



The Kenya Power & Lighting  
Co. Ltd.

TITLE:

**SPECIFICATION FOR  
TOOLS & TOOL BOXES  
FOR ELETRICAL PLANT  
TEAMS**

Doc. No. KPLC1/3CB/TSP/09/024

Issue No. 1

Revision  
No. 0

Date of  
Issue 2011-05-24

Page 1 of 11

## 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 Supplier and submitted together with copies of the manufacturer's catalogues, brochures, technical data, customer sales records & reference letters and quality certificates for tender evaluation)*

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Issue 2011-05-24

Page 2 of 11

**0.1 Circulation List**

COPY NO.	COPY HOLDER
1	Research & Development Manager
2	Procurement Manager
3.	Technical Services Manager
Electronic copy (pdf) on KLC Server (currently :Network-\\stima-fprnt-001\techstd&specs	

**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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Issue No.	1
Revision No.	0
Date of Issue	2011-05-24
Page 3 of 11	

**FOREWORD**

This specification has been prepared by the Research and Development Department in collaboration with Technical Services Department both of The Kenya Power and Lighting Company Limited (KPLC) and it lays down requirements for Tools & Tool Boxes for Electrical Plant Teams. It is intended for use by KPLC in purchasing the Tools & Tool Boxes.

The supplier shall submit information which confirms satisfactory service experience with products which fall within the scope of this specification.

**1. SCOPE**

The specification is for Tools & Tool Boxes for Electrical Plant Teams.

**2. REFERENCES**

N/A

**3. TERMS AND DEFINITIONS**

N/A

**4. REQUIREMENTS**

**4.1 5 TRAY HEAVY DUTY EMPTY TOOL BOX**

Auto-return ball bearing, spring loaded slides, smooth drawer action, scratch resistance, heavy gauge steel on critical sections of chest, side handles shall be chrome plated and pvc coated on flat sections, greater strength and rigidity, tool box dimensions: 535mm×255mm×220mm, compartments 4×530mm×120mm×50mm, 1×530mm×250mm×90mm.

**4.2 SET RING SPANNERS METRIC: 6-32MM**

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No. 0

Date of  
Issue 2011-05-24

Page 4 of 11

Chrome vanadium steel, chrome plated finish, deep reach 20° angled, 70° off set, precision formed for an exact fit, narrow profile for better access. Shall be supplied as a complete set.

**4.3 SET FIXED SPANNERS METRIC: 6-32MM**

Chrome vanadium steel, chrome plated, precision formed for an exact fit, narrow profile for easy access in tight locations. Shall be supplied as a complete set.

**4.4 SET BA FIXED SPANNERS: 6-32MM**

Chrome vanadium steel, raised panel handle, matt finish, precision formed for an exact fit. Shall be supplied as a complete set.

**4.5 SET BA SOCKET SPANNERS SINGLE HEXAGON: 6-32MM**

Made of chrome vanadium steel, chrome plated, mirror finish. Shall be supplied as a complete set.

**4.6 300mm ADJUSTABLE SPANNERS**

Half polished galvanized, phosphorated, with pvc sleeve lever, chrome plated, long life, anti-corrosion.

**4.7 200mm ADJUSTABLE SPANNERS**

Half polished galvanized, phosphorated with pvc sleeve lever, chrome plated, long life, anti-corrosion.

**4.8 150mm ADJUSTABLE SPANNERS**

Half polished galvanized, phosphorated, with pvc sleeve lever, chrome plated, long life, anti-corrosion

**4.9 PIPE WRENCH**

Overall length	jaw capacity
250mm	30mm
300mm	40mm

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Revision  
No. 0

Date of  
Issue 2011-05-24

Page 5 of 11

Forged steel jaw, full floating hook jaw, and induction hardened jaws.

**4.10 LONG NOSED PLIERS**

Chrome vanadium steel, heat treated cutting edges. Chemically blacked, ideal for terminal loupe forming, wire manipulation and shape forming in confined spaces, bi-material grip. Overall length 170mm (6 3/4")

**4.11 TIN SNIPS**

Made from drop forged carbon steel, should cut between 23 and 16 gauge cold rolled low carbon steel.  
Length 250mm, weight about 2.9kgs

**4.12 SIDE CUTTERS**

Carbon steel, hardened and tempered, induction hardened jaws cutting edges, bright polished finish with cushion grip handles.  
Overal length 120mm.

**4.13 HAMMER BALL PEIN 1LB, 3LB**

Tough, drop forged head with rim tempered hardened face and pein. Face, chamber, cheeks and pein shall be polished and have a protective coating of clear lacquer.

**4.14 COLD CHISEL SET**

Hardened, quenched and tempered to precise specifications for durable, hard tips and cutting edges. Shall be supplied as a complete set.

Size	Overal length
18mm	200mm
20mm	200mm

**4.15 CENTRE PUNCH**

Chrome plated, durable, corrosion resistant and reliable.

Blade width	overall length
6mm	130mm

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Issue No. 1

Revision  
No. 0

Date of  
Issue 2011-05-24

Page 6 of 11

**4.16 HEAVY DUTY FLAT SCREW DRIVERS SET (4)**

CR-V Steel blades, black hardened magnetized tip, comfort soft grip. Shall be supplied as a complete set.

Sizes: 150mm, 200mm, 250mm and 300mm

**4.17 HEAVY DUTY STAR SCREW DRIVERS SET (4)**

CR-V Steel blades, black hardened magnetized tip, comfort soft grip. Shall be supplied as a complete set.

Sizes: 150mm, 200mm, 250mm and 300mm

**4.18 TAPE MEASURE**

Unwinds easily and locks in a precise place, housing should be tough enough to withstand accidental dropping, measuring printed on both sides, length 10m, graduation 1mm. Blade width 25mm.

Blades and hooks are heavy gauge and corrosion resistant.

**4.19 STEEL RULE**

Precision made with etched fine black graduations for easy readings and long life, satin chrome stainless steel, 300mm long.

**4.20 T-SQUARE 200mm HEAVY DUTY**

Heavy duty type, precision made with etched fine black graduations for easy readings and long life.

**4.21 SCRIBER STRAIGHT HEAD**

Should be able to leave permanent marking on all surfaces, hexagonal aluminum pencil shaped body, mill finish, 60° tip finish, overall length 150mm, shank length 3.175mm, handle 6.35mm×140mm

**4.22 Scriber ANGLE HEAD**

Should be able to leave permanent marking on all surfaces, hexagonal alluminium pencil shaped body, mill finish, 75° tip finish, overall length 165mm, shank length 1/16" diameter 6.35mm long, handle 3.175× 150mm long.

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Issue 2011-05-24

Page 7 of 11

**4.23 HACKSAW FRAME AND BLADE SET**

Adjustable, made from carbon steel, plastic handle.  
300mm hacksaw blade  
300mm blade length  
Supplied with 10 pieces of blades.

**4.24 JUNIOUR HACKSAW FRAME AND BLATE SET**  
Size 150mm, supplied complete with 5 pieces of blades.

**4.25 TRIMMING KNIFE**  
Retractable contour grip complete with 5 blades. Slim line diecast body with contoured grips to provide greater degree of control and comfort.  
Overall length 155mm.

**4.26 MOLE GRIP PLIERS**  
Black finish with quick release levers, drop forged heat treated serrated steel jaws, vinyl coated handle.  
Maximum opening 60mm  
Maximum length 300mm

**4.27 PHASE TESTER**  
Detects both ac and dc voltages, ac senses voltage without metallic contact, dc senses voltage with metallic contact, tip glows red to indicate presence of voltage, prevents electrical shock of the user, voltage range from 0-600V.

**4.28. WIRE STRIPPER**  
Drop forged from carbon steel, duly hardened and tempered, polished finish with heavy duty sleeve.  
Overall length 155mm.

**4.29 ENGINEERS BALL PEIN PLIERS**  
Manufactured from the finest quality drop forged steel. Hardened and tempered with and polished faces  
Head weight 1 1/2 lb overall length 400mm

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0

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Issue

2011-05-24

Page 8 of 11

**4.30 SET ALLEN KEYS METRIC**

Chrome vanadium and steel hardened, long arm suitable for working in confined spaces, tempered and chemically blacked, display pack in plastic case. Shall be supplied as a complete set.  
Size 1.5-22mm.

**4.31 CIRCLIP PLIERS-INSIDE-OUTSIDE**

Made from chrome nickel steel, hardened and tempered with cushion grip handle. Jaws straight 90° angled, capacity 85-165mm

**4.32 HAND CRIMPING TOOLS 1.5-16MM**

Heavy gauge carbon steel, hardened, tempered and chemically blacked, moulded grip handles.  
Overall length 200mm.

**4.33 FLAT FILE –BASTARD 300mm**

Carbon steel, heat treated, double cut on the sides and single cut on the edges, rectangular in cross section and tapered slightly towards the point in width, 300mm in length.

**4.34 FLAT FILE 2<sup>ND</sup> CUT 300mm**

Carbon steel, heat treated double cut on the sides and single cut on the edges, rectangular in cross section and tapered slightly towards the point in width, 300mm in length.

**4.35 FLAT FILE SMOOTH-300mm**

Carbon steel, heat treated smooth cut, rectangular in cross section and tapered slightly towards the point in width, 300mm in length.

**4.36 HALF ROUND-2<sup>ND</sup> CUT 300mm**

Hardened and tempered tool steel construction, precision machined cutting teeth, extra large contoured polycast handles. 300mm in length.

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Revision No.	0
Date of Issue	2011-05-24
Page 9 of 11	

**4.37 ROUND FILE -2<sup>ND</sup> 300mm**

Carbon steel, heat treated and suitable for filing cambered surface, through hole, blind hole.

**4.38 ROUND FILE 200mm 2<sup>ND</sup>**

Carbon steel, heat treated and suitable for filing cambered surface, through hole, blind hole.

**4.39 INSIDE CALLIPER**

Hardened and tempered bow springs, adjusting screws has self seating washer and nut for quick adjustment, legs made from special caliper steel with hardened measurement points.

**Features**

- Specially designed for inside measurements in hard to reach places.
- The Caliper shall provide digital readout to .0005"/0.01mm for error-free reading.
- Shall provide SPC output. Additionally, shall incorporate Range 0-200mm, LCD Resolution 0.01mm

**4.40 OUTSIDE CALLIPER**

Hardened and tempered bow springs, adjusting screws has self seating washer and nut for quick adjustment, legs made from special caliper steel with hardened measurement points.  
254mm legs  
254mm jaw capacity.

**5. TESTS AND INSPECTION**

5.1 The Tools & Tool Boxes shall be inspected as per the requirements of this Specification.

5.2 The Tools & Tool Boxes shall be backed with a 12-months warranty.

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Date of  
Issue 2011-05-24

Page 10 of 11

5.3 The Bidder shall submit a clause by clause statement of compliance with the specifications together with copies of the manufacturer's catalogues, brochures, technical data and proven test reports clearly marked to support each clause, all in English for evaluation. The manufacturer's type reference/designation of the item offered shall be indicated.

5.4 In the case of tender award, technical details for the Tools & Tool Boxes shall be submitted to KPLC for approval before delivery.

5.5 The Tools & Tool Boxes shall be inspected during delivery before acceptance to KPLC stores.

**6.0 MARKING AND INSTRUCTION**

The following information shall be marked indelibly and legibly on the Tools & Tool Boxes

- i) Manufacturer's Name or Trademark;
- ii) Type reference
- iii) Letters "PROPERTY OF KPLC "

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Page 11 of 11

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

Tender No. ....

Clause number	Bidder's offer (indicate full details of the offered equipment for each requirement of the specification)
1. Scope	
1.1	
4. Requirements	
4.1-4.40	
.	
.	
.	
.	
.	
.	
.	
Test & Inspection	
5.1-5.5	
Marking & Instruction	
6	

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

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