

Test Report of the Test Unit.....to specify the name.....
 who is a person carrying out the test on the prototype of the length measurer
 Type of Length Measurer
 Name or Trademark Model.....Capacity Range

Table 1 Result of Visual Inspection

No.	Characteristics of the Prototype of the Length Measurer as Inspected	Result of Inspection (to mark ✓ or ✗ in the case of inaccuracy, please explain details)		
		Accuracy	Inaccuracy	Details (please specify)
1	It is made of good materials.			
2	It is made of metal, hardwood, fiber or other materials which have already been examined by the Central Bureau to be similarly qualified.			
3	The straight line length measurer shall be made to be flat, straight and unable to fold.			
4	The folding length measurer shall be made in such a way that every part shall stop at the joint fitly when it is unfolded.			
5	The principal scale marks shall have a value of 1×10^k or 2×10^k or 5×10^k metres whereby k is a positive integer, a negative integer, or zero.			
6	Scale marks, numbers, alphabets or other symbols shall be legible, clear and indelible.			
7	The length of a big scale mark shall be clear to see, legible, permanent, and longer than a small scale mark.			
8	The scale mark shall be perpendicular to the edge of the length measurer.			
9	It shall indicate the following details on the instrument. Such details shall be provided in a legible, clear and indelible manner. - the name or trademark of a producer, an importer or a seller, - the model that is specified the form of the instrument, - a capacity range.			

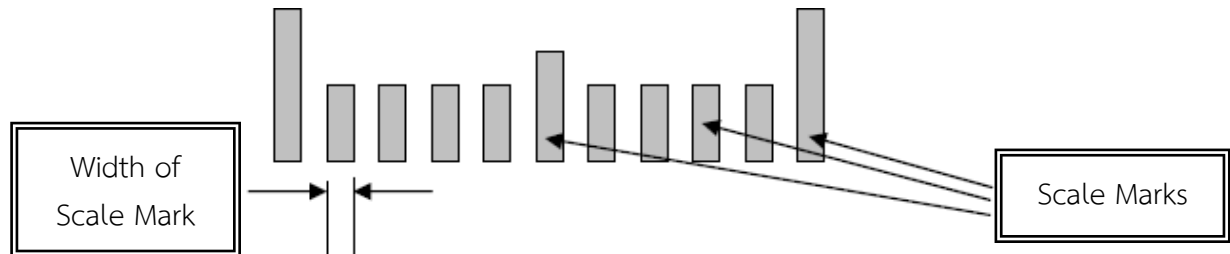
No.	Characteristics of the Prototype of the Length Measurer as Inspected	Result of Inspection (to mark ✓ or ✗ in the case of inaccuracy, please explain details)		
		Accuracy	Inaccuracy	Details (please specify)
10	Each type of length measurer shall have the following capacity ranges: ☐ as for the type of an automatic rolling metal tape, it shall have the capacity range of not exceeding 15 metres, ☐ as for the type of a straight line, it shall have the capacity range of not exceeding 5 metres, ☐ as for the folding type, it shall have the capacity range of not exceeding 5 metres, ☐ as for the type of a tape made of fiberglass without a case and a winding device, it shall have the capacity range of not exceeding 5 metres, ☐ as for the type of a tape made of fiberglass with a case and a winding device, it shall have the capacity range of not exceeding 100 metres, ☐ as for the type of a metal tape and a chain, it shall have the capacity range starting at 5 metres and not exceeding 200 metres, ☐ as for the type of a metal tape combined with a sinker, it shall have the capacity range starting at 5 metres and not exceeding 50 metres.			
11	A capacity range shall be indicated in a clear sight and an indelible manner. It shall be indicated in Thai or Arabic numbers and Thai alphabets or alphabets or symbols as stipulated by the Minister.			

Table 2 Result of Inspection of Width of Scale Mark

Type of Length Measurer.....

Name or TrademarkModel.....

Capacity RangeScale Interval millimetres



1. The width of the scale mark shall not be wider than half of the smallest scale interval.
2. The width of the scale mark shall not be greater than 0.75 millimetres.
3. If the scale interval is wider than 2 centimetres, the width of the scale mark shall not be greater than 2 millimeters.

Scale Mark as Tested (metres)	Width of Scale Mark as measured (millimetres)	Width of Scale Mark as measured not be greater than (millimetres)	Test Result
Distance between 0 and 50 centimetres			☐ Pass ☐ Not Pass
Distance between 50 and 100 centimetres			☐ Pass ☐ Not Pass
Distance between 50 centimetres before half of capacity range			☐ Pass ☐ Not Pass
Distance between 50 centimetres before capacity range			☐ Pass ☐ Not Pass

Criteria for Consideration The width of the scale mark shall not be wider than half of the smallest scale interval and not be greater than 0.75 millimetres. If the scale interval is wider than 2 centimetres, the width of the scale mark shall not be greater than 2 millimetres. It shall be deemed to pass the inspection.

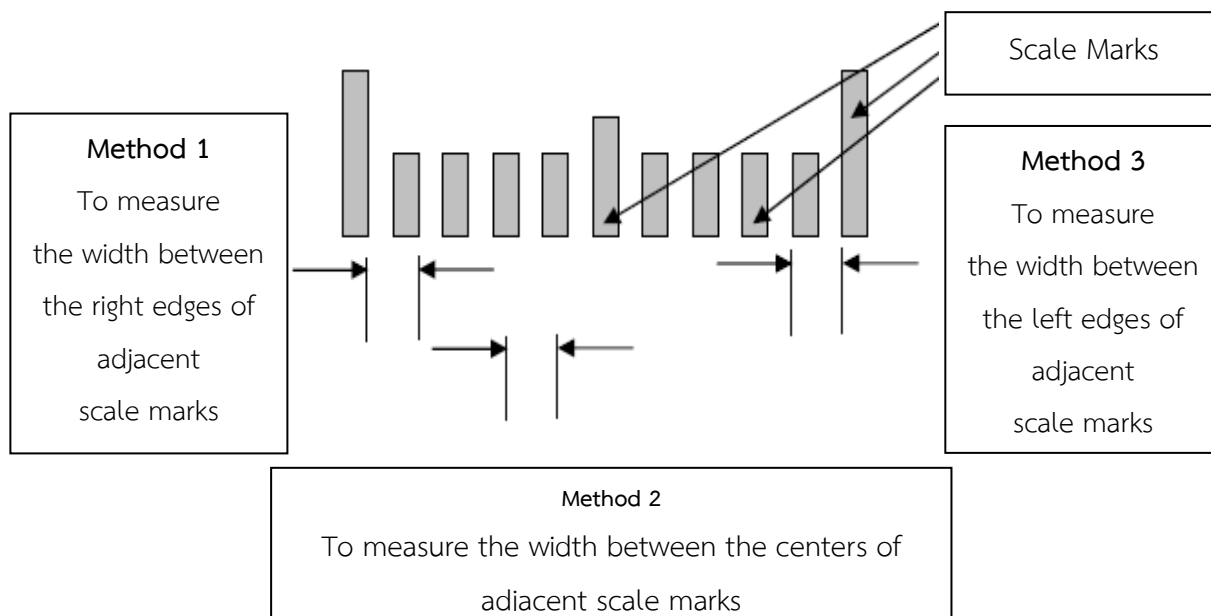
Test Result☐ Pass☐ Not Pass

Table 3 Result of Inspection of Width of Scale Interval

Type of Length Measurer.....

Name or Trademark..... Model

Capacity Range metres Scale Interval millimetres

To choose: ☐ Method 1 To measure the width between the right edges of adjacent scale marks☐ Method 2 To measure the width between the centers of adjacent scale marks☐ Method 3 To measure the width between the left edges of adjacent scale marks

Distance as Tested (metres)	Scale Interval as measured (millimetres)	Error of Scale Interval (millimetres)	Maximum Permissible Error (millimetres)	Test Result
Distance between 0 and 50 centimetres				☐ Pass ☐ Not Pass
Distance between 50 and 100 centimetres				☐ Pass ☐ Not Pass
Distance between 50 centimetres before half of capacity range				☐ Pass ☐ Not Pass
Distance between 50 centimetres before capacity range				☐ Pass ☐ Not Pass

Criteria for Consideration

- (1) As for an automatic rolling metal tape length measurer, a straight line length measurer, a metal tape length measurer and a chain and a metal tape length measurer combined with a sinker

Scale Interval	Maximum Permissible Error
not exceeding 1 millimetre	0.2 millimetres
greater than 1 millimetre but not exceeding 1 centimetre	0.4 millimetres
greater than 1 centimetre	0.5 millimetres

- (2) As for a folding length measurer and a tape length measurer made of fiberglass

Scale Interval	Maximum Permissible Error
not exceeding 1 millimetre	0.3 millimetres
greater than 1 millimetre but not exceeding 1 centimetre	0.6 millimetres
greater than 1 centimetre	1.0 millimetre

Test Result

Pass



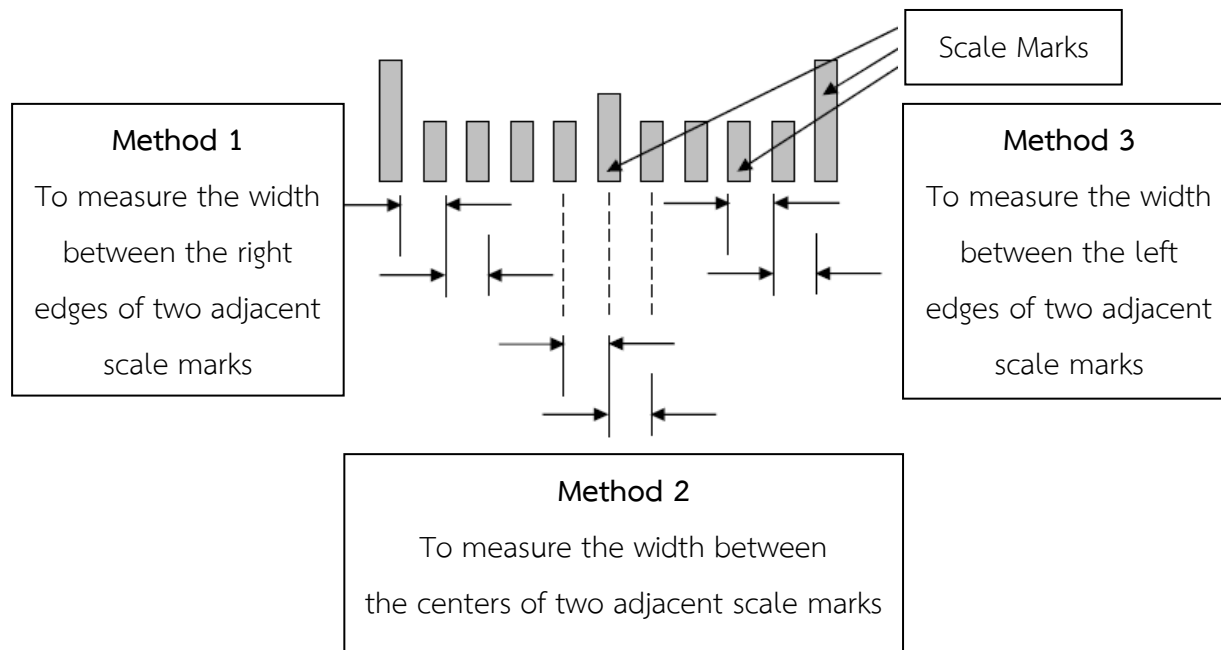
Not Pass

Table 4 Result of Inspection of Width of Two Adjacent Scale Intervals

Type of Length Measurer.....

Name or Trademark..... Model

Capacity Range metres Scale Interval millimetres

To choose: ☐ Method 1 To measure the width between the right edges of two adjacent scale marks☐ Method 2 To measure the width between the centers of two adjacent scale marks☐ Method 3 To measure the width between the left edges of two adjacent scale marks

Distance as Tested (metres)	At distance (interval 1)/ Scale Interval as measured (millimetres)	At distance (interval 2)/ Scale Interval as measured (millimetres)	Difference of Scale Interval (millimetres)	Maximum Permissible Error (millimetres)	Test Result
Distance between 0 and 50 centimetres					☐ Pass ☐ Not Pass
Distance between 50 and 100 centimetres					☐ Pass ☐ Not Pass
Distance between 50 centimetres before half of capacity range					☐ Pass ☐ Not Pass

Distance as Tested (metres)	At distance (interval 1)/ Scale Interval as measured (millimetres)	At distance (interval 2)/ Scale Interval as measured (millimetres)	Difference of Scale Interval (millimetres)	Maximum Permissible Error (millimetres)	Test Result
Distance between 50 centimetres before capacity range					☐ Pass ☐ Not Pass

Criteria for Consideration

(1) As for an automatic rolling metal tape length measurer, a straight line length measurer, a metal tape length measurer and a chain and a metal tape length measurer combined with a sinker

Scale Interval	Maximum Permissible Error
not exceeding 1 millimetre	0.2 millimetres
greater than 1 millimetre but not exceeding 1 centimetre	0.4 millimetres
greater than 1 centimetre	0.5 millimetres

(2) As for a folding length measurer and a tape length measurer made of fiberglass

Scale Interval	Maximum Permissible Error
not exceeding 1 millimetre	0.3 millimetres
greater than 1 millimetre but not exceeding 1 centimetre	0.6 millimetres
greater than 1 centimetre	1.0 millimetre

Test Result

☐ Pass

☐ Not Pass

Table 5 Result of Accuracy Test

Type of Length Measurer.....Capacity Range metres

Name or Trademark.....Model

Distance as Tested	Distance as Tested (metres)	Length as measured (millimetres)	Error (millimetres)	Maximum Permissible Error (millimetres)	Test Result
10% of maximum capacity range					☐ Pass ☐ Not Pass
20% of maximum capacity range					☐ Pass ☐ Not Pass
30% of maximum capacity range					☐ Pass ☐ Not Pass
40% of maximum capacity range					☐ Pass ☐ Not Pass
50% of maximum capacity range					☐ Pass ☐ Not Pass
60% of maximum capacity range					☐ Pass ☐ Not Pass
70% of maximum capacity range					☐ Pass ☐ Not Pass
80% of maximum capacity range					☐ Pass ☐ Not Pass
90% of maximum capacity range					☐ Pass ☐ Not Pass
maximum capacity range					☐ Pass ☐ Not Pass

Criteria for Consideration

Type of Length Measurer	Maximum Permissible Error calculated by formula
☐ an automatic rolling metal tape ☐ a straight line ☐ a metal tape and a chain ☐ a metal tape combined with a sinker	$0.3 + 0.2 L$
☐ a folding type ☐ a tape made of fiberglass	$0.6 + 0.4 L$

- When L equals the value of the length between scale marks, by being the value of the integer of the unit of metre; in the case where it is not the integer, it is to be rounded up to the integer.
- In the case of the metal tape length measurer combined with a sinker, the maximum permissible error between the scale marks on the sinker combined with the metal tape and the scale marks on the metal tape at the distance not exceeding 1 metre shall have both positive and negative sides not exceeding 0.6 millimeter.

Test Result☐ Pass☐ Not Pass

Criteria for Consideration Error $\leq$ Maximum Permissible Error (MPE)

Table 6 Result of Tension Test

(In particular a tape made of fiberglass type, a metal tape and a chain type and a metal tape combined with a sinker type)

Type of Length Measurer Model Capacity Range.....metres

Tension as Tested ☐ the tape made of fiberglass type to be resistant to a tension up to 2 kilograms

☐ the metal tape and a chain type to be resistant to a tension up to 5 kilograms

☐ the metal tape combined with a sinker type to be resistant to a tension at least equal to the weight of the sinker

Distance as Tested	Distance as Tested (metres)	Length as measured (millimetres)	Error (millimetres)	Maximum Permissible Error (millimetres)	Test Result
10% of maximum capacity range					☐ Pass ☐ Not Pass
20% of maximum capacity range					☐ Pass ☐ Not Pass
30% of maximum capacity range					☐ Pass ☐ Not Pass
40% of maximum capacity range					☐ Pass ☐ Not Pass
50% of maximum capacity range					☐ Pass ☐ Not Pass
60% of maximum capacity range					☐ Pass ☐ Not Pass
70% of maximum capacity range					☐ Pass ☐ Not Pass
80% of maximum capacity range					☐ Pass ☐ Not Pass

90% of maximum capacity range					☐ Pass ☐ Not Pass
maximum capacity range					☐ Pass ☐ Not Pass

Criteria for Consideration

Type of Length Measurer	Maximum Permissible Error calculated by formula
☐ an automatic rolling metal tape ☐ a straight line ☐ a metal tape and a chain ☐ a metal tape combined with a sinker	$0.3 + 0.2 L$
☐ a folding type ☐ a tape made of fiberglass	$0.6 + 0.4 L$

- When L equals the value of the length between scale marks, by being the value of the integer of the unit of metre; in the case where it is not the integer, it is to be rounded up to the integer.

- In the case of the metal tape length measurer combined with a sinker, the maximum permissible error between the scale marks on the sinker combined with the metal tape and the scale marks on the metal tape at the distance not exceeding 1 metre shall have both positive and negative sides not exceeding 0.6 millimeter.

Test Result

☐ Pass

☐ Not Pass

Criteria for Consideration $\text{Error} \leq \text{Maximum Permissible Error (MPE)}$

Table 7 Summary of Test Result

No.	Checklist of Testing	Test Result	
		Pass	Not Pass
1	Visual Inspection		
2	Inspection of Width of Scale Mark		
3	Inspection of Width of Scale Interval		
4	Inspection of Width of Two Adjacent Scale Intervals)		
5	Accuracy Test		
6	Tension Test		

I hereby certify that the aforementioned test results are correct and true in all respects.

(Signed).....Tester

(.....)

Position.....

Date Month B.E.

(Signed).....Authorized person to bind a juristic person

(a juristic person's seal to be stamped (if any)) (.....)

Position.....

Date Month B.E.....