


MEASURE TECHNO LAB 2, B.T. ROAD (JAYANTI CINEMA COMPLEX) BARRACKPORE, KOLKATA - 700120, W.B. Phone : 033 - 2215 - 0032, 2215 - 9687, 8100875519, Mobile: 9831190974 , LAB:- 8100143376, E-mail: measuretechno@yahoo.co.in	Form No. - MTL/22/2006	 <small>NABL ACCREDITED LABORATORY Certificate No. CC - 2545</small>
	CALIBRATION CERTIFICATE OF ELECTRONIC BALANCE	
CALIBRATION CERTIFICATE NO.: MTL / CNCI / R11 / 06 - 21	ULR - CC254521000009818F	Page: 1 of 2

1.0 Service Request No.: MTL / 08A / 06 / 21 - 22

1.1 Issued to: M/s. Chittaranjan National Cancer Institute,
Street No. 299, DJ Block (Newtown),
Action Area - I, Newtown, West Bengal - 700156.

1.2 Description & Identification of item to be Calibrated:	a) Name: Electronic Balance	b) Code No.: N.S.
	c) Sl. No.: 6980	d) Make: Accurate
	e) Model / Type: N.S.	f) Range: 200 g
	g) Sensor: N.A.	h) Resolution: 0.001 g
	i) End User: Hematology	j) Accuracy: N.S.
	k) Calibration done at: <input checked="" type="checkbox"/> On Site / <input type="checkbox"/> In House	

1.3 Date of receipt of item : 08-06-21 **1.4 Physical Condition of DUC :** OK
1.5 Date of calibration : 08-06-21 **1.6 Recommended date of next calibration :** 08-06-22
1.7 Date of Issue : 10-06-21

1.8 Environmental Conditions During Calibration: **Temperature:** 25 °C ± 3 °C
Humidity: 60 % RH ± 10 % RH

1.9 Method of Calibration: SOP / MASS / 06 (As Per OIML R - 76 - 1)

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) 1 mg to 200 g Weight Box (E1) Cal. Certificate No. WI / May / 19 / 010 (WEIGH INDIA, New Delhi) (Cal. Date: 17/05/19, Due Date: 17/05/22)

Calibrated by:

Testing Engineer
S. Mahapatra
Measure Techno Lab
Testing Engineer
Kolkata
06/21

Checked / Approved by:


Quality & Technical Manager
S. Pandey

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2.1 Result :
 Mechanical Calibration
Linearity Test:

Sl. No.	Parameter/ Range	Balance Display g	Std. Mass Value g	Error g
1.		199.985	199.9999908	-0.0149908
2.		99.987	99.9999790	-0.012979
3.		49.990	50.0000064	-0.0100064
4.	Mass	19.993	19.9999984	-0.0069984
5.	200 g	9.995	9.999995	-0.004995
6.		4.998	4.9999912	-0.0019912
7.		1.999	1.9999987	-0.0009987
8.		1.000	1.0000028	-0.0000028

Repeatability Test :

For 200 g Std. Deviation = ± 0.0023 g
 For 1 g Std. Deviation = ± 0.0017 g

Eccentricity of the Balance at 50 g = ± 0.004 g

Sensitivity :

at 200 g = -0.0149908 g
 at 1 g = -0.0000028 g

Uncertainty at 200 g = ± 0.33 mg

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.

DUC - Device Under Calibration N.S. - Not Specified N.A. - Not Applicable Std. - Standard

Opinions and Interpretations			
Calibrated	√	Accepted / Valide for use	
Limited Use		Rejected / Out of use	

Calibrated by:

Testing Engineer
 S. Mahapatra
 Measure Techno Lab
 Testing Engineer
 Kolkata

Checked / Approved by:

Quality & Technical Manager
 S. Pandey