



PROVINCIAL ELECTRICITY AUTHORITY

TECHNICAL SPECIFICATION DIVISION

SECURITY SEALS

Specification No.: RMTR-020/2560

Approved date : 17/10/2560

Rev. No.: 2

Form No. 03-18

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Invitation to Bid No. : ต.3 กบญ.(จช.) e-bidding 006/2563

C Material, equipment, and specifications for SECURITY SEIALS

C1 General material and packing instructions

In addition to the general instructions, the following shall be observed:

1a Scope

These specifications describe the requirement with which the manufacturer shall comply in order to supply security seals to the Provincial Electricity Authority (PEA).

1b Principal requirement

1b.1 General

The security seals shall be easy to install and no tools are required.

The security seals shall be an internal locking mechanism that permanently secures the wire upon twisting. The security seals shall be clockwise lock and anti-reverse function. The wire cannot be backed out or pulled out.

The security seals shall be consisted of main component as follow:

- (1) Body
- (2) Twister/Insert
- (3) Flap

The body dimension (width x length x height) shall be not less than 13 x 15 x 15 mm. The minimum thickness of body and flap is 1.5 mm. The twister/insert shall be permanently affixed inside the body and permanently sealed for anti-tampering. The flap shall be at side or bottom of the body. The components of the security seals are specified in the **Drawing No. SB1-015/60003** attached.

1b.2 Service conditions and installation

The security seals shall be used for securing electric meters and designed for outdoor use with no additional protection such as cabinets, boxes, rain sheds or shielding. The service conditions are as follows:

Altitude	: up to 1,000 m above sea level
Ambient air temperature	: up to 50 °C
Relative humidity	: up to 94 %
Climatic condition	: tropical climate

The manufacturer shall guarantee in his bid that the offered security seals can operate at its full ratings in the manner stated above.



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1b.3 Marking

The security seals shall be imprinted on the flap with heat stamp or laser marked in black or white color consisting of Trademark, 3 characters for company name “PEA”, up to 13 digits serial number and barcode (same as PEA number). The barcode symbology shall be according to IEC and support at least 13 characters. Each marking’s height shall be at least 3 mm. The example of the marking is specified in the **Drawing No. SB1-015/60003** attached.

The marking shall be on flap. The marking on the tongue or body shall not be accepted. The serial number will be given by PEA after the final of bid consideration.

1b.4 Sample

The bidders have to supply ten (10) samples of security seals with the bid or within seven (7) calendar days counted from the Committee request. The samples shall not be returned.

The bidders who cannot supply the samples shall be rejected.

PEA reserves the right to test the samples according to PEA’s testing procedure. In case of the failing test results, the bidders shall be rejected.

The cost of all tests and reports shall be borne by the bidders.

1c Packing

The security seals shall be packed in a row which comes in sequential serial number. Each piece in a row shall adhere to others. The security seals shall be individually split from a row for application. Each unit of the security seal shall be packed in a suitable packages to avoid damage during transportation. Plastic foam shall not be accepted.

1d Tests and test reports

The security seals shall be passed the spectroscopy test to certify security seals material from MTEC : National Metal and Materials Technology Center (Thailand) or other independent testing laboratories.

The bidders have to submit the test reports with the bid. The item offered without submitting the test reports shall be rejected.

The cost of all tests and reports shall be borne by the bidders.



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C2 Material and packing data of the security seals shall be submitted with the bid:

2a Critical documents of the proposed security seals (see page 4 of 4)

2b Type, model, or catalogue number

2c Description of material used for the components parts (body, twister/insert, and flap)

2d List of routine tests

2e Details and drawings, with dimensions in mm, of the security seals

2f Packing details

Packing method (shown by drawing(s), and describe packing materials)

Dimensions of each package in cm

Gross weight of each package in kg

Net weight of each package in kg



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Critical documents of the proposed security seals

shall be submitted with the bid for each item offered:

Item	Required document	Proposed technical document	Reference document (page/folder)
1	Spectroscopy test report of the proposed security seals with detail of the laboratories (see 1d)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
2	Type, model, or catalogue number	<input type="checkbox"/> Yes <input type="checkbox"/> No	
3	Description of material used for the components parts (body, twister/insert, and flap)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
4	List of routine tests	<input type="checkbox"/> Yes <input type="checkbox"/> No	
5	Details and drawings, with dimensions in mm, of the security seals	<input type="checkbox"/> Yes <input type="checkbox"/> No	
6	Packing details <ul style="list-style-type: none">— Packing method (shown by drawing(s), and describe packing materials)— Dimensions of each package in cm— Gross weight of each package in kg— Net weight of each package in kg	<input type="checkbox"/> Yes <input type="checkbox"/> No	



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C3 Schedule of detailed requirement

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Item	PEA Material No.	Quantity	Description
1	1060100019	1 lot 157,900 ชิ้น	<p>Security seals, shall be used for securing electric meters and designed for outdoor use with no additional protection, equipped with :</p> <p>1.1set(s) Security seals, with:</p> <p>Body :</p> <p>-material : polycarbonate, UV resistance type and suitable for outdoor conditions</p> <p>-color : transparent</p> <p>Flap :</p> <p>-material : polycarbonate or high-impact ABS, UV resistance type and suitable for outdoor conditions</p> <p>-color : white</p> <p>Twister/Insert :</p> <p>-material : polycarbonate, acetal, or high-impact ABS, UV resistance type and suitable for outdoor conditions</p> <p>-color : purple (hex color #661aff)</p> <p>1.2set(s) Stainless steel wire, 7-strand wire, coated with plastic throughout the wire:</p> <p>-diameter : 0.6 – 0.8 mm</p> <p>-length : not less than 200 mm</p> <p>Note:</p> <p>1. Enclosed Drawing No. SB1-015/60003</p> <p>2. The bidders have to quote the unit costs.</p> <p>3. The contractor has to guarantee the quality of the security seals for five (5) years commencing from the date of the security seals are accepted by PEA. During the guarantee period, the contractor shall replace the defective security seals for free of charge or pay an amount equal to the exact purchasing value for the defective quantity of the security seals.</p>
	III		



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C4 Price schedule

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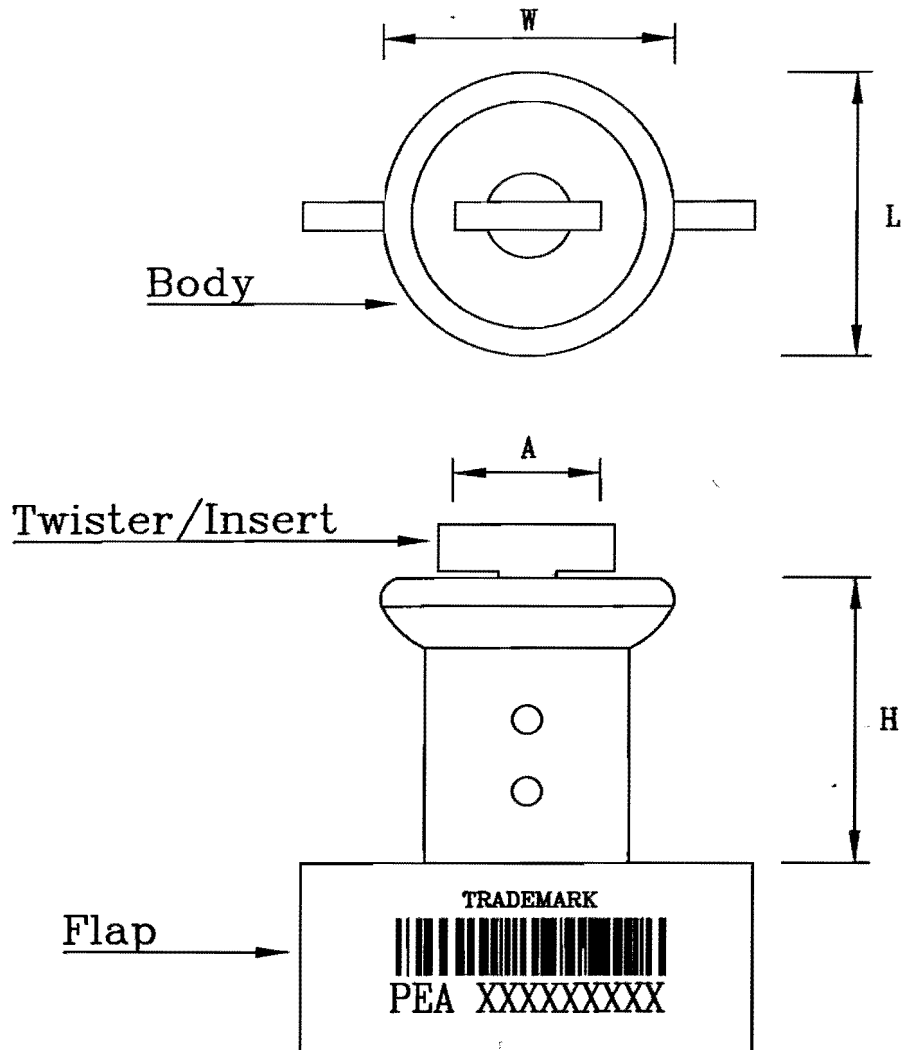
Manufacturer :

Country of origin :

Trade-mark :

Item	PEA Material No.	Catalogue No.	Description	Quantity	Unit Cost (See details & conditions attached)	Total Cost (See details & conditions attached)
1	1060100019		<p>Security seals, shall be used for securing electric meters and designed for outdoor use with no additional protection, equipped with :</p> <p>1.1 Security seals, with:</p> <p>Body :</p> <p>- material :</p> <p>- color :</p> <p>Flap :</p> <p>- material :</p> <p>- color :</p> <p>Twister/Insert :</p> <p>- material :</p> <p>- color :</p> <p>1.2 Stainless steel wire, 7-strand wire, coated with plastic throughout the wire:</p> <p>- diameter :mm</p> <p>หมายเหตุ - length :mm</p> <p>1. กำหนดส่งมอบที่ แผนกคลังพัสดุการไฟฟ้าส่วนภูมิภาค จังหวัดยะลา</p> <p>2. กำหนดส่งมอบภายใน 60 วัน นับถัดจากวันที่ลงนามในสัญญา</p> <p>3. การไฟฟ้าส่วนภูมิภาคจะพิจารณาจัดซื้อ/จัดจ้างพัสดุที่ผลิตในประเทศไทย ทั้งนี้หากผู้เสนอราคาพัสดุที่ผลิตในประเทศไทยมีรายละเอียดคุณลักษณะเฉพาะไม่เป็นไปตามข้อกำหนดของการไฟฟ้าส่วนภูมิภาค หรือไม่มีผู้เสนอพัสดุที่ผลิตในประเทศไทย การไฟฟ้าส่วนภูมิภาคจะพิจารณาจัดซื้อ/จัดจ้างพัสดุที่ผลิตจากต่างประเทศต่อไป</p>	157,900 อัน		
				set(s)		
				set(s)		

III



DIMENSIONS IN mm.			
W	L	H	A
≥13	≥15	≥15	≥10

PRELIMINARY



Note : This is only guiding, not compelling.

กองข้อกำหนดทางเทคนิค ฝ่ายวิศวกรรม	การไฟฟ้าส่วนภูมิภาค	ใช้แทนแบบ ถูกแทนโดยแบบ เขียนเสร็จวันที่ แก้แบบวันที่ ฉติดเป็น มาตรฐาน แบบเลขที่ SB1-015/60003 แผ่นที่ 1. ของจำนวน 1. แผ่น
ผู้เขียน พล. วงศ์บรรดาชีวิต ผู้สำรวจ วิศวกร (พล. พิศาล) หัวหน้าแผนก (พล. พิศาล) ผู้อำนวยการกอง ผู้อำนวยการฝ่าย	SECURITY SEALS TYPICAL DESIGN	