



# 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.:		2024/10/2407		Page 1 of 1	
ISSUE DATE:		5-Nov-2024			
ULR No.:		CC312524000023802F			
1.0 ISSUED TO :		M/s.: Midnapore Medical College & Hospital (ICTC UNIT) 5, Vidyasagar Road, Midnapore, Paschim Medinipur, West Bengal-721101			
1.1 Service Request Form No.:		SRF/2024/10/31/01			
1.2 Service Request Date :		31-10-2024			
1.3 Location :		At Site			
1.4 Description identification of item to be calibrated :					
i Name :		Centrifuge		ii Make :	
iii Model / Type No.:		C-854/8		iv S/L No.:	
v I.D.No.:		MMCH/ICTC/ANC/CF/01		vi Job Code No.:	
vii Range :		3500 RPM		viii Resolution :	
ix Accuracy :		As per IS:4092-1-1992		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 :		31-Oct-2024		1.8 Date of calibration :	
1.9 Calibration due on :		30-Oct-2025		2.0 Frequency of calibration once in :	
2.1 Environmental condition during calibration :		Temperature : 25.4 °C		31-Oct-2024	
		Humidity : 54 % RH		12 Months	
2.2 Basis of calibration :		SOP/05/02			
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
Digital Tachometer		(Sl. No.- 197-0062V)	TSC/23-24/20427-4	CC-2231	14-03-2024
					Due On
					13-03-2025
CALIBRATION RESULTS					
Sl. No.	Denomination set in rpm (Knob Systems)	Observed Reading at Ref. Std. in rpm (Average of five readings)	Error in RPM	Uncertainty in ± %	Acceptance Criteria
1	1	695.4	-	0.66	Pass
2	2	1390.8		0.66	Pass
3	3	2093.5		0.66	Pass
4	4	2778.4		0.66	Pass
5	5	3485.5		0.66	Pass
Maximum Permissible Error : ± 1 % of rdg					
Measurement Uncertainty at 95% confidence level where coverage factor, k=2					
Remarks: The above DUC has been calibrated over its above range & the readings observed are tabulated above. The reference standard used is traceable to National Standard.					
DUC: Device Under Calibration					
Physical status of the Instrument : Ok					

Calibrated By :

P. Dasmalakar  
(Sr. Calibration Engineer)

Checked By :

C. Ghosh  
(Technical Director)

Approved By :

S. Chowdhury  
(Quality Manager)



END OF CERTIFICATE



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2. Time Maximum Range : 10 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	120.07	2	-0.07	0.69	Pass
2	300.17	5	-0.17	0.69	Pass
3	420.24	7	-0.24	0.69	Pass
4	600.35	10	-0.35	0.69	Pass

Maximum Permissible Error :  $\pm 5$  sec (upto 1 min)/  $\pm 6$  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

