



Certificate of Calibration

Certificate Number : SPR23080071-1

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Customer : PMJ Testing & Engineering Co.,Ltd

11/13 Soi Udomsuk, Watkodhin-Khaopai Rd., Nernpra,

Muang-Rayong, Rayong 21150 Thailand

Equipment Name : Crane Scale

Manufacturer : Tiger

Model : N/A

Serial Number : N/A

ID. Number : KA07

Environmental Conditions

Ambient Temperature : $23^{\circ}\text{C} \pm 2^{\circ}\text{C}$

Relative Humidity : $50\% \pm 15\%$

Location of Calibration : In-Lab

Calibration Procedure : SP-CPM-04-08

Received Date : 07 Aug 2023

Calibration Date : 08 Aug 2023

Recommend Due Date : 08 Aug 2024

Date of Issue : 09 Aug 2023

Method of Calibration

This certifies that the above instrument was calibrated in compliance with the calibration system requirement of ISO/IEC 17025:2017 in accordance with reference procedure. Standards used to perform this calibration are certified by to NIST or equivalent, National metrology institute, Natural physical constants, consensus standards. The result reported herein apply only to the calibration of the item described above as received. Our decision rule is to contact the customer if the item pass and fail calibration when the results include the uncertainties and the customer must determine if the results meets their needs.

The calibration certificate shall not be reproduced except in full, without written approval of SP Metrology System (Thailand).

Calibrated by : Mr.Keerati Bunyawat

Calibration Officer

Approved by :

(Mr. Prayoon Topart)

Authorized Signatory



Calibration Report

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Reference Standards

Equipment Name	Model	Serial No.	Certificate No.	Due. Date
Standard Load Cell	CLP-1MNB	ACI170066	F2307001S	06 Jul 2024

Traceability

This certification is traceable to the International System of Unit maintained at :
TCS -Thai Calibration Service Co;Ltd.



Result of Calibration

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Calibration Range : 0 kg to 20000 kg

Capacity : 20000 kg

Calibration mode : Tensile Testing Machine

Resolution : 10 kg

Tension

Unit : kg

Indicated Force (Fi)	UUC Reading				Average	(±) Expanded Uncertainty	
	Increase			Decrease			
	F1	F2	F3	F'		(%)	(kg)
2000	2000	2000	2000	2000	2000	0.19	3.9
* 4000	4000	4000	4000	4000	4000	0.16	6.4
* 6000	6000	6000	6000	6000	6000	0.16	9.6
* 8000	8000	8000	8000	8000	8000	0.16	13
* 10000	10000	10000	10000	10000	10000	0.16	16
* 12000	12000	12000	12000	12000	12000	0.16	19
* 14000	14000	14000	14000	14000	14000	0.16	22
* 16000	16010	16010	16010	16010	16010	0.16	26
* 18000	18010	18010	18010	18010	18010	0.16	29
* 20000	20010	20010	20010	20010	20010	0.16	32

The uncertainty evaluation has been carried out in accordance with BS EN ISO 7500-1 requirements.

Note:

The result of calibration was found accurate as show on date and place of calibration only.

This Certificate is not certified for any commercial transaction.

Calibration Marked (*) "Not ANAB Accredited " in this Certificate have been included for completeness.

Measurement Uncertainty

The reported uncertainty of measurement is the expanded uncertainty obtained by multiplying the standard uncertainty with the coverage factor $k = 2.00$, providing a level of confidence approximately 95%

- End of Certificate -