



The Kenya Power & Lighting
Co. Ltd.

TITLE:

**SPECIFICATION FOR
DISTRIBUTION
TRANSFORMER Part 2: Pole
Mounted Three Phase
Distribution Transformer**

Doc. No.

KPLC1/3CB/TSP/10/001-
02

Issue No.

2

Revision No.

1

Date of Issue

2010-04-30

Page 1 of 23

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: Guaranteed Technical Particulars *(to be filled and signed by the Manufacturer and submitted together with copies of relevant Manufacturer's catalogues, brochures, drawings, technical data, sales records and copies of type test certificates and type test reports for tender evaluation)*

Issued by: Head of Section, Technical Stds & Specs

Authorized by: Head of Department , R & D

Signed:

[Signature]

Signed:

[Signature]

Date:

2010-04-30

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Page 2 of 23	

0.1 Circulation List

COPY NO.	COPY HOLDER
1	Research & Development Manager
2	Procurement Manager
3	Stores & Transport Manager
4	Technical Services Manager
5	Design & Construction Manager
6	Operations and Maintenance Manager
7	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)
Issue 2 Rev 1	2010-04-14	Removed restrictions on type of tank construction, specified 90° bent in top cover, the minimum thickness for tank and removed requirement on arcing horns	S. Kimitei 	G. Owuor

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Signed:

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Page 3 of 23	

FOREWORD

This specification has been prepared by the Research and Development Department in collaboration with the Technical Services, Design & Construction and Operations & Maintenance Departments all of the Kenya Power & Lighting Company Ltd (KPLC) and it lays down requirements for pole mounted three phase distribution transformers. The specification is intended for use by KPLC in purchasing the transformers.

It is expected that manufacturers will provide energy efficient standard design transformers that will provide high level of efficiency and significant initial cost saving. The manufacturer shall also submit information which demonstrates satisfactory service experience with products which fall within the scope of this specification.

1. SCOPE

This specification is for oil-immersed, air-cooled, outdoor type pole mounted three phase distribution transformers for 11kV and 33kV distribution systems operated at 50 Hz.

The specification covers transformers of the following voltage ratios and ratings:

- 11000/433V: 50 KVA, 100 KVA, 200 KVA and 315 KVA
- 33000/433V: 50 KVA, 100 KVA, 200 KVA and 315 KVA.

The specification also covers inspection and test of the transformer as well as schedule of Guaranteed Technical Particulars to be filled, signed by the manufacturer and submitted for tender evaluation.

The specification stipulates the minimum requirements (including features to deter vandalism) for pole mounted three phase distribution transformers acceptable for use in the company (KPLC) and it shall be the responsibility of the Manufacturer to ensure adequacy of the design, good workmanship and good engineering practice in the manufacture of the transformers for KPLC.

The specification does not purport to include all the necessary provisions of a contract.

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.

Issued by: Head of Section, Technical Stds & Specs	Authorized by: Head of Department , R & D
Signed:	Signed:
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