



CENTRAL LABORATORIES DEPARTMENT
CALIBRATION UNIT
ELECTRONIC BALANCE

VERIFICATION REPORT
N° : 33218-16-11-1431

Company : **REAL TECHNOLOGIES**
P.O.Box: 55760
Doha - Qatar

Instrument :
Manufacturer : Cardinal DETECTO (USA)
Model : 204
Serial N° : E08314-0115
Sample reference: 2016-4021
Identification : 0
Capacity : 150000 / / g
Verif. scale interval: 20 / / g

Verification Conditions

Procedure : 31428-003 V1.02
Done based on OIML 76-1(2006)

Environmental Conditions :

Temperature : 24.5°C à 24.6 °C
HR% : 57 Patm : 1015 hPa
Verification date : 20-11-2016
Issued Date : 27-11-2016

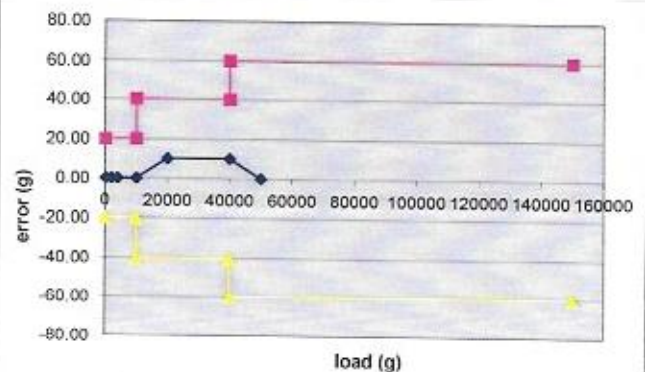
Operator : Nasser

REPEATABILITY	
MASS	ERROR
10000	0
	0
	0
	0
	0

ECCENTRICITY		
POSITION	MASS	ERROR
1	10000	0
2		0
3		0
4		0
center		0

1	2
4	3

ACCURACY / LINEARITY		
MASS	MEAN ERROR CORRECTED	MPE
200	0	20
2000	0	20
4000	0	20
10000	0	20
20000	10	40
40000	10	40
50000	0	60



Comments :

VERIFICATION RESULTS

REPEATABILITY **PASS**
ECCENTRICITY **PASS**
ACCURACY / LINEARITY **PASS**

without Adjustment

Capacity : 150000 / / g
Verif. scale interval: 20 / / g
Class NAWI III

VERIFICATION : : Conformity based on OIML R76-1 criteria (see scale interval value)without taking in to consideration standard mass uncertainty

TRACEABILITY : 1 mg-1 kg sn40806776 CC114608 10/19/2011
5 kg sn30601403 CC114609 10/03/2011
10 kg sn30700022 CC114604 10/04/2011
2 kg sn15829531 CC114602 09/28/2011
10 kg sn17029415 CC114596 09/28/2011
2 kg sn30900144 CC114612 10/02/2011
5 kg sn40238348 CC114607 09/28/2011
10 kg sn30700020 CC114605 10/04/2011
5 kg sn16929247 CC114601 09/28/2011

Authorized by :

Approved by :

Unit Head



Eng. Salah Al-Rumaihi
Director of Central Laboratories Dept.



وزارة البيئة
Ministry of Environment

CENTRAL LABORATORIES DEPARTMENT
CALIBRATION UNIT
ELECTRONIC BALANCE

VERIFICATION REPORT
N° : 33218-16-11-1427

Company : Real Technologies Equipments Supply & Service
P.O.Box: 55760
Doha - Qatar

Instrument :
Manufacturer : CAS CORPORATION
Model : SW-1W
Serial N° : 161051994
Sample reference: 2016-4017
Identification : 0
Capacity : 2500 / 5000 / g
Verif. scale interval: 1 / 2 / g

Verification Conditions
Procedure : 31428-003 V1.02
Done based on OIML 76-1(2006)
Environmental Conditions :
Temperature : 24.9°C à 25 °C
HR% : 55 Patm : 1015 hPa
Verification date : 20-11-2016
Issued Date : 21-11-2016

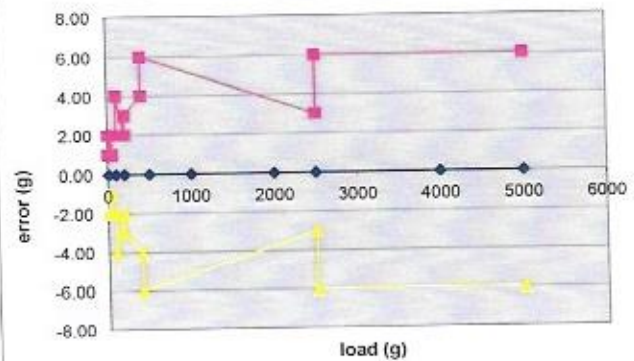
Operator : Nasser

REPEATABILITY	
MASS	ERROR
2000	0
	0
	0
	0
	0

ECCENTRICITY		
POSITION	MASS	ERROR
1	2000	0
2		0
3		0
4		0
center		0

1	2
4	3

ACCURACY / LINEARITY		
MASS	MEAN ERROR CORRECTED	MPE
10	0	1
100	0	1
200	0	1
500	0	1
1000	0	2
2000	0	2
2500	0	3
4000	0	4
5000	0	6



Comments :

VERIFICATION RESULTS

REPEATABILITY **PASS**
ECCENTRICITY **PASS**
ACCURACY / LINEARITY **PASS**

without Adjustment

Capacity : 2500 / 5000 / g
Verif. scale interval: 1 / 2 / g
Class NAWI IIII

VERIFICATION : : Conformity based on OIML R76-1 criteria (see scale interval value)without taking in to consideration standard mass uncertainty

TRACEABILITY : 1 mg-1 kg sn40806776 CC114608 10/19/2011
2 kg sn15829531 CC114602 09/28/2011

2 kg sn30900144 CC114612 10/02/2011
5 kg sn30601403 CC114609 10/03/2011

Authorized by :

Unit Head



Approved by :

Eng. Salah Al-Rumaihi
Director of Central Laboratories Dept.



MINISTRY OF ENVIRONMENT
Central Laboratories Department

Calibration

CALIBRATION OF WEIGHTS

Certificate No. : W 111

Issue Date : 16-11-2016
Expiry Date : 16-11-2017

Company : Real Technologies Equipments Supply & Service
P.O. Box 55760
Doha – Qatar

C.R. No. : 86920 Tel: 44436750 Fax: 44413980

- Details : 1) 1 No. 20 kg cast iron weight (Rectangular Bar Shape)
Serial No. 420211
- 2) 2 Nos. 10 kg cast iron weights (rectangular bar shape)
Serial No. 410111, 410110
- 3) 1 No. 5 kg cast iron weight (rectangular bar shape)
Serial No. 405510

The above weights were verified as accurate using standard weights.

Traceability : *Standard weights are traceable to Qatar Armed Forces Calibration Center.*

Authorized by:

Approved by:

Eman Al Tamimi
Head of Section
(Lab Ref. No. 2016/4022, 4023, 4024)

Salah Salem Al Rumaihi
Director of Central Laboratories





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Ministry of Environment

CENTRAL LABORATORIES DEPARTMENT
CALIBRATION UNIT
ELECTRONIC BALANCE

VERIFICATION REPORT
N° : 33218-16-11-1430

Company : **REAL TECHNOLOGIES**
P.O.Box: 55760
Doha - Qatar

Instrument :
Manufacturer : mm
Model : MW-25
Serial N° : 7525055004
Sample reference: 2016-4020
Identification : 0
Capacity : 25000 / / g
Verif. scale interval: 2 / / g

Verification Conditions

Procedure : 31428-003 V1.02
Done based on OIML 76-1(2006)
Environmental Conditions :
Temperature : 24.9°C à 24.9 °C
HR% : 52 Patm : 1015 hPa
Verification date : 20-11-2016
Issued Date : 27-11-2016

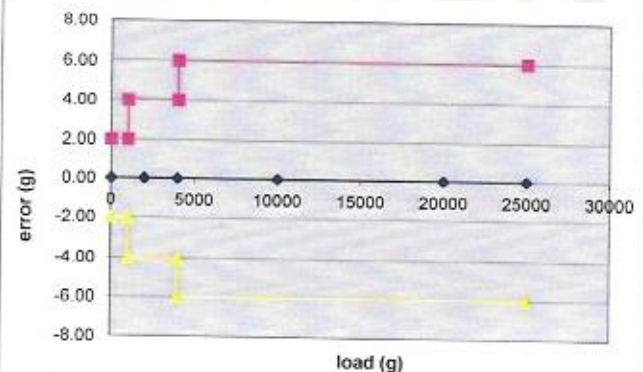
Operator : Nasser

REPEATABILITY	
MASS	ERROR
10000	0
	0
	0
	0
	0

ECCENTRICITY		
POSITION	MASS	ERROR
1	10000	0
2		-2
3		-2
4		0
center		0

1	2
4	3

ACCURACY / LINEARITY		
MASS	MEAN ERROR CORRECTED	MPE
20	0	2
2000	0	2
4000	0	2
10000	0	2
20000	0	4
25000	0	4



Comments :

VERIFICATION RESULTS

REPEATABILITY **PASS**
ECCENTRICITY **PASS**
ACCURACY / LINEARITY **PASS**

without Adjustment

Capacity : 25000 / / g
Verif. scale interval: 2 / / g
Class NAWI III

VERIFICATION : : Conformity based on OIML R76-1 criteria (see scale interval value)without taking in to consideration standard mass uncertainty

TRACEABILITY : 1 mg-1 kg sn40806776 CC114608 10/19/2011
5 kg sn30601403 CC114609 10/03/2011
10 kg sn30700022 CC114604 10/04/2011

2 kg sn30900144 CC114612 10/02/2011
5 kg sn40238348 CC114607 09/28/2011

Authorized by :

Unit Head



Approved by :

Eng. Salah Al-Rumaihi
Director of Central Laboratories Dept.



TISCO



ISO/IEC 17025
ANSI/NCSL Z540-1
ANSI/NCSL Z540.3

Calibration Lab No.: AC-2018

TEYSEER INDUSTRIAL SUPPLIES AND SERVICES CO. W.L.L.

P.O. Box: 40523 St. No. 11 Gate No. 74 Bldg. No. 163
Industrial Area, Doha State of Qatar

Tel: (974) 44585400 Fax: (974) 44607637

Certificate of Calibration

Print Date: 01-Dec-2016

Cert No. 512200812614441

Customer:

REAL TECHNOLOGIES EQUIPMENTS SUPPLY
DOHA QATAR

Work Order No. : QA-10028828

Cal ID No. : N423239

Equipment ID : N/A

Equipment Type: STANDARD WEIGHT

Manufacturer : N/A

Model No. : CLASS F1

Range / Size : 20 kg

Temp/RH : 21°C / 49 %

Purchase Order No. : CAS

Serial No. : N423239

Department : N/A

Performed By : CHRISTIAN BUCAYON

Received Condition : IN TOLERANCE

Returned Condition : IN TOLERANCE

Calibration Date : 30-Nov-2016

Calibration Interval : 12 MONTHS

Calibration Due Date : 30-Nov-2017

Calibration Notes:

Weights Class = F1

Tolerance Specification as per OIML Standards

Measurement results are indicated value of calibration standards compared to UUT.

Reference Instruments Used in Calibration

I.D.	Description.	Model No.	Serial No.	Manufacturer	Cal. Due Date	Traceability No.
QA-TW-01	1MG-10KG TEST WEIGHT SET	OIML E1 (1-SERIES) / ASTM C1 (3-SERIES)	PH2090	CHANGZHOU FUYUE WEIGHT CO LTD	Dec 4, 2018	2068624A
QA-PB-03	PRECISION BALANCE	APP35.X2	475522	RADWAG	Dec 26, 2016	222008122783899

Procedures Used in Calibration

Procedure Name

Description

MPC-00151

Class Weights, OIML-M2, Circular 3-C, Circular 5-F, 1-HBIOS 1-F, E617, CCI 2000, June-17-2016 rev02

Calibration Performed By:

CHRISTIAN BUCAYON

Calibration Technician



DHANA KADIRMANICKAM

QA/QC Inspector

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty of measurement has been determined in accordance with EA's Publication and NIST Technical Note 1297, 1994 Edition. Services rendered comply with ISO 17025:2005, ANSINCSL Z540-1, ANSINCSL Z540.3, MPC Quality Manual, MPC CSD and with customer purchase order instructions.

Calibration cycles and resulting due dates were submitted/approved by the customer. Any number of factors may cause an instrument to drift out of tolerance before the next scheduled calibration. Recalibration cycles should be based on frequency of use, environmental conditions and customer's established systematic accuracy. The information on this report, pertains only to the instrument identified.

All standards are traceable to SI through the National Institute of Standards and Technology (NIST) and/or recognized national or international standards laboratories. Services rendered include proper manufacturer's service instruction and are warranted for no less than thirty (30) days. This report may not be reproduced in part or in a whole without the prior written approval of the issuing MPC lab.



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 P.O. Box: 40523 St. No. 11 Gate No. 74 Bldg. No. 163
 Industrial Area, Doha State of Qatar
 Tel: (974) 44585400 Fax: (974) 44607637

Certificate of Calibration

Print Date: 01-Dec-2016

Cert No. 512200812614436

Customer:

REAL TECHNOLOGIES EQUIPMENTS SUPPLY
 DOHA QATAR

Work Order No. : QA-10028828
 Cal ID No. : N408111
 Equipment ID : N/A
 Equipment Type: VOLUMETRIC BEAKER
 Manufacturer : HGWW
 Model No. : N/A
 Range / Size : 1000 mL
 Temp/RH : 20.8°C / 54 %

Purchase Order No. : CAS
 Serial No. : N408111
 Department : N/A
 Performed By : CHRISTIAN BUCAYON
 Received Condition : IN TOLERANCE
 Returned Condition : IN TOLERANCE
 Calibration Date : 30-Nov-2016
 Calibration Interval : 12 MONTHS
 Calibration Due Date : 30-Nov-2017

Calibration Notes:

The results of calibration are given on the attached calibration data.

Reference Instruments Used in Calibration

I.D.	Description.	Model No.	Serial No.	Manufacturer	Cal. Due Date	Traceability No.
Q560244	BAROMETRIC PRESSURE DATALOGGER	SD700	Q560244	EXTECH INSTRUMENTS	Mar 24, 2017	222200812298522
QA-GT-01	GLASS THERMOMETER		N/A	N/A	Feb 22, 2017	222008122415927
QA-TW-01	1MG-10KG TEST WEIGHT SET	OIML E1 (1-SERIES) / ASTM C1 (3-SERIES)	PH2090	CHANGZHOU FUYUE WEIGHT CO LTD	Dec 4, 2018	2068624A
QA-PB-01	PRECISION BALANCE	PS 8000/X	403130/13	RADWAG	Dec 27, 2016	222008122784013

Procedures Used in Calibration

Procedure Name	Description
MPC-00079	Pipettes, General, April-11-2016 rev02

Calibration Performed By:

CHRISTIAN BUCAYON
 Calibration Technician



DHANA KADIRMANICKAM
 QA/QC Inspector

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty of measurement has been determined in accordance with EA's Publication and NIST Technical Note 1297, 1994 Edition. Services rendered comply with ISO 17025:2005, ANSI/NCSL Z540-1, ANSI/NCSL Z540.3, MPC Quality Manual, MPC CSD and with customer purchase order instructions.

Calibration cycles and resulting due dates were submitted/approved by the customer. Any number of factors may cause an instrument to drift out of tolerance before the next scheduled calibration. Recalibration cycles should be based on frequency of use, environmental conditions and customer's established systematic accuracy. The information on this report, pertains only to the instrument identified.

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 Industrial Area, Doha State of Qatar
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Certificate of Calibration

Print Date: 01-Dec-2016

Cert No. 512200812614427

Customer:

REAL TECHNOLOGIES EQUIPMENTS SUPPLY
 DOHA QATAR

Work Order No. : QA-10028828

Cal ID No. : N408110

Equipment ID : N/A

Equipment Type: VOLUMETRIC BEAKER

Manufacturer : HGWW

Model No. : N/A

Range / Size : 500 mL

Temp/RH : 20.8°C / 54 %

Purchase Order No. : CAS

Serial No. : N408110

Department : N/A

Performed By : CHRISTIAN BUCAYON

Received Condition : IN TOLERANCE

Returned Condition : IN TOLERANCE

Calibration Date : 30-Nov-2016

Calibration Interval : 12 MONTHS

Calibration Due Date : 30-Nov-2017

Calibration Notes:

The results of calibration are given on the attached calibration data.

Reference Instruments Used in Calibration

I.D.	Description.	Model No.	Serial No.	Manufacturer	Cal. Due Date	Traceability No.
Q560244	BAROMETRIC PRESSURE DATALOGGER	SD700	Q560244	EXTECH INSTRUMENTS	Mar 24, 2017	222200812298522
QA-GT-01	GLASS THERMOMETER		N/A	N/A	Feb 22, 2017	222008122415927
QA-TW-01	1MG-10KG TEST WEIGHT SET	OIML E1 (1-SERIES) / ASTM C1 (3-SERIES)	PH2090	CHANGZHOU FUYUE WEIGHT CO LTD	Dec 4, 2018	2068624A
QA-PB-01	PRECISION BALANCE	PS 8000/X	403130/13	RADWAG	Dec 27, 2016	222008122784013

Procedures Used in Calibration

Procedure Name	Description
MPC-00079	Pipettes, General, April-11-2016 rev02

Calibration Performed By:

CHRISTIAN BUCAYON
 Calibration Technician



DHANA RADIRMANICKAM
 QA/QC Inspector

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty of measurement has been determined in accordance with the BIPM's Publication and NIST Technical Note 1297, 1994 Edition. Services rendered comply with ISO 17025:2005, ANSINC SL Z540-1, ANSINC SL Z540.3, MPC Quality Manual, MPC QSD and with customer purchase order instructions.

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