



Hi-Tech Laboratory & Services

(A House of Measurement & Calibration)

Shivani Complex, C-4, Vidya Vihar, Opp. Barkatullah University,
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CALIBRATION CERTIFICATE

(Form No. HTLS/QF/7.8.1/01 (Amendment No. 00 Dated 1st January 2020))

ULR CC268923100013868F		Thermal Calibration		Certificate Issue Date: 22.12.2023	
Certificate No	Received On	Received Condition	Calibration On	Calibration Due	Page No.
HTLS/23/SPL/1134.01	20.12.2023	working	20.12.2023	19.12.2024 (As per customer requirements)	1 of 1

1) a. Calibrated for:

M/s Siddham Pathology Laboratory Diagnostic.,
Shop No.03 , New Taj Market ,
Opp. Hamidia Hospital , Royal Market
Bhopal - 462001 (M.P)

b. Name of Equipment /Instrument :

Refrigerator
with Digital Thermometer

c. Calibration Location: At Site

2) Description & Identification of Equipments / Instruments Under Calibrations (EUC*):

Manufactured By	Model	Serial No	Identification No.
Samsung	RR 26N 3732UB/HL	042J4 PBM700045	SPL/Refrigerator/01
Range	Least Count	Calibration Range	Location
-10 to 110°C	1 ° C	2 to 8 ° C	--

3) Standards/ Calibrator & Measuring Equipments Used :

Standards Used	Make / I.D.No.	Traceability Certificate No.	Calibrated By	Validity
Digital Thermometer with pt-100 Sensor	Lutron / HTLS/DTI/01	HTC/2023/11/31686	NABL : CC2478	03.01.2025
Temperature Data Logger With Sensor (16 CH)	Countron / HTLS/TDL/02	L23090401-04	NABL : CC3172	03.09.2024

The Standards used for calibration were calibrated by using reference standard traceable to National Standard.

4) Principle /Methodology of Calibration & Procedure :

Methodology adopted for Calibration is as per HTLS Procedure NO.HTLS/CP/TH-02.

5) Calibration Results:

Reading Time	Standard Digital Temperature Scanner Reading in °C			
	Channel No.1 FREEZER	Channel No.2 Upper Cabinet	Channel No.3 Middle Cabinet	Channel No.4 Lower Cabinet
12.10.15	-8.5	2.2	5.7	7.7
12.40.15	-8.4	3.5	5.7	7.6
13.10.15	-8.6	3.3	5.8	7.5

The values have been rounded off as per IS:2-1960(wherever applicable).

Expanded uncertainty reported is at approx 95% confidence level with K=2. ±2.1°C

Temperature scale :International Temperature Scale -1990.

Note: Calibration result can be referred through Data File Generated on Countron Calibration Chart attached with this report.

6) Environmental Condition's :

a) Temperature: 25±2°C

b) Humidity: 50±10%

7) Calibration Status & Remark :

- A Calibration Sticker has been affixed on EUC*.
- The Refrigerator has been calibrated and status report has been given.
- Refer to report before use.

*****END OF THE CERTIFICATE*****

Calibrated by:	
MAZID KHAN Calibration Engineer	

Approved by :	
SANJAY BAIS Quality Manager	





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CALIBRATION CERTIFICATE

(Form No. HTLS/QF/7.8.1/01 (Amendment No. 00 Dated 1st January 2020))

ULR : CC268923100013869F	Mechanical Calibration	Certificate Issue Date: 22.12.2023
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Certificate No	Received on	Received Condition	Calibration on	Calibration due	Page No.
HTLS/23/SPL/1134.02	20.12.2023	working	20.12.2023	19.12.2024 (As per customer requirements)	1 of 1

1) a. Calibrated for:

M/s Siddham Pathology Laboratory Diagnostic.,
Shop No.03 , New Taj Market ,
Opp. Hamidia Hospital , Royal Market
Bhopal- 462001 (M.P.)

b. Name of Equipment /Instrument :

Centrifuge Machine

c. Calibration Location: At Site

2) Description & Identification of Equipments / Instruments Under Calibrations (EUC*):

Manufactured by	Model	Serial No.	Type	Identification No.
REMI	R-303	ZHCN-11884	Knob Type	SPL/CM/001

Range	Least Count	Calibrated Range	Location
Max.4130 rpm	-	Full Rnage	-

3) Standards/ Calibrator & Measuring Equipments Used :

Standards Used	Make / Model	Sr.No.	Traceability Certificate No.	Validity
Digital Tachometer (Non Contact) with optical sensor	Lutom / DT-1236L / 1235100 / HTL/TM/02	L23100601-01	NABL : CC3172	05.10.2024

The Standards used for calibration were calibrated by using reference standard traceable to National Standard.

4) Principle /Methodology of Calibration & Procedure :

Methodology adopted for Calibration is as per HTLS Procedure NO.HTLS/CP/RPM/01-01, Which is compared with standard Tachometer.

5) Calibration Results:

Sl. No.	Unit	Dial Setting Knob Set at	Standard Value (Average)	Expended Uncertainty (±)
a.	rpm	1	1395 ± 10 rpm	± 6 rpm
b.	rpm	2	2495 ± 10 rpm	± 6 rpm
c.	rpm	3	3177 ± 10 rpm	± 6 rpm
d.	rpm	4	3545± 10 rpm	± 6 rpm
e.	rpm	5 Max.	4130± 10 rpm	± 6 rpm

The values have been rounded off as per IS:2-1960(whenever applicable).

Expended uncertainty reported is at approx 95% confidence level with K=2.

6) Environmental Condition's):

a) Temperature: 25±2°C

b) Humidity: 50±20%

7) Calibration Status & Remark :

- A Calibration Sticker has been affixed on EUC*.
- The Centrifuge Machine RPM Meter has been calibrated and status report has been given.
- Refer to report before use.

*****END OF THE CERTIFICATE*****

Calibrated by:	
MAZID KHAN Calibration Engineer	

Approved by :	
SANJAY BAIS Quality Manager	

