



# GLOBAL TECHNICAL SERVICES

Sec. No.25, Plot No.49/3, L.I.G. Colony, Pradhikaran, Nigdi, Pune - 411044

Email : globaltechnical007@gmail.com

Mob : 9921239827 / 7276470703 / 9028888728



CERTIFICATE NO. : CC-2957

## CALIBRATION CERTIFICATE

<b>1.CUSTOMER</b> :- <b>State Referral Laboratory</b> Microbiology Department Dr. V.M. Govt. Medical College Solapur-413003	Page No. :- 1 of 1 Certificate No. :- GTS/201207/02-001 Date of Received :- 07.12.2020 Date of Calibration :- 07.12.2020 Next Calibration Due On :- 07.12.2021 Issue Date :- 08.12.2020 Calibration method No. :- MECH-WI-07 ULR No :- CC295720000010355F
Ambient Temp. (°C) :- 29.4 Relative Humidity (%RH) :- 50 Location of calibration :- On Site Condition of Item :- Ok	

### 2. Description of Item

Name :- Centrifuge	Range :- 0 to 4500 RPM
Id No :- SRL/VMGMC/Micro Dept/CF-01	Least Count :- 10 RPM
Make :- REMI R – 8C	Sr No :- ZBCN-07761
Type :- Digital	

### 3.Details of Equipment used for calibration

Name	Certificate No.	Certified By	ID No.	Calibration Validity
Digital Tachometer	NI/2006/002/002	Nishitronics Instrumentation	GTS/TM/01	01.06.2021

### \*Mechanical Calibration

#### 4.Calibration Results :-

Calibration Points RPM	Standard Reading RPM	UUC Reading RPM	Error in RPM	Expanded Uncertainty in ± %
1000	1002	1000	-2	1.20
2000	2005	2000	-5	1.20
3000	3009	3000	-9	1.20
4000	4012	4000	-12	1.20
4500	4515	4500	-15	1.20

#### Note:

- 1)The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor  $k=2$ , which corresponds to a coverage probability of approximately 95.45% for normal distribution
- 2) This certificate refers only to the particular item submitted for calibration. UUC stands for Unit Under Calibration.
- 3) The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
- 4) Calibration point were selected as per customer specifications.
- 5) This certificate shall not be reproduced, except in full unless written permission for the publication of an approved abstract has been obtained from the Technical Manager of "Global Technical Services, Pune".

Calibrated By

Calibration Engineer

D Ballal



Approved By

Technical Manager

Swapnil Bhagwat

RF-55/01

End of Certificate

S.No. 12/13, Aundh Road, Pawar Nagar,  
Thergaon, Pune - 411 033.  
Website : www.mastertechsystems.in  
Email : service@mastertechsystems.in  
Mobile : +91 9623057200 /8408097666



**MASTERTECH  
SYSTEMS**  
WHEN QUALITY MATTERS

### CALIBRATION CERTIFICATE

Certificate No. :- 2021/1207/05-02	ULR No. :- CC291120000016861F
Date of Calibration :- 7-Dec-2020	Calibration Due Date :- 7-Dec-2021
1. Clients Name & Address : State Referral Laboratory Microbiology Department Dr. V.M. Govt. Medical College Solapur-413003	SRF No. :- 2021/1207/05 Date of Received :- 7-Dec-2020 Cal. Cert. Issue Date :- 9-Dec-2020 Condition of UUC :- OK Location of calibration :- On Site Calibration Procedure No. :- MTS/ET/WI-10

2. Environmental Conditions: Temperature: 24.6 °C Relative Humidity: 51 % Rh

#### 3. Description of UUC

Name :- Timer (VDRL Rotator)	Range :- 0 to 99 min
Make :- Electronic DT-1045	Resolution :- 1 min
ID No. :- SRL/VMGMC/Micro Dept/TM-03	
Type :- Digital	

#### 4. Reference Standards used for calibration:

Name :- Digital Time Calibrator
Make / Model :- Saica / SCSTC-01
I.D No./Sr. No. :- MTS/TM-01 / 201805001
Certificate No. :- E20/22/2006/82/01
Calibration Validity :- 19-June-2021
Certified By :- AICL (CC-2638)
Range/Uncertainty :- 0 to 999999.999 sec / 0.02 to 1.3 sec

#### 5. Calibration Results

##### Electro-Technical Calibration

Sr.No.	Calibration Point	UUC Reading	Standard Reading	Deviation	Expanded Uncertainty
	min	min	min	min	± sec
1	1	1	1.00	0.00	1.50
2	5	5	5.00	0.00	1.50
3	10	10	10.00	0.00	1.50
4	30	30	30.01	-0.01	1.50
5	60	60	60.01	-0.01	1.50

#### NOTES:

- The value measured of uuc & standard are mean of 5 reading.
- The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by coverage factor K=2, which corresponds to a coverage probability of approximately 95.45% for normal distribution
- This certificate refers only to the particular UUC submitted for calibration. UUC stands for Unit Under Calibration.
- The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
- This certificate shall not be reproduced, except in full unless written permission for the publication of an approved abstract has been obtained from "Mastertech Systems" Pune.
- The Instruments used for calibration are traceable to National/International standards and their calibrations are valid.

Calibrated By

SC

Mr. Shafiq Chavhan



Approved By

Mr. Daulat Shete

Mr. Daulat Shete

S.No. 12/13, Aundh Road, Pawar Nagar,  
Thergaon, Pune - 411 033.  
Website : www.mastertechsystems.in  
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## CALIBRATION CERTIFICATE

Certificate No. :- 2021/0103/02-01      ULR No. :- CC291121000000210F  
Date of Calibration :- 3-Jan-2021      Calibration Due Date :- 3-Jan-2022

1. Clients Name & Address :      SRF No. :- 2021/0103/02  
State Referral Laboratory      Date of Received :- 3-Jan-2021  
Microbiology Department      Cal. Cert. Issue Date :- 5-Jan-2021  
Dr. V.M. Govt. Medical College      Condition of UUC :- OK  
Solapur-413003      Location of calibration :- On Site  
Calibration Procedure No. :- MTS/ET/WI-10

2. Environmental Conditions:      Temperature: 25.3 °C      Relative Humidity: 47 % Rh

### 3. Description of UUC

Name :- Timer ( VDRL Rotator)      Range :- 0-99      MIN  
Make :- Remi RS-12/ 10/10      Resolution :- 1      MIN  
ID No. :- SRL/VMGMC/Micro Dept/TM-04      Location :- JDCM-1966  
Type :- Digital

### 4. Reference Standards used for calibration:

Name :- Digital Time Calibrator  
Make / Model :- Saica / SCSTC-01  
I.D No./Sr. No. :- MTS/TM-01 / 201805001  
Certificate No. :- E20/22/2006/82/01  
Calibration Validity :- 19-June-2021  
Certified By :- AICL (CC-2638)  
Range/Uncertainty :- 0 to 999999.999 sec / 0.02 to 1.3 sec

### 5. Calibration Results

#### Electro-Technical Calibration

Sr.No.	Calibration Point	UUC Reading	Standard Reading	Deviation	Expanded Uncertainty
	MIN	MIN	MIN	MIN	± sec
1	1.0	1.0	1.00	0.0	1.50
2	5.0	5.0	5.00	0.0	1.50
3	10.0	10.0	10.00	0.0	1.50
4	30.0	30.0	30.00	0.0	1.50
5	60.0	60.0	60.00	0.0	1.50

#### NOTES:

- The value measured of uuc & standard are mean of 5 reading.
- The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by coverage factor K=2, which corresponds to a coverage probability of approximately 95.45% for normal distribution
- This certificate refers only to the particular UUC submitted for calibration. UUC stands for Unit Under Calibration.
- The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
- This certificate shall not be reproduced, except in full unless written permission for the publication of an approved abstract has been obtained from "Mastertech Systems" Pune.
- The Instruments used for calibration are traceable to National/International standards and their calibrations are valid.

Calibrated By

Mr. Shafik Chorgaste



Approved By

Mr. Daulat Shete

S.No. 12/13, Aundh Road, Pawar Nagar,  
Thergaon, Pune - 411 033.  
Website : www.mastertechsystems.in  
Email : service@mastertechsystems.in  
Mobile : +91 9623057200 /8408097666



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WHEN QUALITY MATTERS

### CALIBRATION CERTIFICATE

Certificate No. :- 2021/1207/05-01	ULR No. :- CC291120000016860F
Date of Calibration :- 7-Dec-2020	Calibration Due Date :- 7-Dec-2021
1. Clients Name & Address : State Referral Laboratory Microbiology Department Dr. V.M. Govt. Medical College Solapur-413003	SRF No. :- 2021/1207/05 Date of Received :- 7-Dec-2020 Cal. Cert. Issue Date :- 9-Dec-2020 Condition of UUC :- OK Location of calibration :- On Site Calibration Procedure No. :- MTS/ET/WI-10

2. Environmental Conditions: Temperature: 25.6 °C Relative Humidity: 54 % Rh

#### 3. Description of UUC

Name :- Timer	Range :- 0 to 99 min
Make :- REMI R-8C	Resolution :- 1 min
No. :- SRL/VMGMC/Micro Dept/CF-TM-01	
Type :- Digital	

#### 4. Reference Standards used for calibration:

Name :- Digital Time Calibrator
Make / Model :- Saica / SCSTC-01
I.D No./Sr. No. :- MTS/TM-01 / 201805001
Certificate No. :- E20/22/2006/82/01
Calibration Validity :- 19-June-2021
Certified By :- AICL (CC-2638)
Range/Uncertainty :- 0 to 999999.999 sec / 0.02 to 1.3 sec

#### 5. Calibration Results

##### Electro-Technical Calibration

Sr.No.	Calibration Point	UUC Reading	Standard Reading	Deviation	Expanded Uncertainty
	min	min	min	min	± sec
1	1	1	1.00	0.00	1.50
2	5	5	5.00	0.00	1.50
3	10	10	10.00	0.00	1.50
4	30	30	30.00	0.00	1.50
5	60	60	60.01	-0.01	1.50

#### NOTES:

- The value measured of uuc & standard are mean of 5 reading.
- The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by coverage factor K=2, which corresponds to a coverage probability of approximately 95.45% for normal distribution
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- The Instruments used for calibration are traceable to National/International standards and their calibrations are valid.

Calibrated By

SC

Mr. Shafiq Chergate



Approved By

Mr. Daulat Shete



# LiBA CORPORATION

Blood Bank & Laboratory Equipments, NABL Traceability Calibration Services, Air Conditioning Services & Home Appliances.

Distributors of: **SPAN** **TECHSONIC** **Sensory Integrity** **LTRA** **SUPER REFRIGERATION**

## CALIBRATION CERTIFICATE

Certificate No: - LTR/LC/SUR/8250.01/21

Date: 25/01/2021

**Equipment** : Digital Temp Thermometer  
**Location** : S R L lab  
**User ID** : DVMMCS/DTT/03  
**Make** : Digital Series  
**Sr.No.** : N.A.  
**Equip range** : (-100) °C to 200°C  
**Calibration requested** : 2°C to 6°C  
**Status of Equipment** : WORKING  
**Environmental conditions**  
**Ambient temp.** : 25±4 °C  
**Relative Humidity** : ≤ 70% RH  
**Calibrated "On Site" at Customer's address**  
**Name of Customer** : The Dean, Dr V.M.Medical College, Solapur  
**Address of Customer** : Opp Civil Court, Civil Chowk, Near Rang Bhavan, Solapur.  
**Calibration Date** : 25/01/2021  
**Calibration Validity** : 24/01/2022

### Details of Equipment used for Calibration

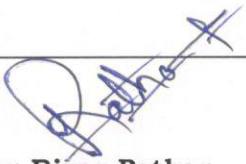


No	Description	Certified by	Instrument ID No	Certificate No	Calibration date	Validity
1	Multi stem Thermometer	GLOBAL TECHNICAL SERVICES	ST9269B	GTS/201008/01-001	08/10/2020	07/10/2021

### Observations Table

No.	Standard Reading (°C)	Mean DUG Reading (°C)	Accuracy Claimed	Uncertainty (±) (°C)
1	2.2	2.276	NOT SPECIFIED	0.666
2	3.1	3.154	"	0.678
3	4.0	4.021	"	0.625
4	6.2	6.0232	"	0.638
5	6.1	6.188	"	0.672

1. Calibration Traceable to National Standards.
2. Overall deviation is within specified accuracy.
3. Result is related only to the item calibrated.
4. Maximum tolerance Permissible is + 1°C & + 5°C whichever is applicable.
5. We will not be liable for any change in calibration data & performance specification on account of malfunctioning of standard / Instrument / equipment due to any damage caused to It after the report, in respect of it being issued.

**REMARK: ACCEPTED**

 <b>Calibrated by: Riyaz Pathan</b>	 <b>Approved &amp; Authorized by: Riyaz Pathan</b>	
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# LiBA CORPORATION

Blood Bank & Laboratory Equipments, NABL Traceability Calibration Services, Air Conditioning Services & Home Appliances.

Distributors of: **SPAN** **TECHSONIC** **SUPER REFRIGERATION**

## CALIBRATION CERTIFICATE

Certificate No: - LTR/LC/SUR/8249.01/21

Date: 25/01/2021

**Equipment** : Digital Temp Thermometer  
**Location** : S R L lab / ICTC  
**User ID** : DVMMCS/DTT/02  
**Make** : Digital Series  
**Sr.No.** : N.A.  
**Equip range** : (-100) °C to 200°C  
**Calibration requested** : 2°C to 6°C  
**Status of Equipment** : **WORKING**  
**Environmental conditions**  
**Ambient temp.** : 25±4 °C  
**Relative Humidity** : ≤ 70% RH  
**Calibrated "On Site" at Customer's address**  
**Name of Customer** : The Dean, Dr V.M.Medical College, Solapur  
**Address of Customer** : Opp Civil Court, Civil Chowk, Near Rang Bhavan, Solapur.  
**Calibration Date** : 25/01/2021  
**Calibration Validity** : 24/01/2022

### Details of Equipment used for Calibration

No	Description	Certified by	Instrument ID No	Certificate No	Calibration date	Validity
1	Multi stem Thermometer	GLOBAL TECHNICAL SERVICES	ST9269B	GTS/201008/01-001	08/10/2020	07/10/2021

### Observations Table

No.	Standard Reading (°C)	Mean DUG Reading (°C)	Accuracy Claimed	Uncertainty (±) (°C)
1	4.0	4.056	NOT SPECIFIED	0.618
2	4.1	4.134	"	0.628
3	2.0	2.023	"	0.637
4	4.2	4.217	"	0.663
5	6.1	6.182	"	0.666

1. Calibration Traceable to National Standards.
2. Overall deviation is within specified accuracy.
3. Result is related only to the item calibrated.
4. Maximum tolerance Permissible is + 1°C & ± 5°C whichever is applicable.
5. We will not be liable for any change in calibration data & performance specification on account of malfunctioning of standard / Instrument / equipment due to any damage caused to It after the report, in respect of it being issued.

REMARK: ACCEPTED

 <b>Calibrated by: Riyaz Pathan</b>	 <b>Approved &amp; Authorized by: Riyaz Pathan</b>	 <b>Seal</b>
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# LiBA CORPORATION

Blood Bank & Laboratory Equipments, NABL Traceability Calibration Services, Air Conditioning Services & Home Appliances.

Distributors of: **SPAN** **TECONIC** *Serving to play it* **SUPER REFRIGERATION**

## CALIBRATION CERTIFICATE

Certificate No: - LTR/LC/SUR/8248.01/21

Date: 25/01/2021

**Equipment** : Digital Temp Thermometer  
**Location** : S R L lab  
**User ID** : DVMMCS/DTT/01  
**Make** : Digital Series  
**Sr.No.** : N.A.  
**Equip range** : (-100) °C to 200°C  
**Calibration requested** : 2°C to 6°C  
**Status of Equipment** : **WORKING**  
**Environmental conditions**  
**Ambient temp.** : 25±4 °C  
**Relative Humidity** : ≤ 70% RH  
**Calibrated "On Site" at Customer's address**  
**Name of Customer** : The Dean, Dr V.M.Medical College, Solapur  
**Address of Customer** : Opp Civil Court, Civil Chowk, Near Rang Bhavan, Solapur.  
**Calibration Date** : 25/01/2021  
**Calibration Validity** : 24/01/2022

### Details of Equipment used for Calibration

No	Description	Certified by	Instrument ID No	Certificate No	Calibration date	Validity
1	Multi stem Thermometer	GLOBAL TECHNICAL SERVICES	ST9269B	GTS/201008/01-001	08/10/2020	07/10/2021

### Observations Table

No.	Standard Reading (°C)	Mean DUG Reading (°C)	Accuracy Claimed	Uncertainty (±) (°C)
1	4.2	4.235	NOT SPECIFIED	0.698
2	5.1	5.162	"	0.699
3	4.0	4.072	"	0.674
4	4.2	4.248	"	0.624
5	6.1	6.123	"	0.678

1. Calibration Traceable to National Standards.
2. Overall deviation is within specified accuracy.
3. Result is related only to the item calibrated.
4. Maximum tolerance Permissible is  $\pm 1^\circ\text{C}$  &  $\pm 5^\circ\text{C}$  whichever is applicable.
5. We will not be liable for any change in calibration data & performance specification on account of malfunctioning of standard / Instrument / equipment due to any damage caused to It after the report, in respect of it being issued.

REMARK: ACCEPTED

 Calibrated by: Riyaz Pathan	 Approved & Authorized by: Riyaz Pathan	
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# GLOBAL TECHNICAL SERVICES

Sec. No.25, Plot No.49/3, L.I.G. Colony, Pradhikaran, Nigdi, Pune - 411044

Email : globaltechnical007@gmail.com

Mob : 9921239827 / 7276470703 / 9028888728



CERTIFICATE NO. : CC-2957

## CALIBRATION CERTIFICATE

<b>1.CUSTOMER</b>	:-	Page No.	:- 1 of 1
Liba Corporation (LTR)		Certificate No.	:- GTS/201008/01-001
51/5,Yemul Vihar Complex,		Date of Received	:- 08.10.2020
Shop No-G-2,North Sadar Bazar,		Date of Calibration	:- 08.10.2020
Solapur-413003		Next Calibration Due On	:- 07.10.2021
Ambient Temp. (°C)	:- 25.5	Issue Date	:- 08.10.2020
Relative Humidity (%RH)	:- 50	Calibration method No.	:- TH-WI-02
Location of calibration	:- In Lab	ULR No	:- CC295720000005798F
Condition of Item	:- Ok		

### 2. Description of Item

Name	:- Thermometer	Range	:- -50 to 300 °C
Sr No	:- ST9269B	Least Count	:- 0.1 °C
Make	:- Eurolab		
Type	:- Digital		

### 3.Details of Equipment used for calibration

Name	Certificate No.	Certified By	ID No.	Calibration Validity
Precision Thermometer With Sensor	NI/2006/002/001	Nishitronics Instrumentation	GTS/PTH/01	01.06.2021

### \*Thermal Calibration

#### 4.Calibration Results

Calibration Points °C	Corrected Standard Reading °C	UUC Reading °C	Error in °C	Expanded Uncertainty in ± °C
-35	-34.82	-35	-0.18	0.80
0	0.00	0	0.00	0.80
50	50.15	50	-0.15	0.80
150	150.26	150	-0.26	0.80

#### Note:

- 1)The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor  $k=2$ , which corresponds to a coverage probability of approximately 95.45% for normal distribution
- 2) This certificate refers only to the particular item submitted for calibration. UUC stands for Unit Under Calibration.
- 3) The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
- 4) Calibration point were selected as per customer specifications.
- 5) This certificate shall not be reproduced, except in full unless written permission for the publication of an approved abstract has been obtained from the Technical Manager of "Global Technical Services, Pune".
- 6) UUC : - diameter : 3 mm & immersion depth : 40 mm

Calibrated By

Calibration Engineer  
D Ballal

RF-55/01



Approved By

Technical Manager  
Swapnil Bhagwat

End of Certificate





# TECHNOCAL



ACCREDITATION FOR MECHANICAL, THERMAL & ELECTRO - TECHNICAL CALIBRATION LABORATORY

CERT. No. CC-2580

## CALIBRATION CERTIFICATE

<b>1. CLIENT'S ADDRESS :-</b> Liba Corporation (LTR) 51/5, Yemul Vihar Complex, Shop No-G-2, North Sadar Bazar,	CRF No. :- CAL/2010/008 Page No. :- 1 of 1 ULR No :- CC255020000000425F Certificate No. :- LC/CAL-2010/08-001 Date of Received / Mode :- 08.10.2020 / By Hand
<b>Environmental Condition</b> Ambient Temp. :- 23.6 °C Relative Humidity :- 51 %RH Location of calibration :- In Lab Condition of Item :- OK	Reference Challen no :- Letter Date of Calibration :- 08.10.2020 Date of Issue certificate :- 08.10.2020 Next Calibration Due On :- 07.10.2021 Calibration method No. :- TECH-M-WI-06

<b>2. Description of Item ( UUC )</b>	
Name :- Tachometer ID/Sr. No. :- S846604 Make & Model :- Kusam Mecco KM-2234BL Type :- Digital	Range :- 0 to 99999 RPM Least Count :- 0.1 RPM Upto 999.9 RPM & 1 RPM above 1000 RPM

<b>3. Detail of Equipment used for calibration</b>	
Name :- Digital Tachometer Make :- Lutron Certificate No. :- M-191001-15-1 Certified By :- Lawkim Motors Group ID/Sr. No. :- TECH/MTM/001 , AC05002 Calibration Validity :- 09/10/2020	

4. Calibration Results :-		Standard Reading	UUC Reading	Error in	Expanded
Calibration Points	RPM	RPM	RPM	RPM	Uncertainty in ± RPM
	16	16.3	16.8	0.5	0.7
	1000	1003	1003	0	2.5
	5000	5005	5009	4	5.9
	10000	10007	10012	5	10.9
	25000	25011	25021	11	16.5

\*Value mentioned above is mean of 5 readings

**Note:**

- 1) The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor  $k=2$ , which corresponds to a coverage probability of approximately 95% for normal distribution
- 2) This certificate refers only to the particular item submitted for calibration. UUC stands for Unit Under Calibration.
- 3) This certificate shall not be reproduced, except in full unless written permission for the publication of an approved abstract has been obtained from the Technical Manager of "Technocal , Mohopada".
- 4) The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
- 5) Calibration point were selected as per customer specifications.

Calibrated By



Calibration Engineer  
Name : Sanjay More

Approved By



Technical Manager  
Name Santosh Sardar

TF-39, REV:00

End of Page

Office : Technocal, Opp. Cipla R3 Colony, Bhagirathi Nivas, Mohopada (Nr. Janata Vidyalaya School), Tal. Khalapur, Dist. Raigad. (MH) 410 222, C/o. Vishwajeet Society, Durgamata Colony, New Rees Chambharli, Po. Mohopada, Tal. Khalapur, Dist. Raigad, SSI No. 27/024/21/00582, Dist. Raigad - Alibaug (MH), Contact : 09370047125/09209293522. E-mail : technocal.ca@gmail.com

S.No. 12/13, Aundh Road, Pawar Nagar,  
Thergaon, Pune - 411 033.  
Website : www.mastertechsystems.in  
Email : service@mastertechsystems.in  
Mobile : +91 9623057200 /8408097666



**MASTERTECH  
SYSTEMS**  
WHEN QUALITY MATTERS

**CALIBRATION CERTIFICATE**

Certificate No. :- 2021/1008/01-01	ULR No. :- CC291120000011708F
Date of Calibration :- 8-Oct-2020	Calibration Due Date :- 7-Oct-2021
1. Clients Name & Address : Liba Corporation (LTR) 51/5, Yemul Vihar Complex, Shop No-G-2, North Sadar Bazar, Solapur-413003	SRF No. :- 2021/1008/01 Date of Received :- 8-Oct-2020 Cal. Cert. Issue Date :- 9-Oct-2020 Condition of UUC :- OK Location of calibration :- In Lab Calibration Procedure No. :- MTS/ET/WI-10

2. Environmental Conditions: Temperature: 23.7 °C Relative Humidity: 53 % Rh

3. Description of UUC

Name :- Timer	Range :- 0 to 99	min
Make :- Racer	Resolution :- 1	min
I.D No. :- 6W-01		
Type :- Digital		

4. Reference Standards used for calibration:

Name :- Digital Time Calibrator
Make / Model :- Saica / SCSTC-01
I.D No./Sr. No. :- MTS/TM-01 / 201805001
Certificate No. :- E20/22/2006/82/01
Calibration Validity :- 19-June-2021
Certified By :- AICL (CC-2638)
Range/Uncertainty :- 0 to 999999.999 sec / 0.02 to 1.3 sec

5. Calibration Results

Electro-Technical Calibration

Sr.No.	Calibration Point	UUC Reading	Standard Reading	Deviation	Expanded Uncertainty
	min	min	min	min	± sec
1	5	5	5.00	0.00	1.50
2	10	10	10.00	0.00	1.50
3	20	20	20.01	-0.01	1.50
4	30	30	30.01	-0.01	1.50
5	60	60	60.01	-0.01	1.50

NOTES:  
 1. The value measured of uuc & standard are mean of 5 reading.  
 2. The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by coverage factor K=2 which corresponds to a coverage probability of approximately 95.45% for normal distribution  
 3. This certificate refers only to the particular UUC submitted for calibration. UUC stands for Unit Under Calibration.  
 4. The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.  
 5. This certificate shall not be reproduced, except in full unless written permission for the publication of an approved abstract has been obtained from "Mastertech Systems" Pune.  
 6. The instruments used for calibration are traceable to National/International standards and their calibrations are valid.

Calibrated By *SC*  
 Mr. Shafik Chorgaste  
 Calibration Engineer

Approved By *[Signature]*  
 Mr. Daulat Shete  
 Technical Manager





# GLOBAL TECHNICAL SERVICES

Sec. No.25, Plot No.49/3, L.I.G. Colony, Pradhikaran, Nigdi, Pune - 411044

Email : globaltechnical007@gmail.com

Mob : 9921239827 / 7276470703 / 902888728



CERTIFICATE NO. : CC-2957

## CALIBRATION CERTIFICATE

<b>1.CUSTOMER</b> :- Liba Corporation (LTR) 51/5, Yemul Vihar Complex, Shop No-G-2, North Sadar Bazar, Solapur-413003	Page No. :- 1 of 2 Certificate No. :- GTS/201008/01-002 Date of Received :- 08.10.2020 Date of Calibration :- 08.10.2020 Next Calibration Due On :- 07.10.2021 Issue Date :- 08.10.2020 Calibration method No. :- MECH-WI-04 ULR No :- CC295720000005799F
Ambient Temp. (°C) :- 24.4 Relative Humidity (%RH) :- 52 Location of calibration :- In Lab Condition of Item :- Ok	

### 2. Description of Item

Name :- Weight Box	Range :- 1g to 200 g
Id No :- LSS/WB -01	Least Count :-
Make :-	

### 3. Details of Equipment used for calibration

Name	Certificate No.	Certified By	ID/Sr. No.	Calibration Validity
Weight Box	HTC/2020/06/742	Hi-Tech Calibration	6806	08.06.2021
Dig. Weighing Balance	NI/GTS/030620/004	Nishitronics Instruments	GTS/WB-01	02.06.2021

### 4. Calibration Results :-

#### \*Mechanical Calibration

Sr.No.	Denomination	Mass value (g)	Uncertainty of measurement ( $\pm$ mg)
9	200 g	199.9981	0.40
8	100 g	99.9988	0.40
7	50 g	50.00088	0.30
6	20 g	19.99967	0.30
5	10 g	9.99970	0.20
4	5 g	4.99994	0.20
3	2 g	1.99983	0.13
2	*2 g	2.00025	0.13
1	1 g	1.00010	0.13





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CERTIFICATE NO. : CC-2957

Certificate No.: GTS/201008/01-002

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Mass Value of all weights are conventional mass values and within the maximum error permissible in "F2" Accuracy class of weights as per OIML 111-1:2004

**Note:**

- 1) The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor  $k=2$ , which corresponds to a coverage probability of approximately 95.45% for normal distribution
- 2) This certificate issued for scientific and industrial purpose
- 3) This certificate refers only to the particular item submitted for calibration
- 4) This certificate shall not be reproduced, except in full unless written permission for the publication of an approved abstract has been obtained from the Technical Manager of "Global technical Services, Pune".
- 5) The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
- 6) The reported mass value are conventional mass ( $M_c$ ) values to be obtain the true mass value use the formula  $M_c = M_t[1 - 1.2(1/d - 1/8000)]$ , where  $d$  = assumed density of test weight in  $kg/cm^3$

Calibrated By

Calibration Engineer

D Ballal

RF-50/00



Approved By

Technical Manager

Swapnil Bhagwat

End of Certificate



## PIPETTE CALIBRATION REPORT

Product code: 4642090  
 Description: Finnpiquette F2 100-1000µl  
 Pipette sn: QW12651  
 Volume: 100 - 1000 µl  
 Nr.of channels: 1  
 Tip: Finntip Flex 1000

Manufacturer: Thermo Fisher Scientific, India Pvt. Ltd., Nasik 422 007  
 Tested by: 829146

Date:	01.11.2019	Time:	11:46:30
Temperature:	25.4 °C	Air Pressure:	941.6 hPa
Z-factor:	1.0041	Humidity:	Moisture trap in use
Balance:	MT SICS XP205		
Balance sn:	B115129036, Calibrated on 23.11.2018		

Volume	100.0 µl	1000.0 µl
1	99.8	999.6
2	100.1	1001.2
3	100.1	1000.1
4	99.5	999.4
5	100.0	999.6

Mean	99.9 µl	999.9 µl
Acc±%	-0.12	-0.01
CV%	0.25	0.07
	PASSED	PASSED

Manufacturer specifications:

Volume:	100 µl	Acc±% 1.00	CV% 0.60
Volume:	1000 µl	Acc±% 0.60	CV% 0.20

Manufacturer specifications meet the requirements of ISO 8655



### CALIBRATION CERTIFICATE

NABL Certificate No CC-2638

ULR No -CC263820000012203F

Calibrated For

**MASTERTECH SYSTEMS**  
S.No-12/13,Colony No-7,Pawar Nagar,  
Aundh Road,Thergaon Pune-411033

Page No. 1 of 2  
Certificate No :- E20/22/2006/82/01  
Date of Received:- 18/06/2020  
Service Req. No. :- L20/1806/01  
Calibration Date :-20-23/06/2020  
Next Due On :-19/06/2021

Calibration Carried Out :- In Lab  
Condition When Received : OK

#### DESCRIPTION AND IDENTIFICATION OF ITEM

Name	: Digital Time Calibrator	Sr. No.	: 201805001
Make	: Saica	ID Code	: MTS/TM-01
Range	: 0 To 999999.999 Sec.	Model No.	: SCSTC-01
Resolution	: 0.001 Sec	Location	: ---

Environmental Condition: - Ambient Temp. : 22.4°C Humidity : 55 % RH

#### EQUIPMENTS USED FOR CALIBRATION

Sr. No.	Name	Certified By	Certificate No.	Validity
1.	Digital Time Calibrator	C & I Calibration Pvt Ltd	C&IJ/CAL/19-12/078	20/12/2020

Calibration Procedure No. : AICLPL/WP/28  
Reference Used For Calibration : IS No.11365

Calibration Results : Attached ANNEXURE

Remarks:1) Calibration traceable to National Standards  
2) Results are related only to the item Calibrated.  
3) This Certificate shall not be reproduced except in full without our prior Permission in writing.

Format No. : AICLPL/F/04

Calibrated By :  
(Technical Assistant)



Authorized By :  
Mr. Vijay Kale  
(Technical Manager)



Date of Calibration	Next Due Date of Calibration	Calibration Certificate No.	Page No.
20-23/06/2020	19/06/2021	E20/22/2006/82/01	2 of 2


### ANNEXURE

#### CALIBRATION RESULTS: -

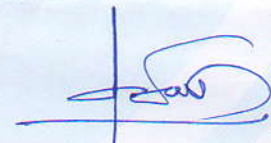
Sr. No.	Calibration Point in sec	Averages Master Reading in Sec	Corresponding Average of UUC Reading in Sec	Error in sec	Expanded Uncertainty at 95.50 % C.L. with k=2
1	1	1.029	1.032	0.003	± 0.02 Sec
2	100	100.035	100.028	-0.007	± 0.15 Sec
3	1000	1000.480	1000.175	-0.305	± 0.27 Sec
4	2000	2000.890	2000.120	-0.77	± 0.58 Sec
5	3600	3600.920	3600.100	-0.82	± 0.58 Sec

Sr. No.	Calibration Point in Hrs	Averages Master Reading in Sec	Corresponding Average of UUC Reading in Sec	Error in Sec	Expanded Uncertainty at 95.50 % C.L. with k=2
1	1	3600.918	3600.090	-0.828	± 0.54 Sec
2	5	18004.390	18000.355	-4.035	± 0.55 Sec
3	10	36008.750	36000.153	-8.597	± 0.60 Sec
4	18	64808.500	64801.316	-7.184	± 0.75 Sec
5	24	86418.205	86402.119	-16.086	± 1.30 Sec

UUC = Unit Under Calibration

Calibrated By :   
(Technical Assistant)



Authorized By :   
Mr. Vijay Kale  
(Technical Manager)



CERTIFICATE NO.  
CC-2294



**Nishitronics  
Instrumentation**

► Service Engineers  
► Calibration Services in Industrial Process Control  
*We work for Customers Satisfaction*

**CALIBRATION CERTIFICATE**

<b>CUSTOMER</b>	:- Global Technical Services Sec. No-25, Plot No-49/3 LIG Colony Pradhikaran Nigdi Pune-411044	Page No.	:- 1 of 1
		Discipline	:- Electro - Technical
		ULR No.	:- ULR-CG2294200000443F
		Certificate No	:- NI/2006/002/002
		Date of issue	:- 03/06/2020
		Date of receipt	:- 30/05/2020
		Date of calibration	:- 02/06/2020
Amb. Temp	:- 25 ± 2 °C	Cal. Req. No.	:- NI/2006/002/002
Rh.	:- 45 to 75%	Next Due Date	:- 01/06/2021
Location of calibration	:- LAB	Parameter	:- RPM
Characteristic and	:- OK	Calibration method no	:- NI / CP / ET / 06
Condition of items			

**Details of Items**

Name	:- Digital Tachometer	Model	:- TM-4005
Location	:- --	Range	:- 2.5 To99999 rpm(non-contct) 2.5 to 19999 rpm(Contact)
Make	:- Metrix	L.C.	:- 0.1 RPM & 1 RPM
ID No.	:- GTS/TM/01	Accuracy	:- Not specified
Sr No.	:- N785275		

**Details of Equipment used for Calibration**

Name	:- DIG.TACHOMETER
Calibrated by	:- INSTOTECH
Certificate No.	:- 2020/0133
Validity	:- 01/06/2021

**OBSERVATION**

**NON-Contact Type**

Cal. Point RPM	Std. Reading RPM	UUC Reading RPM	Error	Expanded Uncertainty
100	100.0	101.3	1.300	± 4.0 RPM,
5000	5000	5003	3.000	± 4.0 RPM,
10000	10000	9997	-3.000	± 5.5 RPM,
20000	20000	19997	-3.000	± 35.5 RPM,
40000	40000	40002	2.000	± 120.0 RPM,
90000	90001	90005	4.000	± 120.0 RPM,

**Contact Type**

Cal. Point RPM	Std. Reading RPM	UUC Reading RPM	Error	Expanded Uncertainty
100	101.0	100.4	-0.600	± 5.5 RPM,
1000	1001	1000	-1.000	± 5.5 RPM,
2500	2502	2499	-3.000	± 5.5 RPM,
3000	3003	3000	-3.000	± 5.5 RPM,
5000	4999	4996	-3.000	± 5.5 RPM,

The reported measurement uncertainty is estimated at a level of confidence of approximately 95 %

**Remarks :-**

- 1) Result are related only to the item calibrated .
- 2) This certificate refers only to the particular items submitted for calibration .
- 3) This certificate shall not be reproduced except in full without our prior permission in writing.
- 4) The calibration results reported in this particular certificate are valid at the time of an under stated condition of measurement.
- 5) Standard used for calibration were traceable to National / International standard.
- 6) Readings given above are as on received condition of an instrument.

Calibrated by

(V. D. Mulik)  
(Technical Assistant)



Authorized Signatory

(V.B.Hingmire) / (S.B.Hingmire)  
(Technical Manager)

Form No. : NI/F/7.8/ET/01

Form Rev. No. : 0

Effective Form Date:20/11/2019

Issue No : 03

Issue Date :20/11/2019