



NIIRT – Centre For Calibration, Analysis & Testing

A Unit of National Institute for Industrial Research & Technology

(Registered with Ministry of MSME, Govt. of India and Dept. of Industries, Govt. of Haryana)



AN ISO/IEC 17025:2017 ACCREDITED LABORATORY BY NABL, A CONSTITUENT BOARD OF QCI, GOVT. OF INDIA

ULR No. CC2182237000763SF (THERMAL - TEMPERATURE & RH)

FORM-04.1SD, Version 1.2

CALIBRATION CERTIFICATE-CUM-REPORT

CCR No.: C4CAT/2080/ C0846 – TTH (1)	Date of Issue : 26-10-2023	Calibration Completion Date : 26-10-2023	Page no.
SCF No. : 2080/ C0846	Date of Receipt : 26-10-2023	Suggested next Calibration Date : 26-10-2024	1/1

1. Customer Details : Name : M/s Central Ayurveda Research Institute (CARI),
Address : Moti Bagh Road, Patiala (Punjab) , PIN - 147001

2. IUC Description : Name : Refrigerator
Make : Whirlpool Model : IF 515D / 2022 Serial No. : NS
Range : -20°C & 2 to 8°C Resolution : NA ID/ Location : NS
(As Per Customer's Protocol)
Accuracy / Specification : NS

3. IUC Condition and Status : Good / Not Adjusted

4. Standard Equipment used & their Traceability :

Sl.	Name	Identification	Traceable to	Certificate / Report No.	Validity
1.	Set of Temp. & RH Data Logger	TTH/DLG/114 to TTH/DLG/118 (HTC)	NABL accredited laboratory Certificate no. CC-2182	C4CAT/2079/C1182-TTH(11)	22-02-2024
2.	RTD Sensor With Data Logger	TTH/DLG/82, TTH/RTD/89 to TTH/RTD/104	NABL accredited laboratory Certificate no. CC-2182	C4CAT/2079/C1182-TTH(10)	21-02-2024

5. Methodology used : SCP-03.TTH

6. Location and Environmental Conditions : At-Site Temperature : 25±15 °C RH : 50±30 %

7. Calibration Results : Temperature

Sl. No.	IUC Reading (°C)	STD Reading (°C)									Uncertainty μ (°C)
		CH-01	CH-02	CH-03	CH-04	CH-05	CH-06	CH-07	CH-08	CH-09	
1.	-20	-20.7	-20.6	-20.3	-20.2	-20.7	-20.7	-20.6	-20.3	-20.2	± 1.8
2.	2 to 8	5.2	5.2	5.3	5.9	6.7	5.3	5.3	5.4	6.0	± 1.8
Stability :- ±1.0 °C											± 1.8
Uniformity :- ±1.5 °C											

8. Remarks :

- The IUC was calibrated against standard lab instruments the calibration of which is traceable up to national / international standards.
- The quoted uncertainties are expanded uncertainties at coverage factor $k = 2$, which corresponds to coverage probability of 95.45 % for a normal distribution.
- The calibration results are valid for the particular IUC submitted for calibration identified at sl. no. 2 at the time and under specified environmental conditions of measurement.
- Statement of conformity is mentioned in this report only when requested by the customer in SCF and Measurement Uncertainty is taken into account when the customer asks for.
- No certificate / report will be reproduced, except in full, without written permission of COO, NIIRT-C4CAT.
- For any communication or clarification regarding the services, please write to COO, NIIRT-C4CAT.
- The calibration certificate not bearing NABL symbol indicates that particular calibration(s) is/are not performed under accredited scope of NABL.
- Abbreviations: CCR - Calibration Certificate -cum- Report, SCF - Service Contract Form, IUC - Instrument Under Calibration, ID: Identification, NS - Not Specified.



Calibrated by
[Signature]
Patiala (Punjab)

Checked by
[Signature]
(A. Narayan)

Approved by
[Signature]
(Dr. S.K. Sinha)
Director
NIIRT - C4CAT

COMMITMENT FOR QUALITY WITH CONFORMITY