



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.: 2023/11/1213 Page 1 of 2

ISSUE DATE : 11-Nov-2023

ULR No.: CC312523000016935F

1.0 ISSUED TO : M/s.: Divine Touch Medl-Clinic
Colonel Chowmuhani, Near SBI TLA House,
Branch - Agartala, Tripura (West) - 799001.

1.1 Service Request From No. : SRF/2023/11/10/04

1.2 Service Request Date : 10-Nov-2023

1.3 Location : At Lab

1.4 Description identification of item to be calibrated :

i Name :	RPM & Timer of Centrifuge	ii Make :	Electra - BL
iii Model / Type No.:	--	iv S/L No.:	20180706
v I.D.No.:	--	vi Job Code No.:	2023/11/1213
vii Capacity	4000 RPM & 99 Min	viii Resolution :	10 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 : 10-Nov-2023 **1.7** Date of calibration : 10-Nov-2023

1.9 Calibration due on : 9-Nov-2024 **1.9** Frequency of calibration once in : 12 Months

2.1 Environmental condition during calibration :
Temperature : 25.2 °C
Humidity : 56 % 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: (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	800	797.7	-2.3	0.69	Pass
2	1600	1595.4	-4.6	0.69	Pass
3	2400	2393.0	-7.0	0.69	Pass
4	3200	3190.7	-9.3	0.69	Pass
5	4000	3988.4	-11.6	0.69	Pass

Maximum Permissible Error : (±) 1% of rdg

Calibrated By :

J. Bhattacharjee
(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	300.27	5	-0.27	2.33	Pass
2	1800.55	30	-0.55	2.33	Pass
3	3601.31	60	-1.31	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

