

(Expert in Healthcare Safety Solutions)

CALIBRATION CERTIFICATE OF BIOCHEMISTRY ANALYSER

Issued to

: Medilife Multi Speciality Hospitals, Mancherial

Certificate No.

: PSE/CAL/MMSH/23/03

Asset No.

: MMSH/BME/BIOC/BTS/01

Serial No

: ES1012201CN176

Model No

: TURBOSTAT PLUS

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 | ESA - 612 | 2111026 | 15,05,2023 | 14.05.2024 |
| | | ANALYSER | | | | |

TEST REPORT

| S.NO | TEST PARAMETERS | MEASURED/CALIBRATED | REMARKS |
|------|-----------------------|---------------------|---------|
| 1. | INPUT VOLTAGE | 230VAC | OK |
| 2. | POWER CONSUMPTION | 900 WATTS | ОК |
| 3. | INPUT FREQUENCY | 50Hz | ОК |
| 4. | OPERATING TEMPERATURE | 15-30 Deg. CELSIUS | ОК |

| 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 | | |
| | 0,7Ma | 0.0 to 1999 μA | | |
| Direct applied part Leakage Alternative applied part patient leakage | 0.01Ω | 0.0 to 1999 Ma | | |
| Point to point leakage, Voltage and Resistance | 0.2μΑ,0.2ν&ΟLΩ | +/-2% +0,2V | | |

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| Electrical safety test passed as per IEC | Stand | 60601.1 | |
|--|---------|-------------|-------------------------------------|
| Calibration Passed: Yes | No | | |
| | | | |
| Calibration Done Date: 14.11.2023 | | | Calibration Due Date: 13.11.2024 |
| Calibrated By: Mr. D. Utpalendu, Enginee | г | | Approved By: |
| | | | Demon |
| | | | English ring Manager |
| The above mentioned instrument has been cernational institute of standards & technology (NI standards, were measured against in-house pe | ST). DE | evices, for | Mulcu tuete Alegato Mais Compration |

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CALIBRATION CERTIFICATE OF BIOCHEMISTRY ANALYSER

Issued to

: Medilife Multi Speciality Hospitals, Mancherial

Certificate No.

: PSE/CAL/MMSH/23/02

Asset No.

: MMSH/BME/BIOC/THY/01

Serial No

: 21074

Model No

: TURBOCHEM PRIME

Date

: 14.11.2023

CALIBRATION STANDARD USED

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

TEST REPORT

| S.NO | TEST PARAMETERS | MEASURED/CALIBRATED | REMARKS |
|------|-----------------------|---------------------|---------|
| 1. | INPUT VOLTAGE | 230VAC | OK |
| 2. | POWER CONSUMPTION | 900 WATTS | ОК |
| 3. | INPUT FREQUENCY | 50Hz | OK |
| 4. | OPERATING TEMPERATURE | 15-30 Deg. CELSIUS | OK |

| 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 | | |

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Electrical safety test passed as per IEC Stand 60601.1

Calibration Passed: Yes

No

Calibration Done Date: 14.11.2023

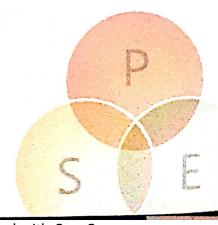
Calibration Due Date: 13.11.2024

Calibrated By: Mr. D. Utpalendu, Engineer

Approved By:

The above mentioned instrument has been certified using standards with a delines traceable to the national institute of standards & technology (NIST). Devices, for which there are no NIST calibration standards, were measured against in-house performance standard using accepted test procedures.

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CALIBRATION CERTIFICATE OF CENTRIFUGE

Issued to

: Medilife Multi Speciality Hospitals, Mancherial

Certificate No.

: PSE/CAL/MMSH/23/13

Asset No.

: MMSH/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 |

| | | CALIBRATIO | N 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 Measurements.
- 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 fiable for any loss or liability that may be arised to any party in this

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:

The above mentioned instrument has been certified using standards with accuracy guide national institute of standards & technology (NIST). Devices, for which there are no NIST

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CALIBRATION CERTIFICATE OF HYGROMETER

Issued to

: Medilife Multi Speciality Hospitals, Mancherial

Certificate No.

: PSE/CAL/MMSH/23/12

Asset No.

: MMSH/BME/HYGROMETER/HM/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 | CAL DUE DATE |
|------|-------------|---------------------------------------|-------------|--------------|-------------|-----------------|
| 1 | PSE/DTHM-01 | Digital Temperature Humidity meter | HTC-01 | 4510 | 10.10.2023 | 10.10.2024 |

| | | CALIBRAT | ION RESULT | |
|----------|----------------------|----------------|------------|-------------|
| Temperat | ure Calibration | | | |
| Sr. No | Standard Reading | Test Reading | Error (±) | Uncertainty |
| 3110 | oC: | °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 |
| Humidity | Calibration @ ambies | nt 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:

- 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 S.M Enterprises.
- 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

Measurements

Calibration Passed: Yes

No

Calibration Done Date: 14.11.2023

Calibrated By: Mr. D. Utpalendu, Engineer

Calibration Due Date: 13.11.2024

Approved By:

The above mentioned instrument has been certified using standards with accuracy guite national institute of standards & technology (NIST). Devices, for which there are no N standards, were measured against in-house performance standard using accepted tes

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CALIBRATION CERTIFICATE OF PIPETTE

Issued to

: Medilife Multi Speciality Hospitals, Mancherial

Certificate No.

: PSE/CAL/MMSH/23/04

Asset No.

: MMSH/BME/BIOC/PIP/01

Serial No.

: SF694975

Model No

: PIPETTIES EXPET (100-1000µl)

Date

: 14,11,2023

Description: Pipette

Range: 100 to 1000 µl

LC: 0.1 µl

Accuracy: As per manual

Details of Master Equipments:

S/No.: NA, ID No.:MCLES-M-ID-002, Valid upto: 11-Sept-2024, Traceability: PSE Cal. Lab.

Work Instruction: WI-M-03

Reference standards: NABL NEWS ISSUE NO. 40 OCT 2005, IS 878, IS 915, IS 1117, IS

1997, IS 8897, OIML R40, OIML R41, OIML R43, OIML R4.

Environmental details: Temperature: 23+-2°c,

Relative Humidity: 40-60 %RH

TEST REPORT

| Measured Value (UUC) μΙ | Actual Value µl | Deviation μΙ | Uncertainty (+-) MI |
|-------------------------------|--------------------|-----------------|------------------------|
| 100 | 100.02 | -0.02 | |
| 500 | 500.07 | -0.07 | 0.275 |
| 1000 | 1000.10 | -0.10 | |

Calibration Passed: Yes

Calibration Done Date: 14.11.2023

Calibration Due Date: 13.11.2024

Calibrated By: Mr. D. Utpalendu, Engineer

Approved By:

Engine

The above mentioned instrument has been certified using standards with accuracy guideling department. national institute of standards & technology (NIST). Devices, for which there are no NIST #201, Bombay House, Care Hospital lane, Banjara Hills, Hyd – 34, Telangana

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CALIBRATION CERTIFICATE OF PIPETTE

Issued to

: Medilife Multi Speciality Hospitals, Mancherial

Certificate No.

: PSE/CAL/MMSH/23/05

Asset No.

: MMSH/BME/BIOC/PIP/02

Serial No

: YE6F697377

Model No

: PIPETTIES (ERBA) Date

: 14.11.2023

Description: Pipette

Range: 100 to 1000 μl

LC: 0.1 µl

Accuracy: As per manual

Details of Master Equipments:

S/No.: NA, ID No.:MCLES-M-ID-002, Valid upto: 11-Sept-2024, Traceability: PSE Cal. Lab.

Work Instruction: WI-M-03

Reference standards: NABL NEWS ISSUE NO. 40 OCT 2005, IS 878, IS 915, IS 1117, IS

1997, IS 8897, OIML R40, OIML R41, OIML R43, OIML R4.

Environmental details: Temperature: 23+-2°c,

Relative Humidity: 40-60 %RH

TEST REPORT

| Measured Value (UUC) µl | Actual Value µl | Deviation μΙ | Uncertainty (+-) MI |
|-------------------------------|--------------------|-----------------|------------------------|
| 100 | 100.02 | -0.02 | |
| 150 | 150.09 | -0.09 | 0.275 |
| 200 | 200.04 | -0.04 | |

Calibration Passed:

Vac

No

Calibration Done Date: 14.11.2023

.

Calibrated By: Mr. D. Utpalendu, Engineer

Approved By:

Engineer

Calibration Due Date: 13.11.2024

The above mentioned instrument has been certified using standards with accuracy guideling national institute of standards & technology (NIST). Devices, for which there are no NIST castandards, were measured against in-house performance standard using accepted test produced.

standards, were measured against in-house performance standard using accepted test pro



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CALIBRATION CERTIFICATE OF PIPETTE

Issued to

: Medilife Multi Speciality Hospitals, Mancherial

Certificate No.

: PSE/CAL/MMSH/23/06

Asset No.

: MMSH/BME/BIOC/PIP/03

Serial No

: YE168AA0027654

Model No

: (10 - 100µl)

Date

: 14.11.2023

Description: Pipette

Range: 10 to 100 µl

LC: 0.1 µl

Accuracy: As per manual

Details of Master Equipments:

S/No.: NA, ID No.:MCLES-M-\(\partial\)D-002, Valid upto: 11-Sept-2024, Traceability: PSE Cal. Lab.

Work Instruction: WI-M-03

Reference standards: NABL NEWS ISSUE NO. 40 OCT 2005, IS 878, IS 915, IS 1117, IS

1997, IS 8897, OIML R40, OIML R41, OIML R43, OIML R4.

Environmental details: Temperature: 23+-2°c,

Relative Humidity: 40-60 %RH

TEST REPORT

| Measured Value (UUC) µl | Actual Value μΙ | Deviation μΙ | Uncertainty (+-) MI |
|-------------------------------|--------------------|-----------------|------------------------|
| 10 | 10.05 | -0.05 | |
| 50 | 50.06 | -0.06 | 0.275 |
| 100 | 100.08 | -0.08 | |

Calibration Passed:

Calibrated By: Mr. D. Utpalendu, Engineer

Calibration Done Date: 14.11.2023

Calibration Due Date: 13.11.2024

Approved By:

The above mentioned instrument has been certified using standards with accuracy guidel national institute of standards & technology (NIST). Devices, for which there are no NIST standards, were measured against in-house performance standard using accepted test pro #201, Bombay House, Care Hospital lane, Banjara Hills, Hyd – 34, Telangana