



Kenya Power

TITLE:

**SPECIFICATION FOR
POWER SAW**

Doc. No.

KP1/3CB/TSP09/074

Issue No.

1

Revision No.

0

Date of Issue

2015-02-05

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Issued by:  Head of Section, Standards Development

Authorized by: Head of Department, Standards

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0.1 Circulation List

COPY NO.	COPY HOLDER
1	Manager Standards
2	Supply Chain Manager, Procurement

Electronic copy (pdf) on KPLC server currently: <http://172.16.1.40/dms/browse.php?fFolderId=23>

0.2 Amendment Record

Rev No.	Date (YYYY-MM-DD)	Description of Change	Prepared by (Name & Signature)	Approved by (Name & Signature)
0	2015-02-05	New Issue	Nancy Wairimu 	Dr. Eng. Peter Kimemia

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FOREWORD

This specification has been prepared by the Standards Department in collaboration with Transmission Department both of The Kenya Power and Lighting Company Limited (KPLC) and it lays down requirements for Power Saw. It is intended for use by KPLC in purchasing the items.

1. SCOPE

This specification is for Power Saw for use by Network Maintenance Teams.

The specification stipulates the minimum requirements for Power Saw 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 Power Saw shall be of proven design and 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 standards contain provisions which, through reference in this text constitute provisions of this specification. Unless otherwise stated, the latest editions (including amendments) apply:

KS 1721: Specification for cross-cut and rip saw

BS 4659: Specification for tool and die steel

References to brand names or catalogue numbers are intended to be descriptive only and not restrictive. The Tenderer may adopt higher standards, brand names, and or catalogue numbers in its Tender, provided that it demonstrates to KPLC's satisfaction that the substitutions ensure equivalence to all requirements of this specification.

3. TERMS AND DEFINITIONS

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

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4. REQUIREMENTS

4.1. SERVICE CONDITIONS

The Power Saw shall be suitable for use outdoors in tropical areas and harsh climatic conditions including areas exposed to sea spray (along the coast), humidity of up to 90% 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. General

- 4.2.1.1. The power saw engine shall be manufactured to applicable ISO standards, whereas the jig shall be manufactured to KS 1721:2001, and the requirements of this specification. All materials used shall have protection against corrosion.
- 4.2.1.2. The power saw shall be designed for heavy duty applications including cutting stout treated eucalyptus wood poles of approximately 30 cm diameter.

4.2.2. Engine specification

- 4.2.2.1. The power saw engine power output shall be not less than 2.2 horsepower (1641.2 J/s), a maximum power speed of 9000 rpm and idling speed of 2900 rpm,
- 4.2.2.2. The electrode gap shall be not less than 0.508 mm (0.02"), fuel tank volume of 12 litres and fuel consumption of approximately 652 g/kwh,
- 4.2.2.3. The engine maximum torque capacity shall be not less than 2Nm/6300 rpm.

4.2.3. Lubricants

The volume of the oil tank shall be not less than 0.24litres (0.5 US pints) and it shall be oil pump type fixed flow.

4.2.4. Vibration and noise data

Equivalent vibration level front/ rear handle shall be 2.5 - 3.2m/s², with sound pressure level at operators ear of not more than 102 dB(A) and sound power level of not more than 114dB(A).

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4.2.5. Cutting equipment –

- 4.2.5.1. The cutting edge shall be made of grade BM2 tool steel in accordance with BS 4659.
- 4.2.5.2. The chain pitch shall be 8.255mm(0.325"), recommended bar length shall be between 330.2-457.2mm(13-18"); chain speed at maximum power of 17.3m/s (56.76 fps), chain speed at 133% of maximum engine speed of 23m/s (75.46 fps) and chain gauge of about 1.27mm (0.05").

4.2.7 Weight

The approximate weight of the equipment shall be 4.092 Kg (9.2lbs).

4.2.8 The power saw shall be of the general arrangement shown in Figure 1:

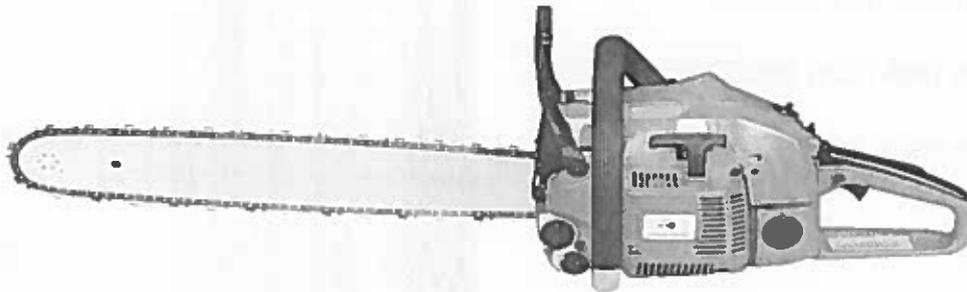


Fig 1: General Arrangement of Power Saw

5. TESTS AND INSPECTION

- 5.1 The Power Saw shall be inspected and tested in accordance with the requirements of this specification. It shall be the responsibility of the supplier to test or to have tested all the relevant tests.
- 5.2 Copies of previous test certificates by a third party testing laboratory accredited to ISO/IEC 17025 shall be submitted with the offer for evaluation. A copy of the accreditation certificate for the testing laboratory shall also be submitted with the tender (all in English Language). Any translations of certificates and test reports into English language shall be signed and stamped by the Testing Authority.
- 5.3 Test Certificates for the Power Saw to be supplied shall be submitted to KPLC for approval before shipment/delivery of the goods.

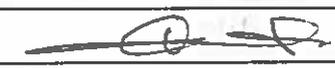
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5.4 On receipt of the Power Saws, KPLC will inspect them and may perform or have performed any of the relevant tests in order to verify compliance with the specification. The supplier shall replace without charge to KPLC, Power Saws which upon examination/inspection,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

6. MARKING AND PACKING

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

- a) The manufacturer's identity;
- b) Model Number;
- c) The words "Property of KPLC".

6.2 Each Power Saw shall be packed in a manner so as to protect it from damage during transportation and storage.

7. DEMONSTRATION BEFORE ORDER

The successful bidder shall demonstrate to KPLC staff (in Nairobi) the use of the Power Saw and explain the features that guarantee excellent service.

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

Tender No.

Clause number	Bidder's offer (indicate full details of the offered POWER SAW for each requirement of the specification)
Model number	Provide documents, catalogues, drawings and test reports to prove conformity to all the clauses for tender evaluation.
Manufacturer & country	
1 Scope	
2 Applicable Standards	
3 Terms & Definitions	
4.1 Service Conditions	
4.2 Design & Construction	
4.2.1	
4.2.2	
4.2.3	
4.2.4	
4.2.5	
4.2.6	
4.2.7	
4.2.8	
5 Tests & Inspection	
5.1	
5.2	
5.3	
5.4	
6 Marking and Packaging	
6.1	
6.2	
7 Demonstration before order	

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

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