



# TMSCC

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

An NABL Accredited Calibration Laboratory  
A Constituent Board of Quality Council of India

An ISO 9001 : 2015 Certified company

Calibration of Various Instruments & Testing Machines...



CC - 3125

Form No.: TMSCC/R/23

## CALIBRATION CERTIFICATE

CALIBRATION CERTIFICATE NO.: TMSCC-1125-22-23 Page 1 of 2

ISSUE DATE : 26-May-2022

ULR No.: CC312522000002179F

**1.0** ISSUED TO : M/s.: ICTC, MCH  
88, College Street, Kolkata - 700 073

**1.1** Service Request Form No. : SRF/22-23/05/042

**1.2** Service Request Date : 02-05-2022

**1.3** Location : At Lab

**1.4** Description identification of item to be calibrated :

<b>i</b>	Name :	RPM & Timer of Centrifuge	<b>ii</b>	Make :	Remi
<b>iii</b>	Model / Type No.:	R-8C	<b>iv</b>	S/L No.:	--
<b>v</b>	I.D.No.:	ICTC/CF/02	<b>vi</b>	Job Code No.:	22-23/1125
<b>vii</b>	Range :	(0 to 5250) rpm / 99 Min	<b>viii</b>	Resolution :	10 rpm / 1 Min
<b>ix</b>	Accuracy :	As per ASTM F-2046, NIST: 1960-12	<b>x</b>	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 : 24-May-2022 **1.8** Date of calibration : 24-May-2022

**1.9** Calibration due on : 24-May-2023 **2.0** Frequency of calibration once in : 365 Days

**2.1** Environmental condition during calibration :  
Temperature : 25°C ± 5°C  
Humidity : (50 ± 20)% RH

**2.2** Basis of calibration : SOP/05/01 & SOP/9/16

1. The above Instrument has been calibrated over its range and the results are tabulated from page 2 of report.

2. The Calibration Certificates relates only to the above DUC & reported results are valid at the time of and under the stated conditions of measurements.

3. Errors if any, in this certificate shall be brought to notice within 45 days from the date of this certificate.

4. NABL-133 guidelines are adopted for use of NABL symbol.

5. This certificate shall not be reproduced, except in full, without the written permission of TMSCC

6. Corrections/erasing, invalidate the Calibration Certificate- exception to the 'Final Page or Part of this Report- provided for incorporation of additional data( To be filled by customer authorized signatory and not under calibration laboratory control).

7. Laboratory Standards are traceable to National Standards

8. In Result Sheets, 'Pass' indicates measured readings are within specification limit, 'Fail' Indicates measured readings are out of specification limit & '-' indicates no specification limit furnished. Acceptance criteria as per IS

**2.3** Traceability : Standards used for calibration are traceable to National Standards through NABL accredited Laboratory.

Name of the Instrument	Sl. No./ Id No.	Certificate No.	Lab Certificate No.	Calibrated On	Due On
Digital Tachometer	(TMSCC/DT/01) (Sl. No.- 197-0010V)	TMSCC-INTR-DT-08-21-22	CC - 3125	25-11-2021	24-11-2022
Digital Time Totaliser	(TMSCC/TT/01) (Sl. No.- 19HT0559)	TSC/20-21/7842-38	CC-2231	24-11-2020	24-11-2022



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## CALIBRATION RESULTS

Sl. No.	DUC Set in rpm	Observed Reading at Ref. Std. in rpm (Average of five readings)	Error in rpm	Uncertainty in (±) %	Acceptance Criteria
1	1200	1194.5	-5.5	0.39	Pass
2	2400	2389.1	-10.9	0.39	Pass
3	3600	3583.6	-16.4	0.39	Pass
4	4800	4778.1	-21.9	0.39	Pass
5	5200	5176.3	-23.7	0.39	Pass

Maximum Permissible Error : (±) 1% of rdg

Sl. No.	Reading at Standard Totaliser in sec.	Reading at DUC in min (Avg. of five readings)	Error in sec	Uncertainty in (±) sec	Acceptance Criteria
1	1200.00	20	0.00	1.59	Pass
2	2400.00	40	0.00	1.59	Pass
3	3600.00	60	0.00	1.59	Pass
4	4800.00	80	0.00	1.59	Pass
5	5940.00	99	0.00	1.59	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 :

P. K. Modak  
(Sr. Calibration Engineer)

Checked By :

C. Ghosh  
(Technical Director)

Approved By :

S. Chowdhury  
(Quality Manager)

END OF CERTIFICATE

