



The Kenya Power & Lighting  
Co. Ltd

TITLE:

**SPECIFICATION FOR  
AUGER BITS**

Doc. No.

KPLC1/3CB/TSP09/020

Issue No.

1

Revision No.

0

Date of Issue

2010-05-12

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**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 test certificates & test reports to BS 2054 for tender evaluation)*

Issued by: Head of Section, Tech Stds & Specs

Authorized by: Head of Department, R&D

Signed:

Signed:

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COPY NO.	COPY HOLDER
1	Research & Development Manager
2	Procurement Manager
3	Stores & Stock Control Manager
4	Chief Manager, Distribution
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 of The Kenya Power and Lighting Company Limited (KPLC) and it lays down requirements for Auger Bits. It is intended for use by KPLC in purchasing the items.

### 1. SCOPE

This specification is for Auger Bits for utility poles applications.

The specification stipulates the minimum requirements for Auger Bits 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.

**The Auger Bits shall be of proven design and not the type that breaks when used. It is the responsibility of the Supplier to ensure that the offered design is of the highest quality and guarantees excellent service to 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:

BS 2054: Specification for augers and auger bits

### 3. TERMS AND DEFINITIONS


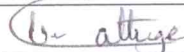
For the purpose of this specification the terms and definitions given in the reference standard shall apply.

### 4. REQUIREMENTS

#### 4.1 SERVICE CONDITIONS

The Auger Bits 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

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- 4.2.1 The Auger Bits shall be manufactured to BS 2054 and the requirements of this specification. The material, manufacturing requirements, accuracies, tests and dimensions MUST be to BS 2054. The material shall have protection against corrosion.
- 4.2.2 The Auger Bits shall be designed for heavy duty applications in boring utility poles. The screw tip and cutting edges shall not break when used.
- 4.2.3 The Auger Bit shall be designed for boring through creosoted hard wood poles without clogging, binding, or stopping to clear chips.
- 4.2.4 The auger bit shall have a long deep spiral flute for effective chip/waste removal and eyed round shank. It shall be complete with operating handle that is robust and suitable for manual operation (turned manually by hands).
- 4.2.5 The Auger Bit shall be of heat treated bit that guards against bending & breakage in heavy-duty applications and strengthens the twist where the greatest strain occurs.
- 4.2.6 The Auger Bit shall be of the design shown in Figure 1:



Fig 1: Screw Tip and Flute Design (total length approx 300mm)

- 4.2.7 It shall be suitable for boring large poles with top diameters in the range 160 – 220mm and ground line diameter of 200 – 300mm.

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4.2.8 The bit shall be the type that can be re-sharpened.

4.2.9 Cutting diameters shall be 5/8" (16mm), 3/4" (20mm), 7/8 (22mm), and 1 inch (25.4mm) and length between 400 - 450mm.

**5. TESTS AND INSPECTION**

5.1 The Auger Bits shall be inspected and tested in accordance with BS 2054 and the requirements of this specification. It shall be the responsibility of the manufacturer to test or to have tested all the relevant tests.

5.2 Copies of previous test certificates & test reports to BS 2054 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).

5.3 Test Certificates & Test Reports to BS 2054 for the Auger Bits to be supplied shall be submitted to KPLC for approval before shipment/delivery of the goods.

5.4 On receipt of the Auger Bits, 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, Auger Bits 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 Auger Bit:


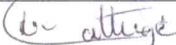
- a) The manufacturer's identity;
- b) The letters "for K.P. & L.Co.Ltd".

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

**7. DEMONSTRATION BEFORE ORDER**

The successful bidder shall demonstrate to KPLC staff (in Nairobi) the use of the auger bits and explain the features that guarantee that the auger bits will not break nor bend when used in boring treated hard wood poles.

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**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 test certificates & test reports to BS 2054 for tender evaluation)

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

Clause number	Bidder's offer (indicate full details of the offered AUGER BITS for each requirement of the specification)
Manufacturer & country	
1	
2	
3	
4.1	
4.2.1	
4.2.2	
4.2.3	
4.2.4	
4.2.5	
4.2.6	
4.2.7	
4.2.8	
4.2.9	
5.1	
5.2	
5.3	
5.4	
6.1	
6.2	
7	

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

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