



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.: 2024/02/780 Page 1 of 2

ISSUE DATE : 16-Feb-2024

ULR No.: CC312524000002633P

1.0 ISSUED TO : M/s.: Anushka Diagnostics
119/148, Chandidas Road, Trisulapatty
P.O.: Bolpur, Birbhum - 731204



1.1 Service Request From No. : SRF/2024/02/12/03

1.2 Service Request Date : 12-Feb-2024

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.:	--	iv	S/L No.:	--
v	I.D.No.:	AD/CF/01	vi	Job Code No.:	2024/02/780
vii	Capacity	(0-4850) 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 : Partial Calibration

1.6 Applicable specification of item to be calibrated: Accuracy / permissible limit : Not Specified.

1.7 Date of receipt of item : 12-Feb-2024 1.7 Date of calibration : 12-Feb-2024

1.9 Calibration due on : 11-Feb-2025 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)	TC/23-24/1387-22	CC-2230	09-11-2023	08-11-2024

CALIBRATION RESULTS

1. RPM Range: (0 - 4000) 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	680	677.7	-2.3	0.69	Pass
2	1320	1315.4	-4.6	0.69	Pass
3	2490	2481.4	-8.6	0.69	Pass
4	3150	3139.1	-10.9	0.69	Pass
5	4580	4564.2	-15.8	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 : 60 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	300.36	5	-0.36	2.33	Pass
2	1800.57	30	-0.57	2.33	Pass
3	3601.23	60	-1.23	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 :

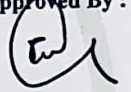

J. Bhattacharjee
(Sr. Calibration Engineer)

Checked By :


C. Ghosh
(Technical Director)



Approved By :


P. K. Modak
(Sr. Calibration Engineer)

END OF CERTIFICATE