



FACTUAL CALIBRATION SERVICES (OPC) PVT. LTD.

A House of Complete Solution



Contact Details:- +91-9205523341, +91-9868784023
Office No. 130, 1st Floor Cloud-9 Sec 1 Vaishali Ghaziabad Uttar Pradesh 201010

Calibration Certificate

Format No. : FCS/QF/46

ISSUE DATE 01/07/2023

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SERVICE REQUEST & CALIBRATION REPORT DETAILS (As per agreed with the Customer)			
Calibration Request Dated	25.10.2023	Date of Calibration :	26.10.2023
Calibration Request / Job No.	114 / 114-014	Next Date of Calibration	26.10.2024
Certificate No.	FCS/23/114-014	Certificate Issue Date	28.10.2023

CUSTOMER ADDRESS	ENVIRONMENTAL & INSTRUMENT CONDITIONS
M/s Mehla Clinical Laboratory Inside Virk hospital PVT. LTD. 363-364 Randhir Lane, Karnal (HARAYANA)-132001, India	Temperature (25 ± 15) °C Relative Humidity (50 ± 20) %RH Zerro Error Null Discipline Thermal (Medical) Instrument Condition In Working (Good)

CALIBRATION CERTIFICATE OF	DESCRIPTION OF (EQP) UNIT UNDER CALIBRATION
Refrigerator with Digital Temperature Indicator	Make / Model NA Range / Size 0 to 10°C Least Count 0.1°C Serial No NA Asset Code / I.D No. VH/BME/REF/01/LAB Location Pathology lab Accuracy/Acceptance Not Specified
Procedure Followed FCS/MD/101	
Reference Standard ITS 90	
Calibration Performed At At Site	

DETAILS OF REFERENCE STANDARDS AND MAJOR EQUIPMENTS USED FOR CALIBRATION					
Sr. No	Instrument Details	Asst Code	Certificate No.	Calibrated By	Valid upto
1	RTD Sensor with Indicator	FCS/MD/RTD-01	NKERC/23/1001-001	NKERC	01.08.2024
2	Electric Safety Analyzer	FCS/MD/ESA-01	AT23000007411	ASIAN	02.07.2024

The Standards used for calibration are traceable to National Standards.

CALIBRATION RESULT

PARAMETER	SET VALUE (°C)	DUC VALUE (°C)	STANDARD VALUE (°C)	ERROR (°C)	Uncertainty ± (%)
Temperature	0.0	0.0	0.000	0.000	0.95
	2.0	2.0	2.009	-0.009	0.95
	4.0	4.0	4.012	-0.012	0.95
	6.0	6.1	6.008	0.092	0.95
	8.0	8.1	8.012	0.088	0.95

1. Electrical Safety (Visual Test)			2. Electrical Safety Test			
S.No	TESTS	REMARKS	S.No	PARAMETERS	MEASURE	REMARKS
1	Power Chords, Cable Check	OK	1	Voltage Between Line & Neutral (V in)	236.5V	OK
2	Main Socket Check	OK	2	Voltage Between Line & Earth (V ie)	243.3V	OK
3	Equipment Type (B/BF/CF)	B	3	Voltage Between Neutral & Earth (V en)	2.2V	OK
4	Equipment Class (I/II/III)	I	4	Patient Leakage Current (P L)	0.7µA	OK

B-BODY TYPE, BF-BODY FLOAT TYPE, CF-CARDIAC FLOAT TYPE, I-PROPERLY EARTHED, II-DOUBLE INSULATED, III-WITH EXTRA SAFETY LOW VOLTAGE.

*****The End of Report*****

CALIBRATED BY	APPROVED BY
 (Calibration Engineer)	 (Authorized Signatory)

- Note :-
1. UUC =* Unit Under Calibration*
 2. Uncertainty of measurement at approximately 95% Confidence Level with coverage factor k=2, ±20 µm
 3. The Calibration Result reported are valid at the time of Calibration and under the stated conditions of Measurement.
 4. The Calibration report is not valid without sign of CEO/OM/TM (Factual Calibration Services (OPC) PVT. LTD.).
 5. This Calibration Certificate only to the particular Equipment (Instrument) submitted for Calibration.
 6. The Calibration Certificate Should not be regenerated without the permission of Higher Authority of Factual Calibration Services (OPC) PVT. LTD..
 7. Calibration Certificate issue for weight & Measure parameters i.e. Mass, Balance Volumetric equipment, for scientific Purpose only.

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SERVICE REQUEST & CALIBRATION REPORT DETAILS (As per agreed with the Customer)			
Calibration Request Dated	25.10.2023	Date of Calibration :	26.10.2023
Calibration Request / Job No.	114 / 114-005	Next Date of Calibration	26.10.2024
Certificate No.	FCS/23/114-005	Certificate Issue Date	28.10.2023

CUSTOMER ADDRESS	ENVIRONMENTAL & INSTRUMENT CONDITIONS
M/s Mehla Clinical Laboratory Inside Virk hospital PVT. LTD. 363-364 Randhir Lane, Karnal (HARAYANA)-132001, India	Temperature (25 ± 15) °C Relative Humidity (50 ± 20) %RH Zero Error Nil Discipline Mechanical Lab Instrument Condition In Working (Good)

CALIBRATION CERTIFICATE OF		DESCRIPTION OF(EQP) UNIT UNDER CALIBRATION	
Micropipette		Make / Model	NEMH
Procedure Followed		Range / Size	100 to 1000 µl
Reference Standard		Least Count	10 µl
Calibration Performed At		Serial No.	NA
FCS/MD/120		Asset Code / LD No.	VH/BME/MP/05/LAB
SO 8655-6		Location	Pathology Lab
In Lab		Accuracy/Acceptance	Not Specified

DETAILS OF REFERENCE STANDARDS AND MAJOR EQUIPMENTS USED FOR CALIBRATION				
Sr. No	Instrument Details	Asst Code	Certificate No.	Valid upto
1	Digital Weighing Machine	FCS/MD/PWB-01	NKERC/23/1001-012	01.08.2024

The Standards used for calibration are traceable to National Standards.

CALIBRATION RESULT

PARAMETER	DUC VALUE (µl)	STANDARD VALUE (µl)	ERROR (µl)	Uncertainty ± (µl)
Volume	200	200.02	-0.02	4.0
	400	400.04	-0.04	4.0
	600	600.07	-0.07	4.0
	800	800.08	-0.08	4.0
	1000	1000.05	-0.05	4.0

*****The End of Report*****

CALIBRATED BY (Calibration Engineer)	APPROVED BY (Authorized Signatory)
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Note :-

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3. The Calibration Result reported are valid at the time of Calibration under stated conditions of Measurement.
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SERVICE REQUEST & CALIBRATION REPORT DETAILS (As per agreed with the Customer)			
Calibration Request Dated	25.10.2023	Date of Calibration :	26.10.2023
Calibration Request / Job No.	114 / 114-004	Next Date of Calibration	26.10.2024
Certificate No.	FCS/23/114-004	Certificate Issue Date	28.10..2023

CUSTOMER ADDRESS	ENVIRONMENTAL & INSTRUMENT CONDITIONS
M/s Mehla Clinical Laboratory Inside Virk hospital PVT. LTD. 363-364 Randhir Lane, Karnal (HARAYANA)-132001, India	Temperature (25 ± 15) °C Relative Humidity (50 ± 20) %RH Zero Error Null Discipline Thermal (Medical) Instrument Condition In Working (Good)

CALIBRATION CERTIFICATE OF	DESCRIPTION OF(EQP) UNIT UNDER CALIBRATION
SEROLOGICAL WATER BATH	Make / Model NA Range / Size 0 to 110°C Least Count 0.1°C Serial No NA Asset Code / I.D No. VII/BME/SWB/01/LAB Location Pathology Lab Accuracy/Acceptance Not Specified
Procedure Followed FCS/MD/101	
Reference Standard ITS 90	
Calibration Performed At At Site	

DETAILS OF REFERENCE STANDARDS AND MAJOR EQUIPMENTS USED FOR CALIBRATION

Sr. No	Instrument Details	Asst Code	Certificate No.	Calibrated By	Valid upto
1	RTD Sensor with Indicator	FCS/MD/RTD-01	NKERC/23/1001-001	NKERC	01.08.2024
2	Electric Safety Analyzer	FCS/MD/ESA-01	AT23000007411	ASIAN	02.07.2024

The Standards used for calibration are traceable to National Standards.

CALIBRATION RESULT

PARAMETER	SET VALUE (°C)	DUC VALUE (°C)	STANDARD VALUE (°C)	ERROR (°C)	Uncertainty ± (%)
Temperature	0.0	0.0	0.000	0.000	0.95
	30.0	30.0	30.063	-0.063	0.95
	50.0	50.1	50.098	0.002	0.95
	70.0	70.1	70.054	0.046	0.95
	110.0	110.2	110.123	0.077	0.95

1. Electrical Safety (Visual Test)			2. Electrical Safety Test			
S.No	TESTS	REMARKS	S.No	PARAMETERS	MEASURE	REMARKS
1	Power Chords, Cable Check	OK	1	Voltage Between Line & Neutral (V in)	236.5V	OK
2	Main Socket Check	OK	2	Voltage Between Line & Earth (V ie)	243.3V	OK
3	Equipment Type (B/BF/CF)	B	3	Voltage Between Neutral & Earth (V en)	2.2V	OK
4	Equipment Class (I/II/III)	I	4	Patient Leakage Current (P L)	0.7µA	OK

B BODY TYPE, BF BODY FLOAT TYPE, CF CARDIAC FLOAT TYPE, I PROPERLY EARTHIED, II DOUBLE INSULATED, III-WITH EXTRA SAFETY LOW VOLTAGE.

*****The End of Report*****

CALIBRATED BY (Calibration Engineer)	APPROVED BY (Authorized Signatory)
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SERVICE REQUEST & CALIBRATION REPORT DETAILS (As per agreed with the Customer)

Calibration Request Dated	25.10.2023	Date of Calibration :	26.10.2023
Calibration Request / Job No.	114 / 114-003	Next Date of Calibration	26.10.2024
Certificate No.	FCS/23/114-003	Certificate Issue Date	28.10.2023

CUSTOMER ADDRESS	ENVIRONMENTAL & INSTRUMENT CONDITIONS
M/s Mehla Clinical Laboratory Inside Virk hospital PVT. LTD. 363-364 Randhir Lane, Karnal (HARAYANA)-132001, India	Temperature (25 ± 15) °C Relative Humidity (50 ± 20) %RH Zerro Error Nil Discipline Medical Instrument Condition In Working (Good)

CALIBRATION CERTIFICATE OF	DESCRIPTION OF(EQP) UNIT UNDER CALIBRATION
MICROSCOPE	Make / Model LABOMED Range / Size As Per instrument Least Count As Per Range Serail No. NA Asset Code / I.D No. VH/BME/MIC/01/LAB Location Pathology lab Accuracy/Acceptance Not Specified
Procedure Followed FCS/MD/119	
Reference Standard ISO 10936-1	
Calibration Performed At At Site	

DETAILS OF REFERENCE STANDARDS AND MAJOR EQUIPMENTS USED FOR CALIBRATION

Sr. No	Instrument Details	Asst Code	Certificate No.	Calibrated By	Valid upto
1	Glass Scale	FCS/MD/GS-01	AT23000007412	ASIAN	02.07.2024
2	Electrical Safety Analyzer	FCS/MD/ESA-01	AT23000007411	ASIAN	02.07.2024

The Standards used for calibration are traceable to National Standards.

CALIBRATION RESULT

Magnification in (mm)

S. No.	X-Axis		Error	Y-Axis		Error
	Standard Value	DUC Value		Standard Value	DUC Value	
1	0.000	0.000	0.000	100.000	100.001	-0.001
2	5.000	4.999	0.001	110.000	110.002	-0.002
3	10.000	9.996	0.004	120.000	120.003	-0.003
4	50.000	49.994	0.006	130.000	130.005	-0.005
5	80.000	79.991	0.009	140.000	140.009	-0.009

1. Electrical Safety (Visual Test)			2. Electrical Safety Test			
S.No	TESTS	REMARKS	S.No	PARAMETERS	MEASURE	REMARKS
1	Power Chords, Cable Check	OK	1	Voltage Between Line & Neutral (V in)	236.5V	OK
2	Main Socket Check	OK	2	Voltage Between Line & Earth (V ie)	243.3V	OK
3	Equipment Type (B/BF/CF)	B	3	Voltage Between Neutral & Earth (V en)	2.2V	OK
4	Equipment Class (I/II/III)	I	4	Patient Leakage Current (P L)	0.7µA	OK

B-BODY TYPE, BF-BODY FLOAT TYPE, CF-CARDIAC FLOAT TYPE, I-PROPERLY EARTHIED, II-DOUBLE INSULATED, III-WITH EXTRA SAFETY LOW VOLTAGE.

*****The End of Report*****

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