Distribution Services Sector

الشركة السعودية للكهرباء Saudi Electricity Company Diligently Serving You

SPECIFICATIONS FOR PADLOCKS AND CYLINDER LOCKS

Issue Date: 29-04-2025

SEC-02-02 REV.1.0

**SEC-02-02** 

**REV. 1.0** 

**SPECIFICATIONS** 

**FOR** 

PADLOCKS AND CYLINDER LOCKS

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# Saudi Electricity Company Distribution Services Sector Saudi Electricity Company Saudi Electricity Company Diligently Serving ou Issue Date: 29-04-2025 Page: 1 of 21 CYLINDER LOCKS SEC-02-02 REV.1.0

**SEC-02-02** 

**REV.1.0** 

# SPECIFICATIONS FOR PADLOCKS AND CYLINDER LOCKS

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### **Revision History**

#	Date	Revision No.	Major Revision Description
1	29-04-2025	1.0	ERT: This version 1.0 replaces version 0.0 with the following notes:  - The specification was divided into two (2) parts:  Part-1: defines the requirements of the conventional padlocks and cylinder locks for general safety, security, and access to distribution network equipment and facilities.  Part-2: defines the requirements of the new padlock for use to secure and avoid unauthorized access of steel meterboxes, mini-pillars, low-voltage service cabinets for bulk customers, etc.  - Provisions on the technical requirements for new padlock for use in steel meterboxes, mini-pillars, and low-voltage service cabinets for bulk customers.

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CYLINDER LOCKS

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### **PART-1**

SPECIFICATIONS

FOR

(CONVENTIONAL) PADLOCKS

AND

CYLINDER LOCKS

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# SPECIFICATIONS FOR PADLOCKS AND CYLINDER LOCKS

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#### 1 SCOPE

This specification describes both the padlock and a cylinder type lock to be used by SEC in the distribution network facilities as safety and security locks and locking devices / arrangements to access, operate and control SEC plants and equipment. Both padlocks and cylinder type locks should be opened by one unified standard key. (Sample to be given by SEC).

Material for hardware details and specifications of the latching and locking fixtures are described in *Figure-1*, *Figure-2*, and *Figure-3* below.

#### 2 OBJECTIVE

This specification is written for different types of locks and locking devices / arrangements to be used in the Saudi Electricity Company (SEC) facilities in the Kingdom of Saudi Arabia.

Locks and locking devices / arrangements are designed to prevent unauthorized access to SEC facilities and are standardized to facilitate the access of the authorized SEC personnel.

#### 3 APPLICABLE CODES AND STANDARDS

The latest versions of the following codes and standards shall be applicable for the equipment/materials covered in this specification. In case of any deviation, the vendor/manufacturer may propose equipment/materials conforming to alternate codes or standards subject to review and acceptance by SEC. However, the provisions of SEC standards shall supersede the provisions of these alternate standards in case of any difference.

Standard	Title
EN 12320	Building Hardware – Padlocks and Padlock Fittings – Requirements and Test Methods
EN 1303	Building Hardware – Cylinder for Locks – Requirements and Test Methods
ASTM F883	Standard Performance Specification for Padlocks

Table 1: Applicable International Standards.

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#### **OPERATION PADLOCKS** 4

KEY		
Туре	Master Keyed	
Size	47.00 mm	
Material	Nickel-Plated Brass	
Construction	5-pin Tumbler Mechanism, 2.0 mm Thickness	

PADLOCK	
Туре	Operation Padlock
Shackle Diameter	6.0 mmØ
Case (Body) Size	40.0 mm Width x 33.0 mm Height
Case (Body) Markings	SEC Logo / OPERATION PADLOCK / Manufacturer Logo
Horizontal Clearance	23.0 mm
Vertical Clearance	23.0 mm
Materials	Chrome-Plated Solid Brass Case
Construction	5-pin Solid Brass Locking Mechanism
Thickness	17.2 mm

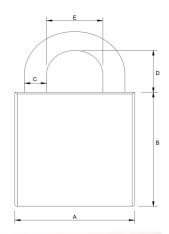


Figure-1: Operation Padlock

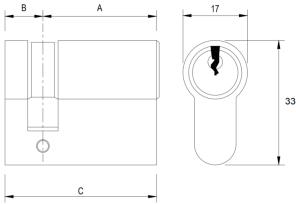
A	В	C	D	E
40.0 mm	33.0 mm	6.0 mm	23.0 mm	23.0 mm

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### 5 CYLINDER LOCKS

KEY	
Type	Master Keyed
Size	47.00 mm
Material	Nickel-Plated Brass
Construction	5-pin Tumbler Mechanism, 2.0 mm Thickness (Double Slotted)

CYLINDER LOCK			
Type	Cylinder Locks		
Cam Position	30°		
Materials	Chrome-Plated Solid Brass Case		
Construction 5-pin Solid Brass Locking Mechanism			



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Figure-2: Cylinder Lock

A B		C
40.0 mm	33.0 mm	6.0 mm

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### SAFETY PADLOCKS

KEY	
Type	Keyed Different (3-Keys for Each Safety Padlock)
Size	47.00 mm
Material	Nickel-Plated Brass
Construction	5-pin Tumbler Mechanism, 2.0 mm Thickness
Key Markings	Unique Serial Numbers (Matching with Paired Safety Padlock)

PADLOCK	
Type	Safety Padlock
Shackle Diameter	6.0 mmØ
Case (Body) Size	40.0 mm Width x 33.0 mm Height
Case (Body) Color	Red
Case (Body) Markings	SEC Logo / SAFETY PADLOCK / Manufacturer Logo / Unique Serial Number (Matching with Set of 3-Keys Provided)
Horizontal Clearance	23.0 mm
Vertical Clearance	23.0 mm
Materials	Chrome-Plated Solid Brass Case
Construction	5-pin Solid Brass Locking Mechanism
Thickness	17.2 mm

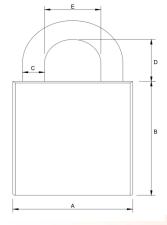


Figure-3: Safety Padlock

A	В	C	D	E
40.0 mm	33.0 mm	6.0 mm	23.0 mm	23.0 mm

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### **PART-2**

SPECIFICATIONS
FOR
(NEW) PADLOCK

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#### 1 SCOPE

This specification defines the minimum technical requirements of mechanical padlocks intended to be used on meterboxes, mini-pillars and service cabinets with steel enclosures installed in the distribution system of Saudi Electricity Company (SEC) in Saudi Arabia.

### 2 OBJECTIVE

To prevent unauthorized access to SEC assets providing facilities for connecting electricity services to consumers which includes but not limited to the enclosures and devices of meterboxes, low-voltage distribution pillars (mini-pillars), low-voltage service cabinets, etc.

### 3 CROSS REFERENCES

This specification shall always be read in conjunction with the latest version of SEC specifications 01-SDMS-01 titled "General Requirements for all Equipment/Materials," which shall be considered as an integral part of this specification.

It shall also be read in conjunction with SEC purchase order and/or contract schedules, and scope of work/technical specifications for projects, as applicable.

### 4 APPLICABLE CODES AND STANDARDS

The latest versions of the following codes and standards shall be applicable for the equipment/materials covered in this specification. In case of any deviation, the vendor/manufacturer may propose equipment/materials conforming to alternate codes or standards subject to review and acceptance by SEC. However, the provisions of SEC standards shall supersede the provisions of these alternate standards in case of any difference.

Standard	Title
EN 12320	Building Hardware – Padlocks and Padlock Fittings – Requirements and Test Methods
ASTM F883	Standard Performance Specification for Padlocks

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Standard	Title
ASTM A681	Standard Specification for Tool Steels Alloy
ASTM E1086	Standard Test Method for Optical Emission Vacuum Spectrometric Analysis of Stainless Steel by the Point-to-Plane Excitation Technique
ISO 9227	Corrosion Tests in Artificial Atmosphere – Salt Spray Tests

Table 1: Applicable International Standards.

#### 5 SERVICE CONDITIONS

The padlock shall be suitable for outdoor operation under the service conditions specified in the latest version of SEC specification *01-SDMS-01*.

The padlock with all its components, parts and fittings shall withstand the effects of direct solar radiation at their installed locations. The temperature of exposed surfaces shall be regarded as 75°C plus the effects of internal heating.

### 6 DESIGN AND CONSTRUCTION REQUIREMENTS

#### 6.1 General

- 6.1.1 The padlock shall meet or exceed the requirements of this specification in all respects and shall be manufactured in conformance with international standards and best engineering practices.
- 6.1.2 The padlock shall be mechanical type that meets or exceed the following minimum requirements in conformance to EN 12320:
  - a. Category of Use (1st Classification Digit) Grade 1
  - b. Durability (2<sup>nd</sup> Classification Digit) Grade 1
  - c. Corrosion Resistance (3<sup>rd</sup> Classification Digit) Grade 4
  - d. Security (4<sup>th</sup> Classification Digit) Grade 4
- 6.1.3 All components, parts and fittings shall be made of non-corrosive materials.

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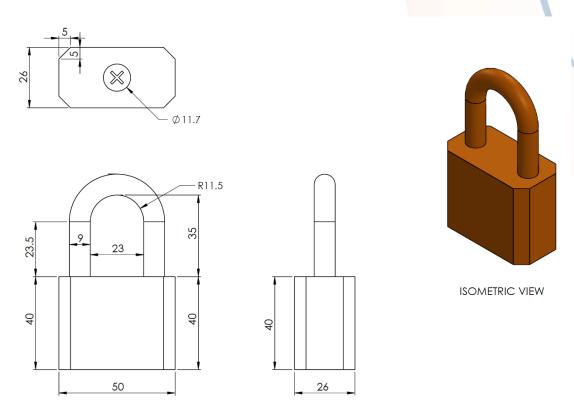
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#### 6.2 Body

- 6.2.1 The padlock body shall be made from a solid brass with a bright chrome-plated finish.
- 6.2.2 The padlock body shall be provided with laser engravings of SEC logo on one side with manufacturer logo and vendor code + 12-digits sequential numbering system below the SEC logo.
- 6.2.3 The size of the padlock body shall be as illustrated in *Drawing No. 1.0* below.



Drawing No. 1.0: Padlock for Meterboxes, Mini-Pillars and Service Cabinets with Steel Enclosures

#### 6.3 Shackle

6.3.1 The shackle shall be made from a 9.0 mmØ diameter hardened A3 tool steel (UNS T30103) with bright chrome-plated finish. Shackle detailed dimensions are shown in *Drawing No. 1.0*.

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- 6.3.2 The shackle shall have a ball-type blocking mechanism which shall consist of two balls that are driven by a brass cylinder core that is mechanically linked by a cam on the key and cylinder mechanism.
- 6.3.3 When the key opens the padlock the two balls fall into the cylinder core, and when the key closes the padlock the two balls move outward the cylinder core thus the shackle get locked.
- 6.3.4 The material of the shackle blocking balls is made of SUS 304 stainless steel while the cylinder pin is made from solid brass.
- 6.4 Locking Mechanism (Key and Cylinder Mechanism)
  - 6.4.1 The padlock locking mechanism shall be made of non-corrosive high-strength materials. Key retaining system shall be captive (*key won't release until the shackle is locked*).
  - 6.4.2 It shall be operated by a master key. Each master key shall be identified by the vendor code + unique 12-character hexa-decimal system.
    - The number of keys (quantity) shall be 10% of the total number of padlocks.
  - 6.4.3 The manufacturer shall guarantee with legal bounds that the master key profile provided to SEC shall be unique and cannot be duplicated outside its premises.
  - 6.4.4 The master key can only be duplicated with an official request from SEC through issuance of official documents, i.e. purchase orders.

#### 7 TESTING AND INSPECTION

The padlocks shall be tested in conformance to EN 12320 or equivalent.

### 7.1 Type Tests

- 7.1.1 The padlock shall be type tested in conformance with the requirements of EN 12320.
- 7.1.2 Type test shall be performed at SEC approved laboratories. SEC reserves the right to attend and witness the tests. SEC reserves the right to request the supplier/manufacturer to repeat the type test every five (5) years, or as needed should the supplied padlocks and keys have frequent faults and failures or non-compliance.

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#### 7.2 Routine Tests

- 7.2.1 The tests shall be carried out on a randomly selected sample after fabrication and assembly, enabling an official test certificate to be produced for the whole batch provided it is conducted under the supervision of SEC authorized technical personnel at manufacturer's facilities.
- 7.2.2 Routine test shall be conducted to replicate the security requirements of the padlocks in conformance with the applicable clauses per *Table-2* of *EN 12320*.

#### 7.3 Sample Inspection and Acceptance

- 7.3.1 Samples together with actual CAD drawings, design assembly STEP file, user manuals and routine test reports shall be subject for inspection/evaluation prior to issuance of approval for mass production.
- 7.3.2 Sample inspection/evaluation shall be conducted at the manufacturer facilities. The following attributes shall be checked:
  - e. Dimensional Verification
  - f. Routine Tests
  - g. Markings
  - h. Accessories
  - i. Conformity with the requirements of this specification
- 7.3.3 Acceptance testing shall be performed to sample selected by SEC authorized personnel prior to issuance of release of the requested batch.

#### 8 PACKING AND SHIPPING

- 8.1 Packing and shipping requirements shall generally be as per latest revision of SEC General Requirements for Equipment/Materials, *01-SDMS-01* or as per purchase order requirements.
- 8.2 Each padlock shall be inserted in sealed plastic bag then packed individually in a carton box. Each carton box shall be provided with a printed SEC logo and SEC Item Code of the padlock.
- 8.3 Packing shall protect the padlocks against damage during shipment, site handling, and storage.

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- 8.4 Keys supplied with each delivery shall be packed in easily recognizable packaging and labels.
- 8.5 Suppliers/manufacturers shall coordinate with SEC Warehousing Department for additional packing, handling, and or shipping instructions, as applicable.
- 8.6 Packing crates shall be marked with the following information:
  - a. Manufacturer's Name and Model/Type
  - b. Country of Origin
  - c. SEC Purchase Order Number / Tender Number
  - d. SEC Item Code
  - e. Gross Weight, (kg)
  - f. Handling Instructions
  - g. Destination (SEC Warehouse)

#### 9 GUARANTEE

- 9.1 The supplier/manufacturer shall guarantee that the padlock including all its internal parts and components against all defects arising out of faulty design, manufacturer misinterpretation of the requirements or manufacturing defects and/or defective materials for a period of five (5) years from the date of delivery.
- 9.2 The supplier/manufacturer shall guarantee the uniformity of the products delivered with the approved samples and drawings.
- 9.3 The supplier/manufacturer shall guarantee that all the materials, parts, and components used in the manufacturing and assembly of the padlocks shall be the same as to what have been declared in the prequalification files. Any changes on the supplier and sources of any parts of the padlock must be technically evaluated and have written approval from SEC authorized technical representative.
  - SEC reserves the right to reject the padlocks or return all the delivered items at the expense of the supplier/manufacturer should it be discovered that the parts supplied in the padlocks did not pass SEC pre-approval.
- 9.4 The supplier/manufacturer shall guarantee that the padlocks manufactured under this specification are designed to operate normally outdoor at an ambient temperature of 50°C in Saudi Arabia environmental conditions.

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- 9.5 The supplier/manufacturer shall guarantee full compliance with the requirements of this specification. Any clarifications shall be addressed to SEC authorized technical personnel. SEC reserves the sole right to interpret all subject matters involving this specification.
- 9.6 Any deviations or modifications must have written approval from SEC authorized technical representative. Should any unauthorized deviations or modifications be discovered that could potentially compromise the quality, safety, and security of the equipment, SEC reserves the right to blacklist the supplier/manufacturer and impose legal actions effective immediately.
- 9.7 The supplier/manufacturer shall guarantee upon request of SEC personnel the full disclosure of the documents related to purchase, shipping, conformance testing, and QA & QC processes of all the materials, parts, components, fittings, etc., related directly or indirectly on the manufacturer and assembly of padlocks. Copies of the documents shall be submitted upon request of SEC authorized personnel, and presentation of the original documents shall be done if requested.

### 10 SUBMITTALS

### 10.1 Submittals required with tender/inquiry

- 10.1.1 Summary in table form with the following information: list of items offered, B.O.Q. for each unit offered, manufacturer, origin, catalogue number, and quantity.
- 10.1.2 Clause-by-clause compliance with the latest version of this specification.
- 10.1.3 General arrangement of the padlocks showing all important dimensions, together with fittings and accessories.
- 10.1.4 Certificate stating that the raw materials has been sampled, tested and inspected in accordance with relevant standard specifications
- 10.1.5 Product type test and special test reports and certificates carried out from SEC approved laboratories
- 10.1.6 Filled-up technical data schedule on each of the items offered, e-copy in Excel (\*.xlsx) format
- 10.1.7 Manufacturer CAD drawings like padlock and key outlines showing the position of the fittings and attachments, mounting arrangements, etc. Ecopies of design assembly STEP files with portable viewers or

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SolidWorks, and AutoCAD 2013 (\*.dwg) format, for each of the items offered

10.1.8 USB Flash Drive containing e-copy of all the documents mentioned above

### 10.2 Submittals required following award of contract

- 10.2.1 Fabrication CAD drawings.
- 10.2.2 Quality assurance tests.
- 10.2.3 Manufacturing and routine test schedules.
- 10.2.4 Special tests, if applicable.
- 10.2.5 USB Flash Drive containing e-copies of all the documents mentioned above.

### 11 TECHNICAL DATA SCHEDULE

- 11.1 The vendor shall complete and return one copy of the attached data schedule with quotation. In addition to technical data Schedule, clause-by-clause compliance to this specification shall be confirmed/submitted.
- 11.2 Detail dimensional drawing of each item shall be submitted.
- 11.3 Type test certificates.

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#### TECHNICAL DATA SCHEDULE

(NEW) PADLOCKS

SEC Inquiry No.	Item N	Vo.

No l Description	dor Proposed Values (**)
1.1       Reference Standard       EN 12320         1.2       Manufacturer       *         1.3       Padlock Model Number       *         1.4       Master Key Model Number       *         2       Design Requirements         2.1       Body       Solid Brass (Bright Chrome-Plated Finish)         2.2       Body Size, length(mm) x height(mm) x depth(mm)       50.0 x 40.0 x 26.0         4       Hardened A3 Tool Steel (Bright Chrome-Plated Finish)         2.4       Shackle Material       9.0         2.5       Shackle Diameter, mmØ       9.0         2.5       Shackle Height, mm       35         2.6       Shackle Arch Inner Radius, mm       11.5         2.7       Shackle Blocking Mechanism       Ball-Type	
1.2       Manufacturer       *         1.3       Padlock Model Number       *         1.4       Master Key Model Number       *         2       Design Requirements         2.1       Body       Solid Brass (Bright Chrome-Plated Finish)         2.2       Body Size, length(mm) x height(mm) x depth(mm)       50.0 x 40.0 x 26.0         2.3       Shackle Material       Steel (Bright Chrome-Plated Finish)         2.4       Shackle Diameter, mm∅       9.0         2.5       Shackle Height, mm       35         2.6       Shackle Arch Inner Radius, mm       11.5         2.7       Shackle Blocking Mechanism       Ball-Type	
1.2 Maintracture *   1.3 Padlock Model Number *   2 Design Requirements   2.1 Body Solid Brass (Bright Chrome-Plated Finish)   2.2 Body Size, length(mm) x height(mm) x depth(mm) 50.0 x 40.0 x 26.0   2.3 Shackle Material Hardened A3 Tool Steel (Bright Chrome-Plated Finish)   2.4 Shackle Diameter, mm∅ 9.0   2.5 Shackle Height, mm 35   2.6 Shackle Arch Inner Radius, mm 11.5   2.7 Shackle Blocking Mechanism Ball-Type	
1.4 Master Key Model Number  2 Design Requirements  2.1 Body  Solid Brass (Bright Chrome-Plated Finish)  2.2 Body Size, length(mm) x height(mm) x depth(mm)  50.0 x 40.0 x 26.0  Hardened A3 Tool Steel (Bright Chrome-Plated Finish)  2.4 Shackle Diameter, mm∅  2.5 Shackle Height, mm  35  2.6 Shackle Arch Inner Radius, mm  11.5  2.7 Shackle Blocking Mechanism  Ball-Type	
2 Design Requirements         2.1 Body       Solid Brass (Bright Chrome-Plated Finish)         2.2 Body Size, length(mm) x height(mm) x depth(mm)       50.0 x 40.0 x 26.0         4 Hardened A3 Tool Steel (Bright Chrome-Plated Finish)       Steel (Bright Chrome-Plated Finish)         2.4 Shackle Diameter, mm∅       9.0         2.5 Shackle Height, mm       35         2.6 Shackle Arch Inner Radius, mm       11.5         2.7 Shackle Blocking Mechanism       Ball-Type	
2.1       Body       Solid Brass (Bright Chrome-Plated Finish)         2.2       Body Size, length(mm) x height(mm) x depth(mm)       50.0 x 40.0 x 26.0         2.3       Shackle Material       Hardened A3 Tool Steel (Bright Chrome-Plated Finish)         2.4       Shackle Diameter, mm∅       9.0         2.5       Shackle Height, mm       35         2.6       Shackle Arch Inner Radius, mm       11.5         2.7       Shackle Blocking Mechanism       Ball-Type	
2.1 Body  (Bright Chrome-Plated Finish)  2.2 Body Size, length <sub>(mm)</sub> x height <sub>(mm)</sub> x depth <sub>(mm)</sub> (Bright Chrome-Plated Finish)  50.0 x 40.0 x 26.0  Hardened A3 Tool Steel (Bright Chrome-Plated Finish)  2.4 Shackle Diameter, mmØ  2.5 Shackle Height, mm  35  2.6 Shackle Arch Inner Radius, mm  11.5  2.7 Shackle Blocking Mechanism  Ball-Type	
2.3 Shackle Material  2.4 Shackle Diameter, mmØ  2.5 Shackle Height, mm  2.6 Shackle Arch Inner Radius, mm  2.7 Shackle Blocking Mechanism  Hardened A3 Tool Steel (Bright Chrome-Plated Finish)  9.0  11.5  11.5  Ball-Type	
2.3Shackle MaterialSteel (Bright Chrome-Plated Finish)2.4Shackle Diameter, $mm\emptyset$ 9.02.5Shackle Height, $mm$ 352.6Shackle Arch Inner Radius, $mm$ 11.52.7Shackle Blocking MechanismBall-Type	
2.5     Shackle Height, mm     35       2.6     Shackle Arch Inner Radius, mm     11.5       2.7     Shackle Blocking Mechanism     Ball-Type	
2.6 Shackle Arch Inner Radius, mm 11.5 2.7 Shackle Blocking Mechanism Ball-Type	
2.7 Shackle Blocking Mechanism Ball-Type	
SUS 304	
2.8 Blocking Ball Material Stainless Steel Locking Ball	
2.9 Blocking Pin Material of Cylinder Brass	
2.10 Locking Cylinder Type Cross-Key Cylinder	
2.11 Locking Cylinder Material (Non-Corrosive) Brass	
2.12 Key Master Keyed	
2.13 Key Retaining System Captive	
2.14 Key Material *	

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SPECIFICATIONS FOR PADLOCKS AND CYLINDER LOCKS

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SEC-02-02 REV.1.0

#### TECHNICAL DATA SCHEDULE

(NEW) PADLOCKS

SEC Inquiry No.	Item No.
DEC Inquity 110.	110111110.

No	Description	SEC Specified Values (*)	Vendor Proposed Values (**)
3	Padlock Classification		
3.1	Category of Use (1st Classification Digit)	1	
3.2	Durability (2 <sup>nd</sup> Classification Digit)	1	
3.3	Corrosion Resistance (3 <sup>rd</sup> Classification Digit)	4	
3.4	Security (4 <sup>th</sup> Classification Digit)	4	
4	Supplementary Fittings		
4.1	Is the padlock fitted with all the components and accessories mentioned in this specification?	Yes	
5	Testing		
5.1	Product is Type Tested	Yes	
5.2	SEC Approved Laboratory	**	
5.3	Date Tested	**	
5.4	Manufacturer	**	
5.5	Model/Type	**	
5.6	Country of Origin	**	
5.7	Submittals Required with Tender/Inquiry Included or Not?	**	

**Distribution Services Sector** 

الشركة السعودية للكهرباء Saudi Electricity Company Diligently Serving You

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(NEW) PADLOCKS

SEC Inquiry No.	Item No.

Additional Technical Information or Features Specified by SEC

Additional Supplementary Data or Features Proposed by Bidder/Vendor/Supplier.

Other Particulars to be filled-up by the Bidder/Vendor/Supplier.

List of Deviations and Clauses to which exception is taken by the Bidder/Vendor/Supplier. (Use separate sheet, if necessary).

Description	Manufacturer of Material/Equipment	Vendor/Supplier
Name of Company		
Location and Office Address		
Name and Signature of Authorized Representative with Date		
Official Seal / Stamp		