



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

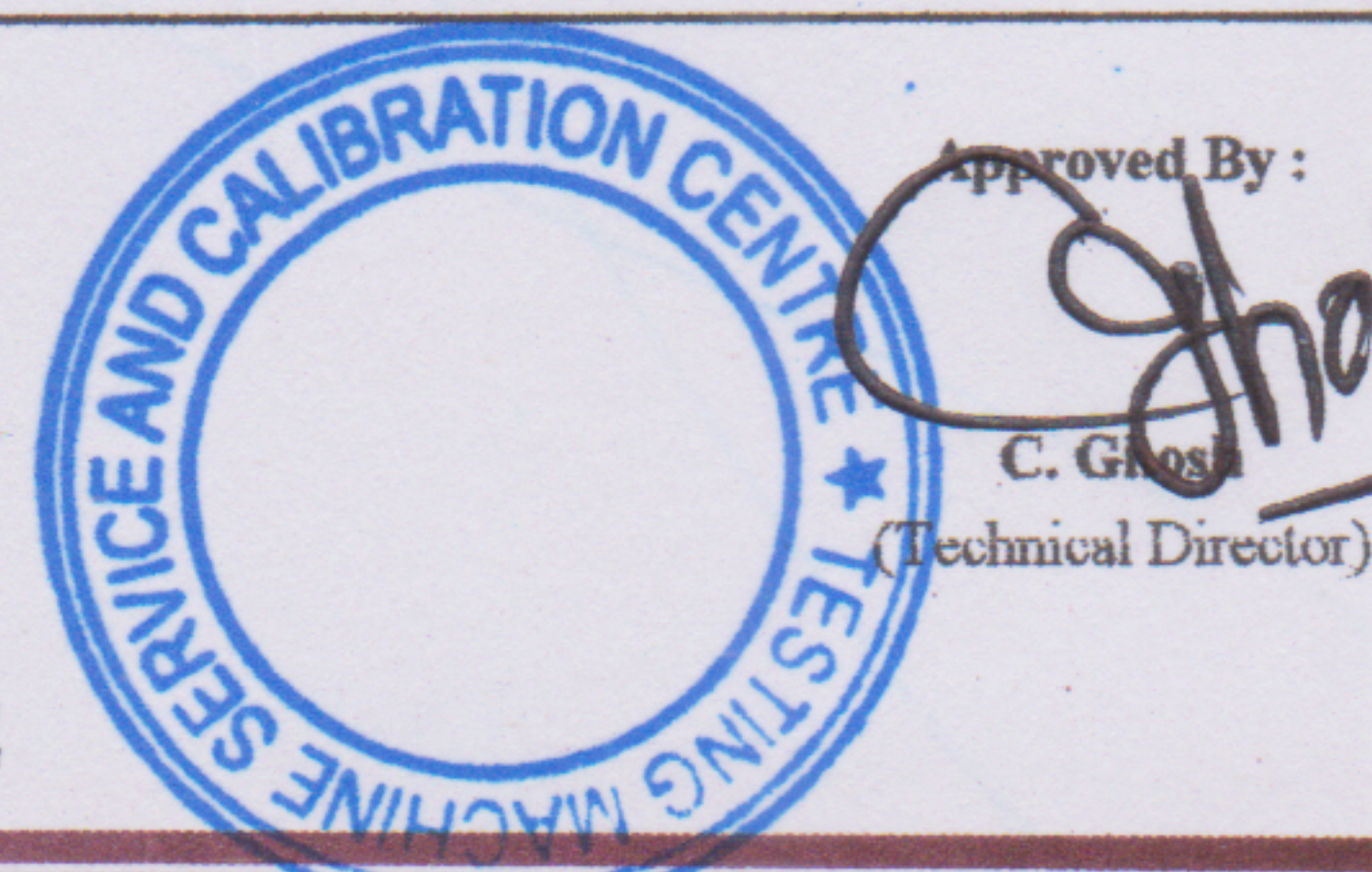
CALIBRATION CERTIFICATE NO.:		2023/06/490		Page 1 of 1		
ISSUE DATE :		25-Jun-2023				
ULR No.:		CC312523000007372F				
1.0	ISSUED TO :	MSVP College of Medicine Sagore Dutta Hospital 578 B.T Road , Kolkata -700058				
1.1	Service Request Form No. :	SRF/2023/06/09/01				
1.2	Service Request Date :	9-Jun-2023				
1.3	Location :	At Lab				
1.4	Description identification of item to be calibrated :					
i	Name :	Timer & RPM of Centrifuge	ii	Make :	REMI	
iii	Model / Type No.:	R-8C	iv	S/L No.:	--	
v	I.D.No.:	SDH/CF/01	vi	Job Code No.:	2023/06/490	
vii	Range :	5250 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 :	9-Jun-2023	1.8	Date of calibration :	9-Jun-2023	
1.9	Calibration due on :	8-Jun-2024	2.0	Frequency of calibration once in :	12 Months	
2.1	Environmental condition during calibration :	Temperature : 25.5°C Humidity : 50.3% RH				
2.2	Basis of calibration :	SOP/05/01 & SOP/09/16				
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: Maximum 5200 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	1000	996.9	-3.1	0.41	Pass	
2	1500	1495.4	-4.7	0.41	Pass	
3	3500	3489.2	-10.8	0.41	Pass	
4	4500	4486.1	-13.9	0.41	Pass	
5	5000	4984.5	-15.5	0.41	Pass	
Maximum Permissible Error : (±) 1% of rdg						
2. Time	Cal. Range : 99 min L/c: 01 min					
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	300.27	5	0.27	1.86	Pass	
2	1800.53	30	0.53	1.86	Pass	
3	3601.23	60	1.23	1.86	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 :

P. K. Modak
(Sr. Calibration Engineer)



Approved By :

C. Ghosh
(Technical Director)

END OF CERTIFICATE