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## 0.1 Circulation List

| COPY NO. | COPY HOLDER |
|---|---|
| 1 | Research & Development Manager |
| 2 | Procurement Manager |
| 3 | Stores & Stock Control Manager |
| 4 | Operations & Maintenance Manager |
| 5 | Deputy Manager, Technical Audit |

## 0.2 Amendment Record

| Rev No. | Date (YYYY-MM-DD) | Description of Change | Prepared by (Name & Signature) | Approved by (Name & Signature) |
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## FOREWORD

This specification has been prepared by the Research and Development Department in collaboration with Operations & Maintenance Department both of The Kenya Power and Lighting Company Limited (KPLC) and it lays down requirements for Security Padlocks. It is intended for use by KPLC in purchasing the items.

## 1. SCOPE

This specification is for Security Padlocks.

The specification stipulates the minimum requirements for Security Padlocks acceptable for use in the company and it shall be the responsibility of the Supplier to ensure adequacy of the design, good workmanship and good engineering practice in the manufacture of the products for KPLC.

## 2. REFERENCES

The following standard contains provisions which, through reference in this text constitute provisions of this specification. Unless otherwise stated, the latest editions (including amendments) apply.

EN 12320: Padlocks and padlock fittings. Requirements and test methods.

## 3. TERMS AND DEFINITIONS

For the purpose of this specification the terms and definitions given in the reference standard shall apply.

## 4. REQUIREMENTS

### 4.1 SERVICE CONDITIONS

The Security Padlocks shall be suitable for use outdoors in tropical areas and harsh climatic conditions including areas exposed to sea spray (along the coast), humidity of upto 95% and average ambient temperature of +30°C with a minimum of -1°C and a maximum of +40°C.

### 4.2. DESIGN AND CONSTRUCTION

4.2.1 The padlock shall be high security type and shall provide maximum resistance against physical attack, as the padlocks shall be subjected to unprotected outdoor use under severe weather conditions such as coastal locations and polluted environments.

4.2.2 The shackle shall be made of hardened boron steel, while the body of the padlock shall be made of brass, with satin chrome coating, together providing effective protection against drilling, sawing, cutting, twisting, or picking.

4.2.3 The surface treatment on the padlock shall guarantee corrosion resistance of both the visible parts and the internal parts of each lock.

4.2.4 All the component parts of the padlock shall be resistant to wear, dirt, moisture, and corrosion.

4.2.5 The padlock must not contain parts such as springs that can jam; only ball bearing locking mechanism shall be acceptable.

4.2.6 The high security lock cylinders shall be suitable for the 'keyed alike' type keys, and the keys shall be heavy duty and constructed of strong Nickel Silver with plastic (black) key head, the said key made so as to provide smooth reliable operation with lasting durability.

4.2.7 The padlocks shall be supplied with an identical number of like keys, which shall be exactly identical to the present standard keys in use by KPLC operations personnel, so as to allow the use of the existing keys with the new padlocks.

4.2.8 The padlock shall conform to and be manufactured as per the requirements of the EN 12320 Standard (Padlocks and padlock fittings. Requirements and test methods).

4.2.9 The following attachments shall be mandatory to support the bid:

a. A valid and relevant ISO 9001:2008 Certificate for the manufacturer shall be provided for technical evaluation purposes.

b. A manufacture's authorization letter giving warranty on the padlocks.

c. Brochures & literature material.

4.2.10 Technical Data

The padlocks shall have the following additional features:

a) Hardened Boron 8mm steel shackle.

b) Shackle height approximately 50mm.

c) Chrome plated Brass Body.

d) Ball bearing locking mechanism.

e) Anti corrosive in all weather conditions.

f) All padlocks to be keyed alike.

g) Key retaining in unlocked position.

## 5. TESTS AND INSPECTION

5.1 Copies of previous certificates by the relevant National Testing/Standards Authority of the country of manufacture (or ISO/IEC 17025 accredited independent laboratory) shall be submitted with the offer for evaluation (all in English Language).

5.2 Quality Certificates for the Security Padlocks to be supplied shall be submitted to KPLC for approval before shipment/delivery of the goods.

5.3 On receipt of the Security Padlocks, KPLC will inspect them and may perform or have performed any of the relevant tests in order to verify compliance with the specification. The supplier shall replace without charge to KPLC, Security Padlocks which upon examination/inspection, test or use fail to meet any or all of the requirements in the specification.

## 6. MARKING, LABELLING AND PACKING

6.1 The following information shall be marked legibly and in a permanent manner on each Security Padlock:

a) The manufacturer's name;
b) The type reference number;
c) The letters "K.P.& L.Co.Ltd".

6.2 The Security Padlocks shall be packed in a manner so as to protect them from damage during transportation and storage.

**ANNEX A: Guaranteed Technical Particulars** *(to be filled and signed by the Supplier and submitted together with copies of manufacturer's catalogues, brochures, drawings, technical data, sales records and copies of quality certificates for tender evaluation)*

**Tender No. .....**

| **Clause number** | | **Bidder's offer** (indicate full details of the offered padlock for each requirement of the specification) |
|---|---|---|
| Manufacturer & country | | |
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| 3 | | |
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| 4.2.1 | | |
| 4.2.2 | | |
| 4.2.3 | | |
| 4.2.4 | | |
| 4.2.5 | | |
| 4.2.6 | | |
| 4.2.7 | | |
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| 4.2.9 | | |
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| 4.2.10 | | |
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| 5.1 | | |
| 5.2 | | |
| 5.3 | | |
| 6.1 | | |
| 6.2 | | |

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**Supplier's Name, Signature, Stamp and Date**