



Kenya Power

TITLE:

**SPECIFICATION FOR
WATER PUMP**

Doc. No.

KP1/3CB/TSP09/081

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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Date: 2015-02-05

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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)

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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 Water Pump. It is intended for use by KPLC in purchasing the items.

1. SCOPE

This specification is for Water Pump for use by the company's Network Maintenance Teams.

The specification stipulates the minimum requirements for Water Pump 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 Water Pump 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 Water Pump 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

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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 Water Pump shall be manufactured to applicable ISO Standards, Kenya Standards and the requirements of this specification. All materials used shall be corrosion resistant.

4.2.2 The Water Pump shall be designed for heavy duty applications.

4.2.3 The Water Pump shall have the following minimum features:

- a) Voltage range: 220-240V
- b) Frequency: 50Hz
- c) Power: 5KVA
- d) Head: 15m
- e) Flow rate: 350 l/h
- f) Dimensions: LxWxH 30x20x20cm

4.2.4 The Water Pump shall be of the general arrangement shown in Figure 1:



Fig 1: General Arrangement of Water Pump

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5. TESTS AND INSPECTION

- 5.1 The Water Pump 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 Water Pump to be supplied shall be submitted to KPLC for approval before shipment/delivery of the goods.
- 5.4 On receipt of the Water Pump, 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, Water Pumps 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 Water Pump:
- a) The manufacturer's identity;
 - b) Model Number;
 - c) Voltage and Power Ratings;
 - d) The words "Property of KPLC".
- 6.2 Each Water Pump 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 Water Pump and explain the features that guarantee excellent service. This shall be done at the drawings approval stage.

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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 WATER PUMP for each requirement of the specification)
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	
5 Tests & Inspection	
5.1	
5.2	
5.3	
5.4	
6 Marking and Packaging	
6.1	
6.2	
7 Demonstration and drawings approval	

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Supplier's Name, Signature, Stamp and Date

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