

(Expert in Healthcare Safety Solutions)

CALIBRATION CERTIFICATE OF HAEMATOLOGY ANALYSER

Issued to

: RNC Hospital, Hyderabad

Certificate No.

: PSE/CAL/RNC/23/08

Asset No.

: RNC/BME/HC/FA/01

Serial No

: 0153670

Model No

: MEK-6420P

Date

: 14.11.2023

CALIBRATION STANDARD USED

SNO	ASSET NO	TEST EQUIPMENT	MODEL NO	SERIAL NO	CAL DATE	CAL DUE DATE
1	PSE / NIBPA / 01	ELECTRICAL SAFETY ANALYSER	ESA - 612	2111026	15.05.2023	14.05.2024

TEST REPORT

ELECTRICAL SAFETY ANALYZER TEST RESULTS					
TEST	RESULTS	LIMITS			
Line(Mains)Voltage	233.5	0.0 to 300.0V ac rms			
Ground Wire Resistance	0.003Ω	0.000 to 2.000 Ω			
Equipment current	1.4A	0 to 20.0 A ac rms			
Insulation resistance	2 Μ Ω	+/-2% +0.2 M Ω			
Ground(Earth) Leakage	12 μA(AC+DC)	10 to 199 Ma			
Chassis(Enclosure)Leakage	0.6Ma	0.0 to 199.9 µA			
Lead to Ground and Lead to lead	0.4 μA(AC+DC)	0.0 to 1999 µA			
Lead isolation	0.4Ma	0.0 to 1999 μA			
Differential Leakage	0.1Ma	0.0 to 1999 µA			
Direct Equipment Leakage	0.3μΑ	0.0 to 1999 µA			
Direct applied part Leakage	0.7Ma	0.0 to 1999 µA			
Alternative applied part patient leakage	0.01Ω	0.0 to 1999 Ma			
Point to point leakage, Voltage and Resistance	0.2μA,0.2v&OLΩ	+/-2% +0.2V			

Electrical safety test passed as per IEC Stand 60601.1

Calibration Passed: Yes

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No

Calibration Done Date: 14.11.2023

Calibration Due Date: 13.11.2024

Calibrated By: Mr. D. Utpalendu, Engineer

Approved By:

Engineering Manager





(Expert in Healthcare Safety Solutions)

CALIBRATION CERTIFICATE OF CENTRIFUGE

Issued to

: RNC Hospital, Hyderabad

Certificate No.

: PSE/CAL/RNC/23/13

Asset No.

: RNC/BME/HM/CENTRIFUGE/01

Serial No

: NA

Model No

: NA

Date

: 14.11.2023

CALIBRATION STANDARD USED

SNO	ASSET NO	TEST EQUIPMENT	MODEL NO	SERIAL NO	CAL DATE	CAL DUE DATE
1	PSE/DT-01	Digital Tachometer	PSE/RPM/011	NA	10.10.2023	10.10.2024

	Γ	CALIBRATION RESULT		
Sr. No	Standard Reading RPM	Test Reading RPM	Error RPM(±)	Uncertainty RPM (±)
1	101.5	100	1.5	6.5
2	203.2	200	3.2	6.5
3	503.3	500	3.3	6.5
4	1002.4	1000	2.4	6.5
5	3004	3000	4	6.5
6	4004	4000	4	6.5

Note:

- 1. The above UUC/DUC was Calibrated at Lab.
- 2. Definition of UUC / DUC : Unit under Calibration / Device under Calibration.
- 3. The reported Expanded Uncertainty is calculated at 95.45 % with covarger factor k = 2.
- 4. Test reading given was the average of 5 Measurements.
- 5. The report shall not be reproduced in full/part without prior permission of PSE.
- 6. The report refers only to particular item(s) submitted for calibration.
- 7. The calibration results reported are valid at the time of and under the stated conditions of the measurements.
- 8. The Equipment was Calibrated without any adjustment.
- 9. The above Expanded Uncertainity includes Repeatability, Stability, Resolution & Uncertainty oF
- 10.PSE is not liable for any change in calibration data & performance specifications on account of malfunctioning of Standard / instrument / Equipments covered by this report due to damage caused to it after issuance of this report.
- 11.All Precautions have been taken for any error or omission while calibrating the instruments and issusing this certificate. However PSE shall not be liable for any loss or liability that may be arised to any party in this regards.

12. The Equipments user for Calibration were Calibrated and traceable to National / International Standards.

Calibration Passed: Yes

No

Calibration Done Date: 14.11.2023

Calibrated By: Mr. D. Utpalendu, Engineer

Calibration Due Date: 13.11.2024

Approved By:

Engineering Manage



(Expert in Healthcare Safety Solutions)

CALIBRATION CERTIFICATE OF REFRIGERATOR PROBE

Issued to

: RNC Hospital, Hyderabad

Certificate No.

: PSE/CAL/RNC/23/09

Asset No.

: RNC/BME/REF/PROBE/01

Serial No

: NA

Model No.

: NA

Date

: 14.11.2023

METHOD OF CALIBRATION

The calibration certificate was produced in accordance to the instrument was calibrated for the points specified in the relevant in house technical procedure PSE - CP - T01 - 2021 as defined for the equipment. The designed instrument has been calibrated at PSE calibration laboratory under the ambient conditions.

RESULT OF CALIBRATION

- 1. The measured values are average of 3 readings
- 2. The result stated in the certificate relate only to the item calibrated.
- 3. The report expanded uncertainty is calculated at 95.45% confidence levels with a coverage factor of k = 2

REMARKS

- The result of the calibration are given on the attached following pages
- No adjacement was done unless otherwise stated.
- Corrections / erasing, invalidate the calibration certificate
- The user should determine the suitability of the instrument for its intended use
- The report shall not be reproduced except in full, unless the management representative of PSE Calibration has given approval in writing and comply with the requirements specified in ISO/IEC 17025

CALIBRATION ESULTS

STANDARD READINGS (REF)	TEST READINGS (UUT)	ERROR	UNCERTAINTY (+/-)
°C	°C	°C	°C
4.37	4	- 0.37	0.98

Calibration Passed: Yes No.

Calibration Done Date: 14.11.2023

Calibration Due Date: 13.11.2024

Calibrated By: Mr. D. Utpalendu, Engineer

Approved By:

Engineering Manager



(Expert in Healthcare Safety Solutions)

CALIBRATION CERTIFICATE OF WEIGHING MACHINE

Issued to

: RNC Hospital, Hyderabad

Certificate No.

: PSE/CAL/RNC/23/10

Asset No.

: RNC/BME/SWM/WM/01

Serial No

: NA

Model No

: NA

Date

: 14.11.2023

CALIBRATION STANDARD USED

s NO	ASSET NO	TEST EQUIPMENT	MODEL NO	SERIAL NO	CAL DATE	DATE
1	PSE / SW / 03	STD WEIGHTS	NA	DS30	19.09.2023	18.09.2024

TEST REPORT

SET VALUE in gms	MEASURED VALUE in gms	ACCEPTABLE RANGE	RAMARKS
1	1.003	+/-5%	Satisfactory
5	4.038	+/-5%	Satisfactory
10	10.043	+/-5%	Satisfactory
50	51.021	+/-5%	Satisfactory
150	150.032	+/-5%	Satisfactory
	gms 1 5 10 50	gms gms 1 1.003 5 4.038 10 10.043 50 51.021	gms gms RANGE 1 1.003 +/-5% 5 4.038 +/-5% 10 10.043 +/-5% 50 51.021 +/-5%

Calibration Passed: Yes No

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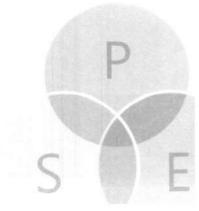
Calibration Done Date: 14.11.2023

Calibration Due Date: 13.11.2024

Calibrated By: Mr. D. Utpalendu, Engineer

Approved By:

Engineering Manager





(Expert in Healthcare Safety Solutions)

CALIBRATION CERTIFICATE OF HYGROMETER

Issued to

: RNC Hospital, Hyderabad

Certificate No.

: PSE/CAL/RNC/23/12

Asset No.

: RNC/BME/HYGROMETER/HM/01 Serial No

: NA

Model No

: NA

Date

: 14.11.2023

CALIBRATION STANDARD USED

S NO	ASSET NO	TEST EQUIPMENT	MODEL	SERIAL NO	CAL DATE	CAL DUE DATE
1	PSE/DTHM-01	Digital Temperature Humidity meter	HTC-01	4510	10.10.2023	10.10.2024

CALIBRATION RESULT

		CALIBRATIC	J. KLSULI	
Гетрега	ure Calibration			
0 3:	Standard Reading	Test Reading	Error (±)	Uncertainty
Sr. No	°C	°C.	°C.	(±) ∘ C
1	15.2	15.5	0.3	2.6
2	25.3	25.1	0.2	2.6
3	40.4	40.7	0.3	2.6
4	49.5	49.7	0.2	2.6
Iumidity	Calibration @ ambien	t Temperature		
Sr. No	Standard Reading	Test Reading	Error	Uncertainty
	%RH	%RH	%RH	(±) %RH
1	30.4	31	0.6	6.6
2	50.4	51	0.6	6.6
3	75.1	74	1.1	6.6
4	85.1	84	1.1	6.6
5	90.2	92	1.8	6.6

Note:

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- Test reading given was the average of 5 Measurements.
- 5. The report shall not be reproduced in full/part without prior permission of S.M Enterprises.
- The report refers only to particular item(s) submitted for calibration.
- The calibration results reported are valid at the time of and under the stated conditions of the measurements.
- 8. The Equipment was Calibrated without any adjustment.
- 9. The above Expanded Uncertainity includes Repeatability. Stability. Resolution & Uncertainty oF

Measurements.

Calibration Passed: Yes

No

Calibration Done Date: 14.11.2023

.

Calibrated By: Mr. D. Utpalendu, Engineer

Engineering Manager

Calibration Due Date: 13.11.2024

Approved By: