



Kenya Power

TITLE:

**SPECIFICATION FOR
KNAPSACK SPRAYER**

Doc. No.

KP1/3CB/TSP09/076

Issue No.

1

Revision No.

0

Date of Issue

2015-02-05

Page 1 of 7

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 AND PACKING
7. DEMONSTRATION AND DRAWINGS APPROVAL

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 certificates for tender evaluation)*

Issued by: Head of Section, Standards Development

Authorized by: Head of Department, Standards

Signed:

Signed:

Date: 2015-02-05

Date: 2015-02-05

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)

Issued by: Head of Section, Standards Development

Authorized by: Head of Department, Standards

Signed:



Signed:



Date: 2015-02-05

Date: 2015-02-05

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 Knapsack Sprayer. It is intended for use by KPLC in purchasing the items.

1. SCOPE

This specification is for Knapsack Sprayer for use by the company's Network Maintenance Teams.

The specification stipulates the minimum requirements for Knapsack Sprayer 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 Knapsack Sprayer 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

Applicable ISO, IEC Standards and Kenya Standards.

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.

4. REQUIREMENTS

4.1 SERVICE CONDITIONS

The Knapsack Sprayer shall be suitable for use outdoors in tropical areas and harsh climatic conditions including areas exposed to sea spray (along the coast), humidity of

Issued by: Head of Section, Standards Development

Authorized by: Head of Department, Standards

Signed:



Signed:



Date: 2015-02-05

Date: 2015-02-05

upto 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 The Knapsack Sprayer shall be manufactured to applicable ISO Standards, Kenya Standards and the requirements of this specification. All materials used shall have protection against corrosion.

4.2.2 The Knapsack Sprayer shall be designed for heavy duty applications. It shall be ideal for spraying chemical on small weeds and grass in substations.

4.2.3 The Knapsack Sprayer shall have the following features/properties:

- a) Non pressure retaining – manual pumping
- b) Side lever sprayer
- c) Diaphragm type – no pistons
- d) Pressure chamber either be internal or external
- e) Tank shall be made of light but durable material like polyethylene
- f) Minimum capacity 16 litres
- g) Air chamber capacity 0.9 litres
- h) Maximum pressure 10 bar
- i) Working pressure 1 – 4 bar
- j) Hose length 120cm
- k) Lance length 60cm
- l) Carrying strap 100x3.5x2cm of durable material

4.2.4 The Knapsack Sprayer shall be of the general arrangement shown in Figure 1:

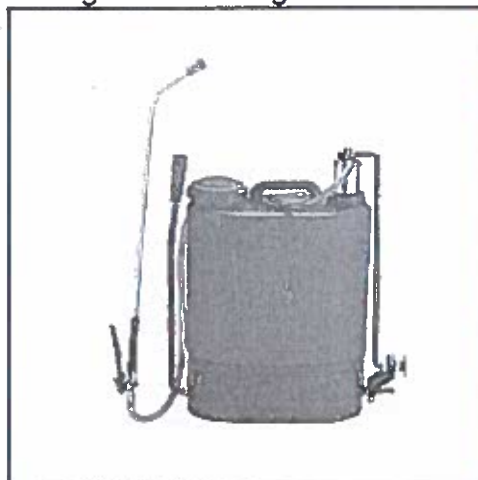


Fig 1: General Arrangement of Knapsack Sprayer

Issued by: Head of Section, Standards Development

Authorized by: Head of Department, Standards

Signed:



Signed:



Date: 2015-02-05

Date: 2015-02-05



TITLE:

**SPECIFICATION FOR
KNAPSACK SPRAYER**

Doc. No.

KP1/3CB/TSP09/076

Issue No.

1

Revision No.

0

Date of Issue

2015-02-05

Page 5 of 7

5. TESTS AND INSPECTION

- 5.1 The Knapsack Sprayer 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 all the relevant tests performed.
- 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 Knapsack Sprayer to be supplied shall be submitted to KPLC for approval before shipment/delivery of the goods.
- 5.4 On receipt of the Knapsack Sprayers, 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, Knapsack Sprayer 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 Knapsack Sprayer:
- a) The manufacturer's identity;
 - b) Model Number;
 - c) The words "Property of KPLC".
- 6.2 Each Knapsack Sprayer shall be packed in a manner so as to protect it from damage during transportation and storage.

7. DEMONSTRATION AND DRAWINGS APPROVAL

The successful bidder shall demonstrate to KPLC staff (in Nairobi) the use of the Knapsack Sprayer and explain the features that guarantee excellent service. This shall be done at the drawings approval stage.

.....THIS SPACE LEFT BLANK.....

Issued by: Head of Section, Standards Development

Authorized by: Head of Department, Standards

Signed:

Signed:

Date: 2015-02-05

Date: 2015-02-05



Kenya Power

TITLE:

**SPECIFICATION FOR
KNAPSACK SPRAYER**

Doc. No.

KP1/3CB/TSP09/076

Issue No.

1

Revision No.

0

Date of Issue

2015-02-05

Page 6 of 7

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 KNAPSACK SPRAYER for each requirement of the specification)
Manufacturer & country	
Model Number	
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	
a) Non pressure retaining – manual pumping b) Side lever sprayer c) Diaphragm type – no pistons d) Pressure chamber either be internal or external e) Tank shall be made of light but durable material like polyethylene f) Minimum capacity 16 litres g) Air chamber capacity 0.9 litres h) Maximum pressure 10 bar i) Working pressure 1 – 4 bar j) Hose length 120cm k) Lance length 60cm l) Carrying strap 100x3.5x2cm of durable material	
5 Tests & Inspection	
5.1	
5.2	
5.3	
5.4	

Issued by: Head of Section, Standards Development

Authorized by: Head of Department, Standards

Signed:

Signed:

Date: 2015-02-05

Date: 2015-02-05



Kenya Power

TITLE:

**SPECIFICATION FOR
KNAPSACK SPRAYER**

Doc. No.

KP1/3CB/TSP09/076

Issue No.

1

Revision No.

0

Date of Issue

2015-02-05

Page 7 of 7

Clause number	Bidder's offer (indicate full details of the offered KNAPSACK SPRAYER for each requirement of the specification)
6 Marking and Packaging	
6.1	
6.2	
7 Demonstration and drawings approval	

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

Issued by: Head of Section, Standards Development

Signed:

Date: 2015-02-05

Authorized by: Head of Department, Standards

Signed:

Date: 2015-02-05

