



MEASURE TECHNO LAB

2, B.T. ROAD (JAYANTI CINEMA COMPLEX), BARRACKPORE,
KOLKATA - 700120, W.B.



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CALIBRATION CERTIFICATE OF CENTRIFUGE

CC - 2545

CALIBRATION CERTIFICATE NO.: MTL / SQDPL / R02 / 03 - 24

ULR - CC254524000012759F

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1.0 Service Request No.: MTL / 18A / 03 / 23 - 24

1.1 Issued to: M/s. SpectroQ Diagnostics Pvt. Ltd.
Plot No. - 853 / 4786, 1st Floor,
Jharapada, Govinda Prasad, Cuttack Road,
Bhubaneswar, Khordha - 751006.

1.2 Description & Identification of item to be Calibrated:	a) Name:	Centrifuge	b) Code No.:	CF - 02
	c) Sl. No.:	ZHDN - 14859	d) Make:	Remi
	e) Model / Type:	R - 8C Plus	f) Range:	6000 rpm
	g) Sensor:	N.A.	h) Resolution:	10 rpm
	i) End User:	Lab	j) Accuracy:	N.S.
	k) Calibration done at:	√ On Site / In House		

1.3 Date of receipt of item : 18-03-24

1.4 Physical Condition of DUC : OK

1.5 Date of calibration : 18-03-24

1.6 Recommended date of next calibration : 18-03-25

1.7 Date of Issue : 21-03-24

1.8 Environmental Conditions During Calibration: Temperature: 25 °C ± 2 °C
Humidity: 55 % RH ± 10 % RH

1.9 Method of Calibration: SOP / RPM / CF / 01

2.0 Traceability :

- a) Standards used for calibration are traceable to National standards through NABL Accredited Laboratory.
- b) The following standards / Equipment have been used.
- i) Digital Tachometer Cal. Certificate No. JRPM - CF - 2023 - A&S - CSRF - 815 - C - 0016 (JRPM, Chennai) (Cal. Date: 08/07/23, Due Date: 07/07/24)

2.1 Result :

Mechanical Calibration: (Acceleration and Speed)

Sl. No.	Parameter/ Range	Nominal Value on DUC rpm	Std. Value Average of Five Readings rpm	Error rpm	Measurement Expanded Uncertainty ± rpm
1.	Rotation	2000	2001.6	-1.6	5.99
2.	6000 rpm	3000	3006.2	-6.2	
3.		4500	4508.6	-8.6	

- Remarks: i) This result has an expanded uncertainty with a coverage factor k=2 at approximately 95% confidence level.
ii) The calibration certificate issued for this instrument is to be used for scientific or industrial purposes only.
iii) Error = DUC Reading - Standard Reading.
iv) Calibrations are carried out without any adjustment or repair.

DUC - Device Under Calibration
Std. - Standard

N.S. - Not Specified
rpm - Rotation Per Minute

N.A. - Not Applicable

Opinions and Interpretations

Calibrated	√	Accepted / Valid for use
Limited Use		Rejected / Out of use

Calibration Engineer
Measure Techno Lab
D.K. Singh
Calibration Engineer

Checked / Approved by:
S. Pandey
Quality / Technical Manager