



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.: 2023/08/1640 Page 1 of 2

ISSUE DATE : 13-Sep-2023

ULR No.: CC312523000013647F

1.0 ISSUED TO : M/s.: Barasat Government Medical College & Hospital
ICTC,
Barasat, Banamalipur, North 24 Pgs, Pin-700124,
West Bengal.



1.1 Service Request From No. : SRF/2023/08/30/03

1.2 Service Request Date : 30-Aug-2023

1.3 Location : At Lab

1.4 Description identification of item to be calibrated :

i Name :	RPM & Timer of Centrifuge	ii Make :	REMI
iii Model / Type No.:	RS-12 Plus	iv S/L No.:	ZEBS 05850
v I.D.No.:	--	vi Job Code No.:	2023/08/1640
vii Capacity	(50 - 450) RPM, 99 Min	viii Resolution :	1 RPM & 1 Min
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 : 30-Aug-2023 **1.7** Date of calibration : 30-Aug-2023

1.9 Calibration due on : 29-Aug-2024 **1.9** 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/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.	Calibrated On	Due On
Digital Tachometer	(TMSCC/DT/01) (Sl. No.- 197-0062V)	NI2023/04/0019	CC-2294	07-04-2023	06-04-2024
Digital Time Totaliser	(TMSCC/TT/01) (Sl. No.- 19HT0559)	TSC/22-23/12095-38	CC-2231	15-11-2022	15-11-2023

CALIBRATION RESULTS

1. RPM Range: (50-450) rpm, L/c : 1 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	100	99.7	-0.3	1.52	Pass
2	150	149.6	-0.4	1.52	Pass
3	250	249.3	-0.7	1.52	Pass
4	350	349.1	-0.9	1.52	Pass
5	450	448.8	-1.2	1.52	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	300.24	5	-0.24	2.33	Pass
2	1800.52	30	-0.52	2.33	Pass
3	3601.35	60	-1.35	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



10/13

