



TITLE:
**SPECIFICATION FOR PERSONAL
PROTECTIVE EQUIPMENT (PPE)
FOR
MOTORCYCLE RIDERS**

Part 1: Divided suits – Jackets and
trousers

Doc. No.	KP1/6C.1/13/TSP/01/009-1
Issue No.	1
Revision No.	0
Date of Issue	2015-10-09
Page 1 of 19	

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 AND PACKING**
- 7. DOCUMENTATION**

ANNEX A: *Guaranteed Technical Particulars (to be filled and signed by the Manufacturer and submitted together with relevant copies of the Manufacturer's catalogues, brochures, drawings, technical data, sales records, four customer reference letters, the manufacturer's experience and copies of complete test reports for tender evaluation, all in English Language)*

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Issue No.	1
Revision No.	0
Date of Issue	2015-10-09
Page 2 of 19	

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Doc. No.	KP1/6C.1/13/TSP/01/009-1
Issue No.	1
Revision No.	0
Date of Issue	2015-10-09
Page 3 of 19	

FOREWORD

This specification has been prepared by the Standards Department in collaboration with Human Resource & Administration Department; Safety, Health & Environment Department of The Kenya Power and Lighting Company Limited (KPLC/Kenya Power) and The Kenya Electrical Trade & Allied Workers Union. The specification lays down requirements for personal protective equipment (PPE) – Divided suits – Jackets and trousers - for motorcycle riders. It is intended for use by Kenya Power in purchasing these items.

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

1. SCOPE

- 1.1. This document specifies the general requirements for professional motorcycle rider's jackets, trousers and one-piece or divided suits which are intended to protect the wearer against mechanical injury.
- 1.2. It also specifies the requirements for protection, ergonomic characteristics, innocuousness, mechanical properties, marking and information for users. It also describes the appropriate test methods.
- 1.3. The specification stipulates the minimum requirements for personal protective equipment (PPE) for motorcycle riders in the company and it shall be the responsibility of the supplier to ensure adequacy of the design, good engineering practice, adherence to the specification and applicable standards and regulations as well as ensuring good workmanship in the manufacture of the items for The Kenya Power & Lighting Company.
- 1.4. 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.

ISO 4045: Leather – Chemical tests – Determination of pH

ISO 11642: Leather tests – Colour fastness – Colour fastness to water

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Doc. No.	KP1/6C.1/13/TSP/01/009-1
Issue No.	1
Revision No.	0
Date of Issue	2015-10-09
Page 4 of 19	

- ISO 4674: Fabrics coated with rubber or plastics Determination of tear resistance.
- ISO 105: Textiles Tests for colour fastness.
- ISO 3377: Leather determination of tearing load.
- ISO 3635: Size designation of clothes - Definitions and body measurement procedure.
- EN 13595: Protective clothing for professional motorcycle riders. Jackets, trousers and one piece or divided suits –Part 1: General requirements –Part 2: Test method for determination of impact abrasion resistance. — Part 3: Test method for determination of burst strength –.Part 4: Test methods for the determination of impact cut resistance.
- EN 1621: Motorcyclists' protective clothing against mechanical impact Part 1: Requirements and test methods for impact protectors.
- BS EN 340: Protective clothing —General requirements

3. TERMS AND DEFINITIONS

For the purpose of this specification, the definitions given in the reference standards shall apply

4. REQUIREMENTS

4.1. Service Conditions

The personal protective equipment (PPE) for motorcycle riders shall be suitable for use outdoors in tropical climate with 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. General

- 4.2.1.1. The performance level marked on the garment and in the manufacturer's information to the user shall be Level 1 (clothing designed to give some protection whilst having the lowest possible weight and ergonomic penalties associated with its use) as per EN 13595-1 and shall be determined by the lowest performance level achieved in testing according to clauses 4.2.4, 4.2.5 and 4.2.6.

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Issue No.	1
Revision No.	0
Date of Issue	2015-10-09
Page 5 of 19	

- 4.2.1.2. Clothing which includes cleaning instructions shall conform to the requirements specified in 4.2.2, 4.2.4, 4.2.5 and 4.2.6 after at least five recommended cleaning cycles recommended by manufacturers.

NOTE: It is not necessary to carry out repeat testing after cleaning for garments where only trivial surface cleaning treatments which are considered not to affect the performance of the garment are recommended, for example wiping with a damp sponge.

- 4.2.1.3. The change in linear dimensions of the clothing material shall not exceed $\pm 3\%$ when cleaned five times and tested in accordance with EN 340.

4.2.2. Tear strength

- 4.2.2.1. When tested in accordance with ISO 3377: 1975, the minimum tear strength of leather shall be 100 N.
- 4.2.2.2. When tested in accordance with ISO 4674:1977, the minimum tear strength of non-leather materials, excluding elasticated and knitted fabrics, shall be 70 N.
- 4.2.2.3. Where several separate layers are present, these requirements shall apply to the strongest layer.

4.2.3. Impact energy absorption

Protectors (arrangement of energy absorbing and/or impact spreading materials designed to offer some protection to the impact areas) shall be present in zone 1 of Fig. 1. The location and fixation of these protectors shall meet the requirements of clause 7.2 of EN 13595-1:2008 when assessed using the method described in annex B, B.3.4 of EN 13595-1:2008.

4.2.4. Abrasion resistance

- 4.2.4.1. When tested in accordance with the method described in EN 13595-2, the abrasion resistance of the full thickness of the clothing in the various zones shall meet the minimum requirements given in Table 1 for the appropriate performance level.

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Table 1 - Minimum requirements for abrasion resistance

Zones	Abrasion resistance requirements	
	Level 1	Level 2
1 and 2	4.0	7.0
3	1.8	2.5
4	1.0	1.5

4.2.4.2. The removable protector shall be put outside the pocket as per EN 13595-1.

4.2.5. Impact cut resistance

4.2.5.1. When tested in accordance with the method described in EN 13595-4, the impact cut resistance of the full thickness of the clothing in the various zones shall meet the minimum requirements given in Table 2 for the appropriate performance level.

Table 2 - Minimum requirements for impact cut resistance

Zone	1 & 2	3	4
Impact speed of knife [m/s]	2.8	2.0	2.0
Maximum knife penetration [mm]; Level 1	25	30	35
Maximum knife penetration [mm]; Level 2	15	25	30

4.2.6. Burst strength

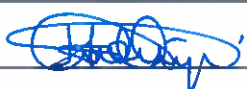

When tested in accordance with the method described in EN 13595-3, the seams, slide fasteners and materials in the various zones shall meet the minimum burst strength requirements given in Table 3 for the appropriate performance level.

Table 3 - Minimum burst strength requirements

Zone	2 & 1	3	4	Linings
Requirement [kPa]; Level 1	700	500	400	200
Requirement [kPa]; Level 2	800	600	450	200

4.2.7. Dye fastness

Clothing shall not be manufactured from material containing dyes which will readily migrate when the clothing becomes wet with water. When tested in accordance with ISO 11642:

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Date: 2015-10-09	Date: 2015-10-09



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Doc. No.	KP1/6C.1/13/TSP/01/009-1
Issue No.	1
Revision No.	0
Date of Issue	2015-10-09
Page 7 of 19	

1993 or ISO 105 the change in colour of any component of the multi-fibre reference fabric shall be not worse than Grey Scale rating 3.

4.2.8. pH of leather

When tested in accordance with ISO 4045:1977, leather and/or leather fabric material shall have a pH of between 3.5 and 9.5 and if the pH is less than 4 the difference figure shall be less than 0.7.

4.3. Fit ergonomics

Clothing shall be sized in accordance with EN 340 or shall be made-to-measure. When tested in accordance with the method described in annex A, the assessor shall be able to carry out all the defined critical movements while wearing the test garment and all responses given by the assessor to the questions detailed in Table A.1 of EN 13595-1:2008 shall be positive.

4.4. Restraint

When tested in accordance with the methods described in annex B of EN 13595-1:2008, the clothing shall meet the following requirements, as appropriate.

4.4.1. Clothing restraint

- 4.4.1.1. All restraint systems (belts, velcro, etc.) shall be correctly closed before clothing restraint is tested.
- 4.4.1.2. The divided suits shall be joined at the waist with a slide fastener with no more than a 200 mm gap horizontally between the ends of the fastener on the abdomen. The jacket and trousers shall remain joined when the test force is applied.
- 4.4.1.3. Divided suits shall have a long jacket and a high trouser (including salopettes) that are joined or restrained so that no gap opens vertically between the two parts of the suit when the test force is applied
- 4.4.1.4. Arm sleeves shall not slide up the test cone more than 60 mm when the test force is applied. Ready-made garments shall have available adjustment to fit wrists 10 mm smaller and 10 mm greater in circumference than the test cone.
- 4.4.1.5. Trouser ankles shall not slide up the test cone more than 100 mm when the test load is applied not on the ankle but on the knees. Ready-made garments shall have

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Doc. No.	KP1/6C.1/13/TSP/01/009-1
Issue No.	1
Revision No.	0
Date of Issue	2015-10-09
Page 8 of 19	

available adjustment to fit ankles 10 mm smaller and 10 mm greater in circumference than the test cone for pants that are worn inside or outside the motorcycle boots. This test should be performed at least on one size for each different model.

4.4.2. Impact protector restraint

When tested according to B.3.4 of EN 13595-1:2008, the restraint shall not be displaced by more than 20 %.

4.5. Design and zoning

When examined in accordance with the method described in annex C of EN 13595-1:2008, the clothing shall meet the following design criteria:

- a) Protectors to provide shock absorption conforming to EN 1621-1 shall be present in zone 1.
- b) All stitched structural seams in zones 1, 2 and 3 shall have at least one row of stitches that is protected by at least a layer of basic material. This can be checked by cutting across the seams as necessary, other seams shall meet the impact abrasion test requirement in clause 4.2.4.
- c) Slide fasteners, if present, shall be mounted below the outer surface of the garment and shall have a layer of leather or fabric behind them. Where assembly samples have been submitted for testing, these shall be identical to the construction found in the garment.
- d) The lining shall not be attached to, but shall slide freely against the outer shell of the clothing in zones 1 and 2.
- e) The total area of materials and constructions present in zone 3 to provide elasticity or ventilation but which only meet zone 4 requirements shall not exceed 30 cm² in any single area and 50 cm² total area in a jacket or trousers or 100 cm² total area in a suit.
- f) The length of free ends of projections on the outer surface of the clothing shall be less than 50 mm.

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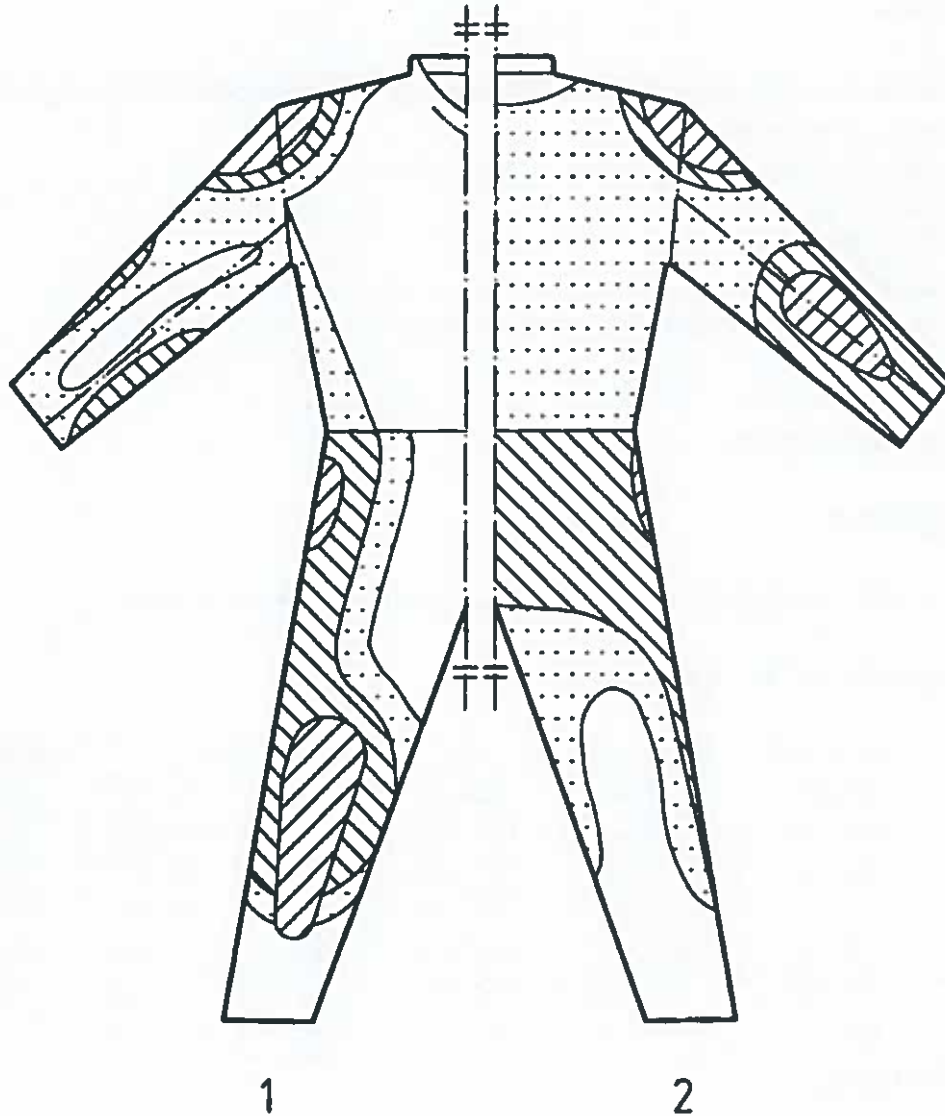
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Date: 2015-10-09

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Doc. No.	KP1/6C.1/13/TSP/01/009-1
Issue No.	1
Revision No.	0
Date of Issue	2015-10-09
Page 9 of 19	



Key

1 Front
2 Back

-  Zone 1
-  Zone 2
-  Zone 3
-  Zone 4

Fig. 1: Diagram of zone positions on a suit. Drawn from a suit laid out flat, slightly simplified

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Date: 2015-10-09

4.6. Size designation

4.6.1. Each garment shall comprise of control dimensions determining the size designation as per ISO 3635 comprising of:

- a) Garments covering the upper body –jacket only:
 - (i) Chest girth
 - (ii) Waist girth
 - (iii) Height
- b) Garment covering the lower body only – trouser
 - (i) Waist girth
 - (ii) Hip girth
 - (iii) Inside leg length.

4.6.2. Sizes for jackets

The sizes shall range from small to 4X-large as per Table 4a & b below:

Table 4a: Size designation of Men's divided suit

Size designation	Chest girth	Waist girth	Hip	Inseam	Height	Inside leg
S	95-99	79-83	95-99	81	174-177	105 - 106
M	101-105	85-89	101-105	86	177-180	107 - 108
L	107-111	91-95	107-111	87	180-183	109 - 110
XL	113-117	97-101	113-117	91	183-186	111 - 112
XXL	119-123	103-107	119-123	92	186-189	113 - 114
XXXL	125-129	109-113	125-129	96	189-192	115 - 116
XXXXL	131-135	115-119	131-135	96	192-195	117 - 118
All dimensions in centimetres, cm						

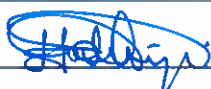
Table 4b: Size designation of Women's divided suit

Size designation	Bust girth	Waist girth	Hip	Inseam	Height	Inside leg
S	89-93	69-73	93-97	79	166-169	105 - 106
M	95-99	75-79	99-103	81	169-172	107 - 108
L	101-105	81-85	105-109	83	172-175	109 - 110
XL	107-111	87-91	111-115	85	175-178	111 - 112
XXL	113-117	93-97	117-121	85	178-181	113 - 114
All dimensions in centimetres, cm						

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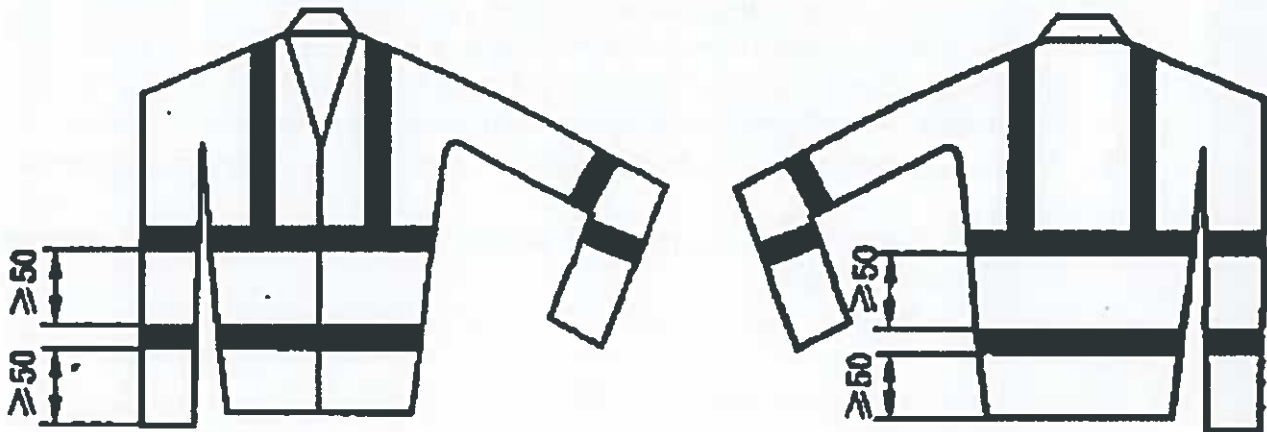


Date: 2015-10-09

Date: 2015-10-09

4.7. High visibility finish

- 4.7.1. The finished garment shall have a class 3 degree of visibility with retro-reflective stripes on the arms and legs that return light in the direction of a light's originating source as per Fig. 2a, b & c according to ISO 20471:2013.
- 4.7.2. There shall be a distinctive configuration of the stripes to ensure that sections of the striping will be visible from all angles around the body (360° visibility) at all times. While there will be no requirement for additional fluorescent background material, it would provide greater visibility in daylight and reduced light conditions.
- 4.7.3. The area of background or retro-reflective material that is covered by badges logos; lettering etc. shall be excluded from the calculation of the required minimum area.
- 4.7.4. The high visibility colours shall be yellow, orange and red and shall pass the high demands of the ISO 20471 standard. The contrast colour may be any colour as long as it passes the ISO 20471 test and is not bleeding or decreases the protection of the fabric after wash.
- 4.7.5. A Class 3 shall incorporate a minimum of 0.80m² of background material and 0.20m² of retro-reflective materials. (4m of 5cm wide reflective tape) as per ISO 20471.



Front

Back

Fig. 2a - Class 3 – Jackets with retro-reflective bands/stripes

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Date: 2015-10-09

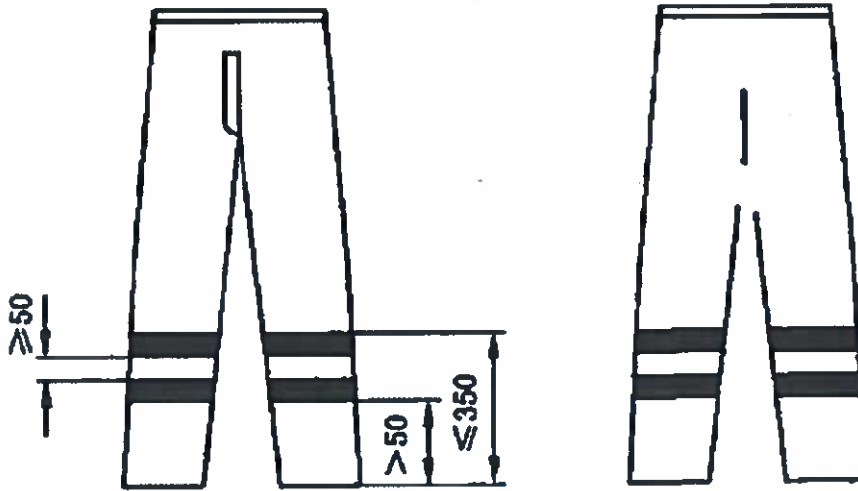


Fig. 2b - Class 3 – Trousers with retro-reflective bands/stripes

4.8. Customization

4.8.1. The motor riding suit shall have a **Pantone Blue 654PC** colour with 'Kenya Power' letters embroidered in reflective yellow colour centered at the back (as per approved sample). The graphic design shall be as follows:

- a) Back graphics placed 25mm above reflective strip shall have:
 - (i) The full Kenya Power logo measuring 65mm x 65mm ± 5 mm;
 - (ii) **KENYA**– 60mm high x 250mm wide with a tolerance of ± 5 mm;
 - (iii) **POWER** – 60mm high x 250mm wide with a tolerance of ± 5 mm.
- b) Front graphics placed on the front left chest, 12mm from front placket seam shall have:
 - (i) The full Kenya Power logo measuring 65mm x 65mm ± 5 mm at the left chest area above the pocket.
 - (ii) **KENYA POWER** – 65mm wide x 10mm high with a tolerance of ± 5 mm.

4.8.2. Artwork of the logo shall be attached in the tender. All motor riding suit must have the proper graphics applied via heat seal not a silk-screen. The colour shall be high visibility blue.

4.8.3. Labels

All labels shall be permanent to withstand repeated cleanings for the life of the garment. The following labels shall be applied:

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Doc. No.	KP1/6C.1/13/TSP/01/009-1
Issue No.	1
Revision No.	0
Date of Issue	2015-10-09
Page 13 of 19	

- a) **Main label**- This shall identify the manufacturer either by name, location and registered trademark.
- b) **Contents/care/size label** - There shall be an additional label clearly showing the fabric contents, laundering instructions and garment size.

4.9. QUALITY MANAGEMENT SYSTEM

- 4.9.1. The supplier shall submit a quality assurance plan (QAP) that will be used to ensure that the requirements for protection, ergonomic characteristics, innocuousness, mechanical properties, marking of the protective jackets, trousers and one piece or divided suits for motorcycle riders, will fulfill the requirements stated in the contract documents, standards, specifications and regulations.
- 4.9.2. The Manufacturer's Declaration of Conformity to applicable standards and copies of quality management certifications shall be submitted with the tender for evaluation.
- 4.9.3. The bidder shall indicate the delivery time of the items, manufacturer's monthly & annual production capacity and experience in the production of the type and size of items being offered. A detailed list & contact addresses (including e-mail) of the manufacturer's previous customers for similar type of the protective jackets, trousers and one piece or divided suits for motorcycle riders sold in the last five years as well as reference letters from at least four of the customers shall be submitted with the tender for evaluation.

5. TESTS AND INSPECTION

- 5.1. The protective jackets, trousers and one piece or divided suits for motorcycle riders shall be inspected and tested in accordance with EN 13595-1, 2, 3& 4, EN 1621, ISO 105, ISO 4649, ISO 11646, ISO 4045, BS EN 340 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 confirming conformity to clause 4 for the divided suits – jackets and trousers for motorcycle riders issued by a third party testing laboratory that is accredited to ISO/IEC 17025** shall be submitted with the tender for the purpose of technical evaluation. The accreditation certificate for the third party testing laboratory shall also be submitted with the tender (all in English Language).
- 5.3. Test Reports for the protective divided suits – jackets and trousers for motorcycle riders to be supplied under the contract shall be submitted to The Kenya Power & Lighting Company for approval before shipment/delivery.

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Doc. No.	KP1/6C.1/13/TSP/01/009-1
Issue No.	1
Revision No.	0
Date of Issue	2015-10-09
Page 14 of 19	

- 5.4. The protective divided suits – jackets and trousers for motorcycle riders shall be subject to acceptance tests at the manufactures' works before dispatch. Acceptance tests (routine & sample tests) will be witnessed by at least two (2) Tender Processing Committee (TPC) members appointed by The Kenya Power and Lighting Company Limited (KPLC). Routine and sample test reports for the protective divided suits – jackets and trousers for motorcycle riders to be supplied shall be submitted to KPLC for approval before shipment of the goods
- 5.5. On receipt of the protective divided suits – jackets and trousers for motorcycle riders, 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, protective jackets, trousers and one piece or divided suits for motorcycle riders which upon examination, test or use fail to meet any of the requirements in the specification


6. MARKING AND PACKING

6.1. Marking

- 6.1.1. Each protective divided suit – jackets and trousers for motorcycle riders shall be marked with the following information in English Language, which shall be permanently, attached to the garment and remain perfectly legible.
- 6.1.2. The user information shall include cleaning instructions and the labeling shall be visually examined after it has been cleaned five times using the cleaning treatment recommended in those instructions. The labeling shall still be perfectly legible after these cleaning treatments.
- (i) A means of identifying either the manufacturer or his authorized representative within the EC, for example trade mark.
 - (ii) The product's commercial name, style code or other means of identification.
 - (iii) The size designation.
 - (iv) A brief description of the level of protection offered.
 - (v) A warning that no item of clothing can offer full protection.
 - (vi) Care instructions (care label symbols including negative symbols where appropriate).
 - (vii) The number of this standard of manufacture i.e., EN 13595-1.

6.2. Packing

- 6.2.1. The packaging which immediately contains the clothing shall be marked with the information specified in 6.1.2 (i), (ii), (iii) and (iv), and shall indicate where the wearer information and instructions for use can be found.

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Doc. No.	KP1/6C.1/13/TSP/01/009-1
Issue No.	1
Revision No.	0
Date of Issue	2015-10-09
Page 15 of 19	

6.2.2. The motorcycle protective divided suits – jackets and trousers shall be packed in a clean, sound and dry containers made of a material, which does not affect the product it protects from excessive loss of moisture and contamination.

7. DOCUMENTATION

- 7.1. The bidder shall submit its tender complete with technical documents required by Annex A (Guaranteed Technical Particulars) for tender evaluation. The technical documents to be submitted (all in English language) for tender evaluation shall include the following:
- a) Guaranteed Technical Particulars signed by the manufacturer;
 - b) Copies of the Manufacturer's catalogues, brochures, drawings and technical data;
 - c) Sales records for the last five years and at least four customer reference letters;
 - d) Details of the manufacturer's experience;
 - e) Copies of required test reports by a third party testing laboratory accredited to ISO/IEC 17025 and a copy of accreditation certificate to ISO/IEC 17025 for the third party testing laboratory;
 - f) Manufacturers letter of authorization, QMS certificate and other technical documents required in the tender.
 - g) Packaging details (including packaging materials).
- 7.2. The successful bidder (supplier) shall submit the following documents/details to The Kenya Power & Lighting Company for approval before manufacture:
- a) Guaranteed Technical Particulars signed by the manufacturer;
 - b) Design Drawings with details of the motorcycle protective divided suits – jackets and trousers to be manufactured for KPLC.
 - c) Quality assurance plan (QAP) that will be used to ensure that the design, material; workmanship, tests, service capability, maintenance and documentation will fulfil the requirements stated in the contract documents, standards, specifications and regulations. The QAP shall be based on and include relevant parts to fulfil the requirements of ISO 9001:2008
 - d) Detailed test program to be used during factory testing;
 - e) Marking details and method to be used in marking the motorcycle protective divided suits – jackets and trousers;
 - f) Manufacturer's undertaking to ensure adequacy of the design, good engineering practice, adherence to the specification and applicable standards and regulations as well as ensuring good workmanship in the manufacture of the motorcycle protective divided suits – jackets and trousers for The Kenya Power & Lighting Company;
 - g) Packaging details (including packaging materials).
- 7.3. The protective divided suits – jackets and trousers for motorcycle riders for motorcycling shall be supplied with information and instructions for use. Instructions shall be precise,

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Doc. No.	KP1/6C.1/13/TSP/01/009-1
Issue No.	1
Revision No.	0
Date of Issue	2015-10-09
Page 16 of 19	

comprehensible and in English language to KPLC store. They shall contain at least the following information:

- (i) The information required in Clause 7;
- (ii) The full address of the manufacturer or his authorized representative;
- (iii) A statement of the intended use of the protective divided suits – jackets and trousers for motorcycle riders;
- (iv) An explanation of the protection provided under this European Standard and details of the extent of
- (v) Protective material and zones of specific impact protection provided;
- (vi) Advice about wearing other PPE to obtain the protection desired, for example, shin protection can be provided by impact protectors fitted into trousers;
- (vii) A warning about the limits of protection provided by the protective divided suits – jackets and trousers for motorcycle rider;
- (viii) A warning about any environmental conditions or misuse that would seriously reduce the protection provided;
- (ix) Instructions on how to clean and care for the protective divided suits – jackets and trousers for motorcycle riders;
- (x) Instructions on how to examine the protective divided suits – jackets and trousers for motorcycle riders for signs of wear and degradation;
- (xi) The suggested lifetime of the protective divided suits – jackets and trousers for motorcycle riders; instructions on actions to be taken when wear or damage is apparent to identify jackets, trousers and one piece or divided suits which are no longer suitable to use;
- (xii) The significance of any markings on the protective divided suits – jackets and trousers for motorcycle riders such as the pictograms and any special marking codes - see Figure 7 of BS EN13634:2010 ;
- (xiii) An explanation of the performance levels detailed in EN 13634:2010 – This shall consist of either the wording given below or a similar suitable alternative “European standard EN 13634:2010 includes two performance levels in terms of the protection afforded. The degree of risk or hazard that a motorcyclist will face is closely linked to the type of riding and the nature of the accident. Within standard EN 13634:2010 ‘Level 1’ performance is deemed as the minimum level required in order for the protective divided suits – jackets and trousers for motorcycle riders to provide useful protection in an accident, and offers protective divided suits – jackets and trousers for motorcycle riders with an optimum comfort level to suit all riding types. Where riders feel that their riding style or sport exposes them to an increased accident risk ‘Level 2’ has been provided which offers increased performance – however it is likely that this additional level of protection has an increased penalty for the weight and comfort, so may not be acceptable to all riders”.

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**TITLE:
SPECIFICATION FOR PERSONAL
PROTECTIVE EQUIPMENT (PPE)
FOR
MOTORCYCLE RIDERS**

Part 1: Divided suits – Jackets and trousers

Doc. No.	KP1/6C.1/13/TSP/01/009-1
Issue No.	1
Revision No.	0
Date of Issue	2015-10-09
Page 17 of 19	

ANNEX A: Guaranteed Technical Particulars (to be filled and signed by the Manufacturer and submitted together with relevant copies of the Manufacturer's catalogues, brochures, drawings, technical data, sales records, four customer reference letters, the manufacturer's experience and copies of complete type test reports for tender evaluation, all in English Language)

Tender No.

Clause number	KPLC requirement		Bidder's offer (indicate full details of the offered for the item)
Manufacturer's Name and address			specify
Country of Manufacture			specify
Model or type designation as per the catalogue			
1.	Scope		specify
1.1-1.3			
2.	Applicable Standards		specify
3.	Terms & Definitions		specify
4.	REQUIREMENTS		specify
4.1	Service Conditions		specify
4.2	Design & Construction		specify
4.2.1	General requirements		
4.2.1.1	Lowest performance level	As per EN 13595-1:2008 clauses 4.2.4, 4.2.5 and 4.2.6	specify
4.2.1.2	Cleaning instructions		specify
4.2.1.3	Change in linear dimension	shall not exceed $\pm 3\%$	Specify and Attach test report
4.2.2	Tear strength		
4.2.2.1	Minimum tear strength of leather	shall be 100 N as per ISO 3377: 1975	Specify and Attach test report
4.2.2.2	the minimum tear strength of non-leather materials, excluding elasticized and knitted fabrics	shall be 70 N as per ISO 4674:1977	Specify and Attach test report
4.2.3	Impact energy absorption	Tested as per annex B, B.3.4 of EN 13595-1:2008	Specify and Attach test report
4.2.4	Abrasion resistance		
4.2.4.1	Minimum requirements for abrasion resistance	As per table 1	Specify and Attach test report
4.2.4.2	The removable protector	Shall be put outside the pocket	specify
4.2.5	Impact cut resistance		

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Issue No.	1
Revision No.	0
Date of Issue	2015-10-09
Page 18 of 19	

Clause number	KPLC requirement	Bidder's offer (indicate full details of the offered for the item)
4.2.5.1	Minimum requirements for impact cut resistance	As per table 2 Specify and Attach test report
4.2.6	Minimum burst strength requirements	As per table 3 Specify and Attach test report
4.2.7	Dye fastness	Shall be not worse than Grey Scale rating 3 specify
4.2.8	pH of leather	Shall have a pH of between 3.5 and 9.5 Specify and Attach test report
4.3	Fit ergonomics	Sized in accordance with EN 340 Specify and Attach test report
4.4	Restraint	
4.4.1	Clothing restraint	
4.4.1.1- 4.4.1.5		Attach test report
4.4.2	Impact protector restraint	Shall not be displaced by more than 20 %. specify
4.5	Design and zoning	As per annex C of EN 13595-1:2008 and fig 1 Attach test report
4.6	Size designation	As per ISO 3635 Jackets Specify
		Trousers Specify
		Sizes as per Table 4a &b Jackets specify
		Trousers specify
4.7	High visibility finish	
4.7.1	Class of protection	Class 3 as per ISO 20471
4.7.2	Configuration of stripes	As per fig. 2a, b & c
4.7.3	Visibility colours	Either yellow, orange or red
4.7.4	Minimum area of visibility	0.8m ² for background material or 2m ² for retro-reflective material Attach test report
4.8	Customization	Colour of the motor-cycle riding suit
		Back graphic
		Front graphic
		Main labels
		Contents, care, sizes
4.5	Quality Management System	Provide
	Quality Assurance Plan	Provide
	Copy of ISO 9001:2008 Certificate	Provide

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Date of Issue	2015-10-09
Page 19 of 19	

Clause number	KPLC requirement	Bidder's offer (indicate full details of the offered for the item)
	Manufacturer's experience	Provide
	Manufacturing Capacity (units per month)	Provide
	List of previous customers	Provide
	Customer reference letters	Provide
5.1	Test standards and responsibility of carrying out tests	Provide
5.2	Copies of Type Test Reports submitted with tender	Provide
5.3	Acceptance tests to be witnessed by KPLC at factory before shipment	Provide
5.4	Test reports to be submitted by supplier to KPLC for approval before shipment	Provide
5.5	Replacement of rejected divided suits-jackets and trousers	Provide
6.1	Markings	Provide
6.2	Packing	Provide
7.1	Documents submitted with tender	Provide
7.2	Documents to be submitted by supplier to KPLC for approval before manufacture	Provide
7.3	Instruction manual details	Provide
8.0	Statement of compliance to specification	Provide

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

NOTE:

*The **Guaranteed Technical Particulars (GTP)** shall form the basis of technical tender evaluation. Bidders shall ensure that the offered values for the item conform to the values in the test reports and their certificates, catalogue references and/or brochures. Failure to adhere by this requirement shall lead to automatic disqualification at the technical evaluation stage.*

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