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E-mail: info@uniquecalibration.co.in, website: www.uniquecalibration.co.in

CC-3102

CALIBRATION CERTIFICATE

ULR NO :	**CC310224000001061F**	**CERTIFICATE No. :**	**UCSL/04-24/091_01**
Customer Name & Address:		Instrument receipt Date	16.04.2024
M/s. MICRO HEALTH LABORATORIES MP TOWER, NEXT TO LAVANYA PLAZA, NEAR THALUK HOSPITAL, THAMARASSERY, KERALA - 673 573		SRF No.	091
		Calibration Date	17.04.2024
		Next calibration date (As per customer request)	17.04.2025
		Certificate Issue date	23.04.2024

Identification on DUC (Device Under Calibration)

Instrument Name	MICROPIPETTE	Make	DRAGON LAB
Range	100 - 1000 µl	Model	---
Least count	5 µl	Instrument Condition	OK
Serial No.	YEA17AD0058373	Calibration Performed at	Mass & Volume Lab
ID No.	MHL/TSY/13	Location	---

Environmental Condition	Avg.Temperature (°C)	Avg.RH (%)	Avg.Atmospheric Pressure (hpa)
	23.5	55	1010

Equipment & Master Used For calibration

Instrument Used	Calibrated By	ID No:	Certificate No	Valid Upto	Sr No.	Accreditation No
Weighing Balance	UCSL	UCSL-WB-01	UCSL/10-23/311_01	14.10.2024	0037905909	CC-3102

Method Used : Gravimetric method	**Discipline & Category** : Mechanical - Volume
Calibration Reference Standard	**Calibration Procedure**
ISO-8655-6 & ISO /TR 20461	UCSL/SOP/01-MPT

CALIBRATION RESULTS @27°C:-

1. Lower Volume 100 µl

1	2	3	4	5	6	7	8	9	10	Mean Volume V
101.15	100.17	100.58	100.63	99.96	101.49	101.57	101.63	99.67	100.20	100.71

		Error Limits			Error Limits
Systamatic Error es µl :	-0.71	(± 8 µl)	Random Error in sr µl :	0.72	(± 3.0 µl)
Systamatic Error es in % :	-0.71	(± 8.0%)	Random Error in Cv in % :	0.71	(±3 %)

2. Middle Volume 500 µl

1	2	3	4	5	6	7	8	9	10	Mean Volume V
504.05	502.84	502.23	502.69	502.78	504.42	502.71	502.70	504.91	504.59	503.39

		Error Limits			Error Limits
Systamatic Error es µl :	-3.39	(± 8µl)	Random Error in sr µl :	0.98	(± 3.0 µl)
Systamatic Error es in % :	-0.68	(±1.6%)	Random Error in Cv in % :	0.20	(± 0.6 %)

3. Nominal Volume 1000 µl

1	2	3	4	5	6	7	8	9	10	Mean Volume V
1003.58	1004.66	1004.60	1005.18	1003.88	1003.30	1004.81	1004.87	1003.51	1005.05	1004.34

		Error Limits			Error Limits
Systamatic Error es µl :	-4.34	(± 8.0 µl)	Random Error in sr µl :	0.70	(± 3.0 µl)
Systamatic Error es in % :	-0.43	(± 0.80 %)	Random Error in Cv in % :	0.07	(± 0.30 %)

Decision Rule is Applied or Not	Yes	No
		✓

Conclusion /Remarks:

*The Reported Uncertainity **from 100 to 1000 µl is 0.60 µl** at, Coverage Factor K=2,which corresponds to a confidence level at approximately 95 %*

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2. **This report is valid for Scientific & Industrial Purpose Only**
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5. All the measurements are traceable to SI units through unbroken chain of calibration from the competent laboratories as per ISO/IEC/17025 standard requirements.
6. This Calibration Certificate relates only to the above DUC
7. DUC : Device under calibration

Calibrated by **Checked By**

UNIQUE CALIBRATION SOLUTIONS LLP UCSL

Issued / Approved By
(APPU K MANI)
Technical Director

--- End of Certificate ---

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CC-3102

CALIBRATION CERTIFICATE

ULR NO :	CC310224000001062F	CERTIFICATE No. :	UCSL/04-24/091_02
Customer Name & Address:		Instrument receipt Date	16.04.2024
M/s. MICRO HEALTH LABORATORIES MP TOWER, NEXT TO LAVANYA PLAZA, NEAR THALUK HOSPITAL, THAMARASSERY, KERALA - 673 573		SRF No.	091
		Calibration Date	17.04.2024
		Next calibration date (As per customer request)	17.04.2025
		Certificate Issue date	23.04.2024

Identification on DUC (Device Under Calibration)

Equipment Name	MICROPIPETTE	Make	MICROLIT
Range	10 - 100 µl	Model	---
Least count	1 µl	Instrument Condition	OK
Serial No.	19111929	Calibration Performed at	Mass & Volume Lab
Instrument ID.	MHL/TSY/21	Location	---

Environmental Condition	Avg.Temperature (°C)	Avg.RH (%)	Avg.Atmospheric Pressure (hpa)
	23.7	56	1009

Equipment & Master Used For calibration

Instrument Used	Calibrated By	ID No:	Certificate No	Valid Upto	Sr No.	Accreditation No
Weighing Balance	EIE	---	EIE/M/231046	30.07.2024	T1004465	CC-2222

Method Used : Gravimetric method	Discipline & Category : Mechanical - Volume
Calibration Reference Standard	Calibration Procedure
ISO-8655 6 & ISO /TR 20461	UCSL/SOP/01-MPT

CALIBRATION RESULTS @27°C :-

1. Nominal Volume 10 µl

1	2	3	4	5	6	7	8	9	10	Mean Volume $\bar{V}$
9.92	9.80	9.82	9.52	9.92	9.91	9.91	9.70	9.85	9.88	9.82

		Error Limits			Error Limits
Systamatic Error es µl :	0.18	(± 0.8 µl)	Random Error in sr µl :	0.13	(± 0.3 µl)
Systamatic Error es in % :	1.77	(± 8.0 %)	Random Error in Cv in % :	1.28	(± 3.0 %)

2. Nominal Volume 50 µl

1	2	3	4	5	6	7	8	9	10	Mean Volume V
49.00	49.37	49.40	49.04	49.44	49.45	49.43	49.41	49.38	49.35	49.33

		Error Limits			Error Limits
Systamatic Error es µl :	0.67	(± 0.8 µl)	Random Error in sr µl :	0.17	(± 0.3 µl)
Systamatic Error es in % :	1.34	(± 1.6 %)	Random Error in Cv in % :	0.34	(± 0.6 %)

3. Nominal Volume 100 µl

1	2	3	4	5	6	7	8	9	10	Mean Volume $\bar{V}$
100.52	100.44	100.34	100.50	100.18	100.58	100.58	100.23	100.23	100.29	100.39

		Error Limits			Error Limits
Systamatic Error es µl :	-0.39	(± 0.8 µl)	Random Error in sr µl :	0.15	(± 0.3 µl)
Systamatic Error es in % :	-0.39	(± 0.8 %)	Random Error in Cv in % :	0.15	(± 0.3 %)

Decision Rule is Applied or Not	Yes	No
		✓

Conclusion /Remarks:

The Reported Uncertainity upto 10 µl is 0.06 µl and from 10 µl to 100 µl is 0.12µl at ,Coverage Factor K=2,which corresponds to a confidence level at approximately 95 %

The observed values and the measurement uncertainty are found to be within the maximum permissible errors as per ISO 8655, Hence the instrument is pass.

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5. This Calibration Certificate relates only to the above DUC
6. All the measurements are traceable to SI units through unbroken chain of calibration from the competent laboratories as per ISO/IEC/17025 standard requirements.
7. DUC : Device under calibration

Calibrated by

Checked By

UNIQUE CALIBRATION SOLUTIONS LLP UCSL

Issued / Approved By
(APPU K MANI)
Technical Director

--- End of Certificate ---

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CC-3102

CALIBRATION CERTIFICATE

ULR NO :	CC310224000001063F	CERTIFICATE No. :	UCSL/04-24/091_03
Customer Name & Address:		Instrument receipt Date	16.04.2024
M/s. MICRO HEALTH LABORATORIES		SRF No.	091
MP TOWER, NEXT TO LAVANYA PLAZA, NEAR THALUK HOSPITAL, THAMARASSERY, KERALA - 673 573		Calibration Date	17.04.2024
		Next calibration date (As per customer request)	17.04.2025
		Certificate Issue date	23.04.2024

Identification on DUC (Device Under Calibration)

Instrument Name	MICROPIPETTE	Make	THERMO SCIENTIFIC
Range	20 - 200 µl	Model	FINN PIPETTE
Least count	1 µl	Instrument Condition	OK
Serial No.	MW19904	Calibration Performed at	Mass & Volume Lab
Instrument ID	MHL/TSY/14	Location	---

Environmental Condition	Avg.Temperature (°C)	Avg.RH (%)	Avg.Atmospheric Pressure (hpa)
	23.1	55	1010

Equipment & Master Used For calibration

Instrument Used	Calibrated By	ID No:	Certificate No	Valid Upto	Sr No.	Accreditation No
Weighing Balance	EIE	---	EIE/M/231046	30.07.2024	T1004465	CC-2222
Weighing Balance	UCSL	UCSL-WB-01	UCSL/10-23/311_01	14.10.2024	0037905909	CC-3102

Method Used : Gravimetric method	**Discipline & Category** : Mechanical - Volume
Calibration Reference Standard	**Calibration Procedure**
ISO-8655-6 & ISO /TR 20461	UCSL/SOP/01-MPT

CALIBRATION RESULTS :-

1. Lower Volume 20 µl

1	2	3	4	5	6	7	8	9	10	Mean Volume V
20.17	20.17	20.14	20.17	20.15	20.18	20.18	20.18	20.20	20.15	20.17

		Error Limits			Error Limits
Systamatic Error es µl :	-0.17	(± 1.6 µl)	Random Error in sr µl :	0.02	(± 0.6 µl)
Systamatic Error es in % :	-0.85	(± 8.0 %)	Random Error in Cv in % :	0.08	(± 3.0 %)

2. Middle Volume 100 µl

1	2	3	4	5	6	7	8	9	10	Mean Volume V
101.27	101.38	100.45	101.38	101.37	101.35	101.38	101.42	101.24	101.42	101.26

		Error Limits			Error Limits
Systamatic Error es µl :	-1.26	(± 1.6 µl)	Random Error in sr µl :	0.29	(± 0.6 µl)
Systamatic Error es in % :	-1.26	(± 1.6 %)	Random Error in Cv in % :	0.29	(± 0.6 %)

3. Nominal Volume 200 µl

1	2	3	4	5	6	7	8	9	10	Mean Volume V
201.17	201.08	201.13	200.82	201.34	201.24	201.54	201.23	201.18	200.88	201.16

		Error Limits			Error Limits
Systamatic Error es µl :	-1.16	(± 1.6 µl)	Random Error in sr µl :	0.21	(± 0.6 µl)
Systamatic Error es in % :	-0.58	(± 0.8 %)	Random Error in Cv in % :	0.10	(± 0.3 %)

Decision Rule is Applied or Not	Yes	No
		✓

Conclusion /Remarks:

The Reported Uncertainity ***from 20 µl to 100 µl is 0.12µl and at 200 µ l is 0.60 µl*** *at ,Coverage Factor K=2,which corresponds to a confidence level at approximately 95 %*

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5. This Calibration Certificate relates only to the above DUC
6. DUC : Device under calibration
7. All the measurements are traceable to SI units through unbroken chain of calibration from the competent laboratories as per ISO/IEC 17025 standard requirements.

Calibrated by **Checked By** **Issued / Approved By**

(APPU K MANI)

Technical Director

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CC-3102

CALIBRATION CERTIFICATE

ULR NO :	CC310224000001064F	CERTIFICATE No. :	UCSL/04-24/091_04
Customer Name & Address:		Instrument receipt Date	16.04.2024
M/s. MICRO HEALTH LABORATORIES MP TOWER, NEXT TO LAVANYA PLAZA, NEAR THALUK HOSPITAL, THAMARASSERY, KERALA - 673 573		SRF No.	091
		Calibration Date	17.04.2024
		Next calibration date (As per customer request)	17.04.2025
		Certificate Issue date	23.04.2024

Identification on DUC (Device Under Calibration)

Instrument Name	MICROPIPETTE	Make	MISPA
Range	20 - 200 µl	Model	---
Least count	0.2 µl	Instrument Condition	OK
Serial No.	NW0085J	Calibration Performed at	Mass & Volume Lab
Instrument ID	MHL/TSY/22	Location	---

Environmental Condition	Avg.Temperature (°C)	Avg.RH (%)	Avg.Atmospheric Pressure (hpa)
	24.2	54	1009

Equipment & Master Used For calibration

Instrument Used	Calibrated By	ID No:	Certificate No	Valid Upto	Sr No.	Accreditation No
Weighing Balance	EIE	---	EIE/M/231046	30.07.2024	T1004465	CC-2222
Weighing Balance	UCSL	UCSL-WB-01	UCSL/10-23/311_01	14.10.2024	0037905909	CC-3102

Method Used : Gravimetric method	**Discipline & Category** : Mechanical - Volume
Calibration Reference Standard	**Calibration Procedure**
ISO-8655-6 & ISO /TR 20461	UCSL/SOP/01-MPT

CALIBRATION RESULTS :-

1. Lower Volume 20 µl

1	2	3	4	5	6	7	8	9	10	Mean Volume V
20.09	20.09	20.07	20.08	20.07	20.10	20.10	20.10	20.11	20.07	20.09

		Error Limits			Error Limits
Systamatic Error es µl :	-0.09	(± 1.6 µl)	Random Error in sr µl :	0.02	(± 0.6 µl)
Systamatic Error es in % :	-0.43	(± 8.0 %)	Random Error in Cv in % :	0.08	(± 3.0 %)

2. Middle Volume 100 µl

1	2	3	4	5	6	7	8	9	10	Mean Volume V
100.13	100.10	100.10	100.13	100.10	100.08	100.11	100.14	100.11	100.14	100.11

		Error Limits			Error Limits
Systamatic Error es µl :	0.11	(± 1.6 µl)	Random Error in sr µl :	0.02	(± 0.6 µl)
Systamatic Error es in % :	-0.11	(± 1.6 %)	Random Error in Cv in % :	0.02	(± 0.6 %)

3. Nominal Volume 200 µl

1	2	3	4	5	6	7	8	9	10	Mean Volume V
200.86	200.91	200.60	200.65	200.81	200.71	201.01	201.06	200.88	200.71	200.82

		Error Limits			Error Limits
Systamatic Error es µl :	-0.82	(± 1.6 µl)	Random Error in sr µl :	0.15	(± 0.6 µl)
Systamatic Error es in % :	-0.41	(± 0.8 %)	Random Error in Cv in % :	0.08	(± 0.3 %)

Decision Rule is Applied or Not	Yes	No
		✓

Conclusion /Remarks:

The Reported Uncertainity ***from 20 µl to 100 µl is 0.12µl and at 200 µ l is 0.60 µl*** *at ,Coverage Factor K=2,which corresponds to a confidence level at approximately 95 %*

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Calibrated by **Checked By** **Issued / Approved By**
(APPU K MANI)
Technical Director

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CC-3102

CALIBRATION CERTIFICATE

ULR NO :	CC310224000001065F	CERTIFICATE No. :	UCSL/04-24/091_05
Customer Name & Address:		Instrument receipt Date	16.04.2024
M/s. MICRO HEALTH LABORATORIES MP TOWER, NEXT TO LAVANYA PLAZA, NEAR THALUK HOSPITAL, THAMARASSERY, KERALA - 673 573		SRF No.	091
		Calibration Date	17.04.2024
		Next calibration date (As per customer request)	17.04.2025
		Certificate Issue date	23.04.2024

Identification on DUC (Device Under Calibration)

Instrument Name	MICROPIPETTE	Make	THERMO SCIENTIFIC
Range	2 - 20 µl	Model	FINN PIPETTE F3
Least count	0.02 µl	Instrument Condition	OK
Serial No.	KW03951	Calibration Performed at	Mass & Volume Lab
ID No.	MHL/TSY/14	Location	---

Environmental Condition	Avg.Temperature (°C)	Avg.RH (%)	Avg.Atmospheric Pressure (hpa)
	24.1	55	1010

Equipment & Master Used For calibration

Instrument Used	Calibrated By	ID No:	Certificate No	Valid Upto	Sr No.	Accreditation No
Weighing Balance	EIE	---	EIE/M/231046	30.07.2024	T1004465	CC-2222

Method Used : Gravimetric method	Discipline & Category : Mechanical - Volume
Calibration Reference Standard	Calibration Procedure
ISO-8655-6 & ISO /TR 20461	UCSL/SOP/01-MPT

CALIBRATION RESULTS @ 27 °C :-

1. Lower Volume 2 µl

1	2	3	4	5	6	7	8	9	10	Mean Volume V̄
2.009	2.024	2.001	2.009	2.032	2.017	2.015	2.005	2.050	2.016	2.018

		Error Limits			Error Limits
Systamatic Error es µl :	-0.02	(± 0.20 µl)	Random Error in sr µl :	0.01	(± 0.10 µl)
Systamatic Error es in % :	-0.88	(±10.0%)	Random Error in Cv in % :	0.72	(± 5.0 %)

2. Middle Volume 10 µl

1	2	3	4	5	6	7	8	9	10	Mean Volume V̄
10.043	10.028	10.016	10.042	10.069	10.051	10.045	10.054	10.019	10.035	10.041

		Error Limits			Error Limits
Systamatic Error es µl :	-0.04	(± 0.20 µl)	Random Error in sr µl :	0.02	(± 0.10 µl)
Systamatic Error es in % :	-0.41	(± 2.0 %)	Random Error in Cv in % :	0.16	(± 1.0 %)

3. Nominal Volume 20 µl

1	2	3	4	5	6	7	8	9	10	Mean Volume V̄
20.187	20.168	20.186	20.106	20.171	20.176	20.101	20.187	20.178	20.194	20.165

		Error Limits			Error Limits
Systamatic Error es µl :	-0.17	(± 0.20 µl)	Random Error in sr µl :	0.03	(± 0.10 µl)
Systamatic Error es in % :	-0.83	(± 1.0 %)	Random Error in Cv in % :	0.17	(± 0.5 %)

Decision Rule is Applied or Not :	Yes	No
		✓

Conclusion /Remarks:

*The Reported Uncertainity **from 0.5 to 10 µl is 0.06 µl and 20 µl is 0.12 µl** at ,Coverage Factor K=2,which corresponds to a confidence level at approximately 95 %*

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7. DUC : Device under calibration

Calibrated by

Checked By

Issued / Approved By
(APPU K MANI)
(Technical Director)

--- End of Certificate ---

5/D3, EK Appartments, Model engineering college road Thrikkakara, Edappally, Cochin, Kerala-682021

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CC-3102

CALIBRATION CERTIFICATE

UNIQUE LAB REPORT NO (ULR NO) :		CC310224000001066F	
SRF NO. :	091	CERTIFICATE NO	UCSL/04-24/091_06
Customer Details :	M/s. MICRO HEALTH LABORATORIES MP TOWER, NEXT TO LAVANYA PLAZA, NEAR THALUK HOSPITAL, THAMARASSERY, KERALA - 673 573		

Device Under Calibration	CENTRIFUGE (RPM)
Make / Model No.	ELECTRA BL
Range	0 to 6000 rpm
Least Count	1 rpm
Instrument Id. No.	MHL-TSY-PQP-08
Instrument Sr. No.	EPBL20160046
Location	LAB
Visual Inspection	OK
Material Receipt Date	---
Calibration performed At	ON SITE
Date of Calibration	23.04.2024
Next calibration due (As per customer request)	23.04.2025
Calibration Certficate Issue Date	23.04.2024
Discipline	Mechanical
Method Used	Comparison

Equipment & Master Used For Calibration

01. DIGITAL CONTACT & NON CONTACT TACHOMETER

Make : LUTRON
Serial No. : Q693180
Certificate No. : C-230620-8-21
Next Due Date : 22.06.2024
Calibrated By : Godrej & Boyce
Accreditation No : CC-2559

ENVIRONMENTAL CONDITION

Temperature	27.1°C
Relative Humidity	57%RH
Condition Of Equipment :	Un-Loaded

OBSERVATION RESULTS

SL. NO.	Nominal Value on DUC (rpm)	Observed Mean Value on MASTER (rpm)	% Error of Reading (±)	± Expanded Uncertainty At Approx.95% Confidence Level (k=2)
1.	500	500.5	0.10	0.60 %
2.	1000	1006	0.56	0.60 %
3.	3000	3006	0.21	0.60 %
4.	4000	4005	0.11	0.60 %
5.	6000	6005	0.08	0.60 %

Calibration Procedure Based On : UCSL/SOP/RPM

Decision Rule is Applied or Not	Yes	No
		✓

NOTE : -

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4. All the measurements are traceable to SI units through unbroken chain of calibration from the competent laboratories as per ISO/IEC/17025 standard requirements.
5. DUC : Device under calibration
6. This calibration certificate relates only to the above DUC.

Calibrated By

Checked By

Issued / Approved By
(APPU K MANI)
Technical Director

--- End of Certificate ---

5/D3, EK Appartments, Model engineering college road Thrikkakara, Edappally, Cochin, Kerala-682021

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E-mail: info@uniquecalibration.co.in, website: www.uniquecalibration.co.in

CALIBRATION CERTIFICATE

SRF NO :	091	Certificate No :	UCSL/04-24/091_07
Customer Details :	M/s. MICRO HEALTH LABORATORIES MP TOWER, NEXT TO LAVANYA PLAZA, NEAR THALUK HOSPITAL, THAMARASSERY, KERALA - 673 573		

Device Under Calibration	REFRIGERATOR
Make / Model	SAMSUNG
Range	-20 to 8 °C
Least Count	---
Instrument Id. No.	MHRL-BM-REC-82
Instrument Sr. No.	ROC140BH100B32Z
Visual Inspection	OK
Location	LAB
Material Receipt Date	---
Date of Calibration	23.04.2024
Next Calibration Due (As per Customer Request)	23.04.2025
Certificate Issue Date	23.04.2024
Calibration performed At	ON SITE
Discipline	THERMAL
Method used	COMPARISON

Equipment & Master Used For Calibration

01. 4 WIRE RTD SENSOR WITH INDICATOR

Make : TEMPSENS (Sensor) / YUDIAN (Indicator)
Sr. No. : 2113028448 / 20L737937
Certificate No . : TL/024/60.1.1
Next Due Date : 15.01.2025
Calibrated By : TEMPSENS

ENVIRONMENTAL CONDITION

Temperature	25.3°C
Relative Humidity	56%RH

OBSERVATION RESULTS

SL.NO	SET VALUE (°C)	MASTER READING (°C)
01	Maintaining Temperature	8.729

Calibration Procedure Based On : UCSL/SOP/01-T (ITS-90)

NOTE : -

1. The calibration results reported in this certificate are valid at the time of and the stated condition of measurement.
2. This report should not be reproduced except in full without our prior permission in writing.
3. Calibration certificate without signature are not valid.
4. All the measurements are traceable to SI units through unbroken chain of calibration from the competent laboratories as per ISO/IEC/17025 standard requirements.
5. DUC : Device under calibration.
6. Reported readings of MASTER are average of 5 measurements.
7. Measurement Uncertainty reported is at approximately 95% confidence level with K=2.
8. This Calibration Certificate relates only to the above DUC.

Calibrated By

Checked By

Issued / Approved By
(APPU K MANI)
Technical Director

--- End of Certificate ---

5/D3, EK Appartments, Model engineering college road Thrikkakara, Edappally, Cochin, Kerala-682021