Authorised by
D Rahul
Assistant Manager

Page 1 of 2




06 Jun 2022
REVIEWED AND ACCEPTED



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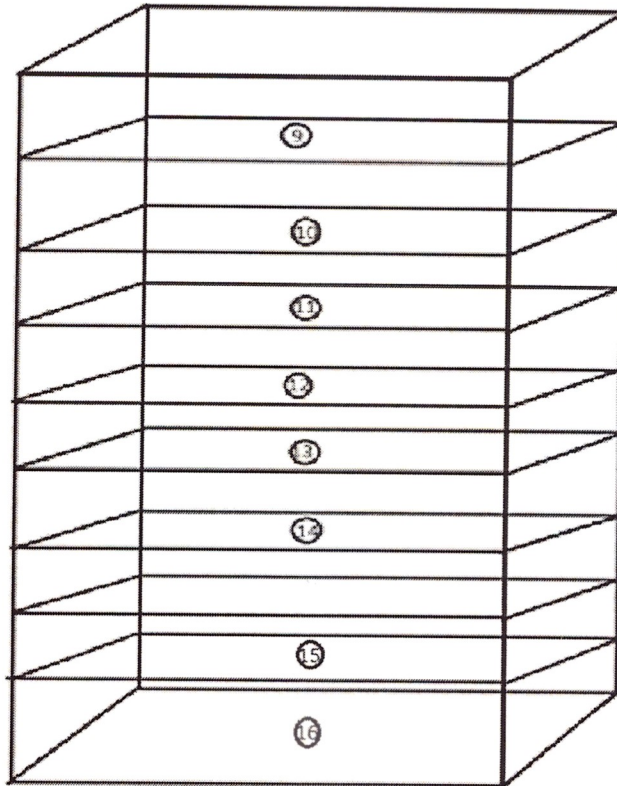
CALIBRATION CERTIFICATE

Unique Lab Report No.	ULR-CC255722000026265F		
Certificate No	22052501000409	Issue Date	28/05/2022
Date of Calibration	25/05/2022 to 27/05/2022	Recommended Due Date	24/05/2023

Deep Freezer Details:

Working Range : -18 to -22°C

Mapping Chart for Insertion of Sensors in Deep Freezer



- | | |
|---------|-------------|
| 1.CH-09 | 2.CH-10 |
| 3.CH-11 | 4.CH-12 REF |
| 5.CH-13 | 6.CH-14 |
| 7.CH-15 | 8.CH-16 |



D. Rahul
Authorised by
D Rahul
Assistant Manager

Unique Lab Report No.	ULR-CC255722000026265F		
Certificate No	22052501000409	Issue Date	28/05/2022
Date of Calibration	25/05/2022 to 27/05/2022	Recommended Due Date	24/05/2023

Date	Time	CH-01	CH-02	CH-03	CH-04	CH-05	CH-06	CH-07	CH-08
25/05/2022	14:15:00	-19.2	-19.7	-19.5	-19.8	-21.4	-21.0	-21.5	-21.9
25/05/2022	14:30:00	-19.8	-20.4	-19.5	-20.2	-21.0	-21.6	-21.3	-20.8
25/05/2022	14:45:00	-21.1	-21.6	-20.5	-21.0	-21.3	-21.1	-21.2	-21.6
25/05/2022	15:00:00	-21.0	-21.2	-20.4	-21.0	-21.5	-19.3	-20.4	-21.3
25/05/2022	15:15:00	-21.8	-21.2	-20.1	-21.0	-20.4	-21.1	-20.9	-21.2
25/05/2022	15:30:00	-21.7	-21.2	-20.6	-21.0	-20.9	-21.3	-21.5	-20.3
25/05/2022	15:45:00	-20.2	-20.6	-20.1	-21.0	-20.3	-21.1	-21.6	-20.1
25/05/2022	16:00:00	-20.7	-20.0	-20.4	-21.0	-20.6	-21.5	-21.2	-20.5
25/05/2022	16:15:00	-20.1	-20.4	-20.7	-20.1	-20.9	-20.3	-21.6	-21.2
25/05/2022	16:30:00	-20.4	-20.7	-20.9	-20.3	-20.1	-20.1	-20.7	-21.4
25/05/2022	16:45:00	-20.7	-20.0	-20.1	-20.5	-20.3	-21.6	-21.5	-21.9
25/05/2022	17:00:00	-20.8	-20.2	-20.3	-20.7	-20.4	-21.6	-21.3	-20.8
25/05/2022	17:15:00	-20.0	-20.3	-20.4	-20.8	-20.5	-21.3	-21.0	-20.3
25/05/2022	17:30:00	-20.2	-20.5	-20.5	-20.9	-20.6	-21.6	-21.4	-21.5
25/05/2022	17:45:00	-20.3	-20.6	-20.6	-20.0	-20.6	-19.3	-20.5	-21.5
25/05/2022	18:00:00	-20.3	-20.6	-20.7	-20.1	-20.7	-21.2	-21.1	-21.4
25/05/2022	18:15:00	-20.5	-20.7	-20.0	-21.0	-21.4	-21.4	-21.0	-20.4
25/05/2022	18:30:00	-20.5	-20.8	-20.5	-21.0	-21.5	-21.5	-21.5	-20.2
25/05/2022	18:45:00	-21.8	-20.8	-20.9	-21.0	-20.2	-19.9	-20.6	-21.1
25/05/2022	19:00:00	-21.8	-21.6	-20.7	-21.0	-20.9	-20.7	-20.7	-21.9
25/05/2022	19:15:00	-20.0	-20.2	-20.1	-21.0	-20.4	-21.0	-21.5	-20.1
25/05/2022	19:30:00	-20.7	-20.9	-20.5	-20.2	-20.6	-21.6	-21.6	-20.9
25/05/2022	19:45:00	-20.2	-20.3	-20.4	-21.0	-20.0	-21.0	-21.5	-20.8
25/05/2022	20:00:00	-20.5	-20.6	-20.0	-21.0	-21.2	-19.3	-21.1	-21.4
25/05/2022	20:15:00	-20.1	-20.1	-20.3	-21.1	-21.3	-20.3	-20.8	-21.7
25/05/2022	20:30:00	-21.1	-21.1	-20.2	-21.0	-20.4	-21.6	-21.5	-20.1
25/05/2022	20:45:00	-21.7	-21.1	-20.7	-21.0	-20.0	-21.6	-21.5	-20.9
25/05/2022	21:00:00	-20.3	-20.4	-20.1	-21.0	-20.3	-21.6	-21.3	-21.6
25/05/2022	21:15:00	-20.8	-20.9	-20.4	-20.0	-20.5	-19.9	-20.5	-21.3
25/05/2022	21:30:00	-20.1	-20.3	-20.6	-20.2	-20.7	-21.6	-21.0	-21.4
25/05/2022	21:45:00	-20.4	-20.5	-20.7	-20.3	-20.8	-21.5	-21.5	-21.1
25/05/2022	22:00:00	-20.5	-20.6	-20.8	-20.4	-20.9	-21.4	-21.6	-20.1
25/05/2022	22:15:00	-20.6	-20.8	-20.2	-21.0	-21.4	-20.1	-20.3	-20.9
25/05/2022	22:30:00	-20.7	-20.8	-20.5	-21.0	-21.5	-20.8	-20.9	-20.3
25/05/2022	22:45:00	-21.6	-20.8	-20.6	-21.0	-21.3	-20.2	-20.4	-20.6
25/05/2022	23:00:00	-21.6	-20.8	-20.4	-21.0	-20.6	-20.6	-20.8	-20.0
25/05/2022	23:15:00	-21.8	-20.0	-20.9	-21.0	-20.1	-20.9	-20.1	-20.1
25/05/2022	23:30:00	-20.5	-20.6	-20.2	-21.0	-20.4	-20.2	-20.3	-20.3
25/05/2022	23:45:00	-20.9	-20.0	-20.4	-20.0	-20.5	-20.3	-20.5	-20.4
26/05/2022	0:00:00	-20.2	-20.3	-20.6	-20.2	-20.7	-20.5	-20.7	-20.5
26/05/2022	0:15:00	-20.4	-20.5	-20.7	-20.3	-20.8	-20.7	-20.9	-20.6
26/05/2022	0:30:00	-20.5	-20.7	-20.8	-20.4	-20.9	-20.7	-20.0	-20.7
26/05/2022	0:45:00	-20.6	-20.7	-20.9	-20.5	-20.9	-20.8	-20.0	-20.7
26/05/2022	1:00:00	-20.7	-20.8	-20.9	-20.5	-20.9	-20.9	-20.1	-20.8
26/05/2022	1:15:00	-20.7	-20.9	-20.7	-20.3	-20.5	-20.0	-20.2	-20.1
26/05/2022	1:30:00	-20.8	-20.9	-20.3	-21.0	-21.0	-21.6	-20.1	-21.6
26/05/2022	1:45:00	-20.4	-20.6	-20.7	-21.0	-21.0	-21.1	-21.4	-21.3
26/05/2022	2:00:00	-21.4	-21.1	-20.8	-21.0	-20.1	-20.4	-20.7	-20.7
26/05/2022	2:15:00	-21.8	-21.1	-20.4	-21.0	-20.7	-20.2	-20.4	-21.2



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Date	Time	CH-01	CH-02	CH-03	CH-04	CH-05	CH-06	CH-07	CH-08
26/05/2022	2:30:00	-21.5	-20.1	-20.9	-21.0	-20.1	-20.7	-20.9	-21.4
26/05/2022	2:45:00	-20.5	-20.7	-20.2	-21.0	-20.4	-20.9	-20.1	-20.1
26/05/2022	3:00:00	-20.9	-20.1	-20.4	-20.0	-20.5	-20.3	-20.6	-21.7
26/05/2022	3:15:00	-20.2	-20.3	-20.0	-21.0	-21.4	-21.4	-21.5	-21.4
26/05/2022	3:30:00	-20.4	-20.5	-19.5	-20.0	-19.5	-21.6	-20.1	-21.5
26/05/2022	3:45:00	-21.8	-21.5	-19.4	-19.8	-19.9	-20.7	-20.9	-20.7
26/05/2022	4:00:00	-20.0	-19.6	-19.8	-19.8	-19.4	-20.2	-20.4	-20.4
26/05/2022	4:15:00	-19.6	-19.5	-19.4	-19.9	-19.6	-20.5	-20.8	-21.0
26/05/2022	4:30:00	-19.6	-19.5	-19.1	-19.8	-20.8	-20.8	-20.0	-21.7
26/05/2022	4:45:00	-19.5	-19.5	-19.6	-20.4	-21.2	-20.9	-20.2	-20.3
26/05/2022	5:00:00	-20.6	-20.8	-20.8	-21.0	-21.3	-20.1	-20.3	-20.2
26/05/2022	5:15:00	-21.0	-21.3	-20.6	-21.0	-21.3	-20.2	-20.4	-20.1
26/05/2022	5:30:00	-21.6	-21.3	-20.2	-21.0	-20.4	-21.1	-21.5	-21.5
26/05/2022	5:45:00	-21.8	-21.3	-20.7	-21.0	-20.8	-21.0	-21.3	-21.4
26/05/2022	6:00:00	-20.3	-20.5	-20.0	-21.0	-20.2	-20.2	-20.4	-20.7
26/05/2022	6:15:00	-20.7	-20.8	-20.3	-21.0	-20.3	-20.9	-20.1	-20.4
26/05/2022	6:30:00	-20.0	-20.1	-20.5	-21.0	-20.5	-20.4	-20.6	-20.9
26/05/2022	6:45:00	-20.2	-20.4	-20.7	-20.1	-20.7	-20.6	-20.8	-21.6
26/05/2022	7:00:00	-20.4	-20.5	-20.8	-20.2	-20.8	-20.8	-20.0	-21.7
26/05/2022	7:15:00	-20.5	-20.7	-20.9	-20.3	-20.9	-20.9	-20.1	-20.2
26/05/2022	7:30:00	-20.6	-20.7	-20.0	-20.4	-20.0	-20.1	-20.2	-20.1
26/05/2022	7:45:00	-20.7	-20.9	-20.0	-20.5	-20.0	-20.1	-20.3	-20.7
26/05/2022	8:00:00	-20.8	-20.9	-20.1	-20.5	-20.1	-20.2	-20.4	-21.9
26/05/2022	8:15:00	-20.8	-20.0	-20.1	-20.5	-20.1	-20.2	-20.4	-21.7
26/05/2022	8:30:00	-20.9	-20.0	-20.1	-20.6	-20.1	-20.8	-20.0	-21.7
26/05/2022	8:45:00	-20.9	-20.0	-20.2	-20.6	-20.1	-21.3	-21.5	-20.8
26/05/2022	9:00:00	-20.9	-20.0	-20.2	-20.7	-20.2	-21.3	-21.6	-20.7
26/05/2022	9:15:00	-20.0	-20.1	-20.3	-20.7	-20.3	-20.4	-20.6	-21.4
26/05/2022	9:30:00	-20.1	-20.2	-20.3	-20.7	-20.3	-20.0	-20.2	-21.2
26/05/2022	9:45:00	-20.1	-20.2	-20.3	-20.8	-20.3	-20.4	-20.6	-20.5
26/05/2022	10:00:00	-20.1	-20.3	-20.1	-20.0	-20.5	-20.7	-20.9	-20.3
26/05/2022	10:15:00	-20.1	-20.3	-19.6	-21.1	-21.5	-20.8	-20.0	-20.3
26/05/2022	10:30:00	-20.6	-20.6	-20.5	-21.0	-21.3	-21.6	-21.1	-21.8
26/05/2022	10:45:00	-21.1	-20.6	-20.4	-21.0	-20.3	-19.8	-20.3	-21.0
26/05/2022	11:00:00	-21.7	-20.6	-20.0	-21.0	-20.9	-19.3	-19.7	-20.5
26/05/2022	11:15:00	-20.1	-20.4	-20.5	-21.0	-20.0	-19.7	-19.9	-20.3
26/05/2022	11:30:00	-20.7	-20.9	-19.5	-20.6	-21.3	-19.3	-19.3	-20.1
26/05/2022	11:45:00	-20.1	-20.2	-20.3	-21.0	-21.3	-21.2	-21.4	-21.6
26/05/2022	12:00:00	-21.7	-20.2	-20.5	-21.0	-20.3	-21.6	-21.5	-21.6
26/05/2022	12:15:00	-21.7	-20.2	-20.1	-21.0	-20.0	-21.6	-21.5	-21.2
26/05/2022	12:30:00	-20.2	-20.4	-20.6	-21.1	-20.4	-20.3	-20.5	-20.3
26/05/2022	12:45:00	-20.9	-20.0	-20.9	-21.0	-20.7	-20.8	-20.0	-20.0
26/05/2022	13:00:00	-20.3	-20.5	-20.1	-21.0	-20.9	-20.1	-20.3	-20.5
26/05/2022	13:15:00	-20.6	-20.7	-20.3	-21.0	-20.1	-20.4	-20.6	-20.9
26/05/2022	13:30:00	-20.8	-20.0	-20.7	-21.1	-20.2	-20.7	-20.9	-20.2
26/05/2022	13:45:00	-20.0	-20.1	-19.7	-21.0	-21.0	-20.8	-20.0	-20.3
26/05/2022	14:00:00	-20.4	-20.3	-20.6	-21.0	-21.4	-20.0	-20.2	-20.5
26/05/2022	14:15:00	-21.2	-21.6	-20.8	-21.0	-20.7	-20.1	-20.3	-20.6
26/05/2022	14:30:00	-21.7	-21.6	-20.4	-21.0	-20.2	-20.2	-20.4	-20.8



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26/05/2022	14:45:00	-20.5	-20.7	-20.8	-21.0	-20.7	-20.3	-20.4	-20.8
26/05/2022	15:00:00	-20.1	-20.3	-20.0	-21.0	-20.9	-20.3	-20.5	-20.9
26/05/2022	15:15:00	-20.5	-20.7	-20.2	-21.0	-20.1	-20.3	-20.5	-20.0
26/05/2022	15:30:00	-20.7	-20.9	-20.1	-21.0	-21.4	-20.4	-20.6	-20.0
26/05/2022	15:45:00	-20.0	-20.1	-19.9	-21.0	-21.1	-20.4	-20.6	-20.4
26/05/2022	16:00:00	-21.5	-20.1	-19.6	-19.2	-19.6	-20.4	0.0	-21.0
26/05/2022	16:15:00	-21.2	-21.1	-19.4	-19.2	-19.9	-20.5	-20.7	-21.5
26/05/2022	16:30:00	-19.9	-19.5	-19.3	-19.8	-19.8	-20.5	-20.7	-20.9
26/05/2022	16:45:00	-19.3	-19.7	-19.1	-19.6	-21.3	-20.5	-20.8	-21.5
26/05/2022	17:00:00	-19.6	-19.8	-20.9	-20.2	-21.5	-20.6	-20.8	-21.7
26/05/2022	17:15:00	-21.2	-21.3	-20.0	-21.0	-20.0	-20.8	-20.1	-20.4
26/05/2022	17:30:00	-21.7	-21.6	-20.8	-21.0	-20.7	-21.0	-21.3	-21.9
26/05/2022	17:45:00	-21.8	-20.0	-20.3	-21.0	-20.1	-21.5	-21.5	-21.7
26/05/2022	18:00:00	-20.5	-20.7	-20.4	-21.0	-20.1	-20.6	-20.8	-21.7
26/05/2022	18:15:00	-20.0	-20.2	-19.7	-21.1	-21.5	-20.1	-20.4	-20.9
26/05/2022	18:30:00	-20.0	-20.2	-19.8	-19.6	-19.7	-20.4	-20.7	-20.6
26/05/2022	18:45:00	-21.5	-21.5	-19.9	-19.4	-19.2	-21.6	-21.1	-21.4
26/05/2022	19:00:00	-19.2	-19.6	-19.7	-19.4	-19.4	-21.6	-21.5	-21.0
26/05/2022	19:15:00	-19.8	-19.6	-19.7	-19.2	-20.9	-20.6	-20.9	-20.5
26/05/2022	19:30:00	-19.4	-19.5	-20.6	-19.9	-21.3	-20.3	-20.5	-20.4
26/05/2022	19:45:00	-20.7	-21.0	-20.7	-21.0	-21.4	-20.7	-20.0	-20.3
26/05/2022	20:00:00	-21.5	-21.0	-20.6	-21.0	-20.5	-20.0	-20.2	-21.7
26/05/2022	20:15:00	-21.7	-21.0	-20.1	-21.0	-20.0	-20.3	-20.4	-21.8
26/05/2022	20:30:00	-20.4	-20.5	-20.5	-21.0	-20.4	-20.4	-20.6	-20.0
26/05/2022	20:45:00	-20.9	-20.0	-20.8	-21.0	-20.7	-20.5	-20.9	-20.7
26/05/2022	21:00:00	-20.2	-20.4	-20.0	-21.0	-20.8	-21.3	-21.6	-20.1
26/05/2022	21:15:00	-20.5	-20.7	-20.1	-21.0	-20.1	-20.0	-20.2	-21.9
26/05/2022	21:30:00	-20.7	-20.9	-20.3	-21.0	-20.1	-20.9	-20.2	-21.9
26/05/2022	21:45:00	-20.9	-20.1	-20.4	-21.0	-20.2	-20.5	-20.7	-20.5
26/05/2022	22:00:00	-20.0	-20.1	-20.4	-20.1	-20.3	-20.9	-20.2	-20.4
26/05/2022	22:15:00	-20.1	-20.2	-20.5	-20.1	-20.4	-20.2	-20.4	-20.9
26/05/2022	22:30:00	-20.2	-20.3	-20.6	-20.2	-20.4	-20.4	-20.6	-20.3
26/05/2022	22:45:00	-20.3	-20.3	-20.6	-20.2	-20.5	-20.1	-20.4	-21.0
26/05/2022	23:00:00	-20.3	-20.4	-20.1	-20.0	-20.7	-21.4	-21.5	-20.0
26/05/2022	23:15:00	-20.4	-20.5	-20.3	-21.0	-21.3	-19.8	-20.1	-20.1
26/05/2022	23:30:00	-20.8	-20.8	-20.9	-21.0	-21.0	-19.3	-19.5	-20.0
26/05/2022	23:45:00	-21.6	-21.3	-20.4	-21.0	-20.4	-19.3	-19.4	-21.7
27/05/2022	0:00:00	-21.8	-21.3	-20.3	-20.9	-21.3	-21.7	-21.5	-21.5
27/05/2022	0:15:00	-20.3	-20.4	-20.2	-20.2	-21.2	-21.3	-21.5	-20.8
27/05/2022	0:30:00	-21.1	-21.6	-20.9	-21.0	-21.5	-20.4	-20.5	-20.6
27/05/2022	0:45:00	-21.1	-21.2	-20.7	-21.0	-21.2	-20.0	-20.2	-20.5
27/05/2022	1:00:00	-21.7	-21.2	-19.1	-19.9	-21.1	-20.5	-20.7	-21.1
27/05/2022	1:15:00	-21.7	-21.6	-20.1	-20.7	-21.1	-20.4	-20.7	-21.3
27/05/2022	1:30:00	-21.2	-21.1	-20.4	-21.0	-20.3	-21.6	-21.1	-20.7
27/05/2022	1:45:00	-21.6	-21.6	-20.2	-21.0	-20.0	-19.3	-19.4	-20.5
27/05/2022	2:00:00	-20.3	-20.3	-20.0	-21.0	-21.4	-19.5	-19.8	-20.4
27/05/2022	2:15:00	-20.0	-20.0	-20.3	-20.4	-21.4	-19.7	-19.2	-21.9

