



CALIBRATION CERTIFICATE

Request Reference No. : **R11-062023-MET-0931** Date Submitted : 19 June 2023
Sample Code : **MET-01639** Date Calibrated : 19 June 2023
Date Issued : 07 July 2023

Calibration Item : **Truck Scale**
Capacity : 80 tons* Readability : 20 kg*
Make/Model : None / XK3190-D2* Serial Number : D20323*
Type of Job : Calibration up to 58180 kg

Location of Calibration : **Scale House**

Submitted by : **DAVAO INTERNATIONAL CONTAINER TERMINAL, INC.***
Address : DICT Administrative Building, San Pedro, City of Panabo, Davao del Norte*

CALIBRATION RESULTS

1. Departure from Nominal Value Test

Nominal Value, (kg)	Reading, (kg)	Correction (kg)	Uncertainty (\pm kg)
1040	1040	0	11.67
8060	8060	0	11.67
20000	20000	0	11.67
40900	41000	- 100	11.67
58180	58280	- 100	11.67

2. Repeatability of Reading Test

Nominal Value, (kg)	Std. Deviation of Reading, (\pm kg)	Maximum Difference between successive readings, (kg)
1040	0.000	0
14260	0.000	0
41000	0.000	0

3. Off-Center Loading Test (Shift Test)

Load = 14260 kg

1	2	3
14260	14280	14240

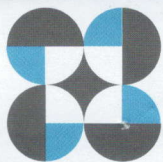
2	1	3
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The maximum difference between readings was 40 kg.

4. Maximum Permissible Error (in service)

Class : III

From (kg)	To (kg)	mpe (\pm kg)
0	20000	40
> 20000	80000	80
> 80000	400000	120



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STANDARDS USED AND TRACEABILITY

The Truck Scale was calibrated using reference standards traceable to SI units as maintained by NML-ITDI through DOST RSTL-Davao Metrology Laboratory with Reference No. R11-082021-MET-0956 dated August 9, 2021.

CALIBRATION PROCEDURE

Calibration method is in accordance with DOST RSTL-Davao RML-CM-005 – “Calibration of Truck Scales”.

MEASUREMENT CONDITIONS


Environmental Conditions

Ambient Temperature : 30.0 °C
Relative Humidity : 45 % RH

REMARKS:

1. The results given in this report are those obtained at the time of test and refer only to the particular sample submitted, however, should the instrument be modified or damaged in any way, or develop inconsistent readings, the results may not be valid and the unit will require recalibration.
2. Uncertainties given in this report have been estimated at a confidence level of 95%. A coverage factor $k = 1.96$ was used to calculate the uncertainty of measurements.
3. When the sign of the correction is positive (+) the amount should be added to the scale reading to give the correct value and when negative (-) subtracted from it.
4. This report shall not be reproduced except in full, without the written approval of the laboratory.

Calibrated By:


MARK LORENZ O. BATAD**
Laboratory Analyst

Reviewed / Checked by:


BENJAMIN V.D. ESTRELLADO JR., PME**
Laboratory Analyst

Approved for Release By:


BENJAMIN V.D. ESTRELLADO, JR., PME
DOST RSTL-Davao Laboratory Head

**Approved Signatory