



METSAR TECHNOLOGIES PVT. LTD.

Calibration Laboratory



CC-2191

CALIBRATION CERTIFICATE

Customer Name & Address	Certificate No. : MTPL/23/1630/22
EMPLOYE'S STATE INSURANCE CORPORATION SUPER SPECIALITY HOSPITAL, Sanathnagar, Hyderabad – 500038.	Equipment Received On : 22/08/2023
	Equipment Condition : Satisfactory
	Date of Calibration : 22/08/2023
	Recommended Calibration Due : 21/08/2024
	Date of Issue : 23/08/2023
MECHANICAL DISCIPLINE (MASS)	ULR No. : CC219123000018608F

Details of Unit Under Calibration:

Instrument Specification : Electronic Weighing Balance	
Make : Saffron	Location : Pathology
Model : ---	Capacity : 220g
Sr. No. : ---	Readability : 0.00001/0.0001 g
Id. No. : ESICSSH/PATH/EQUIP-10	Unit Under Measurement : g

Standard used for calibration:

Instrument Name	Instrument Sr. No. / Id No.	Certificate No.	Calibration Due On	Traceability with NABL Lab No.
Set of Weights	METSAR-M-017	MTPL/23/0526/6	24/03/2024	CC-2191

Environmental Conditions

Temperature 25 ± 3 °C	Humidity 40 to 60 %RH
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Calibration Method: Balance Calibration Procedure (MTPL/CL/SOP/MV/01)

Reference Standard: OIML R 76: 2006

Calibrated By
CH. Sairam

Calibration Engineer

Certificate Approved By
N. Chanakya
Sr. Manager Calibration



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Results of Calibration:

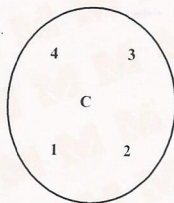
1. Linearity Test:

Sr. No.	Test Point in g	STD Reading in g	UUC Reading in g	Error (\pm) in g
01	0.2	0.1999992	0.20000	0.0000008
02	0.5	0.5000023	0.50001	0.0000077
03	1	1.0000019	1.00002	0.0000181
04	2	1.9999956	2.00003	0.0000344
05	5	4.999998	5.00004	0.000042
06	10	9.999997	10.00005	0.000053
07	20	20.000001	20.00006	0.000059
08	50	49.99999	50.00010	0.00011
09	100	99.99998	100.0004	0.00042
10	200	199.99997	200.0005	0.00053

2. Eccentricity Test with 1/3 of weighing capacity:

Sr. No.	Weight Placement	UUC Reading in g	Error (\pm) in g
01	Centre (C)	50.00002	0.00001
02	Front Left (1)	50.00002	
03	Front Right (2)	50.00001	
04	Back Right (3)	50.00001	
05	Back Left (4)	50.00002	
06	Centre (C)	50.00001	

Pan Type



Circle

Calibrated By
CH. Sairam

Calibration Engineer

MTPL/CL/FF/CC/ME/WB

METSAR TECHNOLOGIES PVT. LTD.

An ISO 9001-2015 Certified Company

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Certificate Approved By

N. Chanakya

Sr. Manager Calibration

Page 2 of 3

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3. Repeatability @ 50 % of weighing capacity


Sr. No.	Test Point in g	UUC Reading in g	Error (+) in g
01	100.0	100.0001	0.0001
02		100.0001	
03		100.0001	
04		100.0001	
05		100.0002	
06		100.0002	
07		100.0001	
08		100.0002	
09		100.0002	
10		100.0002	

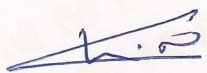
Repeatability @ 100 % of weighing capacity

Sr. No.	Test Point in g	UUC Reading in g	Error (+) in g
01	200.0	200.0000	0.0002
02		200.0001	
03		200.0001	
04		200.0002	
05		200.0002	
06		200.0002	
07		200.0002	
08		200.0001	
09		200.0002	
10		200.0002	

Remarks:

- Expanded uncertainty is ± 0.10 mg
- The Standard used for calibration traceable to National/International standards through unbroken chain of accredited laboratories.
- The results stated in this certificate relate only to the item calibrated.
- The reported expanded uncertainty is at coverage $k=2$ which correspond to a coverage probability of approximately 95.45% for a normal distribution.
- This calibration certificate is issued for the balance used in scientific applications and not in trade & commerce.
- Results reported are valid at the time of and under the stated conditions of measurements.
- The above instrument was calibrated at Site.


Calibrated By
CH. Sairam
Calibration Engineer


Certificate Approved By
N. Chanakya
Sr. Manager Calibration

**** End of Calibration Certificate ****

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Page 3 of 3

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