

 		ELECTRO METER CORPORATION P- 5, C.I.T ROAD, KOLKATA - 700014		Form No. EM/22 Issue No. 10 and Issue Date: 11.12.2022 CALIBRATION CERTIFICATE OF: CENTRIFUGE		
CALIBRATION CERTIFICATE No. EMC2023-KOL-00025916		IIR No. CC214723000023193E		Page: 1/1		
1.0 ISSUED TO		Shri Medican Imaging Centre, Damao Square, Padmavati Vihar, Near Max Showroom, Bhubaneswar, Odisha - 751021				
1.1 Service Request / Order No.						
1.2 Description/Identification of item to be calibrated						
i	Name	CENTRIFUGE		ii	Code No.	
iii	Sl. No.			iv	Make	
v	Model / Type No.			vi	Range	
vii	Sensor			viii	Resolution	
ix	Location	Central Lab		x	Cal. Performed	
1.3 Applicable specification of item to be calibrated - Accuracy / permissible limit:				Not Specified		
1.4 Date of receipt of item		27-May-2023		1.5 Date of calibration		
1.6 Recommended date for next calibration		27-May-2024		1.7 Report Issue Date		
1.8 Environmental condition during calibration		Temperature: 25.4°C		27-May-2023		
		Humidity: 52.7% RH				
1.9 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/DIMC/04 & S.O.P/ELEC/04		
2.0 Standard Equipment Used for Calibration are Traceable to National/International Standards through ISO/IEC: 17025:2017 Accredited Laboratory.						
Sl. No.	Name of the standard instrument used (Sl. No./Code Nos.)	Range	Resolution	Recommended date for next calibration	Certificate Nos.	
1	Digital Tachometer, Make: Metravi, Model No. NCTM-1000, Sl. No. 11109329, Code No. EMC/DT/597	5 rpm to 99999 rpm	0.1 rpm upto 999.9 rpm & 1 rpm above 999.9 rpm	01-10-2023	EMC2022-KOL-00044552	
2	Digital Stop Watch, Make: Racer, Code No. EMC/DSW/967	3 hr	0.01 s upto 29.99 s & 1 s above 29.99 s	08-06-2023	EMC2022-KOL-00035987	
3	Digital Temperature & Humidity Meter, Make: EMC, Model No. THSM-05, Sl. No. THG-04, Code No. EMC/DTHM/997	18°C to 25°C (for Temperature) & 40% RH to 75% RH (for Humidity)	0.1°C (for Temperature) & 0.1% RH (for Humidity)	30-05-2023	EMC2022-KOL-00070841	
Disciplines: Mechanical		Group: Acceleration and Speed				
CALIBRATION RESULT						
Parameter / Range	Nominal Value on DUC (rpm)		Standard Value (rpm)	Error (rpm)	Expanded Uncertainty (±) (% of rdg)	k factor
Rotation Cal upto 4030.8 rpm (As Per Std Value)	500		499.5	0.5	3.13	2.00
	1500		1501.6	-1.6	2.15	2.00
	2000		2002.7	-2.7	3.18	2.00
	3000		3002.8	-2.8	4.25	2.00
	4028		4030.8	-2.8	4.34	2.00
Parameter/Range	Nominal Value on DUC		Std Value (s)	Error (s)	Expanded Uncertainty (±) (s)	k factor
Time Cal upto 20 min	(min)	Equivalent Value (s)				
	3	180.00	180.11	-0.11	34.672	2.00
	5	300.00	300.16	-0.16	34.672	2.00
	10	600.00	600.18	-0.18	34.672	2.00
	15	900.00	900.20	-0.20	34.672	2.00
20	1200.00	1200.23	-0.23	34.672	2.00	
Note: i) Corrected Value = Std Value + Correction, ii) At 15 psi pressure, temperature is 120.829°C						
iii) The reading of calculate average pressure represents the mean of two different readings (1 up & 1 down).						
iv) The calibration certificate issued by Electro Meter Corporation refers only for the particular item submitted to calibrate.						
v) Entire certificate should be produced for all purposes. Partial production of an extract of the certificate needs approval from the technical or the quality manager of the lab.						
vi) The results in the calibration certificate are valid at the time and the stated conditions of measurement.						
vii) The calibration result is only to be used for scientific & industrial purpose and not for commercial purpose.						
Measurement uncertainty at approx 95 % of confidence level & at a coverage factor : As Per Calibration Result						
Remarks:		NA				
DUC- Device Under Calibration		FS- Full Scale		Physical status of the DUC: OK		
Calibrated by:			Approved by:			
Raja Dhall (Calibration Engineer)			Saptarshi Das (Technical Manager)			
END OF CERTIFICATE						