


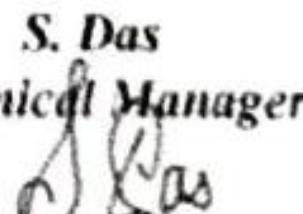



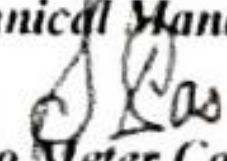


ISSUED BY ELECTRO METER CORPORATION

 CC - 2147		ELECTRO METER CORPORATION P- 5, C.I.T ROAD, KOLKATA - 700014	Form No: FM/22 CALIBRATION CERTIFICATE OF: Centrifuge			
CALIBRATION CERTIFICATE NO.: EMC2022-KOL-00006667		ULR NO.: CC214722000004330F				
1.0 ISSUED TO:		CPL DIAGNOSTIC PRIVATE LIMITED CZ-B, CANAL S RD, METROPOLITON CO-OPERATIVE- HOUSING SOCIETY LIMITED, KOLKATA - 700105				
1.1 Service Request / Order No.:		--				
Description identification of item to be calibrated:						
i Name: Centrifuge		ii Code No.: --				
iii SL No.: ZDFN-15804		iv Make: REMI				
v Model / Type No.: R-BC		vi Range: As Per Calibration Result				
vii Sensor: --		viii Resolution: 10 rpm				
ix Location: Hematology Lab		1 min				
1.3 Applicable specification of item to be calibrated: Accuracy / permissible limit: Not Specified						
1.4 Date of receipt of item: 11-Feb-2022		1.5 Date of calibration: 11-Feb-2022				
1.6 Recommended date for next calibration: 11-Feb-2023		1.7 Frequency of calibration: 12 months				
1.8(a) Environmental condition during calibration		Temperature: 23.3 °C Humidity: 58.2 % RH				
1.8(b) Recommended Environmental condition		Temperature: 25°C ± 10°C Humidity: 50% RH ± 20% RH				
1.9 Basis of calibration:		S.O.P Number: S.O.P/ET/27 & 29 Standard Followed: -- Description of Method: i) Using Timer / Time Calibrator / Stop Watch by Comparison method. ii) Using Digital Tachometer by Comparison Method.				
2.0 Traceability : Standards Used for Calibration are Traceable to National/International Standards through ISO/IEC: 17025 Accredited Laboratory.						
Sl. No.	Name of the standard Instrument used (Sl. No./Code Nos.)	Range	Resolution	Recommended date for next calibration	Traceable to / Certificate Nos.	
1	Digital Tachometer, Make: Metravi, Model No. NCTM 2000, Sl. No. 171103423, Code No. EMC/DT/829	1 rpm to 99999 rpm	0.1 rpm upto 9999.9 rpm & 1 rpm above 9999.9 rpm	13-03-2022	IDEMI (Mumbai) / CC/ECL/1632/20-21	
2	Digital Stop Watch, Make: Racer, Code No. EMC/DSW/487	As Per Calibration Result	0.01 s	04-01-2023	EMC (Kolkata) / EMC2022-KOL-00001891	
3	Digital Temperature & Humidity Meter, Make: Metravi, Model No. HT-3005, Sl. No. 141017143, Code No. EMC/DTHM/769	19°C to 25°C (for Temperature) & 15% RH to 80% RH (for Humidity)	0.1°C (for Temperature) & 0.1% RH (for Humidity)	18-03-2022	EMC (Kolkata) / EMC2021-KOL-00011400	
CALIBRATION RESULT						
Parameter / Range	Nominal Value on DUC (rpm)		Standard Value (rpm)	Error (rpm)	Expanded Uncertainty (±) (rpm)	k factor
Rotation cal upto 3986.2 rpm (As per standard value)	800		797.0	3.0	7.54	2.00
	1600		1594.9	5.1	7.78	2.00
	2400		2393.1	6.9	8.53	2.00
	3200		3190.1	9.9	9.35	2.00
	4000		3986.2	13.8	10.66	2.00
Parameter/Range	Nominal Value on DUC		Std Value (s)	Error (s)	Expanded Uncertainty (±) (s)	k factor
	(min)	Equivalent Value (s)				
Time Cal upto 20 min	4	240.00	240.45	-0.45	34.6922	2.00
	8	480.00	480.54	-0.54	34.6922	2.00
	12	720.00	720.63	-0.63	34.6922	2.00
	16	960.00	960.74	-0.74	34.6922	2.00
	20	1200.00	1200.92	-0.92	34.6922	2.00
Note: i) Average of 5 readings had been taken in DUC/STD. ii) The calibration certificate is issued by Electro Meter Corporation. This certificate refers only for the particular item submitted to calibrate. iii) The certificate if produced for any purpose commercial or otherwise, should be reproduced in full. Partial production of the certificate or an abstract thereof has to be got specifically approved from the technical and the quality manager of this lab. iv) The results in the calibration certificate are valid at the time of and under the stated conditions on measurement. v) The calibration result is only to be used for scientific & industrial purpose. This result can not be used for commercial purpose.						
Measurement uncertainty at approx 95 % of confidence level & at a coverage factor : As Per Calibration Result						
Remarks: Statement of conformity not mentioned.						
DUC- Device Under Calibration		FS.- Full Scale		Physical status of the DUC: OK		
Calibrated by: Rahul Shaw Date: 11-Feb-2022 Report Issue Date: 14-Feb-2022			Checked & Approved by: Saptarshi Das Date: 14-Feb-2022			
 TEST ENGINEER ELECTRO METER CORPORATION			 S. Das Technical Manager Electro Meter Corporation			
END OF CERTIFICATE						

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CALIBRATION RESULT																							
Parameter / Range	knob set at position	Standard Value (rpm)	Error	Expanded Uncertainty (±) (rpm)	k factor																		
Rotation cal upto 5585.2 Knob Set	1	934.9	--	4.63	2.00																		
(As per standard value)	2	1857.2	--	4.65	2.00																		
	3	2641.8	--	5.37	2.00																		
	4	3868.7	--	5.69	2.00																		
	5	5585.2	--	6.22	2.00																		
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