

**MEASURE TECHNO LAB**

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

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Form No. - MTL/22/2006

**CALIBRATION CERTIFICATE OF  
REFRIGERATOR**



CALIBRATION CERTIFICATE NO.: MTL / CNCI / R15 / 06 - 21

ULR - CC254521000009822F

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**1.0 Service Request No.:** MTL / 08A / 06 / 21 - 22

**1.1 Issued to:** M/s. Chittaranjan National Cancer Institute,  
Street No. 299, DJ Block (Newtown),  
Action Area - I, Newtown, West Bengal - 700156.

**1.2 Description & Identification of item to be Calibrated:**

a) Name:	Refrigerator	b) Code No.:	N.S.
c) Sl. No.:	INA200531883	d) Make:	Whirlpool
e) Model / Type:	N.S.	f) Range:	As Per Report
g) Sensor:	N.A.	h) Resolution:	As Per Report
i) End User:	Hematology	j) Accuracy:	N.S.
k) Calibration done at:	√ On Site / In House		

**1.3 Date of receipt of item :** 08-06-21

**1.4 Physical Condition of DUC :** OK

**1.5 Date of calibration :** 08-06-21

**1.6 Recommended date of next calibration :** 08-06-22

**1.7 Date of Issue :** 10-06-21

**1.8 Environmental Conditions During Calibration:** Temperature: 25.9 °C  
Humidity: 64.7 % 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 Switch Unit Cal. Certificate No. JRPM - CCTR - ET - 2020 - 0795 (JRPM, Chennai) (Cal. Date: 01/09/20, Due Date: 31/08/21)
- ii) RTD (PT - 100) Cal. Certificate No. TL / 020 / 891.2.1 (TEMSENS, Udaipur) (Cal. Date: 27/10/20, Due Date: 26/10/21)

**2.1 Result :**

**Thermal Calibration**

Sl. No.	Parameter/ Range	Chamber	Corrected Std. Value °C			Zone	Measurement Expanded Uncertainty ± °C
			Min.	Max.	Average		
1.	Temperature	Deep	-20.21	-20.09	-20.139	LS	0.83
			-20.13	-20.05	-20.077	RS	0.83

Sl. No.	Parameter/ Range	Chamber	Measured Value on DUC °C			Corrected Std. Value °C			Error °C	Zone	Measurement Expanded Uncertainty ± °C
			Min.	Max.	Average	Min.	Max.	Average			
2.	Temperature	Normal	10.8	10.8	10.80	10.23	10.46	10.357	0.443	UZ	1.06
						10.12	10.43	10.288	0.512	MZ	1.06
						10.15	10.35	10.266	0.534	LZ	1.06

- 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) Error = Average DUC Reading - Average Standard Reading.

DUC - Device Under Calibration    N.S. - Not Specified    N.A. - Not Applicable    Std. - Standard    Min. - Minimum  
Max. - Maximum    UZ - Upper Zone    LZ - Lower Zone    MZ - Middle Zone    LS - Left Side  
RS - Right Side

**Opinions and Interpretations**

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

Calibrated by:  
**Testing Engineer**  
I. Dey  
Measure Techno Lab  
Testing Engineer  
Kolkata

Checked / Approved by:



Quality & Technical Manager