

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.:				2023/12/1415	
ISSUE DATE :				31-Dec-2023	
ULR No.:				CC312523000021191F	
1.0 ISSUED TO :		M/s.: KHARIKAMATHANI RH-SA-ICTC Vill. & P.O.: Kharikamathani, P.S.: Nayagram, Jhargram - 721159.			
1.1 Service Request From No. :		SRF/2023/12/29/02			
1.2 Service Request Date :		29-Dec-2023			
1.3 Location :		At Lab			
1.4 Description identification of item to be calibrated :					
i Name :		RPM & Timer of Centrifuge		ii Make :	
iii Model / Type No.:		R-8C		iv S/L No.:	
v I.D.No.:		KMRH-ICTC-CM-01		vi Job Code No.:	
vii Capacity		(0-5250) RPM & 99 Min		viii Resolution :	
ix Accuracy :		As Per ASTM F-2046, NIST: 1960-12		x End User :	
1.5 Full / Partial Calibration :		Full 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		1.7 Date of calibration :	
1.9 Calibration due on :		28-Dec-2024		1.9 Frequency of calibration once in :	
2.1 Environmental condition during calibration :		Temperature : 25.2 °C		29-Dec-2023	
		Humidity : 56 % RH		12 Months	
2.2 Basis of calibration :		SOP/05/01, SOP/9/16			
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.
Digital Tachometer		(TMSCC/DT/01) (Sl. No.- 197-0062V)		NI2023/04/0019	CC-2294
Digital Time Totaliser		(TMSCC/TT/01) (Sl. No.- 19HT0559)		TC/23-24/1387-22	CC-2230
				Calibrated On	Due On
				07-04-2023	06-04-2024
				09-11-2023	08-11-2024
CALIBRATION RESULTS					
1. RPM Range: (0- 5250) rpm, L/c: 10 rpm					
Sl. No.	Denomination set in rpm	Observed Reading at Ref. Std. in rpm (Average of five readings)	Error in rpm	Uncertainty in (±) %	Acceptance Criteria
1	1160	1163.3	3.3	0.69	Pass
2	2170	2176.2	6.2	0.69	Pass
3	3160	3169.0	9.0	0.69	Pass
4	4570	4583.0	13.0	0.69	Pass
5	5220	5234.9	14.9	0.69	Pass
Maximum Permissible Error : (±) 1% of rdg					

Calibrated By :

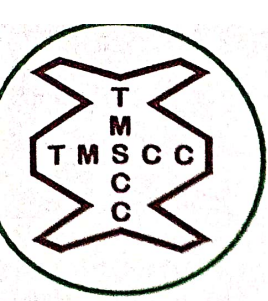
P. Dasmalakar
(Sr. Calibration Engineer)

Checked By :

C. Ghosh
(Technical Director)

Approved By :

S. Chowdhury
(Quality Manager)



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2. Time Maximum Range : 99 min L/c: 1 min

Sl. No.	Reading at Standard Totaliser in sec.	Reading at DUC in Min (Avg. of five readings)	Error in sec	Uncertainty in \pm sec	Acceptance Criteria
1	300.25	5	-0.25	2.33	Pass
2	1800.48	30	-0.48	2.33	Pass
3	3601.32	60	-1.32	2.33	Pass

Maximum Permissible Error : ± 5 sec (upto 1 min) / ± 6 sec (above 1 min)

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 :

J. Bhattacharjee
(Sr. Calibration Engineer)

Checked By :

C. Ghosh
(Technical Director)

Approved By :

P. K. Modak
(Sr. Calibration Engineer)

END OF CERTIFICATE

