



The Kenya Power & Lighting
Co. Ltd.

TITLE:

**SPECIFICATION FOR RAWL
BOLT**

Doc. No.	KPLC1/3CB/TSP/02/003-4
Issue No.	1
Revision No.	0
Date of Issue	2007-07-10
Page 1 of 5	

TABLE OF CONTENTS

0.1 Circulation List

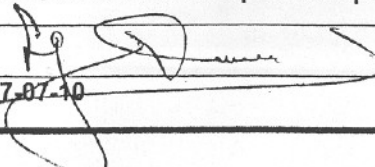
0.2 Amendment Record

FOREWORD

1. SCOPE
2. REFERENCES
3. TERMS AND DEFINITIONS
4. REQUIREMENTS
5. TESTS AND INSPECTION
6. MARKING, LABELLING AND PACKING

ANNEX A: Technical Particulars

Issued by: Research & Development Department

Signed: 

Date: 2007-07-10

Authorized by: Chief Manager – PR&PM

Signed: 

Date: 2007-07-10



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Doc. No.	KPLC1/3CB/TSP/02/003
Issue No.	1
Revision No.	0
Date of Issue	2007-07-10
Page 2 of 5	

0.1 Circulation List

COPY NO.	COPY HOLDER
1	Supplies Manager
2	Stores & Stock Control Manager
3	Research & Development Manager
4	Distribution Manager
5	Assistant Manager, Technical Audit

0.2 Amendment Record

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

Issued by: Research & Development Department

Authorized by: Chief Manager – PR&PM

Signed:

Signed:

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Issue No.	1
Revision No.	0
Date of Issue	2007-07-10
Page 3 of 5	

FOREWORD

This specification has been prepared by the Research and Development Department of The Kenya Power and Lighting Company Limited (KPLC) and it lays down requirements for Rawl Bolts. It is intended for use by KPLC in purchasing the items.

It shall be the responsibility of the manufacturer to ensure adequacy of the design and good engineering practice in the manufacture of the rawl bolts for KPLC. The manufacturer shall submit information which confirms satisfactory service experience with products which fall within the scope of this specification.

1. SCOPE

This specification is for rawl bolts for fixing into concrete, brick and stone to secure steelwork and equipment used in transmission and distribution of electricity.

2. REFERENCES

N/A

3. TERMS AND DEFINITIONS

N/A

4. REQUIREMENTS

- 4.1 The rawl bolts shall be suitable for continuous use outdoors in tropical areas with humidity of up to 90%, average ambient temperature of +30°C with a minimum of -1°C and a maximum of +40°C and heavy saline conditions along the coast. The level of corrosion protection shall be suitable for these conditions.
- 4.2 The rawl bolts shall be made from mild steel. As a minimum, the rawl bolts shall meet the requirements of BS 4190 grade 4.6 for bolts and grade 4 for nuts.
- 4.3 The rawl bolt shall be suitable for fixing into concrete, brick and stone to secure steelwork and equipment used in transmission and distribution of electricity.
- 4.4 The rawl bolt shall have a diameter of 12mm and length of 50mm. Any variation in size shall be indicated in the tender document.

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Issue No.	1
Revision No.	0
Date of Issue	2007-07-10
Page 4 of 5	

- 4.5 The rawl bolt shall be supplied complete with all relevant parts for indicated application (and as shown in fig. 1) including nut and washer.
- 4.6 The rawl bolt shall be in accordance with figure 1.

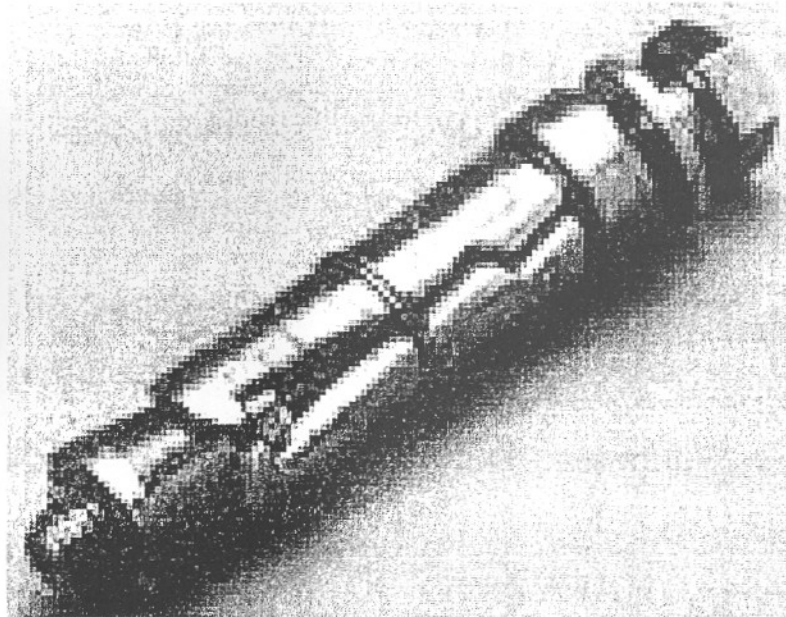


Fig. 1: General Appearance of Rawl Bolt.

- 4.7 The finish colour shall be zinc yellow.

5. TESTS AND INSPECTION

- 5.1 Certified true copies of previous test reports by the relevant International or National Testing/Standards Authority of the country of manufacture (or ISO/IEC 17025 accredited laboratory) shall be submitted with the offer for evaluation (all in English Language).
- 5.2 Routine and sample test reports for the rawl bolts to be supplied shall be submitted to KPLC for approval before shipment/delivery of the goods.

6. MARKING AND LABELLING

- 6.1 The following information shall be marked indelibly and legibly on the rawl bolt.
- i) Manufacturer's Name or Trademark;

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Date: 2007-07-10	Date: 2007-07-10



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Doc. No. KPLC1/3CB/TSP/02/003

Issue No. 1

Revision
No. 0

Date of
Issue 2007-07-10

Page 5 of 5

- ii) Size;
- iii) Mechanical Failing Load (in kN).

6.2 Instructions for storage and installation shall be included in each package, all in English Language.

ANNEX A: Technical Particulars (to be filled and signed by the Manufacturer for all clauses and submitted together with catalogues, brochures, drawings, technical data and test reports for tender evaluation)

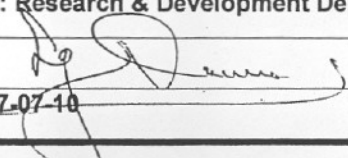
Clause Number	Bidder's offer	Reference page on Manufacturer's catalogue, drawing, technical data or tests report to support the offer.

NB: - This schedule does not in any way substitute for detailed information required elsewhere in the specification.

.....
Manufacturer's Name, Signature, Stamp and Date

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Signed: 

Signed: 

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