

सिपेट : इंस्टीट्यूट ऑफ प्लास्टिक्स टेक्नोलॉजी (आई.पी.टी.)
CIPET : INSTITUTE OF PLASTICS TECHNOLOGY (IPT)
(रसायन एवं पेट्रोरसायन विभाग)
(Department Of Chemicals & Petrochemicals)



CIPET सिपेट
probe • perform • practice • Plastics

(रसायन एवं उर्वरक मंत्रालय, भारत सरकार)
(Ministry Of Chemicals & Fertilizers, Govt. of India)

बी-२७, अमौसी इण्डस्ट्रियल एरिया, लखनऊ-२२६ ००८
B - 27, Amausi Industrial Area, Lucknow - 226 008

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website: www.cipet.gov.in



CC2745

अंशांकन प्रमाण पत्र / Calibration Certificate



ULR No. : CC27452000001167F

CERTIFICATE NO. :	194(01)/HG/0220	SHEET 1 OF 2
CALIBRATION OF :	Digital Thermo Hygrometer	
CALIBRATED ON :	27.02.2020	
1. Calibrated for :	M/S TB Hospital Lucknow	CALIBRATION DUE : 27.02.2021

2. Service Request No. & date:
3. Identification of Device Under Calibration (DUC)
a) Range : 0 - 50 °C & 10 to 99 % RH
b) Least Count : 0.1 °C & 1 % RH
c) Calibrated Range : 15 to 40 °C & 30 to 85 % RH
d) Make/Model : HTC-1
e) Serial No. : TB/TH-03
f) Location : ---

4. Standard & Major equipment(s) used for calibration :

Standard(s)	Range/Leastcount	Limit of Accuracy/ Uncertainty in meas.	Traceability/ Validity
PRT Sensor with Digital Readout	-40 to 600 °C 0.001 °C	± 0.340 °C	016(1)/TC/0519 12.05.2020
Digital Hygrometer with Sensor (Rotronics)	0 to 100 % RH 0.1 % RH	± 0.87 % RH	HAS/MTL/25400910/T004 16.09.2020

5. Environmental Condition(s) : Temperature : 23±2°C
6. Calibration Procedure: CCC/CP-T/05
Relative Humidity: 50 ±10%

7. Calibration Results :

SHEET ENCLOSED

8. Inference :
(a) The correction is positive except when indicated otherwise, it has to be algebraically added to the DUC value in order to get actual value.
(b) The calibration certificate shall not be reproduced except in full without written approval of laboratory.
(c) The above result related only to the instrument submitted in as received condition.
(d) The DUC meets its stated requirements.
(e) Label affixed on device

Checked by

Approved by
Authorized Signatory
VIVEK KUMAR
Sr. Technical Officer
(Quality Manager)

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अंशांकन प्रमाण पत्र / Calibration Certificate



CERTIFICATE NO. :	194(01)/HG/0220	SHEET 2 OF 2
CALIBRATION OF :	Digital Thermo Hygrometer	
CALIBRATED ON :	27.02.2020	CALIBRATION DUE: 27.02.2021

TEMPERATURE

Sl. No.	Scale	DUC Value	Std. Value (Avg)	Correction
a.	°C	15	15.2144	0.2144
b.	°C	20	19.9444	-0.0556
c.	°C	25	24.9664	-0.0336
d.	°C	30	30.0444	0.0444
e.	°C	35	34.9916	-0.0084
f.	°C	40	39.9436	-0.0564

**Expanded Uncertainty of measurement = ± 0.37 °C
with coverage factor $k=2$ at 95.45 % of confidence level.

HUMIDITY

Sl. No.	Scale	DUC Value	Std. Value (Avg)	Correction
a.	%	30	30.24	0.24
b.	%	40	40.34	0.34
c.	%	50	50.28	0.28
d.	%	70	70.42	0.42
e.	%	85	85.18	0.18

**Expanded Uncertainty of measurement = ± 1.82 %
with coverage factor $k=2$ at 95.45 % of confidence level.

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Authorized Signatory
VIVEK KUMAR
Sr. Technical Officer
(Quality Manager)