



# RELIABLE TECHNICAL SERVICES

(Division of Reliable Technocare Pvt. Ltd.)

"RELIABLE HOUSE" 497/2834-35, Sant Tukaram Nagar,  
Pimpri, Pune - 411018. MH, India. Telefax : 020-27421170  
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Email : reliable1010@gmail.com/reliabletechnocare@gmail.com  
Web. : www.reliable.world



## CALIBRATION CERTIFICATE

<b>1.CUSTOMER</b> :- <b>Vishwaraj Hospital</b> Solapur Road,Rajbaug, Loni kalbhor,Pune - 412201 Temperature (°C) :- 23.3 Relative Humidity (%RH) :- 49.1 Condition of Item :- OK Atmospheric Pressure :- 944.7 mbar	<b>Page No.</b> :- 1 of 1 <b>NABL Accreditation No.</b> :- CC-2927 <b>Certificate No.</b> :- 22.02.02.002 <b>Date of Received</b> :- 02.02.2022 <b>Date of Calibration</b> :- 02.02.2022 <b>Next Calibration Due On</b> :- 01.02.2023 <b>Location of calibration</b> :- In lab <b>Calibration method No.</b> :- RTS-WI-19 <b>Date of Issue</b> :- 03.02.2022 <b>ULR No.</b> :- CC292722000001160F
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<b>2. Description of Item</b>	
<b>Name</b> :- Micro-Pipette <b>Id/Sr No</b> :- PW03608 <b>Make</b> :- Thermo Scientific	<b>Range</b> :- 10 to 100 µl <b>Resolution</b> :- 0.2 µl

<b>3.Detail of Equipment used for calibration</b>	
<b>Name</b> :- WEIGHING BALANCE <b>Certificate No.</b> :- 21.11.IH.002 <b>Certified By</b> :- RTS <b>ID/Sr. No.</b> :- RTS-WBL-08 <b>Range</b> :- 5.1 g <b>Uncertainty</b> :- ±0.004 mg <b>Calibration Validity</b> :- 01.11.2022	

**Discipline** :- Mechanical Calibration **Group 0 Mass and Volume-Volume**

<b>4.Calibration Results</b> :-					
Sr.No.	Volume in µl	Observed mean volume at 27 °C (ref. Temp) µl	Systematic Error µl	Random Error µl	Expanded Uncertainty ± µl
1	10.0	10.048	0.048	0.006	0.06
2	50.0	50.296	0.296	0.004	0.06
3	100.0	100.564	0.564	0.007	0.06

**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) Barometric Pressure 950 mbar. Volumes are reported at 20°C.
- 3) This certificate refers only to the particular item submitted for calibration.
- 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.
- 6) 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 "Reliable Technical Services, Pune".
- 7) The Standard used are traceable to National / International Standard.
- 8)Calibration of volumetric measures done by any accredited laboratories is meant for scientific and industrial purpose only.

Calibrated By  
*V. Salunke*  
Calibration Engineer  
V.Salunke



Approved By  
*Sm*  
Technical Manager  
SACHIN A. MHASAWADE





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## CALIBRATION CERTIFICATE

<b>1.CUSTOMER</b> :- <b>Vishwaraj Hospital</b> Solapur Road, Rajbaug, Loni kalbhori, Pune - 412201 Temperature (°C) :- 23.2 Relative Humidity (%RH) :- 50.3 Condition of Item :- OK Atmospheric Pressure :- 945.2 mbar	<b>Page No.</b> :- 1 of 1 <b>NABL Accreditation No.</b> :- CC-2927 <b>Certificate No.</b> :- 22.02.02.001 <b>Date of Received</b> :- 02.02.2022 <b>Date of Calibration</b> :- 02.02.2022 <b>Next Calibration Due On</b> :- 01.02.2023 <b>Location of calibration</b> :- In lab <b>Calibration method No.</b> :- RTS-WI-19 <b>Date of Issue</b> :- 03.02.2022 <b>ULR No.</b> :- CC292722000001159F
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### 2. Description of Item

<b>Name</b> :- Micro-Pipette	<b>Range</b> :- 100 to 1000 µl
<b>Id/Sr No</b> :- QW11353	<b>Resolution</b> :- 1 µl
<b>Make</b> :- Thermo Scientific	

### 3.Detail of Equipment used for calibration

<b>Name</b> :- WEIGHING BALANCE
<b>Certificate No.</b> :- 21.11.IH.002
<b>Certified By</b> :- RTS
<b>ID/Sr. No.</b> :- RTS-WBL-08
<b>Range</b> :- 5.1 g
<b>Uncertainty</b> :- ±0.004 mg
<b>Calibration Validity</b> :- 01.11.2022

**Discipline** :- Mechanical Calibration **Group** Mass and Volume-Volume

### 4.Calibration Results :-

Sr.No.	Volume in µl	Observed mean volume at 27 °C (ref. Temp) µl	Systematic Error µl	Random Error µl	Expanded Uncertainty ± µl
1	100	100.562	0.562	0.005	0.06
2	500	503.311	3.311	0.006	0.08
3	1000	1004.600	4.600	0.004	0.08

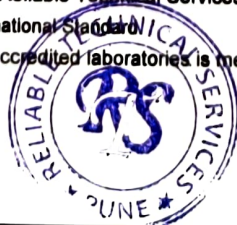
#### Note:

- 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) Barometric Pressure 950 mbar. Volumes are reported at 20°C.
- 3) This certificate refers only to the particular item submitted for calibration.
- 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.
- 6) 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 "Reliable Technical Services, Pune".
- 7) The Standard used are traceable to National / International Standard.
- 8) Calibration of volumetric measures done by any accredited laboratories is meant for scientific and industrial purpose only.

Calibrated By

V. Salunke

Calibration Engineer  
V.Salunke



Approved By

S.M.

Technical Manager  
SACHIN A. MHASAWADE

RF-21, R0





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## CALIBRATION CERTIFICATE

<b>1. CUSTOMER</b> :- <b>Vishwaraj Hospital</b> Solapur Road, Rajbaug, Loni kalbhor, Pune - 412201 Temperature (°C) :- 23.7 Relative Humidity (%RH) :- 49.2 Condition of Item :- OK Atmospheric Pressure :- 944.4 mbar	Page No. :- 1 of 1 NABL Accreditation No. :- CC-2927 Certificate No. :- 22.01.31.001 Date of Received :- 31.01.2022 Date of Calibration :- 31.01.2022 Next Calibration Due On :- 30.01.2023 Location of calibration :- In lab Calibration method No. :- RTS-WI-19 Date of Issue :- 31.01.2022 ULR No. :- CC292722000000201F
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### 2. Description of Item

Name :- Micro-Pipette	Range :- 100 to 1000 µl
Id. No :- MW17749	Resolution :- 5 µl
Make :- Thermoscientific	Location :- Pathology

### 3. Detail of Equipment used for calibration

Name :- WEIGHING BALANCE
Certificate No. :- 21.11.IH.002
Certified By :- RTS
ID/Sr. No. :- RTS-WBL-08
Range :- 5.1 g
Uncertainty :- ±0.004 mg
Calibration Validity :- 01.11.2022

Discipline :- Mechanical Calibration

Group :- Mass and Volume-Volume

### 4. Calibration Results

Sr.No.	Volume in µl	Observed mean volume at 27 °C (ref. Temp) µl	Systematic Error µl	Random Error µl	Expanded Uncertainty ± µl
1	100	100.674	0.674	0.004	0.06
2	500	502.702	2.702	0.007	0.08
3	1000	1006.642	6.642	0.007	0.08

#### Note:

- 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
- Barometric Pressure 950 mbar. Volumes are reported at 20°C.
- This certificate refers only to the particular item submitted for calibration.
- The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
- Calibration point were selected as per customer specifications.
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Calibrated By

*V. Salunke*  
Calibration Engineer  
V. Salunke



Approved By

*sm*  
Technical Manager  
SACHIN A. MHASAWADE





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RIR CERTIFICATION  
ISO 9001:2015



ACCREDITED BY  
IAS, USA  
MSC B-127



CC-2927

## CALIBRATION CERTIFICATE

<b>1. CUSTOMER</b> :- <b>Vishwaraj Hospital</b> Solapur Road, Rajbaug, Loni kalbhor, Pune - 412201 Temperature (°C) :- 23.5 Relative Humidity (%RH) :- 49.1 Condition of Item :- OK Atmospheric Pressure :- 944.9 mbar	Page No. :- 1 of 1 NABL Accreditation No. :- CC-2927 Certificate No. :- 22.01.31.002 Date of Received :- 31.01.2022 Date of Calibration :- 31.01.2022 Next Calibration Due On :- 30.01.2023 Location of calibration :- In lab Calibration method No. :- RTS-WI-19 Date of Issue :- 31.01.2022 ULR No. :- CC292722000000202F
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<b>2. Description of Item</b>	
Name :- Micro-Pipette Id. No :- MW17530 Make :- Thermoscientific	Range :- 10 to 100 µl Resolution :- 1 µl Location :- Pathology

<b>3. Detail of Equipment used for calibration</b>	
Name :- WEIGHING BALANCE Certificate No. :- 21.11.IH.002 Certified By :- RTS ID/Sr. No. :- RTS-WBL-08 Range :- 5.1 g Uncertainty :- ±0.004 mg Calibration Validity :- 01.11.2022	

Discipline :- Mechanical Calibration	Group :- Mass and Volume-Volume
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<b>4. Calibration Results</b> :-					
Sr.No.	Volume in µl	Observed mean volume at 27 °C (ref. Temp) µl	Systematic Error µl	Random Error µl	Expanded Uncertainty ± µl
1	10	10.047	0.047	0.005	0.06
2	50	50.258	0.258	0.005	0.06
3	100	100.637	0.637	0.006	0.06

**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) Barometric Pressure 950 mbar. Volumes are reported at 20°C.
- 3) This certificate refers only to the particular item submitted for calibration.
- 4) The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
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- 7) The Standard used are traceable to National / International Standard.
- 8) Calibration of volumetric measures done by any accredited laboratories is meant for scientific and industrial purpose only.

Calibrated By  
*v salunke*  
Calibration Engineer  
V. Salunke



Approved By  
*sm*  
Technical Manager  
SACHIN A. MHASAWADE





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<b>1.CUSTOMER</b> :- <b>Vishwaraj Hospital</b> Solapur Road,Rajbaug, Loni kalbhor,Pune - 412201 Temperature (°C) :- 23.8 Relative Humidity (%RH) :- 49.9 Condition of Item :- OK Atmospheric Pressure :- 944.6 mbar	Page No. :- 1 of 1 NABL Accreditation No. :- CC-2927 Certificate No. :- 22.01.31.003 Date of Received :- 31.01.2022 Date of Calibration :- 31.01.2022 Next Calibration Due On :- 30.01.2023 Location of calibration :- In lab Calibration method No. :- RTS-WI-19 Date of Issue :- 31.01.2022 ULR No. :- CC292722000000203F
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### 2. Description of Item

Name :- Micro-Pipette	Range :- 1000 $\mu$ l
Id. No :- MW19503	Resolution :- Fixed
Make :- Thermoscientific	Location :- Pathology

### 3.Detail of Equipment used for calibration

Name :- WEIGHING BALANCE
Certificate No. :- 21.11.IH.002
Certified By :- RTS
ID/Sr. No. :- RTS-WBL-08
Range :- 5.1 g
Uncertainty :- $\pm 0.004$ mg
Calibration Validity :- 01.11.2022

Discipline :- Mechanical Calibration **Group :- Mass and Volume-Volume**

### 4.Calibration Results :-

Sr.No.	Volume in $\mu$ l	Observed mean volume at 27 °C (ref. Temp) $\mu$ l	Systematic Error $\mu$ l	Random Error $\mu$ l	Expanded Uncertainty $\pm$ $\mu$ l
1	1000	1005.952	5.952	0.008	0.08

#### 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) Barometric Pressure 950 mbar. Volumes are reported at 20°C.
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Calibrated By

*V. Salunke*  
Calibration Engineer  
V. Salunke



Approved By

*S.M.*  
Technical Manager  
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<b>2. Description of Item</b>	
Name :- Micro-Pipette Id. No :- 4538400893 Make :- VI221	Range :- 145 µl Resolution :- Fixed Location :- Microbiology

<b>3.Detail of Equipment used for calibration</b>	
Name :- WEIGHING BALANCE Certificate No. :- 21.11.IH.002 Certified By :- RTS ID/Sr. No. :- RTS-WBL-08 Range :- 5.1 g Uncertainty :- ±0.004 mg Calibration Validity :- 01.11.2022	

**Discipline** :- Mechanical Calibration **Group** :- Mass and Volume-Volume

<b>4.Calibration Results</b> :-					
Sr.No.	Volume in µl	Observed mean volume at 27 °C (ref. Temp) µl	Systematic Error µl	Random Error µl	Expanded Uncertainty ± µl
1	145	145.710	0.710	0.003	0.08

**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) Barometric Pressure 950 mbar. Volumes are reported at 20°C.
- 3) This certificate refers only to the particular item submitted for calibration.
- 4) The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
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Calibrated By

*V. Salunke*  
Calibration Engineer  
V. Salunke



Approved By

*S.M.*  
Technical Manager  
SACHIN A. MHASAWADE

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### 2. Description of Item

Name :- Micro-Pipette	Range :- 280 µl
Id. No :- 19028558	Resolution :- Fixed
Make :- VI222	Location :- Microbiology

### 3.Detail of Equipment used for calibration

Name :- WEIGHING BALANCE
Certificate No. :- 21.11.IH.002
Certified By :- RTS
ID/Sr. No. :- RTS-WBL-08
Range :- 5.1 g
Uncertainty :- ±0.004 mg
Calibration Validity :- 01.11.2022

Discipline :- Mechanical Calibration **Group** :- Mass and Volume-Volume

### 4.Calibration Results :-

Sr.No.	Volume in µl	Observed mean volume at 27 °C (ref. Temp) µl	Systematic Error µl	Random Error µl	Expanded Uncertainty ± µl
1	280	281.451	1.451	0.006	0.08

#### Note:

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Calibrated By

Approved By


*V. Salunke*  
Calibration Engineer  
V. Salunke



*S. Mhasawade*  
Technical Manager  
SACHIN A. MHASAWADE

RF-21, R0





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Page No : 1 of 2

Reliable Technical Services  
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Certificate No. : CC-2927

Date of Received : 21/11/2022

Reliable House, 497/2834-35, Sant Tukaram Nagar, Pimpri, Pune-411018

Temperature (°C) : 22.5

Relative Humidity (%RH) : 53

Date of Calibration : 02/11/2021

Next Calibration Due On : 01/11/2022

Calibration method No. : R1TS-WI-18


Condition of item : OK

Location of calibration : In Lab

Date of issue : 02/11/2021

ULR No. : CC2927/1000005544F

1. CUSTOMER				
Name : Reliable Technical Services				
Address : Reliable House, 497/2834-35, Sant Tukaram Nagar, Pimpri, Pune-411018				
Date of Received : 21/11/2022				
Certificate No. : CC-2927				
Reliable House, 497/2834-35, Sant Tukaram Nagar, Pimpri, Pune-411018				
Temperature (°C) : 22.5				
Relative Humidity (%RH) : 53				
Date of Calibration : 02/11/2021				
Next Calibration Due On : 01/11/2022				
Calibration method No. : R1TS-WI-18				
Condition of item : OK				
Location of calibration : In Lab				
Date of issue : 02/11/2021				
ULR No. : CC2927/1000005544F				
2. Description of Item				
Name	- Weighing Balance			
ID No	- R1TS-WBL-08			
Make/Model	- Radweg/MVAS 4Y			
Type	- Digital			
SN No	- 850744			
3. Detail of Equipment used for calibration				
Name : NPL Accreditation No. : CC-2927				
Date of Calibration : 02/11/2021				
Next Calibration Due On : 01/11/2022				
Calibration method No. : R1TS-WI-18				
Condition of item : OK				
Location of calibration : In Lab				
Date of issue : 02/11/2021				
ULR No. : CC2927/1000005544F				
4. Calibration Results				
Description : Mechanical Calibration				
Calibration Validity : 27/10/2023				
Range : -1 mg to 200 g				
Uncertainty : As Per Traceability				
ID/Sr. No. : R1TS-WB-06				
Certified By : NSTAR				
Certificate No. : NC-486				
Name : SID Weight Box				
1. REPEATABILITY OF MEASUREMENTS				
LOAD	REPEATABILITY OF MEASUREMENT	MAX DIFFERENCE BETWEEN SUCCESSIVE MEASUREMENTS		
5	g	g		
5	0.00001	0.00001		
2.5	0.00000	0.00001		
II. CORRECTION FOR BALANCE INDICATION (LINEARITY TEST)				
LOAD	CERTIFIED MASS OF STANDARD	OBSERVED ON UUC	CORRECTION	UNCERTAINTY OF WEIGHING (S)
5	g	g	g	g
5	4.999993	5.00007	0.00008	0.004
1	1.999987	2.00005	0.00006	0.004
0.5	0.999988	1.00003	0.00004	0.004
0.2	0.500002	0.50001	0.00001	0.004
0.1	0.200005	0.20002	0.00002	0.004
0.05	0.100009	0.10002	0.00001	0.004
0.01	0.049987	0.05001	0.00002	0.004
0.005	0.010002	0.01000	0.00000	0.004
0.002	0.005006	0.00500	-0.00001	0.004
0.001	0.001016	0.00100	-0.00002	0.004
The overall uncertainty of the balance is (E <sub>rel</sub> ) 0.000012g				
III. OFF CENTER LOADING TEST				



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Certificate No. : CC-2927

The Hysteresis in the Electronic Weighing Balance was found to be 0.00001 %

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) When the sign of the correction is positive (+) the correction value should be added to the balance reading to give the correct mass value of the test weight & when it is negative (-) the correction value should be subtracted from it

3) Any correction for the Air buoyancy has to be calculated assuming that the object being weighed is balanced against a hypothetical weight of density (7850 ± 140 kg/m<sup>3</sup>). (k=2) for Stainless Steel Weights in air of measured density

4) This certificate refers only to the particular item submitted for calibration

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6) The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement

7) The Standard used are traceable to National / International Standard

8) The calibration certificate issued for weighing balance used for scientific or industrial purposes only

9) The above errors are within the maximum permissible error as per Clause 3.5.1 table 6 of OIML Recommendation No. 76-1 Edition 2008 (E)

Calibrated By : *[Signature]*

Calibration Engineer : V. Sainuke

Technical Manager : Sachin A. Maswade

Approved By : *[Signature]*

1. CUSTOMER				
Name : Reliable Technical Services				
Address : Reliable House, 497/2834-35, Sant Tukaram Nagar, Pimpri, Pune-411018				
Date of Received : 21/11/2022				
Certificate No. : CC-2927				
Reliable House, 497/2834-35, Sant Tukaram Nagar, Pimpri, Pune-411018				
Temperature (°C) : 22.5				
Relative Humidity (%RH) : 53				
Date of Calibration : 02/11/2021				
Next Calibration Due On : 01/11/2022				
Calibration method No. : R1TS-WI-18				
Condition of item : OK				
Location of calibration : In Lab				
Date of issue : 02/11/2021				
ULR No. : CC2927/1000005544F				
2. Description of Item				
Name	- Weighing Balance			
ID No	- R1TS-WBL-08			
Make/Model	- Radweg/MVAS 4Y			
Type	- Digital			
SN No	- 850744			
3. Detail of Equipment used for calibration				
Name : NPL Accreditation No. : CC-2927				
Date of Calibration : 02/11/2021				
Next Calibration Due On : 01/11/2022				
Calibration method No. : R1TS-WI-18				
Condition of item : OK				
Location of calibration : In Lab				
Date of issue : 02/11/2021				
ULR No. : CC2927/1000005544F				
4. Calibration Results				
Description : Mechanical Calibration				
Calibration Validity : 27/10/2023				
Range : -1 mg to 200 g				
Uncertainty : As Per Traceability				
ID/Sr. No. : R1TS-WB-06				
Certified By : NSTAR				
Certificate No. : NC-486				
Name : SID Weight Box				
1. REPEATABILITY OF MEASUREMENTS				
LOAD	REPEATABILITY OF MEASUREMENT	MAX DIFFERENCE BETWEEN SUCCESSIVE MEASUREMENTS		
5	g	g		
5	0.00001	0.00001		
2.5	0.00000	0.00001		
II. CORRECTION FOR BALANCE INDICATION (LINEARITY TEST)				
LOAD	CERTIFIED MASS OF STANDARD	OBSERVED ON UUC	CORRECTION	UNCERTAINTY OF WEIGHING (S)
5	g	g	g	g
5	4.999993	5.00007	0.00008	0.004
1	1.999987	2.00005	0.00006	0.004
0.5	0.500002	0.50001	0.00001	0.004
0.2	0.200005	0.20002	0.00002	0.004
0.1	0.100009	0.10002	0.00001	0.004
0.05	0.049987	0.05001	0.00002	0.004
0.01	0.010002	0.01000	0.00000	0.004
0.005	0.005006	0.00500	-0.00001	0.004
0.002	0.001016	0.00100	-0.00002	0.004
The overall uncertainty of the balance is (E <sub>rel</sub> ) 0.000012g				
III. OFF CENTER LOADING TEST				





**RELIABLE TECHNICAL SERVICES**  
(Division of Reliable Technocare Pvt. Ltd.)

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CC-2927

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