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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 CALIBRATED TORQUE SPANNER also referred to as TORQUE RATCHET WRENCH. It is intended for use by KPLC in purchasing the items.

1. SCOPE

This specification is for CALIBRATED TORQUE SPANNER for use by the company's Network Maintenance Teams.

The specification stipulates the minimum requirements for CALIBRATED TORQUE SPANNER 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 CALIBRATED TORQUE SPANNER 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 Calibrated Torque Spanner shall be suitable for use outdoors in tropical areas and harsh climatic conditions including areas exposed to sea spray (along the coast),

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humidity of 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 Calibrated Torque Spanner shall be manufactured to ISO 6789, applicable ISO Standards, Kenya Standards and the requirements of this specification. All materials used shall corrosion resistant.
- 4.2.2 The Calibrated Torque Spanner shall be designed for heavy duty applications. The Ratchet head shall be heavy duty and reversible having a very low ratcheting torque.
- 4.2.3 It shall have a low ratcheting arc to engage next gear tooth making it possible to use in places with tight lateral space.
- 4.2.4 The handle shall be of synthetic resin which provides comfort and durability and resists chemicals in industrial usage.
- 4.2.5 The Calibrated Torque Spanner shall be a set of at least 10 different sizes 10mm – 30mm with a heavy duty synthetic casing.
- 4.2.6 Calibration certificate with national traceability shall be provided with every torque wrench set
- 4.2.7 The Calibrated Torque Spanner shall be of the general arrangement shown in Fig 1:



Fig 1: General Arrangement of Calibrated Torque Spanner

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5. TESTS AND INSPECTION

- 5.1 The Calibrated Torque Spanner 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 and calibration certificates for the Calibrated Torque Spanner to be supplied shall be submitted to KPLC for approval before shipment/delivery of the goods.
- 5.4 On receipt of the Calibrated Torque Spanner, 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, Calibrated Torque Spanners 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 Calibrated Torque Spanner:
- a) The manufacturer's identity;
 - b) Model Number;
 - c) The words "Property of KPLC".
- 6.2 Each Calibrated Torque Spanner 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 Calibrated Torque Spanner 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 CALIBRATED TORQUE SPANNER 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	
4.2.5	
4.2.6	
4.2.7	
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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