

# Fee-charging Standards for Measuring Instruments

[Chronicle of Promulgation and Amendments]

Amended and promulgated by Ministerial Order on 20 January 1999.

Table 1 referred to in Article 13 amended and promulgated by Ministerial Order on 1 September 1999.

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Articles 10, 24, 26 and Table 9 referred to in Article 28 amended and promulgated, and Articles 22-1 added by Ministerial Order on 29 December 2006.

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Table 9 referred to in Article 28 amended and promulgated by Ministerial Order on 14 February 2008.

Table 9 referred to in Article 28 amended and promulgated by Ministerial Order on 22 January 2009.

Articles 22, 24 and Table 1 referred to in Article 6, Table 6 referred to in Article 14, Table 8 referred to in Article 23, Table 9 referred to in Article 28 amended and promulgated, and Article 22-2 added by Ministerial Order on 11 March 2010.

Articles 17 and Table 1 referred to in Article 6, Table 9 referred to in Article 28 amended and promulgated by Ministerial Order on 15 June 2010.

Articles 30, 32-3 and Table 9 referred to in Article 28 amended and promulgated by Ministerial Order on 25 April 2011.

Table 9 referred to in Article 28 amended and promulgated by Ministerial Order on 3 February 2012.

Articles 3, 5, 33 and Table 9 referred to in Article 28 amended and promulgated, and Article 32-4 and Table 12 referred to in 32-4 added by Ministerial Order on 25 April 2013.

Table 9 referred to in Article 28 amended and promulgated by Ministerial Order on 10 January 2014

Articles 17 and Table 9 referred to in Article 28, Table 12 referred to in Article 32-4 amended and promulgated by Ministerial Order on 27 December 2014.

Articles 16, 19 and Table 6, 7 referred to in Article 14, Table 9 referred to in Article 28, Table 12 referred to in Article 32-4 amended and promulgated, and Articles 18-1, 26-1 added by Ministerial Order on 15 February 2016.

Articles 4 and Table 9 referred to in Article 28, Table 12 referred to in Article 32-4 amended and promulgated by Ministerial Order on 28 April 2017.

Table 3 referred to in Article 9, Table 5 referred to in Article 11 and Table 9 referred to in Article 28 amended and promulgated by Ministerial Order on 22 June 2018.

Table 4, Table 9 and Table 12 amended and promulgated by Ministerial Order on 21 November 2019

Articles 22-3 amended and promulgated by Ministerial Order on 17 November 2020.

Articles 12-1 amended and promulgated by Ministerial Order on 20 August 2021.

Table 9 referred to in Article 28 amended and promulgated by Ministerial Order on 15 March 2022.

Articles 14, 14-1 and Table 9 referred to in Article 28 amended and promulgated by Ministerial Order on 3 November 2022.

Table 9 referred to in Article 28 amended and promulgated by Ministerial Order on 13 June 2023.

Articles 1, 29 and Table 9 referred to in Article 28 amended and promulgated by Ministerial Order on 14 May 2024.

Articles 5, 13, 16, 17, 30, 33 and Table 4 referred to in Article 10 amended and promulgated by Ministerial Order on 16 September 2025.

## Chapter I General Principles

### Article 1

The Standards are established in accordance with Article 59 of the Weights and Measures Act (hereinafter referred to as "the Act") and Paragraph 1, Article 10 of the Charges and Fees Act.

### Article 2

The verification agency (institution) mentioned in these Standards shall mean the dedicated weights and measures authority, its branches, or any other government agencies or institutions commissioned by the dedicated weights and measures authority.

### Article 3

The fees for measuring instruments as referred to in these Standards shall mean the following:

1. Verification fee;

2. Appraisal fee;
3. Type approval fee;
4. Assessment fee;
5. Calibration fee;
6. Certificate and License fee;
7. Permit fee;
8. Registration fee;
9. Calibration fee for weights.
10. Certification Fee

Fees shall be collected in New Taiwan Dollars. The total sum shall be rounded-up to the closest dollar value.

## **Chapter II Verification Fee**

### **Article 4**

An NTD 500 on-site verification fee for each person each time shall be collected by the verification agency (institution) for dispatching its personnel to conduct verification at the site of storage place of measuring instruments in accordance with Article 8 of the Regulations Governing Verification and Inspection of Measuring Instruments, except that the verification agency (institution) dispatch its personnel to perform the official business at the site of storage or installation place of measuring instruments where they receive an application for verification then and complete the verification within the same day.

If the personnel performing the official business as referred to in the preceding paragraph cannot commute to the place of verification and back within the same day or has to commute between different branches, the on-site fees shall be collected in accordance with the costs and expenses set forth in the Directions Governing Domestic Business Travel Expenses.

### **Article 5**

The verification fee for taximeters shall be NTD 35 per set of stationed taximeters and NTD 200 for simulated-road verification and road verification per set.

### **Article 6**

The verification fees for weighing instrument are shown in Annex 1.

### **Article 7**

The verification fee for non invasive automated sphygmomanometers is NTD 15 per set.

### **Article 8**

The verification fees for metal graduated measuring pails and tanks are shown in Annex 2.

### **Article 9**

The verification fees for diaphragm gas meters are shown in Annex 3. If the applicant requests for verification conducted with its own verification equipment and the verification is conducted one by one by the dedicated weights and measures authority or its branches, the verification fee shall be charged in the amount of two-fifths of the total verification fee payable for the declared quantity of measuring instruments under application.

### **Article 10**

The verification fees for water meters are shown in Annex 4. If the applicant requests for verification conducted with its own verification equipment and the verification is conducted one by one by the dedicated weights and measures

authority or its branches, the verification fee shall be charged in the amount of two-fifths of the total verification fee payable for the declared quantity of measuring instruments under application.

#### **Article 11**

The verification fees for oil meters are shown in Annex 5.

#### **Article 12**

The verification fee for liquefied petroleum gas flow meters is NTD 2,000 per set.

#### **Article 12-1**

The verification fee for Air to liquid volumetric ratio (A/L) measuring instruments with only one set of connecting device is NTD 4,300 per set.

In case of one host with more than one set of connecting device applying for verification at the same time, each additional set of connecting device will be charged NTD3,000.

#### **Article 13**

(Deleted)

#### **Article 14**

The verification fees for general electricity meters are shown in Annex 6, and the verification fees for transformers matched with electricity meters are shown in Annex 7.

#### **Article 14-1**

The verification fee for Electric Vehicle Supply Equipment each time is NTD 12,000 for base fee for each site and NTD 700 for each set at the same site.

#### **Article 15**

The verification fee for radar speedometers is NTD 5,000 per set.

#### **Article 16**

The verification fee for sound level meters is NTD 7,900 per set and Octave-band filters is NTD 3,200 per set.

#### **Article 17**

The verification fee for breath alcohol testers is NTD 11,500 per set for new testers, or NTD 8,200 per set for tester in-use; the verification fee for evidential breath alcohol analyzers is NTD 12,700 per set for new analyzers, or NTD 11,200 per set for analyzers in-use.

#### **Article 18**

The verification fee for rice grain moisture meters is NTD 2,400 per set.

#### **Article 18-1**

The verification fee for corn moisture meters is NTD 3,400 per set.

#### **Article 19**

The verification fee for vehicle exhaust emissions analyzers is NTD 7,000 per set for new analyzers, or NTD 5,050 per set for analyzers in-use.

#### **Article 20**

The verification fee for illuminance meters is NTD 3,700 per set for new meters, or NTD 3,300 per set for in-use meters.

#### **Article 21**

The verification fee for thermometers is NTD 2 per set.

#### **Article 22**

For verification conducted by an organization on its own, the verification fee shall be charged in the amount of one-fifth of the total verification fee payable for the quantity of measuring instruments under application.

#### **Article 22-1**

The verification fee for Laser speedometers is NTD 4,500 per set.

#### **Article 22-2**

The verification fee for inductive loop speedometers is described as follows:

1. The verification fee for the controller cabinet of inductive loop speedometers is NTD 4,200 per set for new speedometers, or NTD 3,200 per set for speedometers in-use.
2. The base verification fee for the inductive loop of inductive loop speedometers is NTD 6,700; one lane at each site. For each additional lane at the same place of verification, additional NTD 500 shall be charged.

#### **Article 22-3**

The verification fee for average speed control devices is described as follows:

In case of a single road section is NTD 50,000 per set.

In case of a two-way road section application at the same time, the two sets are NTD 80,000 in total.

### **Chapter III Appraisal Fee**

#### **Article 23**

The appraisal fees for water meters are shown in Annex 8.

#### **Article 24**

The appraisal fee for electricity meters is described as follows:

1. Watt-hour meters and static electricity meters exclusively functioning watt-hour measurement: NTD 1,800 per set;
2. Var-hour meters and static electricity meters exclusively functioning var-hour measurement: NTD 1,800 per set;
3. Watt-hour demand meters and static electricity meters exclusively functioning watt-hour demand measurement: NTD 2,300 per set; and
4. Transformer matched with electricity meters: NTD 3,200 per set.

#### **Article 25**

The appraisal fee for diaphragm gas meters is NTD 1,300 per set.

## **Chapter IV    Type Approval Fee and Assessment Fee**

### **Article 26**

The type approval fee for measuring instruments is NTD 5,000 per set.

The series type approval fee for measuring instruments is NTD 3,000 per set.

### **Article 26-1**

The extension of the validity of type approval or series type approval fee for measuring instruments is NTD 5,000 per set.

### **Article 27**

For measuring instrument laboratories that apply for becoming designated laboratories, the assessment fee shall be charged on the basis of NTD 8,000 per man-day; the same shall apply for re-assessment.

An assessment fee of NTD 4,000 shall be charged for assessments conducted in less than four (4) hours.

An assessment fee of NTD 2,000 shall be charged for assessments conducted to applications made in accordance with Article 16 of the Regulations Governing the Recognition of the Designated Testing Laboratory for Measuring Instruments.

## **Chapter V    Calibration Fee**

### **Article 28**

The calibration fees for measuring instrument by national measurement laboratories are shown in Annex 9. The calibration fee shall be doubled for cases that the applicant requests for urgent processing.

### **Article 29**

The calibration fees for measuring instruments handled by the dedicated weights and measures authority and its branches are shown in Annex 10. An additional fee of NTD 450 shall be charged for each application.

### **Article 29-1**

An on-site calibration fee of NTD 500 per person-time shall be charged for calibration conducted by personnel dispatched by the dedicated weights and measures authority or its branches at the storage place of measuring instruments. If the person cannot commute to the place of calibration and back within the same day, the calibration fees shall be collected in accordance with the costs and expenses set forth in the Directions Governing Domestic Business Travel Expenses.

## **Chapter VI    Other Fees**

### **Article 30**

Except the certificate fee of NTD 500 for metrological technical personnel certificates, certificate and license fees for certificates or licenses issued in accordance with provisions of the Act shall be NTD 1,000. Its reissuance or replacement fee shall be NTD 1,000 and the charge of reissuance or replacement of a verification mark is the same.

When reissuance or replacement of the verification mark mentioned above requires sending personnel to the location of the measuring instruments, an on-site fee of NTD 500 per person per visit will be charged for each location.

### **Article 31**

A permit fee of NTD 2,000 shall be charged to an organization that is allowed to carry out self-verification.

### **Article 32**

The permit fees for a weights and measures business license is described as follows:

1. NTD 2,200 for manufacturing or repairing business. The same rate shall apply to alteration of the scope specified

in the license.

2. NTD 400 for importers.
3. NTD 400 for an extension of the license.

The above rates shall apply to licenses issued to branches of the organization.

**Article 32-1**

The registration fee for metrology technical personnel is NTD 1,200 per person.

**Article 32-2**

The calibration fees for weights conducted by the dedicated weights and measures authority are shown in Annex 11.

**Article 32-3**

The re-test fee for prepackaged products is NTD 3,000 for each time.

**Article 32-4**

The certification fee for reference material by national measurement laboratories are shown in Annex 12.

**Article 33**

These Standards shall take effect upon the date of promulgation.

# Annex 1

## Verification Fees for Weighing Instruments

| Category                                                                                                       |                                               |                                                                                                                                                                                                                                                                                                                                                                  | Verification Fee Per Set | Remarks                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Non-Automatic Weighing Instruments                                                                             | Electronic Non-Automatic Weighing Instruments | Weighing capacity not more than 10kg                                                                                                                                                                                                                                                                                                                             | NTD 40                   | In case the weighing capacity is more than 5,000kg, NTD 10 shall be charged for every increment of 100kg beyond 5,000kg. The increment of less than 100kg shall be charged as 100kg. |
|                                                                                                                |                                               | Weighing capacity more than 10kg but not more than 60kg                                                                                                                                                                                                                                                                                                          | NTD 50                   |                                                                                                                                                                                      |
|                                                                                                                |                                               | Weighing capacity more than 60kg but not more than 100kg                                                                                                                                                                                                                                                                                                         | NTD 80                   |                                                                                                                                                                                      |
|                                                                                                                |                                               | Weighing capacity more than 100kg but not more than 500kg                                                                                                                                                                                                                                                                                                        | NTD 100                  |                                                                                                                                                                                      |
|                                                                                                                |                                               | Weighing capacity more than 500kg but not more than 1,000kg                                                                                                                                                                                                                                                                                                      | NTD 150                  |                                                                                                                                                                                      |
|                                                                                                                |                                               | Weighing capacity more than 1,000kg but not more than 5,000kg                                                                                                                                                                                                                                                                                                    | NTD 350                  |                                                                                                                                                                                      |
|                                                                                                                | Mechanic Non-Automatic Weighing Instruments   | Weighing capacity not more than 12kg                                                                                                                                                                                                                                                                                                                             | NTD 6                    | In case the weighing capacity is more than 100kg, NTD 20 shall be charged for every increment of 100kg beyond 100kg. The increment of less than 100kg shall be charged as 100kg.     |
|                                                                                                                |                                               | Weighing capacity more than 12kg but not more than 60kg                                                                                                                                                                                                                                                                                                          | NTD 25                   |                                                                                                                                                                                      |
|                                                                                                                |                                               | Weighing capacity more than 60kg but not more than 100kg                                                                                                                                                                                                                                                                                                         | NTD 40                   |                                                                                                                                                                                      |
|                                                                                                                | Fixed Weighbridge                             | In case the applicant carries self-owned weights to the place of verification by self-owned truck                                                                                                                                                                                                                                                                | NTD 750                  |                                                                                                                                                                                      |
|                                                                                                                |                                               | In case the applicant borrows official weights not more than 10 t from verification agency (institution) to the place of verification by a self-owned truck (Shall be applicable only if the commissioned manufacturers and repairers leave for another jurisdiction area to conduct adjustment and repair, or if the verification is conducted in outer island) | NTD 2100                 |                                                                                                                                                                                      |
|                                                                                                                |                                               | In case the applicant borrows official weights and trucks                                                                                                                                                                                                                                                                                                        | NTD 6900                 |                                                                                                                                                                                      |
|                                                                                                                | Portable Wheel Load Eighers                   | A set (2 pieces 、 1 piece)                                                                                                                                                                                                                                                                                                                                       | NTD 3,060                |                                                                                                                                                                                      |
|                                                                                                                |                                               | A set (4 pieces)                                                                                                                                                                                                                                                                                                                                                 | NTD 5,460                |                                                                                                                                                                                      |
| Discontinuous Totalizing Automatic Weighing Instruments and Automatic Gravimetric Filling Weighing Instruments |                                               | Weighing capacity not more than 30kg                                                                                                                                                                                                                                                                                                                             | NTD 100                  |                                                                                                                                                                                      |
|                                                                                                                |                                               | Weighing capacity more than 30kg but not more than 500kg                                                                                                                                                                                                                                                                                                         | NTD 250                  |                                                                                                                                                                                      |
|                                                                                                                |                                               | Weighing capacity more than 500kg but not more than 1,500kg                                                                                                                                                                                                                                                                                                      | NTD 450                  |                                                                                                                                                                                      |
|                                                                                                                |                                               | Weighing capacity more than 1,500kg but not more than 4,000kg                                                                                                                                                                                                                                                                                                    | NTD 720                  |                                                                                                                                                                                      |
|                                                                                                                |                                               | Weighing capacity more than 4,000kg                                                                                                                                                                                                                                                                                                                              | NTD 1,200                |                                                                                                                                                                                      |

**Annex 2****Verification Fees for Metal Graduated Measuring Pails and Tanks**

| Category                            |                                                          | Verification Fee Per Set                                                              |
|-------------------------------------|----------------------------------------------------------|---------------------------------------------------------------------------------------|
| Measuring Pails,<br>Measuring Tanks | Full capacity not more than 20L                          | NTD 150                                                                               |
|                                     | Full capacity more than 20L but not more than 1,000L     | NTD 370                                                                               |
|                                     | Full capacity more than 1,000L but not more than 10,000L | NTD 1,100                                                                             |
|                                     | Full capacity more than 10,000L                          | For every increment of 1,000L up from 10,000L, NTD 110 shall be charged additionally. |

**Annex 3****Verification Fees for Diaphragm Gas Meters**

| Maximum Flow of the Gas Used (m <sup>3</sup> /hr) | Verification Fee Per Set | Remarks                                                                                                                                                                                                                  |
|---------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Not more than 6                                   | NTD 25                   | 1.If the sampled and verified meters fail the external airtight test and then all the meters applied shall be tested, one-tenth of the verification fee per set shall be charged additionally.                           |
| More than 6 but not more than 10                  | NTD 50                   | 2.If the sampled and verified meters fail the test on errors for measuring point of 3 Q <sub>min</sub> and then all the meters applied shall be tested, one-tenth of the verification fee shall be charged additionally. |
| More than 10 but not more than 16                 | NTD 80                   | 3.The preceding two provisions shall only be applicable to applications filed before June 30, 2018.                                                                                                                      |
| More than 16 but not more than 25                 | NTD 75                   |                                                                                                                                                                                                                          |
| More than 25 but not more than 40                 | NTD 115                  |                                                                                                                                                                                                                          |
| More than 40 but not more than 65                 | NTD 190                  |                                                                                                                                                                                                                          |
| More than 65 but not more than 100                | NTD 225                  |                                                                                                                                                                                                                          |

#### **Annex 4**

##### **Verification Fees for Water Meters**

| Nominal Diameter                          | Verification Fee Per Set |
|-------------------------------------------|--------------------------|
| Not more than 15 mm                       | NTD 70                   |
| More than 15 mm but not more than 20 mm   | NTD 55                   |
| More than 20 mm but not more than 25 mm   | NTD 50                   |
| More than 25 mm but not more than 40 mm   | NTD 55                   |
| More than 40 mm but not more than 50 mm   | NTD 200                  |
| More than 50 mm but not more than 75 mm   | NTD 340                  |
| More than 75 mm but not more than 100 mm  | NTD 480                  |
| More than 100 mm but not more than 125 mm | NTD 680                  |
| More than 125 mm but not more than 150 mm | NTD 900                  |
| More than 150 mm but not more than 200 mm | NTD 1200                 |
| More than 200 mm but not more than 250 mm | NTD 1500                 |
| More than 250 mm but not more than 300 mm | NTD 1800                 |

#### **Annex 5**

##### **Verification Fees for Oil Meters**

| Caliber                                | Verification Instrument | Verification Fee Per Set |
|----------------------------------------|-------------------------|--------------------------|
| Not more than 35mm                     | Standard Measuring Pail | NTD 115                  |
| More than 35mm but not more than 160mm | Standard Flow Meter     | NTD 225                  |
|                                        | Standard Measuring Tank | NTD 340                  |

## Annex 6

### Verification Fees for Electricity Meters

| <div> <div>Classification</div> <div>Verification Fee Per Set</div> <div>Category</div> </div>             |                                       | Single-Phase Two-Wire | Single-Phase Three-Wire | Others  |
|------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------|-------------------------|---------|
| Watt-Hour Meters and Static Electricity Meters Exclusively Functioning Watt-Hour Measurement               | Grade 2.0                             | NTD 120               | NTD 105                 | NTD 185 |
|                                                                                                            | Grade 1.0 and Grade 0.5               | NTD 160               | NTD 140                 | NTD 275 |
|                                                                                                            | Grade 0.2                             | NTD 160               | NTD 110                 | NTD 205 |
| Watt-Hour Demand Meters and Static Electricity Meters Exclusively Functioning Watt-Hour Demand Measurement | Grade 2.0                             | NTD 300               |                         |         |
|                                                                                                            | Grade 1.0 and Grade 0.5 and Grade 0.2 | NTD 280               |                         |         |
| For Static Electricity Meters which Function Watt-Hour and Watt-Hour Demand Measurement                    | Grade 2.0                             | NTD 220               |                         |         |
|                                                                                                            | Grade 1.0 and Grade 0.5 and Grade 0.2 | NTD 205               |                         |         |
| Var-Hour Meters and Static Electricity Meters Exclusively Functioning Var-Hour Measurement                 |                                       | NTD 275               |                         |         |

## Annex 7

### Verification Fees for Transformers Matched with Active Electrical Energy Meters

| Type of Transformers                                                                                                                                                       |              | Voltage Transformers | Current Transformers |                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------|----------------------|------------------|
| Rated Insulation Class (Nominal System Voltage)                                                                                                                            | Phase        |                      | Not more than 1,200A | More than 1,200A |
| Through-Type not more than 600 V                                                                                                                                           | Single Phase |                      | NTD 170              | NTD 195          |
| Not more than 600 V                                                                                                                                                        | Single Phase | NTD 495              | NTD 275              | NTD 275          |
|                                                                                                                                                                            | Three Phase  |                      |                      |                  |
| More than 600V but not more than 25,000 V                                                                                                                                  | Single Phase | NTD 480              | NTD 405              |                  |
|                                                                                                                                                                            | Three Phase  |                      |                      |                  |
| More than 25,000 V                                                                                                                                                         | Single Phase | NTD 495              | NTD 275              |                  |
|                                                                                                                                                                            | Three Phase  |                      |                      |                  |
| Note:                                                                                                                                                                      |              |                      |                      |                  |
| 1. In case of multiple reset amounts, the fees of this Table shall apply to the maximum rated value, and half of the fees of this Table shall apply to other rated values. |              |                      |                      |                  |
| 2. In case of multiple loads, the fees of this Table shall apply to one load, and half of the fees of this Table shall apply to other loads.                               |              |                      |                      |                  |

**Annex 8****Appraisal Fees for Water Meters**

| Type             |                               | Nominal Caliber                         | Appraisal Fee Per Set |
|------------------|-------------------------------|-----------------------------------------|-----------------------|
| Velocity Type    | Single-Jet and Multi-Jet Type | Not more than 40mm                      | NTD 1,300             |
|                  |                               | More than 40mm but not more than 150mm  | NTD 2,800             |
|                  |                               | More than 150mm                         | NTD 15,000            |
|                  | Woltmann Type                 | Not more than 40mm                      | NTD 1,300             |
|                  |                               | More than 40mm but not more than 100mm  | NTD 2,800             |
|                  |                               | More than 100mm but not more than 250mm | NTD 12,000            |
|                  |                               | More than 250mm                         | NTD 15,000            |
| Vortex Flow Type |                               | Not more than 40mm                      | NTD 1,300             |
|                  |                               | More than 40mm but not more than 100mm  | NTD 2,800             |
|                  |                               | More than 100mm but not more than 200mm | NTD 12,000            |
|                  |                               | More than 200mm                         | NTD 15,000            |

## Annex 9

### Calibration Fees for National Measurement Laboratories

| System No. | System Name                                                                    | Device to be Calibrated                                                                                                                                                                                                                                               | Fees                                                                                                                                                                                                                                                                                                                                                               |
|------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A01        | Calibration System of Laboratory Standard Microphones by Reciprocity Technique | Condenser Microphone                                                                                                                                                                                                                                                  | (1) NTD 41,100 per piece (1/3 Octave, Frequency: 10 Hz to 25 kHz)<br>(2) NTD 22,800 per piece (1/1 Octave, Frequency: 16 Hz to 16 kHz)                                                                                                                                                                                                                             |
| A02        | Calibration System of Standard Microphones by Comparison                       | Condenser Microphone                                                                                                                                                                                                                                                  | (1) 250 Hz: NTD 5,900 for base fee<br>(2) 100 Hz ~ 8 kHz: NTD 6,800 for base fee and NTD 500 for each additional point<br>(3) 1/1 Octave (31.5 Hz to 16 kHz, 10 points): NTD 10,500<br>(4) 1/3 Octave (20 Hz to 20 kHz, 31 points): NTD 13,300                                                                                                                     |
| A03        | Calibration System of Sound Calibrators                                        | (1) Sound Level Meter<br>(2) Sound Calibrator, Pistonphone                                                                                                                                                                                                            | (1) Sound level meter:<br>1. 250 Hz or 1 kHz: NTD 3,500 for base fee and NTD 1,500 for each additional point<br>2. 31.5 Hz to 1 kHz: NTD 6,000 for base fee and NTD 4,000 for additional frequency range (2 kHz to 16 kHz)<br>(2) Sound calibrator, pistonphone: NTD 4,800 for base fee and NTD 1,500 for each additional point                                    |
| A04        | Microphone Free-Field Sensitivity Calibration System                           | Condenser Microphone                                                                                                                                                                                                                                                  | (1) Reciprocity Method (1/3 Octave, Frequency: 1 kHz to 40 kHz): NTD 29,000 for base fee (1 kHz to 20 kHz, 14 points) and NTD 1,000 for each additional point (1 kHz to 40 kHz)<br>(2) Comparison Method (1/3 Octave, Frequency: 250 Hz to 40 kHz): NTD 14,800 for base fee (250 Hz to 20 kHz, 20 points) and NTD 500 for each additional point (250 Hz to 40 kHz) |
| B01        | NMR Magnetic Flux Density Measurement System                                   | Gaussmeter, Magnetometer, Reference Magnet                                                                                                                                                                                                                            | NTD 5,500 for base fee and NTD 300 for each additional point                                                                                                                                                                                                                                                                                                       |
| B02        | Magnetic Flux Measurement System                                               | Fluxmeter, Coil                                                                                                                                                                                                                                                       | NTD 5,000 for base fee and NTD 250 for each additional point                                                                                                                                                                                                                                                                                                       |
| B03        | Low Magnetic Field Measurement System                                          | Gaussmeter, Magnetometer Reference Magnet                                                                                                                                                                                                                             | NTD 5,500 for base fee and NTD 300 for each additional point                                                                                                                                                                                                                                                                                                       |
| C03        | Cylinder Gas Concentration Measurement System                                  | (1) Verification of CO, NO, SO <sub>2</sub> , CH <sub>4</sub> , C <sub>3</sub> H <sub>8</sub> , CO <sub>2</sub> , O <sub>2</sub> Cylinder Gas Concentration<br>(2) Verification of C <sub>2</sub> H <sub>5</sub> OH/Air Cylinder Gas Concentration                    | (1) NTD 9,100 per piece (For each gas component)<br>(2) NTD 12,000 per piece                                                                                                                                                                                                                                                                                       |
| C07        | Gas Measurement System                                                         | (1) Gas Concentration Detection Tube, Siren, Leakage Detector, Gas Concentration Analyzer<br>(2) Gas Concentration Dilution Device (CO/N <sub>2</sub> , CO <sub>2</sub> /N <sub>2</sub> , CH <sub>4</sub> /Air, NO/N <sub>2</sub> , SO <sub>2</sub> /N <sub>2</sub> ) | (1) NTD 5,000 for base fee and NTD 1,000 for each additional point<br>(2) NTD 27,800 (5 points, for each gas component) and NTD 2,000 for each additional point                                                                                                                                                                                                    |

| System No. | System Name                                               | Device to be Calibrated                                                        | Fees                                                                                                                                                                                                                                                                                                                  |
|------------|-----------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C09        | Gas Concentration Measurement System for Low Carbon Fuels | Synthetic Natural Gas Concentration                                            | NTD 22,500 per set                                                                                                                                                                                                                                                                                                    |
| C11        | Formaldehyde Gas Analyzer Calibration System              | Formaldehyde Gas Analyzer / Detector                                           | NTD 53,000 (3 points) and NTD 5,000 for each additional point                                                                                                                                                                                                                                                         |
| C14        | Isotope Ratio Measurement System                          | Si                                                                             | NTD 80,000 per piece                                                                                                                                                                                                                                                                                                  |
| D01        | Gauge Block Calibration System - Comparator               | Gauge Blocks                                                                   | NTD 1,400 per piece                                                                                                                                                                                                                                                                                                   |
| D02        | Gauge Block Calibration System - Interferometer           | Gauge Blocks                                                                   | NTD 3,600 per piece                                                                                                                                                                                                                                                                                                   |
| D03        | End Dimensional Measurement System                        | (1) Ring Gauge<br>(2) Pin Gauge, Plug Gauge                                    | (1) Ring Gauge:<br>NTD 5,800 per piece (diameter $\leq$ 100 mm)<br>NTD 7,400 per piece (diameter $>$ 100 mm)<br>(2) Pin Gauge, Plug Gauge: NTD 2,400 per piece                                                                                                                                                        |
| D05        | Line Scale Calibration System                             | Standard Glass Scale, Standard Scale, Microscope Standards                     | (1) 0.01 mm ~ 200 mm: NTD 11,400 for base fee and NTD 500 for each additional point<br>(2) 0.01 mm ~ 500 mm: NTD 13,500 for base fee and NTD 500 for each additional point<br>(3) 0.01 mm ~ 1000 mm: NTD 15,600 for base fee and NTD 500 for each additional point                                                    |
| D06        | Angle Block Calibration System                            | (1) Angle Blocks<br>(2) Angular Encoder                                        | (1) NTD 2,000 per piece<br>(2) NTD 32,000 per piece                                                                                                                                                                                                                                                                   |
| D07        | Large Angle Calibration System                            | (1) True Squares, Polygons<br>(2) Indexing Table<br>(3) Polygon & Rotary Table | (1) True Squares, Polygons: NTD 1,800 per face<br>(2) Indexing Table:<br>NTD 19,800 per piece (12 divisions)<br>NTD 24,600 per piece (18 divisions)<br>NTD 28,700 per piece (24 divisions)<br>(3) Cross calibration of Polygon and Rotary Table:<br>NTD 92,000 and NTD 3,000 for each additional point of calibration |
| D08        | Small Angle Calibration System                            | Electronic Level                                                               | NTD 7,200                                                                                                                                                                                                                                                                                                             |
| D09        | Squareness Calibration System                             | Cylindrical Squares, Triangular Squares, I-Type Squares                        | NTD 2,000 per piece (single right angle)<br>NTD 5,900 per piece (four right angles)<br>(add NTD 500 per piece for dimension over 450 mm or weight over 20 kg)                                                                                                                                                         |
| D12        | Roundness Measuring System                                | Roundness Standards (Sphere, Hemisphere, Cylinder)                             | NTD 9,300 per piece                                                                                                                                                                                                                                                                                                   |
| D13        | Surface Roughness Measuring System                        | Surface Roughness Standards                                                    | NTD 6,500 (single measuring surface) per piece<br>NTD 11,000 (double measuring surfaces) per piece                                                                                                                                                                                                                    |
| D14        | Geodetic Length Instruments Calibration                   | Total Station, Electronic Distance Meter (EDM)                                 | NTD 10,000 per set                                                                                                                                                                                                                                                                                                    |

| System No. | System Name                                                                                    | Device to be Calibrated                                                                                   | Fees                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | System                                                                                         |                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| D15        | Geodetic Angle Instruments Calibration System                                                  | Optical Theodolite, Electronic Theodolite, Total Station                                                  | NTD 9,000 per set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| D16        | Frequency Stabilized He-Ne Laser Calibration System (Laser Wavelength & Frequency Calibration) | (1) I <sub>2</sub> Stabilized He-Ne Laser<br>(2) Absolute Frequency Measurement by Optical Comb           | (1) NTD 15,400 per piece<br>(2) NTD 20,000 per piece                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| D17        | Long Scales Calibration System                                                                 | (1) Standard Tape<br>(2) Invar Bar Code Staff                                                             | (1) Standard Tape: NTD 8,200 (ten points) for base fee and NTD 500 for each additional point<br>(2) Invar bar code staff: NTD 8,200 (ten points) for base fee and NTD 500 for each additional point                                                                                                                                                                                                                                                                                                                                                                                                           |
| D18        | Laser Interferometer Calibration System                                                        | (1) Laser Interferometer (Including Environmental Sensor)<br>(2) Dial Indicator Calibrator                | (1) Laser Interferometer <ul style="list-style-type: none"> <li>• Displacement: NTD 15,000 for base fee</li> <li>• Wavelength: NTD 15,000 per piece</li> <li>• Temperature sensor: NTD 3,500 (three points) for base fee and NTD 1,000 for each additional point</li> <li>• Pressure sensor: NTD 5,000 (five points) for base fee and NTD 1,000 for each additional point</li> <li>• Humidity sensor: NTD 3,500 (three points) for base fee and NTD 1,000 each for additional point</li> </ul> (2) Dial Indicator Calibrator: NTD 9,500 (fifteen points) for base price and NTD 500 for each additional point |
| D19        | Pitch Standards Calibration System                                                             | (1) Pitch Standard (by AFM)<br>(2) Pitch Standard (by Diffractometer)<br>(3) Line Width Standard (by AFM) | (1) Pitch Standard: NTD 16,000<br>(2) Pitch Standard: NTD 8,900<br>(3) Line Width Standard: NTD 20,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| D20        | Calibration System for Global Positioning System Satellite Receivers                           | GPS Satellite Receivers                                                                                   | (1) NTD 10,000 for static relative positioning<br>(2) NTD 10,000 for kinematic relative positioning<br>(3) NTD 5,000 for single absolute positioning                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| D21        | Step-Height Calibration System                                                                 | Step Height Standard                                                                                      | (1) Single step height: NTD 7,500 per piece<br>(2) Double step height: NTD 15,000 per piece                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| D22        | Thin Film Measurement System                                                                   | (1) Silicon Dioxide Standard Reference Material<br>(2) Thin Film (by X-Ray-Reflectometry)                 | (1) NTD 13,000 (one point)<br>(2) NTD 32,500 (one point)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| D23        | Precision Long Gauge Block Calibration System                                                  | Long Gauge Block                                                                                          | (1) NTD 1,600 per piece (Comparison method)<br>(2) NTD 8,900 per piece (Interference method)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| System No. | System Name                                          | Device to be Calibrated                                                                                                                                                                                                                   | Fees                                                                                                                                                                                                                                         |
|------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D25        | 2D Optical Image-Based Standards Calibration System  | Image Standards                                                                                                                                                                                                                           | (1) Nominal Size $\geq 500 \mu\text{m}$ : NTD 9,000 for base fee and NTD 800 for each additional point<br>(2) Nominal Size $< 500 \mu\text{m}$ : NTD 9,000 for base fee and NTD 1,500 for each additional point                              |
| D26        | Nano Particle Size Measurement System                | Standard Particles (Polystyrene, PSL)<br>(1) Dynamic Light Scattering (DLS)<br>(2) Electro-gravitational Aerosol Balance (EAB)<br>(3) Differential Mobility Analysis (DMA)                                                                | (1) NTD 7,200 per piece<br>(2) NTD 40,000 per piece<br>(3) NTD 10,000 per piece                                                                                                                                                              |
| D27        | Nano Particle Functional Property Measurement System | Standard Particles, Standard Particle Counter<br>(1) Counting Efficiency of Standard Particle Counter<br>(2) Specific Surface Area of Standard Particle<br>(3) Number Concentration of Particles in Solution (Gold Standard Nanoparticle) | (1) NTD 43,200 per piece (Concentration: $1 \text{ cm}^{-3} \sim 1000 \text{ cm}^{-3}$ )<br>NTD 36,000 per piece (Concentration: $1000 \text{ cm}^{-3} \sim 10000 \text{ cm}^{-3}$ )<br>(2) NTD 12,000 per piece<br>(3) NTD 72,000 per piece |
| D28        | Scanning Electron Microscope Calibration System      | Pitch Standard, Nanoparticle Size Standard                                                                                                                                                                                                | NTD 14,000 per piece                                                                                                                                                                                                                         |
| D29        | Coordinate Measuring Machine Calibration System      | Coordinate Measuring Machine                                                                                                                                                                                                              | NTD 68,400                                                                                                                                                                                                                                   |
| D30        | Step Gauge Calibration System                        | Step Gauge, Caliper Checker                                                                                                                                                                                                               | NTD 31,700 (51 points) and NTD 300 for each additional point                                                                                                                                                                                 |
| E01        | Josephson Voltage Measurement System                 | Solid State Voltage Standard, Voltage Meter                                                                                                                                                                                               | NTD 17,900 (one point) for base fee and NTD 3,000 for each additional point                                                                                                                                                                  |
| E03        | DC Voltage, 1-10 V, Measurement System               | Solid State Voltage Standard, DC Voltage Standard                                                                                                                                                                                         | NTD 10,700 (four points) for base fee and NTD 2,675 for each additional point                                                                                                                                                                |
| E04        | DC Voltage Measurement System                        | DC Voltage Standard                                                                                                                                                                                                                       | NTD 6,500 (three points) for base fee and NTD 1,000 for each additional point                                                                                                                                                                |
| E05        | DC High Voltage Measurement System                   | DC High Voltage Divider, DC High Voltage Meter, DC                                                                                                                                                                                        | NTD 6,500 (five points) for base fee and NTD 1,300 for each additional point                                                                                                                                                                 |

| System No. | System Name                              | Device to be Calibrated                                                                                 | Fees                                                                                                                                                                                                                                                                |
|------------|------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                                          | High Voltage Source                                                                                     |                                                                                                                                                                                                                                                                     |
| E06        | AC Voltage Measurement System            | Thermal Voltage Converter, Thermal Transfer Standard                                                    | NTD 9,000 (five points) for base fee and NTD 1,800 for each additional point                                                                                                                                                                                        |
| E07        | Potential Transformer Measurement System | (1) Potential Transformer<br>(2) AC High Voltage Divider, AC High Voltage Meter, AC High Voltage Source | (1) Potential transformer: NTD 7,900 (four points) for base fee and NTD 1,975 for each additional point<br>(2) AC high voltage divider, AC high voltage meter, AC high voltage source: NTD 7,000 (five points) for base fee and NTD 1,400 for each additional point |
| E08        | DC Low Current Measurement System        | (1) DC Current Shunt<br>(2) Current Source, Current Meter                                               | (1) DC current shunt: NTD 6,400 (two points) for base fee and NTD 3,000 for each additional point<br>(2) Current source, current meter: NTD 3,500 for base fee and NTD 1,000 for each additional point                                                              |
| E09        | DC Medium Current Measurement System     | (1) DC Current Shunt<br>(2) Current Source, Current Meter                                               | (1) DC current shunt: NTD 6,400 (two points) for base fee and NTD 3,000 for each additional point<br>(2) Current source, current meter: NTD 3,500 for base fee and NTD 1,000 for each additional point                                                              |
| E10        | DC High Current Measurement System       | (1) DC Current Shunt<br>(2) Current Source, Current Meter                                               | (1) DC current shunt: NTD 6,400 (two points) for base fee and NTD 3,000 for each additional point<br>(2) Current source, current meter: NTD 3,500 for base fee and NTD 1,000 for each additional point                                                              |
| E11        | AC Current Measurement System            | AC Current Shunt, Thermal Current Converter, AC Current Source, AC Current Meter                        | NTD 9,000 (five points) for base fee and NTD 1,800 for each additional point                                                                                                                                                                                        |
| E12        | Current Transformer Measurement System   | Current Transformer, AC Current Shunt, AC Current Converter                                             | NTD 8,800 (five points) for base fee and NTD 1,760 for each additional point                                                                                                                                                                                        |
| E13        | DC Resistance Measurement System         | (1) Standard Resistor<br>(2) Multimeter/ Calibrator, Decade Resistance Box                              | (1) NTD 9,400 per piece<br>(2) NTD 3,500 for base fee and NTD 1,000 for each additional point                                                                                                                                                                       |
| E14        | DC High Resistance Measurement System    | (1) Standard (High) Resistor<br>(2) Multimeter/ Calibrator, Teraohmmeter, High Resistance Decade Box    | (1) NTD 9,400<br>(2) NTD 3,500 for base fee and NTD 1,000 for each additional point                                                                                                                                                                                 |
| E15        | Standard Capacitor Measurement System    | (1) Standard Capacitor<br>(2) Precision Capacitance Gauge, RLC Meter                                    | (1) Standard Capacitor: NTD 6,900 for base fee and NTD 3,000 for each additional point<br>(2) Meter: NTD 3,500 for base fee and NTD 1,000 for each additional point                                                                                                 |
| E16        | Standard Inductor Measurement System     | (1) Standard Inductor<br>(2) RLC meter                                                                  | (1) Standard inductor: NTD 5,600 for base fee and NTD 1,000 for each additional point<br>(2) Meter: NTD 3,500 for base fee and NTD 1,000 for each additional point                                                                                                  |
| E18        | AC Power Measurement System              | (1) Single-Phase AC Power Source, Single-Phase AC                                                       | (1) NTD 14,500 (six points) for base fee and NTD 2,000 for each additional point<br>(2) NTD 14,500 (six points) for base fee and NTD 2,000 for each                                                                                                                 |

| System No. | System Name                                  | Device to be Calibrated                                                                                                                                                                                                                                    | Fees                                                                                                                                                                                     |
|------------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                                              | Power Meter,<br>Single-Phase AC Watt Converter<br>(2) Single-Phase AC Energy Meter,<br>Single-Phase AC Watthour Converter<br>(3) Three-Phase AC Energy Meter<br>(4) Three-Phase AC Power Source,<br>Three-Phase AC Power Meter                             | additional point<br>(3) NTD 14,500 (six points) for base fee and NTD 2,000 for each additional point<br>(4) NTD 14,500 (six points) for base fee and NTD 2,000 for each additional point |
| E21        | Phase Angle Measurement System               | Phase Meter, Phase Signal Generator                                                                                                                                                                                                                        | NTD 9,900 (five points) for base fee and NTD 1,980 for each additional point                                                                                                             |
| E23        | AC Power Primary Measurement System          | Single Phase Watt Converter, Single Phase Watthour Converter,<br>Single-Phase AC Power Meter                                                                                                                                                               | NTD 10,000 (two points) for base fee and NTD 5,000 for each additional point                                                                                                             |
| E24        | Quantized Hall Resistance Measurement System | Standard Resistor                                                                                                                                                                                                                                          | NTD 39,000 per piece                                                                                                                                                                     |
| E27        | Sheet Resistance System                      | Silicon Sheet Resistance Standard Reference Material                                                                                                                                                                                                       | NTD 10,000 per piece                                                                                                                                                                     |
| E29        | Capacitance Traceability Measurement System  | Standard Capacitor                                                                                                                                                                                                                                         | NTD 18,000 (one point) per piece                                                                                                                                                         |
| F01        | Large Water Flow Calibration System          | Turbine Flowmeter, Positive-Displacement Flowmeter, Time-of-Flight Ultrasonic Flowmeter, Electromagnetic Flowmeter, mass Flowmeter, Vortex Flowmeter, Differential Pressure Flowmeter, Variable Area Flowmeter, Paddle-Wheel Flowmeter, Impeller Flowmeter | NTD 35,700 per set (eight points) for base fee and NTD 1,000 for each additional point                                                                                                   |
| F02        | Small Water Flow Calibration System          | Turbine Flowmeter, Positive-Displacement Flowmeter, Time-of-Flight Ultrasonic Flowmeter, Vortex Flowmeter, Electromagnetic Flowmeter, Mass Flowmeter, Variable Area Flowmeter,                                                                             | NTD 21,200 per set (eight points) for base fee and NTD 1,000 for each additional point                                                                                                   |

| System No. | System Name                                | Device to be Calibrated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Fees                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                                            | Paddle-Wheel Flowmeter, Impeller Flowmeter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| F03        | Low-Viscosity Oil Flow Calibration System  | Positive-Displacement Flowmeter, Mass Flowmeter, Turbine Flowmeter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NTD 32,500 per set (eight points) for base fee and NTD 1,000 for each additional point                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| F04        | High-Viscosity Oil Flow Calibration System | Positive-Displacement Flowmeter, Mass Flowmeter, Turbine Flowmeter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NTD 32,500 per set (eight points) for base fee and NTD 1,000 for each additional point                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| F05        | High Pressure Gas Flow Calibration System  | <p>(1) Sonic Nozzle Comparison Method: Turbine Flowmeter, Positive-Displacement Flowmeter, Ultrasonic Flowmeter, Mass Flowmeter, Orifice Plate Flowmeter, Differential Pressure Flowmeter, Venturi Tube Flowmeter, Nozzle Flowmeter, Velocity-Based Flowmeter, Laminar Flowmeter, Vortex Flowmeter, Specially Designed Gas Flowmeter</p> <p>(2) Circulating Flow Comparison Method: Turbine Flowmeter, Positive-Displacement Flowmeter, Ultrasonic Flowmeter, Mass Flowmeter, Orifice Plate Flowmeter, Differential Pressure Flowmeter, Venturi Tube Flowmeter, Velocity-Based Flowmeter, Laminar Flowmeter, Vortex Flowmeter, Specially Designed Gas Flowmeter</p> | <p>(1) NTD 25,000 per set for base fee and add the following additional fee for the selected flow rate:<br/> (15 ~ 400) m<sup>3</sup>/h: NTD 1,000<br/> (400 ~ 800) m<sup>3</sup>/h: NTD 2,000<br/> (800 ~ 1600) m<sup>3</sup>/h: NTD 4,000<br/> (1600 ~ 3200) m<sup>3</sup>/h: NTD 8,000<br/> (3200 ~ 6400) m<sup>3</sup>/h: NTD 16,000<br/> (6400 ~ 12800) m<sup>3</sup>/h: NTD 32,000<br/> (12800 ~ 18000) m<sup>3</sup>/h: NTD 64,000</p> <p>(2) Nominal caliber of 50 mm and 75 mm: NTD 125,000 (single pressure condition, six flow rate points) for base fee and NTD 1,000 for each additional flow rate point<br/> Nominal caliber of 100 mm, 150 mm and 200 mm: NTD 140,700 (single pressure condition, six flow rate points) for base fee and NTD 1,000 for each additional flow rate point</p> |

| System No. | System Name                                            | Device to be Calibrated                                                                                                                                                                                                                                                                                                                                                                          | Fees                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F06        | Low Pressure Gas Flow Calibration System-Piston Prover | <p>(1) Piston Prover: Sonic Nozzle, Thermal Mass Flowmeter, Differential Pressure Flowmeter, Laminar Flowmeter, Piston-Based Flowmeter, Variable Area Flowmeter</p> <p>(2) Master Meter Method: Thermal Mass Flowmeter, Differential Pressure Flowmeter, Sonic Nozzle, Laminar Flowmeter, Bubble Flowmeter, Variable Area Flowmeter, Piston-Based Flowmeter, Positive-Displacement Flowmeter</p> | <p>(1) Piston Prover: NTD 7,500 per set for base fee and add the following additional fee for each additional point at the selected flow rate q<br/> <math>0.05 \text{ L/min} \leq q \leq 40 \text{ L/min}</math>: NTD 1,000<br/> <math>0.01 \text{ L/min} \leq q &lt; 0.05 \text{ L/min}</math>: NTD 2,000<br/> <math>0.002 \text{ L/min} \leq q &lt; 0.01 \text{ L/min}</math>: NTD 4,000</p> <p>(2) Master Meter Method: NTD 8,000 per set for base fee and add the following additional fee for each additional point at the selected flow rate q<br/> <math>1 \text{ L/min} \leq q \leq 40 \text{ L/min}</math>: NTD 1,500<br/> <math>0.2 \text{ L/min} \leq q &lt; 1 \text{ L/min}</math>: NTD 2,000<br/> <math>0.05 \text{ L/min} \leq q &lt; 0.2 \text{ L/min}</math>: NTD 4,000<br/> <math>0.01 \text{ L/min} \leq q &lt; 0.05 \text{ L/min}</math>: NTD 6,000<br/> <math>0.002 \text{ L/min} \leq q &lt; 0.01 \text{ L/min}</math>: NTD 10,000</p> |
| F08        | Low Pressure Gas Flow Calibration System-Bell Provers  | Sonic Nozzle, Thermal Mass Flowmeter, Differential Pressure Flowmeter, Laminar Flowmeter, Piston-based Flowmeter, Variable Area Flowmeter, Turbine Flowmeter, Positive-Displacement Flowmeter                                                                                                                                                                                                    | NTD 10,000 (five points) for base fee and NTD 1,000 for each additional point                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| F10        | Air Speed Calibration System                           | Anemometry                                                                                                                                                                                                                                                                                                                                                                                       | NTD 9,600 (eight points) for base fee and NTD 1,000 for each additional point                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| F11        | Micro Flow Calibration System                          | Micro Liquid Flowmeter, Liquid Metering Pump                                                                                                                                                                                                                                                                                                                                                     | NTD 13,000 for base fee and NTD 1,000 for each additional point                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| F12        | Low Pressure Gas Flow Calibration System-PVTt          | <p>(1) PVTt Method: Sonic Nozzle, Laminar Flowmeter, Differential-Pressure Flowmeter</p> <p>(2) Master Meter Method: Sonic Nozzle, Thermal Mass Flowmeter, Laminar</p>                                                                                                                                                                                                                           | <p>(1) PVTt Method: NTD 19,900 per set for base fee and add the following additional fee for each additional point at the selected flow rate q<br/> <math>100 \text{ cm}^3/\text{min} \leq q \leq 300 \text{ L/min}</math>: NTD 2,000<br/> <math>50 \text{ cm}^3/\text{min} \leq q &lt; 100 \text{ cm}^3/\text{min}</math>: NTD 3,500<br/> <math>10 \text{ cm}^3/\text{min} \leq q &lt; 50 \text{ cm}^3/\text{min}</math>: NTD 5,500<br/> An additional fee of NTD 16,800 shall be added, if the gas used is other than air.</p> <p>(2) Master Meter Method: NTD 9,300 per set for base fee and add the following additional fee for each additional point at the selected flow rate q<br/> <math>100 \text{ cm}^3/\text{min} \leq q \leq 300 \text{ L/min}</math>: NTD 1,000</p>                                                                                                                                                                            |

| System No. | System Name                                                | Device to be Calibrated                                                                                                                             | Fees                                                                                                                                                                                                                                                                                                                                                |
|------------|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                                                            | Flowmeter,<br>Differential-Pressure<br>Flowmeter,<br>Variable-Area<br>Flowmeter,<br>Positive-Displacement<br>Flowmeter                              | $50 \text{ cm}^3/\text{min} \leq q < 100 \text{ cm}^3/\text{min}$ : NTD 1,500<br>$10 \text{ cm}^3/\text{min} \leq q < 50 \text{ cm}^3/\text{min}$ : NTD 2,000<br>An additional fee of NTD 10,800 shall be added, if the gas used is other than air.                                                                                                 |
| H01        | Two Pressure Humidity Generator Measurement System         | (1) Thermo-Hygrometer<br>(2) Dew Point Meter                                                                                                        | (1) Thermo-hygrometer: NTD 7,500 (including three standard points, relative humidity of (30%, 50%, 80%) @ 20 °C) for base fee and NTD 2,400 for each additional non-standard point at a combination of one temperature and one relative humidity<br>(2) Dew Point Meter: NTD 7,500 (one point) for base fee and NTD 2,400 for each additional point |
| L01        | Vacuum Gauge Comparative Calibration System                | (1) Capacitance Diaphragm Gauge<br>(2) Low and Medium Vacuum Gauge                                                                                  | (1) Capacitance Diaphragm Gauge: NTD 15,000 (nine points) for base fee and NTD 2,000 for each additional point<br>(2) Low and Medium Vacuum Gauge: NTD 10,800 (nine points) for base fee and NTD 1,000 for each additional point                                                                                                                    |
| L02        | Dynamic Expansion Method Vacuum Gauge Calibration System   | Ionization Gauge, Spinning Rotor Viscosity Gauge                                                                                                    | NTD 15,000 (nine points) for base fee and NTD 2,000 for each additional point                                                                                                                                                                                                                                                                       |
| M01        | Small Mass Weighing System                                 | Standard Weight                                                                                                                                     | NTD 4,200 per piece                                                                                                                                                                                                                                                                                                                                 |
| M03        | Large Mass Weighing System                                 | Standard Weight                                                                                                                                     | (1) NTD 8,500 per piece (2 kg, 5 kg, 10 kg, or 20 kg)<br>(2) NTD 11,600 per piece (1000 kg)                                                                                                                                                                                                                                                         |
| N01<br>N02 | Deadweight Measurement system (I, II)                      | (1) Proving Ring<br>(2) Force Transducer, Load Cell<br>(3) Ring Dynamometer, Force Gauge (5 kgf ~ 5000 kgf)<br>(4) Force Transducer (Dynamic Force) | (1) Proving ring: NTD 9,500 per piece (three cycles of ten points)<br>(2) Force Transducer, load cell: NTD 8,100 per piece (three cycles of ten points)<br>(3) Ring dynamometer, force gauge: NTD 6,100 per set (three cycles of ten points)<br>(4) NTD 40,900 (nine points) for base fee and NTD 1,000 for each additional point                   |
| N03        | Force Comparison Calibration System (I)                    | Force Transducer, Load Cell, Ring Dynamometer, Force Gauge (10000 kgf ~ 200000 kgf )                                                                | NTD 21,600 (three cycles of ten points)                                                                                                                                                                                                                                                                                                             |
| N04<br>N05 | Force Comparison Calibration System (II, III)              | (1) Proving Ring<br>(2) Force Transducer, Load Cell<br>(3) Ring Dynamometer, Force Gauge (500 kgf ~ 50000 kgf)                                      | (1) Proving ring: NTD 9,500 per piece (three cycles of ten points)<br>(2) Force Transducer, load cell: NTD 8,100 per piece (three cycles of ten points)<br>(3) Ring dynamometer, force gauge: NTD 6,100 per set (three cycles of ten points)                                                                                                        |
| N06        | Rockwell and Superficial Rockwell Hardness Standard System | Rockwell Hardness Standard Block                                                                                                                    | NTD 1,500 per block                                                                                                                                                                                                                                                                                                                                 |

| System No. | System Name                              | Device to be Calibrated                                                                                                                                                                                              | Fees                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N07        | Vickers Hardness Standard System         | Vickers Hardness Standard Block                                                                                                                                                                                      | NTD 2,500 per block                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| N08        | Micro Vickers Hardness Standard System   | Micro Vickers Hardness Standard Block                                                                                                                                                                                | NTD 2,500 per block                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| N09        | 500 N Dead Weight Machine System         | Force Transducer, Load Cell, Ring Dynamometer, Force Gauge (1 N ~ 500 N)                                                                                                                                             | NTD 7,800 (thirty points) per piece                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| N10        | Nanoindentation Measurement System       | Bulk Material, Thin Film Specimen                                                                                                                                                                                    | NTD 3,800 (five points) for base fee and NTD 700 for each additional point                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| N11        | Force Comparison Calibration System (IV) | (1) Wire Material (Young's Modulus Measurement)<br>(2) Force Transducer                                                                                                                                              | (1) NTD 4,100 per piece<br>(2) NTD 4,100 (three points) for base fee and NTD 1,000 for each additional point                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| N12        | Torque Calibration System                | Torque Transducer                                                                                                                                                                                                    | (1) < 2000 N·m: NTD 15,500 (ten points)<br>(2) (2000 to 5000) N·m: NTD 25,000 (ten points)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| O02        | Total Luminous Flux System               | (1) Total Luminous Flux Standard Lamp<br>(2) Gloss Standard Plate, Gloss Meter<br>(3) Averaged LED Intensity Standard LED<br>(4) Total Luminous Flux Standard LED<br>(5) Chromaticity Standard LED                   | (1) Total Luminous Flux Standard Lamp: NTD 7,000<br>(2) Gloss Standard Plate and Gloss Meter: NTD 4,500 for base fee and NTD 1,000 for each additional kind of geometric angle<br>(3) Averaged LED Intensity Standard LED: NTD 6,000<br>(4) Total Luminous Flux Standard LED: NTD 6,500<br>(5) Chromaticity Standard LED: NTD 6,500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| O03        | Spectro radiometric System               | (1) Spectral Irradiance Standard Lamp<br>(2) Si Detector<br>(3) V(λ) Detector<br>(4) Luminance Meter<br>(5) Luminance Colorimeter<br>(6) Spectroradiometer<br>(7) Spectral Radiance Standard Lamp<br>(8) Ge Detector | (1) Spectral Irradiance Standard Lamp: NTD 9,500 (ten points) for base fee and NTD 100 for each additional point<br>(2) Si Detector: NTD 7,900 (300 nm ~ 1100 nm) for base fee and NTD 1,000 for addition range of (200 nm ~ 290 nm)<br>(3) V(λ) Detector: NTD 7,000 (380 nm ~ 780 nm)<br>(4) Luminance Meter: NTD 6,500 (three points) for base fee and NTD 900 for each additional point<br>(5) Luminance Colorimeter: NTD 7,400 for base fee (including one point of luminance and chromaticity (x, y) value) and NTD 1,300 for each additional luminance point<br>(6) Spectroradiometer: NTD 10,800 (including one spectral radiance and one luminance) for base fee and NTD 5,000 for each additional point of spectral radiance and NTD 2,000 for each additional point of luminance<br>(7) Spectral Radiance Standard Lamp: NTD 8,000 (including one spectral radiance and one luminance) for base fee and NTD 5,000 for each additional point of spectral radiance and NTD 2,000 for each additional point of luminance<br>(8) Ge Detector: NTD 8,000 (900 nm ~ 1600 nm) |
| O05        | Spectro photometric System               | (1) Standard Color Plate, Filter<br>(2) Reflectance Standard                                                                                                                                                         | (1) Standard Color Plate, Filter: NTD 8,000 per piece<br>(2) Reflectance Standard: NTD 8,000 (380 nm ~ 780 nm) for base fee and NTD 100 for addition wavelength point                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| System No. | System Name                                                      | Device to be Calibrated                                                                                                                                                                                          | Fees                                                                                                                                                                                                                                                                                                                                                                                    |
|------------|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| O06        | Absolute Radiometer System                                       | (1) Luminous Intensity Standard Lamp<br>(2) Illuminance Meter<br>(3) Chroma Meter<br>(4) Optical Detector<br>(5) Laser Light Source                                                                              | (1) Luminous Intensity Standard Lamp: NTD 12,000<br>(2) Illuminance Meter: NTD 4,500 (three points) for base fee and NTD 1,000 for each additional point<br>(3) Chroma Meter: NTD 5,300 for base fee (including one point of illuminance and chromaticity (x, y) value) and NTD 1,000 for each additional point<br>(4) Optical Detector: NTD 6,500<br>(5) Laser Light Source: NTD 6,500 |
| O07        | Absolute Cryogenic Radiometer Measurement System                 | (1) Si Photodiode, Ge Photodiode<br>(2) Trap Detector<br>(3) $V(\lambda)$ Detector (Detector-based Scale Realization)<br>(4) $V(\lambda)$ Detector (Substitution Method)<br>(5) Luminous Intensity Standard Lamp | (1) NTD 60,800 per set<br>(2) NTD 178,800 (forty points) for base fee and NTD 2,000 for each additional point<br>(3) NTD 99,300 per piece<br>(4) NTD 14,400 per piece<br>(5) NTD 14,400 per piece                                                                                                                                                                                       |
| O08        | Haze Measurement System                                          | Transmittance Haze Standard Plate                                                                                                                                                                                | NTD 6,000 per piece                                                                                                                                                                                                                                                                                                                                                                     |
| O09        | Spectral Scattering Measurement System                           | White Standard Plate (Bidirectional Reflectance Distribution Function Measurement)                                                                                                                               | NTD 7,700 for one angle and one wavelength range per piece and NTD 2,000 for each angle additional wavelength range                                                                                                                                                                                                                                                                     |
| O10        | Total Spectral Radiant Flux Calibration System                   | Total Spectral Radiant Flux Standard Lamp                                                                                                                                                                        | NTD 20,000 (total spectral radiant flux) for base fee and NTD 1,000 for each additional item, such as total radiant flux, chromaticity coordinates or correlated color temperature                                                                                                                                                                                                      |
| P01        | Mercury Manometer Pressure Measurement System                    | (1) Mercury Barometer<br>(2) Mercury Manometer<br>(3) Digital Pressure Gauge                                                                                                                                     | (1) Mercury Barometer: NTD 13,000 (five points) for base fee and NTD 2,000 for each additional point<br>(2) Mercury Manometer: NTD 3,100 (five points) for base fee and NTD 600 for each additional point<br>(3) Digital Pressure Gauge: NTD 15,000 (five points) for base fee and NTD 2,000 for each additional point                                                                  |
| P03        | Hydraulic Pressure Measurement System                            | (1) Oil piston Pressure Gauge<br>(2) Oil Pressure Gauge<br>(3) Digital Pressure Gauge                                                                                                                            | (1) Oil Piston Pressure Gauge: NTD 23,700 per point<br>(2) Oil Pressure Gauge: NTD 10,000 (five points) for base fee and NTD 1,500 for each additional point<br>(3) Digital Pressure Gauge: NTD 14,000 (five points) for base fee and NTD 2,000 for each additional point                                                                                                               |
| P04        | Pneumatic Pressure Measurement System                            | (1) Gas Piston Pressure Gauge<br>(2) Gas Pressure Gauge<br>(3) Digital Pressure Gauge                                                                                                                            | (1) Gas Piston Pressure Gauge: NTD 25,000 per point<br>(2) Gas Pressure Gauge: NTD 5,800 (five points) for base fee and NTD 600 for each additional point<br>(3) Digital Pressure Gauge: NTD 15,000 (five points) and NTD 2,000 for each additional point                                                                                                                               |
| P06        | Laser Interferometer Mercury Manometer for Low Pressure Standard | (1) Piston Pressure Gauge<br>(2) Vacuum Gauge, Differential Pressure Gauge, Digital Pressure Gauge                                                                                                               | (1) Piston Pressure Gauge: NTD 39,000<br>(2) Vacuum Gauge, Differential Pressure Gauge, Digital Pressure Gauge: NTD 15,000 (five points) for base fee and NTD 2,000 for each additional point                                                                                                                                                                                           |

| System No. | System Name                                                        | Device to be Calibrated                                                                                                                                                                               | Fees                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| T01        | Radiation Thermometer Measurement System                           | (1) Radiation Thermometer (Comparative Calibration)<br>(2) Room/Low Infrared Radiation Thermometer (Comparative Calibration)<br>(3) Radiation Thermometer, Linear Pyrometer (Fixed-point Calibration) | (1) 300 °C ~ 3000 °C:<br>NTD 13,200 per piece (five points at 300 °C ~ 1500 °C) for base fee, NTD 1,500 for each additional point at 300 °C ~ 1500 °C, NTD 2,500 for each additional point at 1501 °C ~ 2000 °C and NTD 15,000 for each additional point at 2001 °C ~ 3000 °C<br>(2) -40 °C ~ 300 °C:<br>NTD 13,400 per piece (five points at 10 °C ~ 300 °C) for base fee, NTD 1,500 for each additional point at 10 °C ~ 300 °C and NTD 2,500 for each additional point at -40 °C ~ 9 °C<br>(3-1) 156.5975 °C ~ 1084.62 °C:<br>NTD 78,100 per piece (four points, including the fixed-point of Sn (231.928 °C), the fixed-point of Zn (419.527 °C), the fixed-point of Al (660.323 °C) and the fixed-point of Ag (961.78 °C)) for base fee, NTD 20,600 for an additional point at the fixed-point of In (156.5975 °C) and NTD 20,600 for an additional point at the fixed-point of Cu (1084.62 °C)<br>(3-2) 1084.62 °C ~ 2474 °C:<br>NTD 93,800 per piece (four points, including the fixed-point of Cu (1084.62 °C), the eutectic fixed-point of Co-C (1324 °C), the eutectic fixed-point of Pt-C (1738 °C) and the eutectic fixed-point of Re-C (2474 °C)) for base fee |
| T03        | Thermocouple Thermometer Measurement System                        | Type B, R, S or Pt/Pd Thermocouple (Fixed-point Calibration)                                                                                                                                          | NTD 30,000 per piece (three points at 0 °C ~ 962 °C) for base fee, NTD 6,000 for each additional point at 0 °C ~ 962 °C, NTD 20,600 for an additional point at 1324 °C and NTD 33,000 for an additional point at 1492 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| T04        | Resistance Thermometer Measurement System                          | Resistance Temperature Sensor, Digital Thermometer, Thermistor                                                                                                                                        | NTD 4,000 (two points) for base fee and NTD 1,500 for each additional point<br>NTD 10,000 per piece for emulation fixed-point calibration or linear regression calibration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| T05        | Fixed Point Measurement System for Platinum Resistance Thermometer | (1) Standard Platinum Resistance Thermometer<br>(2) Long-Stem Standard Platinum Resistance Thermometer, Capsule Standard Platinum Resistance Thermometer                                              | (1) NTD 30,000 per piece (0 °C ~ 661 °C)<br>NTD 32,000 per piece (0 °C ~ 962 °C)<br>NTD 33,000 per piece (-190 °C ~ 157 °C)<br>NTD 33,000 per piece (-190 °C ~ 420 °C)<br>NTD 27,200 per piece (-190 °C ~ 0 °C, 0 °C ~ 30 °C)<br>NTD 27,200 per piece (0 °C ~ 157 °C, 0 °C ~ 231 °C)<br>NTD 27,200 per piece (0 °C ~ 420 °C)<br>(2) NTD 149,400 per piece (three points, including 234.3156 K, 273.16 K and 302.9146 K) for base fee                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| U01        | Microwave Power Measurement System                                 | (1) Microwave Power Sensor (Calibration Factor Measurement)<br>(2) Microwave Power Meter                                                                                                              | (1) Microwave Power Sensor: NTD 6,800 for base fee (nine frequency points selected at random) and NTD 250 for each additional point<br>(2) Microwave Power Meter: NTD 5,100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| U02        | Microwave S-parameter Measurement System                           | (1) Microwave Component with Coaxial Connector: Air Line, Open Circuit, Short Circuit, Sliding Short Circuit, Load, Sliding Load, Mismatch,                                                           | (1) NTD 4,400 for base fee (one point for single parameter) and NTD 200 for each additional point<br>(2) NTD 21,800 (five points) for base fee and NTD 1,000 for each additional point                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| System No.       | System Name                                             | Device to be Calibrated                                                                                                                       | Fees                                                                                                                                                                                                                                                                                                                                                          |
|------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  |                                                         | Coaxial Line, Attenuator (Scattering Parameter Measurement)<br>(2) Millimeter Wave Component with Waveguide                                   |                                                                                                                                                                                                                                                                                                                                                               |
| U06              | Electromagnetic Field Strength Measurement System       | Electromagnetic Intensity Meter, Microwave Leakage Tester                                                                                     | NTD 7,100 for base fee (including one intensity value of one frequency point) and additional fees specified below:<br>(1) NTD 1,400 for each additional frequency point (including one field intensity value)<br>(2) NTD 500 for each additional field intensity value (at the same frequency point)                                                          |
| V01              | Calibration System of Vibration by Laser Interferometry | (1) Standard Accelerometer<br>(2) Charge Amplifier                                                                                            | (1) Standard Accelerometer: NTD 26,500 for base fee and NTD 2,000 for each additional point<br>(2) Charge Amplifier: NTD 10,600                                                                                                                                                                                                                               |
| V02              | Calibration System of Vibration by Comparison           | (1) Piezo-Resistance or Piezo-Electric Accelerometer<br>(2) Vibration Meter                                                                   | (1) Piezo-Resistance or Piezo-Electric Accelerometer: NTD 8,900 (five points) for base fee and NTD 1,000 for each additional point<br>(2) Vibration Meter: NTD 11,300 (five points) for base fee and NTD 1,200 for each additional point                                                                                                                      |
| V03              | Calibration System of Shock by Comparison               | Piezo-Resistance or Piezo-Electric Accelerometer                                                                                              | NTD 10,300 (two points) for base fee and NTD 2,000 for each additional point                                                                                                                                                                                                                                                                                  |
| V04              | Calibration System of Low Frequency Vibration           | (1) Low Frequency Vibration Meter<br>(2) Low Frequency Accelerometer<br>(3) Low Frequency Standard Accelerometer                              | (1) Low Frequency Vibration Meter: NTD 11,400 (five points) for base fee and NTD 1,200 for each additional point<br>(2) Low Frequency Accelerometer: NTD 9,700 (five points) for base fee and NTD 1,000 for each additional point<br>(3) Low Frequency Standard Accelerometer: NTD 21,900 (three points) for base fee and NTD 1,500 for each additional point |
| V06              | Primary Shock Vibration Calibration System              | Shock Accelerometer                                                                                                                           | NTD 16,000 (three points) for base fee and NTD 2,000 for each additional point                                                                                                                                                                                                                                                                                |
| kk1001<br>kk1002 | Gamma Ray Air Kerma Calibration System                  | Standard Ionization Chamber (Attached with Expanded Jacket)                                                                                   | NTD 9,600 (energy range Cs-137、Am-241、Co-60) for base fee and NTD 2,000 for each additional energy point                                                                                                                                                                                                                                                      |
| kk1003<br>kk1004 | X-ray Air Kerma Calibration System                      | (1) Standard Ionization Chamber<br>(2) CT Ion Chamber<br>(3) DAP Measuring Devices                                                            | (1) NTD 9,600 (energy range 20kV~300kV) for base fee and NTD 2,000 for each additional energy point<br>(2) NTD 9,600 per piece<br>(3) NTD 9,600 per piece                                                                                                                                                                                                     |
| kk1005           | Co-60 Absorbed Dose to Water Calibration System         | (1) Standard Ionization Chamber (Waterproof or Attached with Waterproof Jacket)<br>(2) Radiation Irradiation Facility<br>(3) Blood Irradiator | (1) NTD 9,600 per set (energy range Co-60) for base fee and NTD 2,000 for each additional energy point<br>(2) NTD 30,000 per set<br>(3) NTD 15,000 per set                                                                                                                                                                                                    |

| System No.                                               | System Name                                                         | Device to be Calibrated                                                                                                                                                                                                                                                                                        | Fees                                                                                                                                                                                                        |
|----------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| kk1006                                                   | Beta Absorbed Dose to Tissue Calibration System                     | Sr-90/Y-90 Radiation Source or Extrapolation Ionization Chamber                                                                                                                                                                                                                                                | NTD 60,000 per chamber                                                                                                                                                                                      |
| kk1007                                                   | Neutron Dose Measuring System                                       | Medical Linear Accelerator                                                                                                                                                                                                                                                                                     | (1) Neutron dose measurement in radiation beam: NTD 27,000 per set<br>(2) Leakage dose measurement: NTD 14,000 per set                                                                                      |
| kk1008                                                   | Neutron Ambient Dose Equivalent Calibration System                  | Neutron Survey Meter                                                                                                                                                                                                                                                                                           | NTD 9,600 (energy range Cf-252 or Am-241/Be-9) for base fee and NTD 2,000 for each additional energy point                                                                                                  |
| kk1001<br>kk1002<br>kk1003<br>kk1004<br>kk1006<br>kk1008 | Personnel Dosimeter Calibration System                              | Personnel Dosimeter                                                                                                                                                                                                                                                                                            | NTD 2,400 per energy point (X-ray within an energy range of 20 kV~300 kV, Sr-90/Y-90, Cf-252, Am-241/Be-9, Cs-137, Co-60 )                                                                                  |
| kk1009                                                   | Dose Calibrator Calibration System                                  | (1) Well-Type Ionization Chamber (Radio Nuclide Calibrator)<br>(2) Well-Type Ionization Chamber (Ir-192)                                                                                                                                                                                                       | (1) NTD 14,000 per set for base fee and NTD 8,000 for each additional nuclide<br>(2) NTD 14,000 per set for base fee and NTD 8,000 for each additional nuclide                                              |
| kk1010                                                   | Liquid gamma radiation source activity calibration system           | Single Nuclide Liquid Radiation Source                                                                                                                                                                                                                                                                         | NTD 9,600 per unit                                                                                                                                                                                          |
| kk1011                                                   | Radiation source particle emission rate calibration system          | Electroplate Large-Area $\alpha$ or $\beta$ Emitted Source                                                                                                                                                                                                                                                     | NTD 12,000 per unit                                                                                                                                                                                         |
| kk1012                                                   | Linear Accelerator Photon Absorbed Dose to Water Calibration System | Standard Ionization Chamber                                                                                                                                                                                                                                                                                    | NTD 50,000 per set (including 6 MV, 10 MV and Co-60)                                                                                                                                                        |
| kk1001<br>kk1002<br>kk1003<br>kk1004<br>kk1006<br>kk1008 | Personnel Dosimeter Proficiency Testing                             | (1) IA.01, Accident, Low-Energy Photons<br>(2) IA.02, Accident, High-Energy Photons<br>(3) IA.03, Protection, Low-Energy Photons<br>(4) IA.04, Protection, High-Energy Photons<br>(5) IA.05, Protection, Beta Particals<br>(6) IA.06, Protection, Photons Mixtures<br>(7) IA.07, Protection, Photons Plus Beta | (1) 28,800 per unit<br>(2) 28,800 per unit<br>(3) 28,800 per unit<br>(4) 28,800 per unit<br>(5) 28,800 per unit<br>(6) 28,800 per unit<br>(7) 28,800 per unit<br>(8) 28,800 per unit<br>(9) 34,000 per unit |

| System No.       | System Name                                              | Device to be Calibrated                                                                                                                                     | Fees                                                                                                                                                                                                       |
|------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  |                                                          | Particals<br>(8) IA.08, Protection, Photons Plus Neutrons<br>(9) IA.09, Protection, Varied Angles of Incidence Photons                                      |                                                                                                                                                                                                            |
| kk1002<br>kk1011 | Survey Meter Proficiency Testing                         | (1) Gamma Radiation Dosemeter and Doseratemeter<br>(2) Beta Radiation Counter<br>(3) Alpha Radiation Counter                                                | (1) 36,000 per unit<br>(2) 36,000 per unit<br>(3) 36,000 per unit                                                                                                                                          |
| kk1004           | kVp Measuring Devices Calibration System for Mammography | kVp Measuring Devices                                                                                                                                       | NTD 9,600 per piece                                                                                                                                                                                        |
| KJ01-1           | Time Interval Measuring System                           | (1) Cs or H-Maser Time Standard<br>(2) Rb Time Standard or GPS Receiver (Time)<br>(3) Oven Controlled Crystal Oscillator (OCXO)<br>(4) Quartz Oscillator    | (1) NTD 16,000 per set<br>(2) NTD 16,000 per set<br>(3) NTD 8,500 per set<br>(4) NTD 4,500 per set                                                                                                         |
| KJ02-2           | Frequency Measuring System                               | (1) Oven Controlled Crystal Oscillator (OCXO)<br>(2) Quartz Oscillator                                                                                      | (1) NTD 8,500 per set<br>(2) NTD 4,500 per set                                                                                                                                                             |
| KJ02-6           |                                                          | (3) Microwave Frequency Signal Generator(with Atomic Clock External Reference )<br>(4) Microwave Frequency Signal Generator(with OCXO Internal Oscillator ) | (3) NTD 25,000 for base fee ( $\leq 5$ calibration points) and NTD 5,000 for each additional point.<br>(4) NTD 25,000 for base fee ( $\leq 5$ calibration points) and NTD 5,000 for each additional point. |
| KJ02-3           | Phase Comparison System                                  | (1) Rb Frequency Standard or GPS Receiver (Frequency)<br>(2) Cs or H-Maser Frequency Standard                                                               | (1) NTD 16,000 per set<br>(2) NTD 16,000 per set                                                                                                                                                           |
| KJ02-4           | Frequency and Phase Measuring System                     | High Performance Frequency Standard                                                                                                                         | NTD 16,000 per set                                                                                                                                                                                         |
| KJ02-5           | Remote Frequency Calibration                             | Cs or H-Maser Time Standard & OCXO                                                                                                                          | NTD 20,000 per set (with extra NTD 5,000 for one more measurement)                                                                                                                                         |

| System No. | System Name                                               | Device to be Calibrated                                                                                                         | Fees                                                                                    |
|------------|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
|            | System                                                    |                                                                                                                                 |                                                                                         |
| KJ02-7     | Portable Cesium Clock Time Scale Calibration System       | (1) Cs or H-Maser Time Standard<br>(2) Rb Time Standard or GPS Receiver (Time)<br>(3) Oven Controlled Crystal Oscillator (OCXO) | NTD 30,000 per set                                                                      |
| KJ02-8     | Optical Comb Laser Microwave Frequency Calibration System | Frequency Signal Generator                                                                                                      | NTD 30,000 for base fee (5 calibration points) and NTD 5,000 for each additional point. |

**Annex 10****Fees for Calibration Conducted by the Dedicated Weights and Measures authority and Its Branches**

| Item                             | Class                                  | Calibration Fee Per Piece                                                                                    |
|----------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Weights                          | Not more than 100g                     | NTD 80                                                                                                       |
|                                  | 200g~2kg                               | NTD 110                                                                                                      |
|                                  | 5kg~20kg                               | NTD 230                                                                                                      |
|                                  | 50kg                                   | NTD 350                                                                                                      |
|                                  | 100kg~200kg                            | NTD 850                                                                                                      |
|                                  | 500kg                                  | NTD 1,200                                                                                                    |
|                                  | 1,000kg                                | NTD 2,350                                                                                                    |
| Electronic Balance               | Weighing capacity not more than 60kg   | NTD 1,750                                                                                                    |
| Measuring Pail<br>Measuring Tank | Not more than 20l                      | NTD 850                                                                                                      |
|                                  | More than 20l but not more than 50l    | NTD 1,550                                                                                                    |
|                                  | More than 50l but not more than 1,000l | NTD 2,550                                                                                                    |
|                                  | More than 1,000l                       | NTD 1,000 for each increment of 1,000l; and NTD 1,000 shall be charged for the increment of less than 1,000l |

**Annex 11****Calibration Fees for Weights**

| Item    | Class              | Error Check Per Piece | For an on-site error check conducted by personnel dispatched by the dedicated weights and measures authority or its branches at the storage place of weights, an additional on-site error check fee of NTD 500 per person-time shall be charged. |
|---------|--------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Weights | Not more than 20kg | NTD 50                |                                                                                                                                                                                                                                                  |
|         | 20kg~50kg          | NTD 200               |                                                                                                                                                                                                                                                  |
|         | 100kg~200kg        | NTD 250               |                                                                                                                                                                                                                                                  |
|         | 500kg              | NTD 500               |                                                                                                                                                                                                                                                  |
|         | 1,000kg            | NTD 1,000             |                                                                                                                                                                                                                                                  |

## Annex 12

### Certification Fees for Reference Material by National Measurement Laboratories

| System No. | System name                                                                    | Reference Material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Fees                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C08        | Gravimetric High-Pressure Cylinder Gas Mixture Supply and Certification System | (1) Cylinder Gas Supply and Certification (CO/N <sub>2</sub> , CO <sub>2</sub> /N <sub>2</sub> , CH <sub>4</sub> /N <sub>2</sub> , C <sub>3</sub> H <sub>8</sub> /N <sub>2</sub> , NO/N <sub>2</sub> , SO <sub>2</sub> /N <sub>2</sub> , SF <sub>6</sub> /N <sub>2</sub> , CF <sub>4</sub> /N <sub>2</sub> , O <sub>2</sub> /N <sub>2</sub> , CH <sub>4</sub> /Air)<br>(2) Cylinder Gas Supply and Certification ((CO + CO <sub>2</sub> + C <sub>3</sub> H <sub>8</sub> )/N <sub>2</sub> )<br>(3) Cylinder Gas Supply and Certification (C <sub>2</sub> H <sub>5</sub> OH/N <sub>2</sub> , H <sub>2</sub> S/N <sub>2</sub> )<br>(4) Cylinder Gas Supply and Certification (N <sub>2</sub> O/N <sub>2</sub> )<br>(5) Cylinder Gas Supply and Certification (VOCs (include Benzene, Toluene, Ethylbenzene, Xylenes)/N <sub>2</sub> ) | (1) Reference Material of Binary Gas Mixtures Certification: NTD 11,000 per piece (For each gas component) NTD 55,000 per piece (including Reference Material Supply) (For each gas component)<br>(2) Reference Material of Multi-component Gas Mixtures Certification: NTD 70,000 per piece (including Reference Material Supply)<br>(3) Reference Material of Binary Gas Mixtures Certification: NTD 70,000 per piece (including Reference Material Supply) (For each gas component)<br>(4) Reference Material of Binary Gas Mixtures Certification: NTD 55,000 per piece (including Reference Material Supply)<br>(5) NTD 100,000 |
| C12        | Gravimetric Environmental Hormone Supply and Certification System              | DEHP in Methanol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NTD 3,900                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| C13        | Static Gravimetric Method Inorganic Element Supply and Certification System    | Lead Standard Solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NTD 8,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |