



Kenya Power

TITLE:
**SPECIFICATION FOR
PERSONAL PROTECTIVE
EQUIPMENT: Part 3:
Protective Clothing**

Doc. No.	KP1/3CB/TSP/01/003-3
Issue No.	1
Revision No.	0
Date of Issue	2012-12-17
Page 9 of 18	

- 4.2.4.3 The rain coat shall be capable of being opened completely down the front and have an overlapping button band from top to bottom. It shall be long sleeved and past knee length (sizes as per tender requirement).
- 4.2.4.4 The rain coat shall be made of 100% Nylon material having the physical characteristics given in Table 3 below. The raincoat fabric shall be uniformly resin-finished and shall comply with water resistance of 150cm of water when tested in accordance with KS 08-439. The lining shall be made of material with similar properties.
- 4.2.4.5 The crease recovery angle of the coat fabrics shall be not less than 240° when tested in accordance with KS 08-269.

Table 3: Physical Characteristics for Fabric for Raincoat

Fibre Composition	Weave	Threads/cm		Mass g/m ²	Breaking Load, N		Tear Strength, N		Abrasion Resistance
		warp	weft		warp	weft	warp	weft	
100% Nylon	Plain	26	20	140	1260	900	28	22	1250 cycles

- 4.2.4.6 The rain coat shall have a non-detachable hood, two hip pockets and full collar for added comfort. The hood shall be incorporated into the collar.
- 4.2.4.7 The rain coat shall be marked as follows:
- Kenya Power Logo (reflective yellow) shall be embroidered on the left chest area above the pocket. The logo shall be 65mm by 65mm in size.
 - The raincoat shall also have 'Kenya Power' letters embroidered in reflective yellow colour centered at the back (as per approved sample). The overall dimensions of the marking at the back shall be 200mm length and 60mm height, with a tolerance of ±5mm.

4.2.5 Acid protective Overall

- 4.2.5.1 The acid protective overall shall be in accordance with all the requirements listed in clauses 4.2.1.1 to 4.2.1.19 above and those specified in clauses 4.2.5.2 to 4.2.5.9
- 4.2.5.2 The overall shall be designed to be worn over every day clothes to protect the wearer from direct contact with acids (splash). It shall be Blue, Pantone 654 PC in colour.

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Doc. No.	KPI/3CB/TSP/01/003-3
Issue No.	1
Revision No.	0
Date of Issue	2012-12-17
Page 10 of 18	

- 4.2.5.3 The overall shall guard against the effects of acids, which could enter the body through skin absorption or tissue damage upon contact with the skin. It shall protect the body, arms and legs of the wearer.
- 4.2.5.4 It shall have long sleeves, high collar and front zip (fly to neck). The zip shall be made of corrosion resistant metal and have overlapping flap.
- 4.2.5.5 It shall have elasticized band at the waist with one button.
- 4.2.5.6 The acid protective overall shall be made from material of minimum physical characteristics given in Table 4 below.

Table 4: Physical Characteristics for Fabric for Acid Protective Overalls as per KS 541:1

Fabric Reference	Fibre Composition	Weave	Threads/cm		Mass g/m ²	Breaking Load, N		Tear Strength, N	
			warp	weft		warp	weft	warp	weft
TP1	100% Polyester	Plain	15	13	230	1840	1490	160	175

- 4.2.5.7 The materials of construction shall not cause skin irritation or have any adverse effect to health of the wearer. The material shall have a crease recovery angle of at least 120°.
- 4.2.5.8 The overall shall have two 140 x 160 mm chest pockets, two standard hip pockets and one 190 x 230 mm tool pocket (with flap) on right leg. All pockets, except hip pockets, shall have buttons for locking. Each side of the overall next to the hip pocket shall have an opening of 180mm length for hand access to the pocket of inner ordinary clothes. A tolerance of ±10mm shall be allowed on these dimensions.
- 4.2.5.9 The overall shall be marked as follows:
- Kenya Power Logo (reflective yellow) shall be embroidered on the left chest area above the pocket. The logo shall be 65mm by 65mm in size with tolerance of ±5mm.
 - The acid-proof overall shall have 'Kenya Power' letters embroidered in reflective yellow colour centered at the back (as per approved sample). The overall dimensions of the marking at the back shall be 200mm length and 60mm height, with a tolerance of ±5mm.

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Protective Clothing**

Doc. No.

KP1/3CB/TSP/01/003-3

Issue No.

1

Revision No.

0

Date of Issue

2012-12-17

Page 11 of 18

4.2.6 Pull-over

- 4.2.6.1 The pull-over shall be in accordance with all the requirements listed in clauses 4.2.1.1 to 4.2.1.19 above and those specified in clauses 4.2.6.2 to 4.2.6.6
- 4.2.6.2 The pull-over type design shall be military sweater, v-neck type and without patches and without epaulets. It shall be in accordance with Kenya Standard for military/security sweater.
- 4.2.6.3 It shall be of acrylic materials and the design shall be such that the sweater shall not lose elasticity at the arms, waist, around the neck and body.
- 4.2.6.4 The colour shall be navy blue.
- 4.2.6.5 The design and materials shall be as per the approved sample.
- 4.2.6.6 Kenya Power Logo shall be embroidered in reflective yellow on the left chest area. The logo shall be 40mm by 40mm in size with tolerance of ± 5 mm

4.2.7 Wind Breaker

- 4.2.7.1 The windbreaker shall be in accordance with all the requirements listed in clauses 4.2.1.1 to 4.2.1.19 above and those specified in clauses 4.2.7.2 to 4.2.7.6.
- 4.2.7.2 The windbreaker shall be waterproof and designed to protect the wearer from strong winds and rain. It shall be padded and lined to suit intended purpose.
- 4.2.7.3 The windbreaker shall be Blue, Pantone 288 PC in colour.
- 4.2.7.4 The windbreaker shall have a high collar with a hood incorporated into the collar. The hood shall have size adjustment string of similar material as the shell.
- 4.2.7.5 The front shall have a zipper on the inside and four press buttons on the outside. It shall have two diagonal pockets on the lower part.
- 4.2.7.6 The windbreaker shall have the following markings as follows:
- Kenya Power Logo shall be embroidered in reflective yellow colour on the left chest area. The logo size shall be 65mm by 65mm with a tolerance of ± 5 mm.

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Issue No.	1
Revision No.	0
Date of Issue	2012-12-17
Page 12 of 18	

- The windbreaker shall also have 'Kenya Power' letters embroidered in reflective yellow colour centered at the back (as per approved sample). The overall dimensions of the marking at the back shall be 200mm length and 60mm height, with a tolerance of ± 5 mm.
- The windbreaker shall have high visibility reflective bands on the arms, over the shoulders, around the chest and the back. The bands shall be reflective yellow colour, 50 mm ± 5 mm wide and shall comply with KSO 08 –1149.

4.2.8 High Visibility Jacket

4.2.8.1 The high visibility jacket shall be in accordance with all the requirements listed in clauses 4.2.1.1 to 4.2.1.19 above and those specified in clauses 4.2.8.2 to 4.2.8.7.

4.2.8.2 The high visibility jacket shall be luminous green in colour.

4.2.8.3 It shall conform to EN 471 class 2.

4.2.8.4 Materials shall be 100% polyester.

4.2.8.5 It shall have Velcro front fastening

4.2.8.6 It shall be sleeveless and shall provide the wearer with high level of visibility using two horizontal silver reflective tapes around the body. The tapes (bands) shall be 50mm ± 5 mm wide and shall comply with KS 08-1149.

4.2.8.7 The high visibility jacket shall have the following markings:

- Kenya Power Logo in blue colour on the left chest area and shall be 65mmx65mm ± 5 mm in size.
- The jacket shall also have 'Kenya Power' letters embroidered in reflective yellow colour centered at the back (as per approved sample). The overall dimensions of the marking at the back shall be 200mm length and 60mm height, with a tolerance of ± 5 mm.

4.2.9 Protective Clothing for Cooks & Kitchen Attendants

4.2.9.1 The Protective Clothing for Cooks & Kitchen Attendants shall be in accordance with all the requirements listed in clauses 4.2.1.1 to 4.2.1.19 above and those specified in clauses 4.2.9.2 to 4.2.9.5.

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Protective Clothing**

Doc. No.

KPI/3CB/TSP/01/003-3

Issue No.

1

Revision No.

0

Date of Issue

2012-12-17

Page 13 of 18

4.2.9.2

Full Apron, PVC

- Colour: White Colour.
- Material: 100% PVC with matching stitching.
- One front pocket at the centre and two tie loops at the back.
- All visible seams to be sewn with two rows of sewing
- Shall be marked with the full Kenya Power logo measuring 65mm x 65mm ± 5 mm at the left chest area.

4.2.9.3

Full Apron, Poly-cotton

- Colour: White
- Material: 65% polyester and 35% cellulosic with matching stitching.
- One front pocket and tie loops at the back.
- Design: full front cover, past knee height, sleeveless.

4.2.9.4

Half Apron, Poly-cotton

- Colour: White
- Material: 65% polyester and 35% cellulosic with matching stitching.
- One front pocket and tie loops at the back.
- Design: waist type (half cover front, waist downwards, past knee height)

4.2.9.5

White Overalls

4.2.9.5.1

The overall shall be designed to be worn over everyday clothes to protect the body, arms and legs of wearer. It shall be front buttons down and have two chest pocket (enclosed with buttons) and two hip pockets. Each side of the overall next to the hip pocket shall have an opening of 180mm ± 10 mm in length for hand access to the pocket of inner ordinary clothes.

4.2.9.5.2

The colour shall be white.

4.2.9.5.3

Material shall be 65% polyester and 35% cellulosic.

4.2.9.5.4

The overall shall be marked with the full Kenya Power logo measuring 65mm x 65mm ± 5 mm at the left chest area above the pocket.

The overall shall also have 'Kenya Power' letters embroidered in reflective yellow colour centered at the back (as per approved sample). The overall dimensions of the marking at the back shall be 200mm length and 60mm height, with a tolerance of ± 5 mm.

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Doc. No.	KP1/3CB/TSP/01/003-3
Issue No.	1
Revision No.	0
Date of Issue	2012-12-17
Page 14 of 18	

5.0 TESTS AND INSPECTION

5.1 Tests for the materials used and standard of manufacture shall be done in accordance to KS 541-1, KS 08-1149, KS 08-439, KS 08-269, KS 1469, the applicable Kenya Standards and the requirements of this specification. It shall be the responsibility of the supplier to perform or to have performed all the tests specified.

5.2 Copies of previous Test Reports issued by a third party laboratory that is accredited to ISO/IEC 17025 shall be submitted with the tender for the purpose of technical evaluation. The accreditation certificate for laboratory shall also be submitted with the tender.

The test reports to be submitted with the tender for evaluation shall include material composition, standard of manufacture and properties (colour fastness and change in dimensions/shrinkage).

5.3 Every batch of Protective Clothing shall be subject to inspection by Kenya Power staff at the place of manufacture and tests/inspection carried out on samples picked at random in their presence. Test reports shall be completed (by the manufacturer) and made available by the supplier to Kenya Power for approval before delivery of the items.

5.4 On receipt of the Protective Clothing, Kenya Power 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 Kenya Power, Protective Clothing which upon examination, test or use fail to meet any or all of the requirements in the specification.

6.0 MARKING, LABELLING AND PACKING

6.1 Labels shall be attached to each garment and shall have the following information; marked legibly and indelibly:

- name/trademark of manufacturer;
- standard to which the garment complies;
- size;
- instructions for care and cleaning

The labels and marking shall be done at the factory during manufacture.

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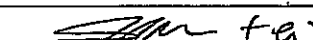
Doc. No.	KP1/3CB/TSP/01/003-3
Issue No.	1
Revision No.	0
Date of Issue	2012-12-17
Page 15 of 18	

- 6.2 The protective clothing shall be dispatched by the supplier in clean condition and shall be supplied packed in such a manner as to avoid soiling and damage in transport and storage
- 6.3 Items required as a set shall be packed as so required.
- 6.4 For measured items, each package of each set/item shall be labeled with the name, staff number and station of the person whose measurements were taken.
- 6.5 Detailed user's instructions guide including washing guide and meaning of all symbols used shall be submitted with each item printed in English language.

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Doc. No.	KP1/3CB/TSP/01/003-3
Issue No.	1
Revision No.	0
Date of Issue	2012-12-17
Page 16 of 18	

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, copies of previous test reports, list of customers and reference letters from four previous customers for tender evaluation)

TENDER NO.

REQUIREMENT	BIDDER'S OFFER (indicate full details of offered item)
Name & address of manufacturer	
Country of manufacture	
Manufacturer's letter of authorization (for each item)	
Clause Number as per specification	
1.1	
1.2	
1.3	
2.0	
3.0	
4.1	
4.2.1 General Requirements	
4.2.1.1	
4.2.1.2	
4.2.1.3	
4.2.1.4	
4.2.1.5	
4.2.1.6	
4.2.1.7	
4.2.1.8	
4.2.1.9	
4.2.1.10	
4.2.1.11	
4.2.1.12	
4.2.1.13	
4.2.1.14	
4.2.1.15	
4.2.1.16	
4.2.1.17	
4.2.1.18	
4.2.1.19	
4.2.2 Overalls (Ordinary Overall)	

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Doc. No.	KP1/3CB/TSP/01/003-3
Issue No.	1
Revision No.	0
Date of Issue	2012-12-17

Page 17 of 18

REQUIREMENT	BIDDER'S OFFER <i>(indicate full details of offered item)</i>
4.2.2.1	
4.2.2.2	
4.2.2.3	
4.2.2.4	
4.2.2.5	
4.2.2.6	
4.2.2.7	
4.2.3 Dustcoats	
4.2.3.1	
4.2.3.2	
4.2.3.3	
4.2.3.4	
4.2.3.5	
4.2.3.6	
4.2.3.7	
4.2.4 Raincoats	
4.2.4.1	
4.2.4.2	
4.2.4.3	
4.2.4.4	
4.2.4.5	
4.2.4.6	
4.2.4.7	
4.2.5 Acid Protective Overall	
4.2.5.1	
4.2.5.2	
4.2.5.3	
4.2.5.4	
4.2.5.5	
4.2.5.6	
4.2.5.7	
4.2.5.8	
4.2.5.9	
4.2.6 Pullover	
4.2.6.1	
4.2.6.2	
4.2.6.3	
4.2.6.4	
4.2.6.5	

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Doc. No.	KP1/3CB/TSP/01/003-3
Issue No.	1
Revision No.	0
Date of Issue	2012-12-17
Page 18 of 18	

REQUIREMENT	BIDDER'S OFFER <i>(indicate full details of offered item)</i>
4.2.6.6	
4.2.7 Windbreaker	
4.2.7.1	
4.2.7.2	
4.2.7.3	
4.2.7.4	
4.2.7.5	
4.2.7.6	
4.2.8 High Visibility Jacket	
4.2.8.1	
4.2.8.2	
4.2.8.3	
4.2.8.4	
4.2.8.5	
4.2.8.6	
4.2.8.7	
4.2.9 Protective Clothing for Cooks & Kitchen Attendants	
4.2.9.1	
4.2.9.2 Full Apron, PVC	
4.2.9.3 Full Apron, Poly-cotton	
4.2.9.4 Half Apron, Poly-cotton	
4.2.9.5 White Overalls	
4.2.9.5.1	
4.2.9.5.2	
4.2.9.5.3	
4.2.9.5.4	
5.0 Tests and Inspection	
5.1	
5.2	
5.3	
5.4	
6.0 Marking, Labelling and Packing	
6.1 to 6.5	

Note: - This schedule does not in any way substitute for detailed information required elsewhere in the specification.

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

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Kenya Power

TITLE:
**SPECIFICATION FOR
MEASURED UNIFORMS**

Doc. No.	KP1/3CB/TSP/01/004
Issue No.	1
Revision No.	0
Date of Issue	2012-12-27
Page 1 of 22	

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, drawings, technical data, copies of previous test reports, list of customers and reference letters from four previous customers for tender evaluation)*

ANNEX B: *Uniforms Designs for various items (to be provided by HR&A, Kenya Power, for every tender)*

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MEASURED UNIFORMS**

Doc. No.	KP1/3CB/TSP/01/004
Issue No.	1
Revision No.	0
Date of Issue	2012-12-27
Page 2 of 22	

0.1 Circulation List

NO.	COPY HOLDER
1	Research & Development Manager
2	Procurement Manager
3	Staff Benefits & Relations Manager
4	Safety, Health & Environment Manager
5	Kenya Electrical Trade & Allied Workers Union

Electronic copy (pdf) on Kenya Power 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)
Issue 1 Rev 0	2012-12-27	Cancels & replaces KPLC1/3CB/TSP/01/004 Issue 3 Rev 0 dated 2011-08-08 and previous issues	S. Kimiti 	G. Owuor

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Doc. No.	KP1/3CB/TSP/01/004
Issue No.	1
Revision No.	0
Date of Issue	2012-12-27
Page 3 of 22	

FOREWORD

This specification has been prepared by the Research and Development Department in collaboration with the Benefits & Staff Relations Department, Distribution Division and Safety, Health & Environment Department all of The Kenya Power and Lighting Company Ltd (Kenya Power) and The Kenya Electrical Trade & Allied Workers Union. The specification lays down requirements for Measured Uniforms. It is intended for use by Kenya Power in purchasing the items.

1. SCOPE

1.1 This specification is for Measured Uniforms for use by Company Employees.

1.2 The specification covers the following categories/items:

- Meter Reader's Set (Men, Ladies)
- Kaunda Suit ✓
- Driver's Set (Men, Ladies)
- Executive Driver's Set (Men, Ladies)
- Tea Lady's Set
- Artisan/Craftsman Set (Men, Ladies)
- Cook Uniform Set
- Waiter/Waitress' Uniform Set
- Receptionist Set
- Cashier Set
- Corporate Tie

Note: Corporate Shirt and Blouse are covered by a separate Specification KPLC1/3CB/TSP/01/001.

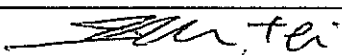
1.3 The specification stipulates the minimum requirements for Measured Uniforms acceptable for use in the company and it shall be the responsibility of the Supplier to ensure adequacy of the design, adherence to applicable standards and regulations, good workmanship and good practice in the manufacture of the products for The Kenya Power & Lighting Company Ltd.

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) shall apply.

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Doc. No.	KP1/3CB/TSP/01/004
Issue No.	1
Revision No.	0
Date of Issue	2012-12-27
Page 4 of 22	

- KS 541-1 Kenya Standard - Woven Fabrics for Uniforms - Specification: Part 1 – Cotton, Man made Fibres and Blends.
- KS 1469: Kenya Standard Specification for Work Wear and Career Wear.
- KS 08-687: Kenya Standard Specification for Men’s Uniform
Part 1 – Uniform Trousers.
Part 2 – Uniform Coats.
Part 3 – Uniform Shirts.

The standards listed above and quoted in this document are available at the Kenya Bureau of Standards or the relevant National Standards Authority of the country of manufacture.

3. TERMS AND DEFINITIONS

- 3.1 The definitions given in the reference standards for each item shall apply.
- 3.2 Kenya Power Logo – As per sample available with the company’s Human Resource & Administration (HR&A) Division.

4. REQUIREMENTS

4.1 Operating Conditions

The Uniforms shall be suitable for use outdoors in Tropical Climate in areas with temperatures between -1 to 45 °C.

4.2 General Requirements

(Applicable to all measured uniform items manufactured for The Kenya Power & lighting Company Ltd)

- 4.2.1 The uniforms (garments) shall be new and unused.
- 4.2.2 The items shall be manufactured from materials complying with Kenya Standard KS 541 or equivalent standard.
- 4.2.3 Uniform Trousers, Shirts and Coats shall be manufactured in accordance with the relevant part of KS 08-687. All the other items shall be manufactured in accordance with KS 1469.

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