

Calibration Laboratory







CALIBRATION CERTIFICATE

Customer Name & Address	Certificate No.	: MTPL/23/1957/4
1000 127 120 120 120 120 120	Equipment Received On	: 06/10/2023
EMPLOYE'S STATE INSURANCE	Equipment Condition	: Satisfactory
CORPORATION SUPER SPECIALITY	Date of Calibration	: 07/10/2023
HOSPITAL, Sanathnagar, Hyderabad – 500038.	Recommended Calibration Due	: 06/10/2024
	Date of issue	: 10/10/2023
MECHANICAL DISCIPLINE (VOLUME)	ULR No.	: CC219123000019203F

Details of Unit Under Calibration:

: Micro Pipette **Instrument Specification** : 2 to 20 µl : Eppendorf Make Range Model : Research Plus Resolution : 0.02 µl Sr. No : O27153F Unit Under Measurement : µl

Standard used for calibration:

Instrument Name	Instrument Sr. No. / Id No.	Certificate No.	Calibration Due On	Traceability with NABL Lab No.
Micro Balance	METSAR-M-001	MTPL/23/0156/1	26/01/2024	CC-2191

Environ	mental	Conditions	SOP Number
Temperature	F	Humidity	MTPL/CL/SOP/MV/03
23 ± 1 ${}^{0}C$		40 to 60 % RH	MTPL/CL/SOP/MV/03

Results of Calibration:

Sr. No.	Set Volume in µl	Standard Balance Reading in g	Actual Calculated Volume in µl @ 27 °C	Error (±) in μl	Expanded Uncertainty (±) in µl
1	2.00	0.002019	2.014	0.014	0.1
2	5.00	0.005035	5.021	0.021	0.1
3	10.00	0.010062	10.035	0.035	0.1
4	15.00	0.015079	15.039	0.039	1.2
5	20.00	0.020095	20.043	0.043	1.2

Repeatability Results @ 27 °C:

Sr. No.	Set Volume in µl	20 90	Actu	ıal CalculatedWo	lume	
4	20.00	20.047	20.041	20.038	20.040	20.043
1	20.00	20.044	20.047	20.043	20.044	20.040

Remarks:

- a) The Standard used for calibration is traceable to National/International standards through unbroken chain of Accredited Laboratories.
- b) Reference Standard and Method used: ISO 8655-6, Gravimetric Method.
- c) The result stated in this calibration certificate is related only to the item submitted for calibration.
- d) UUC means Unit Under Calibration.
- e) The reported expanded uncertainty of measurement is stated at a confidence level of approximately 95.45% with coverage factor k=2.
- f) Certificate shall not be reproduced except in full without the written approval of the laboratory.
- The instrument was calibrated at Mass and Volume Lab.
- h) The Recommended Due Date of this calibration certificate is given as per request of customer.

Calibrated By CH. Naresh Sr. Calibration Engineer

Certificate Approved By M. Ramratan Technical Manager

End of Calibration Certificate

METSAR TECHNOLOGIES PVT. LTD. An ISO 9001-2015 Certified Company

1st Floor, Gargifyada Centre / Rollingsgar, Myelchat Mokajgiri, Disp Hyderabad - 500 037, Telangana, INDIA. © +91 9640166643 / +91-40-29800836, info@metsartechnologies.com



Calibration Laboratory





CALIBRATION CERTIFICATE

Customer Name & Address	Certificate No.	: MTPL/23/1957/2
THE PARTY OF THE P	Equipment Received On	: 06/10/2023
EMPLOYE'S STATE INSURANCE	Equipment Condition	: Satisfactory
CORPORATION SUPER SPECIALITY	Date of Calibration	: 07/10/2023
HOSPITAL,	Recommended Calibration Due	: 06/10/2024
Sanathnagar, Hyderabad – 500038.	Date of issue	: 10/10/2023
MECHANICAL DISCIPLINE (VOLUME)	ULR No.	: CC219123000019201F

Details of Unit Under Calibration:

Standard used for calibration:

Instrument Name	Instrument Sr. No. / Id No.	Certificate No.	Calibration Due On	Traceability with NABL Lab No.	Market .
Semi Micro Balance	METSAR-M-002	MTPL/23/0156/2	26/01/2024	CC-2191	

Environmen	tal Conditions	SOP Number
Temperature .	Humidity	MTPL/CL/SOP/MV/03
23 ± 1 0 C	40 to 60 % RH	MTFL/CL/SOF/MIV/03

Results of Calibration:

Sr. No.	Set Volume in µl	Standard Balance Reading in g	Actual Calculated Volume in μl @ 27 °C	Error (±) in μl	Expanded Uncertainty (±) in μl
1	100	0.10037	100.09	0.09	15
2	300	0.30095	300.11	0.11	15
3	500	0.50157	500.21	0.21	15
4	800	0.80246	800.27	0.27	15
5	1000	1.00315	1000.39	0.39	15

Repeatability Results @ 27 °C:

Sr. No.	Set Volume In µl		Actu	al Calculated (Vo	lume	
1	1000	1000.39	1000.39	1000.43	1000.39	1000.36
1	1000	1000.42	1000.38	1000.35	1000.43	1000.39

Remarks:

- The Standard used for calibration is traceable to National/International standards through unbroken chain of Accredited Laboratories.
- b) Reference Standard and Method used: ISO 8655-6, Gravimetric Method.
- c) The result stated in this calibration certificate is related only to the item submitted for calibration.
- d) UUC means Unit Under Calibration.
- e) The reported expanded uncertainty of measurement is stated at a confidence level of approximately 95.45% with coverage factor k=2.
- f) Certificate shall not be reproduced except in full without the written approval of the laboratory.
- g) The instrument was calibrated at Mass and Volume Lab.
- h) The Recommended Due Date of this calibration certificate is given as per request of customer.

Ch. Noresh Calibrated By

CH. Naresh Sr. Calibration Engineer

MTPL/CL/FF/CC/ME/MP

Certificate Approved By M. Ramratan Technical Manager

End of Calibration Certificate
METSAR TECHNOLOGIES PVI. LTD.

An ISO 9001-2015 Certified Company

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Calibration Laboratory





CALIBRATION CERTIFICATE

Customer Name & Address	Certificate No.	: MTPL/23/1957/1
	Equipment Received On	: 06/10/2023
EMPLOYE'S STATE INSURANCE	Equipment Condition	: Satisfactory
CORPORATION SUPER SPECIALITY	Date of Calibration	: 07/10/2023
HOSPITAL, Sanathnagar, Hyderabad – 500038.	Recommended Calibration Due	: 06/10/2024
	Date of issue	: 10/10/2023
MECHANICAL DISCIPLINE (VOLUME)	ULR No.	: CC219123000019200F

Details of Unit Under Calibration:

Instrument Specification : Micro Pipette

Make : Eppendorf

Model : Research Plus Range : 20 to 200 μl

Sr. No : P31472F Resolution : 0.2 μ1

Id. No. :--- 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.
Semi Micro Balance	METSAR-M-002	MTPL/23/0156/2	26/01/2024	CC-2191
Micro Balance	METSAR-M-001	MTPL/23/0156/1	26/01/2024	CC-2191

Environmen	tal Conditions	SOP Number	
Temperature Humidity		MTPL/CL/SOP/MV/03	
$23 \pm 1^{0}C$	40 to 60 %RH	MTPL/CL/SOP/MV/03	

Results of Calibration:

Sr. No.	Set Volume in µl	Standard Balance Reading in g	Actual Calculated Volume in μl @ 27 °C	Error (±) in μl	Expanded Uncertainty (±) in µl
1	20.0	0.020030	19.989	0.011	1.2
2	50.0	0.05022	50.12	0.12	1.2
3	100.0	0.10044	100.23	0.23	1.2
4	150.0	0.15062	150.31	0.31	15
5	200.0	0.20074	200.38	0.38	15

Repeatability Results @ 27 °C:

Sr. No.	Set Volume In ul		Actual Calculated Volume In ul			
	200.0	200.38	200.34	200.36	200.37	200.43
1	200.0	200.40	200.43	200.34	200.45	200.34

Remarks:

- The Standard used for calibration is traceable to National/International standards through unbroken chain of Accredited Laboratories.
- b) Reference Standard and Method used: ISO 8655-6, Gravimetric Method.
- c) The result stated in this calibration certificate is related only to the item submitted for calibration.
- d) UUC means Unit Under Calibration.
- e) The reported expanded uncertainty of measurement is stated at a confidence level of approximately 95.45% with coverage factor *k*=2.
- f) Certificate shall not be reproduced except in full without the written approval of the laboratory.
- g) The instrument was calibrated at Mass and Volume Lab.
- h) The Recommended Due Date of this calibration certificate is given as per request of customer.

Ch. NOVOSA Calibrated By CH. Naresh Sr. Calibration Engineer

Certificate Approved By M. Ramratan Technical Manager

METSA*End of Calibration Certificate**

An ISO 9001-2015 Certified Company



Calibration Laboratory







Customer Name & Address	Certificate No.	: MTPL/23/1607/19	1
	Equipment Received On	: 19/08/2023	
EMPLOYE'S STATE INSURANCE	Equipment Condition	: Satisfactory	
CORPORATION SUPER SPECIALITY	Date of Calibration	: 19/08/2023	
HOSPITAL, Sanathnagar, Hyderabad – 500038.	Recommended Calibration Due	: 18/08/2024	
	Date of issue	: 21/08/2023	
MECHANICAL DISCIPLINE (VOLUME)	III.R No.	· CC219123000018554F	

Details of Unit Under Calibration:

 Instrument Specification
 : Micro Pipette

 Make
 : Eppendorf
 Range
 : 2 to 20 μl

 Model
 : Research Plus
 Resolution
 : 0.02 μl

 Sr. No
 : Q27204F
 Unit Under Measurement
 : μl

Standard used for calibration:

Instrument Name
Sr. No. / Id No.

Micro Balance
METSAR-M-001
MTPL/23/0156/1

Certificate No.
Certificate No.
On
NABL Lab No.
26/01/2024
CC-2191

Results of Calibration:

Sr. No.	Set Volume in µl	Standard Balance Reading in g	Actual Calculated Volume in µl @ 27 °C	Error (\pm) in μ l	Expanded Uncertainty (±) in μl
1	2.00	0.002019	2.014	0.014	0.1
2	5.00	0.005010	4.995	0.005	0.1
3	10.00	0.010039	10.008	0.008	0.1
4	15.00	0.015021	14.976	0.024	1.2
5	20.00	0.019987	19.928	0.072	1.2

Repeatability Results @ 27 °C:

Sr. No.	Set Volume in µl	Actual Calculated Volume in ul				
1	20.00	19.927	19.925	19.933	19.923	19.928
1	20.00	19.923	19.935	19.929	19.925	19.931

Remarks:

- a) The Standard used for calibration is traceable to National/International standards through unbroken chain of Accredited Laboratories.
- b) Reference Standard and Method used: ISO 8655-6, Gravimetric Method.
- c) The result stated in this calibration certificate is related only to the item submitted for calibration.
- d) UUC means Unit Under Calibration.
- e) The reported expanded uncertainty of measurement is stated at a confidence level of approximately 95.45% with coverage factor *k*=2.
- f) Certificate shall not be reproduced except in full without the written approval of the laboratory.
- g) The instrument was calibrated at Mass and Volume Lab-1.

Ch. Novelh Calibrated By CH. Naresh

Sr. Calibration Engineer

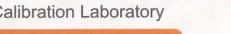
Certificate Approved By N. Chanakya Sr. Manager Calibration

End of Calibration Certificate
METSAR TECHNOLOGIES PVT. LTD.

An ISO 9001-2015 Certified Company



Calibration Laboratory







CALIBRATION CERTIFICATE

Customer Name & Address	Certificate No.	: MTPL/23/1607/20
	Equipment Received On	: 19/08/2023
EMPLOYE'S STATE INSURANCE	Equipment Condition	: Satisfactory
CORPORATION SUPER SPECIALITY	Date of Calibration	: 19/08/2023
HOSPITAL, Sanathnagar, Hyderabad – 500038.	Recommended Calibration Due	: 18/08/2024
	Date of issue	: 21/08/2023
MECHANICAL DISCIPLINE (VOLUME)	ULR No.	: CC219123000018555F

Details of Unit Under Calibration:

Instrument Specification : Micro Pipette

: 0.5 to 10 µl Make : Eppendorf Range Model : Research Resolution : 0.01 µl Sr. No : 400144Z 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.
Micro Balance	METSAR-M-001	MTPL/23/0156/1	26/01/2024	CC-2191

Environmen	tal Conditions	SOP Number	
Temperature Humidity		MTDL/CL/COD/MV/02	
23 ± 1 0 C	40 to 60 % RH	MTPL/CL/SOP/MV/03	

Results of Calibration:

Sr. No.	Set Volume in µl	Standard Balance Reading in g	Actual Calculated Volume in µl @ 27 °C	Error	Expanded Uncertainty (±) in µl
1	1.00	0.001008	1.005	0.005	0.1
2	3.00	0.003023	3.015	0.015	0.1
3	5.00	0.005031	5.016	0.016	0.1
4	8.00	0.008068	8.047	0.047	0.1
5	10.00	0.010084	10.057	0.057	0.1

Repeatability Results @ 27 °C:

Sr. No.	Set Volume in µl		Actu	ıal Calculated Vol	ume	
1	10.00	10.058	10.052	10.057	10.047	10.062
1	10.00	10.060	10.067	10.060	10.048	10.057

Remarks:

- a) The Standard used for calibration is traceable to National/International standards through unbroken chain of Accredited Laboratories.
- b) Reference Standard and Method used: ISO 8655-6, Gravimetric Method.
- c) The result stated in this calibration certificate is related only to the item submitted for calibration.
- d) UUC means Unit Under Calibration.
- e) The reported expanded uncertainty of measurement is stated at a confidence level of approximately 95.45% with coverage factor k=2.
- Certificate shall not be reproduced except in full without the written approval of the laboratory.
- The instrument was calibrated at Mass and Volume Lab-1.

Ch. Novesh.

CH. Naresh

Sr. Calibration Engineer

Certificate Approved By N. Chanakya

Sr. Manager Calibration

** End of Calibration Certificate**

METSAR TECHNOLOGIES PVT. LTD.



Calibration Laboratory





CALIBRATION CERTIFICATE

Customer Name & Address	Certificate No.	: MTPL/23/1607/12
	Equipment Received On	: 19/08/2023
EMPLOYE'S STATE INSURANCE	Equipment Condition	: Satisfactory
CORPORATION SUPER SPECIALITY HOSPITAL,	Date of Calibration	: 19/08/2023
Sanathnagar, Hyderabad – 500038.	Recommended Calibration Due	: 18/08/2024
	Date of issue	: 21/08/2023
MECHANICAL DISCIPLINE (VOLUME)	ULR No.	: CC219123000018547F

Details of Unit Under Calibration:

Instrument Specification : Micro Pipette

Make : Eppendorf Range : 100 to 1000 μl

Model: ResearchResolution: 1 μlSr. No: 486345ZUnit Under Measurement: μl

Standard used for calibration:

Instrument Name

Instrument Name

Sr. No. / Id No.

Certificate No.

On

NABL Lab No.

Semi Micro Balance

METSAR-M-002

MTPL/23/0156/2

26/01/2024

CC-2191

Environmen	tal Conditions	SOP Number
Temperature	Humidity	MTDL/CL/COD/MV/02
$23 \pm 1^{\circ}$ C	40 to 60 %RH	MTPL/CL/SOP/MV/03

Results of Calibration:

Sr. No.	Set Volume in µl	Standard Balance Reading in g	Actual Calculated Volume in μl @ 27 °C	Error (<u>+</u>) in μl	Expanded Uncertainty (±) in μl
1	100	0.10024	100.03	0.03	1.2
2	300	0.30019	299.52	0.48	15
3	500	0.50056	499.45	0.55	15
4	800	0.80088	799.11	0.89	15
5	999	0.99868	996.58	2.42	15

Repeatability Results @ 27 °C:

Sr. No.	Set Volume In µl		Acti	ıal Calculated Vol In μl	lume	
	000	996.54	996.59	996.55	996.53	996.62
1	999	996.65	996.69	996.58	996.51	996.55

Remarks:

- The Standard used for calibration is traceable to National/International standards through unbroken chain of Accredited Laboratories.
- b) Reference Standard and Method used: ISO 8655-6, Gravimetric Method.
- c) The result stated in this calibration certificate is related only to the item submitted for calibration.
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- e) The reported expanded uncertainty of measurement is stated at a confidence level of approximately 95.45% with coverage factor k=2.
- f) Certificate shall not be reproduced except in full without the written approval of the laboratory.
- g) The instrument was calibrated at Mass and Volume Lab-1.

Calibrated By
CH. Naresh
Sr. Calibration Engineer

Certificate Approved By N. Chanakya Sr. Manager Calibration

End of Calibration Certificate

METSAR TECHNOLOGIES PVT. LTD.

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Calibration Laboratory







Certificate No.	: MTPL/23/1607/14
Equipment Received On	: 19/08/2023
Equipment Condition	: Satisfactory
Date of Calibration	: 19/08/2023
Recommended Calibration Due	: 18/08/2024
	Equipment Received On Equipment Condition Date of Calibration

Date of issue : 21/08/2023

MECHANICAL DISCIPLINE (VOLUME) ULR No. : CC219123000018549F

Details of Unit Under Calibration:

 Instrument Specification
 : Micro Pipette

 Make
 : Eppendorf
 Range
 : 100 to 1000 μl

 Model
 : Research Plus
 Resolution
 : 1 μl

 Sr. No
 : O22291F
 Unit Under Measurement
 : μl

Standard used for calibration:

Instrument Name
Semi Micro Balance

Instrument
Sr. No. / Id No.

METSAR-M-002

MTPL/23/0156/2

Calibration Due
On
NABL Lab No.

26/01/2024

CC-2191

Environmen	tal Conditions	SOP Number	
Temperature	Humidity	MTDI /CI /COD/MI//02	
23 ± 1^{0} C	40 to 60 %RH	MTPL/CL/SOP/MV/03	

Results of Calibration:

Sr. No.	Set Volume in µl	Standard Balance Reading in g	Actual Calculated Volume in μl @ 27 °C	Error	Expanded Uncertainty (±) in µl
1	100	0.10027	100.05	0.05	1.2
2	300	0.30040	299.73	0.27	15
3	500	0.60040	599.08	0.92	15
4	800	0.80060	798.82	1.18	15
5	1000	1.00080	998.71	1.29	15

Repeatability Results @ 27 °C:

Sr. No.	Set Volume in ul		Acti	ial Calculated Vol	lume	
	10000 1000	998.69	998.77	998.73	998.66	998.69
1	1000	998.77	998.73	998.77	998.65	998.63

Remarks:

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- c) The result stated in this calibration certificate is related only to the item submitted for calibration.
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- f) Certificate shall not be reproduced except in full without the written approval of the laboratory.
- g) The instrument was calibrated at Mass and Volume Lab-1.

Calibrated By CH. Naresh

Sr. Calibration Engineer

Certificate Approved By N. Chanakya Sr. Manager Calibration

End of Calibration Certificate

METSAR TECHNOLOGIES PVT. LTD.

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Calibration Laboratory

CALIBRATION CERTIFICATE





Customer Name & Address	Certificate No.	: MTPL/23/1607/18
	Equipment Received On	: 19/08/2023
EMPLOYE'S STATE INSURANCE	Equipment Condition	: Satisfactory
CORPORATION SUPER SPECIALITY	Date of Calibration	: 19/08/2023
HOSPITAL, Sanathnagar, Hyderabad – 500038.	Recommended Calibration Due	: 18/08/2024
	Date of issue	: 21/08/2023
MECHANICAL DISCIPLINE (VOLUME)	ULR No.	: CC219123000018553F

Details of Unit Under Calibration:

Instrument Specification : Micro Pipette

Make : Eppendorf Range : 500 - 5000 μl

Model: ResearchResolution: 5 μlSr. No: 498459ZUnit Under Measurement: μl

Standard used for calibration:

Instrument Name

Semi Micro Balance

Instrument
Sr. No. / Id No.

Semi Micro Balance

METSAR-M-002

MTPL/23/0156/2

Calibration Due
Traceability with
NABL Lab No.

CC-2191

Environmental Conditions		SOP Number
Temperature Humidity		MTPL/CL/SOP/MV/03
23 ± 1^{0} C	40 to 60 % RH	MTFL/CL/SOP/MV/03

Results of Calibration:

Sr. No.	Set Volume in µl	Standard Balance Reading in g	Actual Calculated Volume in µl @ 27 °C	Error (±) in μl	Expanded Uncertainty (±) in μl
1	500	0.49986	498.81	1.19	15
2	2000	1.99859	1994.16	5.84	15
3	3000	2.99632	2989.68	10.32	15
4	4000	3.99458	3985.71	14.29	15
5	5000	4.99312	4982.60	17.40	15

Repeatability Results @ 27 °C:

Sr. No.	Set Volume In µl		Acti	ıal Calculate 0 Vol In μl	lume	
1	5000	4982.60	4982.64	4982.56	4982.56	4982.54
1	5000	4982.58	4982.63	4982.60	4982.68	4982.65

Remarks:

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- g) The instrument was calibrated at Mass and Volume Lab-1.

Calibrated By
CH. Naresh

Sr. Calibration Engineer

Certificate Approved By N. Chanakya

Sr. Manager Calibration

** End of Calibration Certificate**

METSAR TECHNOLOGIES PVT. LTD.



Calibration Laboratory





CALIBRATION CERTIFICATE

Customer Name & Address	Certificate No.	: MTPL/23/1957/3
	Equipment Received On	: 06/10/2023
EMPLOYE'S STATE INSURANCE	Equipment Condition	: Satisfactory
CORPORATION SUPER SPECIALITY	Date of Calibration	: 07/10/2023
HOSPITAL, Sanathnagar, Hyderabad – 500038.	Recommended Calibration Due	: 06/10/2024
	Date of issue	: 10/10/2023
MECHANICAL DISCIPLINE (VOLUME)	ULR No.	: CC219123000019202F

Details of Unit Under Calibration:

Instrument Specification : Micro Pipette

Make : Erba Model : ---

Sr. No : AB08492 Id. No. :--- Range Resolution

Unit Under Measurement

: 5 - 50 µl

: 0.5 µl

Standard used for calibration:

Instrument Name	Instrument Sr. No. / Id No.	Certificate No.	Calibration Due On	Traceability with NABL Lab No.	
Semi Micro Balance	METSAR-M-002	MTPL/23/0156/2	26/01/2024	CC-2191	
Micro Balance	METSAR-M-001	MTPL/23/0156/1	26/01/2024	CC-2191	

Environmental Conditions		SOP Number
Temperature	Humidity	MTPL/CL/SOP/MV/03
23 ± 1^{0} C	40 to 60 %RH	MTFE/CE/SOF/MV/03

Results of Calibration:

Sr. No.	Set Volume in µl	Standard Balance Reading in g	Actual Calculated Volume in μl @ 27 °C	Error	Expanded Uncertainty (±) in µl
1	5.0	0.005021	5.010	0.010	1.2
2	20.0	0.02015	20.11	0.11	1.2
3	30.0	0.03019	30.14	0.14	1.2
4	40.0	0.04036	40.29	0.29	1.2
5	50.0	0.05046	50.37	0.37	1.2

Repeatability Results @ 27 °C:

Sr. No.	Set Volume in µl	Actual Calculated Volume in g					
		50.33	50.41	50.38	50.39	50.37	
	50.0	50.35	50.40	50.34	50.38	50.36	

Remarks:

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- b) Reference Standard and Method used: ISO 8655-6, Gravimetric Method.
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- g) The instrument was calibrated at Mass and Volume Lab.
- h) The Recommended Due Date of this calibration certificate is given as per request of customer.

ch. Naresh

Calibrated By CH. Naresh Sr. Calibration Engineer Certificate Approved By M. Ramratan Technical Manager

METSA*Endof Calibration Certificate**

An ISO 9001-2015 Certified Company