

# TMSCC

TESTING MACHINE SERVICE AND CALIBRATION CENTRE  
Precision is Our Destination.....

An ISO 9001 : 2015 Certified company  
Calibration of Various Instruments & Testing Machines...

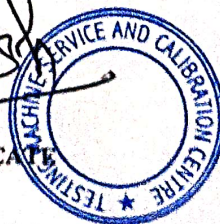


CC - 3125

Form No.: TMSCC/R/23							
CALIBRATION CERTIFICATE							
CALIBRATION CERTIFICATE NO.:		2023/12/1417			Page 1 of 1		
ISSUE DATE:		31-Dec-2023					
ULR No.:		CC312523000021193P					
1.0	ISSUED TO:	M/s. KHARIKAMATHANI RH-SA-ICTC VIII. & P.O.: Kharikamathan, P.S.: Nayagram, Jhargram - 721159.					
1.1	Service Request Form No.:	SRF/2023/12/29/02					
1.2	Service Request Date:	29-12-2023					
1.3	Location:	At Lab					
1.4	Description identification of item to be calibrated:						
	i	Name:	Digital Thermo Hygrometer	ii	Make:	R-TEK	
	iii	Model / Type No.:	HTC-1	iv	S/L No.:	-	
	v	I.D.No.:	KMRH-ICTC-DTHM-01	vi	Job Code No.:	2023/12/1417	
	vii	Range:	((-)50 to 70) °C & (10 to 99)% RH	viii	Resolution:	0.1°C & 1% RH	
	ix	Accuracy:	As Per DKD R5 - 1 & DKD-R5-7	x	End User:	-	
1.5	Full / Partial Calibration:	Partial Calibration					
1.6	Applicable specification of item to be calibrated: Accuracy / permissible limit:	Not Specified.					
1.7	Date of receipt of item:	29-Dec-2023	1.8	Date of calibration:	29-Dec-2023		
1.9	Calibration due on:	28-Dec-2024	2.0	Frequency of calibration once in:	12	Months	
2.1	Environmental condition during calibration:	Temperature:	25.2°C				
		Humidity:	52 % RH				
2.2	Basis of calibration:	SOP/10/02, SOP/10/04					
2.3	Traceability : Standards used for calibration are traceable to National Standards through NABL accredited Laboratory.						
	Name of Instrument	SL No. / Id no.	Certificate No.	Lab Certificate No.	Calibrated on	Due on	
	Temp. & Humidity Probe with Indicator	(SL No.: No - 2022C01005/20571921)	ATLT/090323/001	CC-2590	06-03-2023	06-03-2024	
	Digital Temperature Indicator with Sensor(RTD)	(Indicator SL No. - 18K588073) (Id No. - TMSCC/RTD/01)	TSC23-24/13010-4	CC - 2231	09-11-2023	08-11-2024	
CALIBRATION RESULTS							
SL No.	Ref. Bath set in °C	Observed Reading at DUC in °C (Avg. of five readings)	Observed Reading at Ref. Std. in °C (Avg. of five readings)	Error in °C	Uncertainty in ± °C	Acceptance Criteria	
1	-35.0	-35.0	-35.090	-0.090	0.18	Pass	
2	-5.0	-5.0	-5.013	-0.013	0.18	Pass	
3	10.0	10.0	10.026	0.026	0.18	Pass	
4	25.0	25.0	25.064	0.064	0.31	Pass	
5	50.0	50.0	50.129	0.129	0.31	Pass	
6	70.0	70.0	70.180	0.180	0.31	Pass	
Maximum Permissible Error:		± 0.3% of rdg					
SL No.	Ref. Source set in %	Observed Reading at DUC in % (Avg. of five readings)	Observed Reading at Ref. Std. in % (Avg. of five readings)	Error in %	Measurement Uncertainty in ± %	Acceptance Criteria	
1	25	25	25.8	0.8	1.3	Pass	
2	55	55	56.1	1.1	1.3	Pass	
3	90	90	92.2	2.2	1.3	Pass	
Maximum Permissible Error:		± 3% of rdg					
Measurement Uncertainty at 95% Confidence Level where Coverage Factor k = 2							
REMARKS : The DUC has been calibrated over its range. The readings observed are tabulated above. The reference standard is traceable to National standard.							
DUC: Device Under Calibration.							
Physical Status of the DUC : OK							

Calibrated By:  
  
R. Ghosh  
(Calibration Engineer)

Checked By:  
  
C. Ghosh  
(Technical Manager)



Approved By:  
  
P. K. Modak  
(Sr. Calibration Engineer)

END OF CERTIFICATE