



REQUEST FOR FORMAL WRITTEN PRICE QUOTATION FORM

Procurement from R30 000, 00 up to a transaction value of R200 000, 00 (including Vat). (For publication on Lesedi Local Municipality Website and Notice Board)

SUPPLY, DELIVER AND OFF-LOADING OF FLAME RESISTANT WORKWEAR SUITS

DATE OF ADVERTISEMENT	23 March 2018
DATE OF CLOSING	03 April 2018 @12h00
DETAILS OF BIDDER	
FULL NAME	
ADDRESS OF BIDDER	
ID NUMBER (SOLE PROPRIETOR) COMPANY OR CC NUMBER	
REGISTRATION NUMBER (PTY) LTD	
TAX REFERENCE NUMBER	
VAT REGISTRATION NUMBER (IF ANY)	
CONTACT PERSON	
ALTERNATIVE CONTACT PERSON	
TELEPHONE NUMBER	
CELL PHONE NUMBER	
FAX NUMBER	
CIDB NUMBER (IF ANY)	

Must be completed in full

QUOTATIONS MUST BE SUBMITTED IN SEALED ENVELOPES CLEARLY MARKED “**SUPPLY, DELIVER AND OFF-LOADING OF FLAME RESISTANT WORKWEAR SUITS AND SAFETY BOOTS**” TO THE QUOTATION BOX SITUATED AT: SUPPLY CHAIN OFFICE (LESEDI OFFICES)
C/O LOUW AND HF VERWOERD STREET
HEIDELBERG
1441

ALL ENQUIRIES SHOULD BE REFERRED TO MANELLA NCHECHE @ 016 492 0250 OR MS SIBULELO NXATHI@ 016 492 0202 WITH REGARDS TO THE BIDDING PROCEDURE.

DEPARTMENT: INFRASTRUCTURE SERVICES

The following information must be submitted with the quotation, failure in submitting these documents will result in a quotation being disqualified:

- Original tax clearance certificate/Tax Pin from SARS
- MBD Forms
- Latest Municipal Account
- CSD Registration

Bidders who did not submit an original or certified copy of their BBEE Certificate will not be allocated preference points and will only be evaluated on price.

Evaluation Criteria: 80/20 Preference point system as presented in the Preferential Procurement Policy Framework Act no 5 of 2000, for this purpose MBD 2, MBD 4, MBD 6.1 MBD 8, MBD 9 and the Clearance certificate for water & lights can be downloaded on our website on the following link: www.lesedilm.gov.za/key/scm. MBD forms should be scrutinized, completed and submitted together with your quotation. All objections and complaints must be lodged within 14 days and in writing to the municipal's manager's office.

All bidders must ensure that they are registered on the National Treasury Central Supplier Database via the following link: business.support@csd.gov.za. No business will be conducted with any person who is not registered on this database.

BIDDERS ARE WELCOMED TO ATTEND THE OPENING

ANNEXURE A: SCOPE OF SERVICES

THE SUPPLY, DELIVERY AND OFF-LOADING OF THE FLAME RESISTANCE NAVY BLUE WORKWEAR SUITS FOR THE ELECTRICITY DEPARTMENT IN LESEDI LOCAL MUNICIPALITY.

1. Background

Electrical faults may occur due to failed insulation, accidental contact with live systems, circuit breaker failure, and human error and by energizing systems of faulty circuits. Electrical faults could result in an internal electric arc exposing authorized persons to extreme arc temperatures, forces and may result in molten projectiles and shock waves. Electrical faults cannot be ruled out during switching or maintenance operations and it is therefore essential that authorized persons be trained and supplied with personal protective equipment and clothing for protection against possible thermal hazards of an electric arc.

2. Scope

This contract calls for the supply, delivery and off-loading, of the Flame Resistance Navy Blue Work wear suits and safety boots for Lesedi Local Municipality.

Purpose

The purpose of this document is to prescribe the bid specification requirements for all personal protective clothing used within LLM: Electricity Department.

It is also a requirement that the successful bidder/s will be requested to provide a complete set of clothing (including embroidering) and safety boots for approval and only on approval, be requested to supply the approved products as and when required.

3. Normative references

The following legal requirements and standards contain provisions that, through reference in the text, constitute requirements of this specification. At the time of publication the editions indicated were valid. All standards are subject to revision and all bidders bidding on this specification are requested to investigate the possibility of revisions to the documents in order to ensure that they comply too the most recent editions of the documents listed below. Information on currently valid national and international and CKS documents may be obtained from Standards South Africa.

Occupational health and Safety Act, Act No. 85 of 1993 (OHS Act)

ASTM F 2178-02 Standard test method for determining the arc rating of face protective products

ASTM F1959-06 'Standard Test Method for Determining the Arc Rating of Materials for Clothing'

ASTM F1506 – 02 'Standard Performance Specification for textile material for wearing apparel for use by electrical workers exposed to momentary electric arc and related thermal hazards'

IEC 61482-1 Live working – Flame-resistant materials for clothing for thermal protection of workers – Thermal hazards of an electric arc – Part One: Test methods

IEEE 1584 – 2002 IEEE Guide for calculating Arc-Flash hazard calculations

NFPA 70E – 2004 Standard for Electrical Safety Requirements for Employee Workplaces

EN 345 – 2 'Safety Footwear Requirements'

SANS 1309 'Printed labels for textiles'

SABS 0101: 1068, Standard nomenclature for stitches, seams and stitching

NFPA 70E Standard for Electrical safety Requirements for Employee Workplaces

SABS 1362: 1982, (1995) Sewing threads

SABS 1365: 1995, Solvent degreasers that contain chlorinated hydrocarbons

SABS 1387-6: 1993, Woven cotton and similar apparel fabrics. Part 6 denim fabrics

ASTM F 2178-02 Standard test method for determining the arc rating of face protective products

SANS 5323 'Breaking strength of seams in textiles'

SANS 6130 'Dimensional changes and skewness of textile fabrics on exposure to heat

SANS 10011 'Care-labelling of textiles and clothing'

IEC 61482-1-1 Live working – protective clothing against the thermal hazards of an electric arc' – Part One: test methods – Method 1 – Determination of the arc rating (ATPV) or Ebt) of flame resistant materials for clothing

SANS 724: 2008, Edition 1.0, Personal Protective Equipment – Protective Clothing against the thermal hazards of an Electric Arc (Only to be used in conjunction with IEC 61482-1-1, NFPA 70E & IEEE 1584

NFPA 70E – 2004, Standard for Electrical Safety Requirements for Employee Workplaces

4. Definitions and abbreviations

4.1 Definitions

4.1.1 Approved: Means approved by the Senior Manager: Electricity or his/her authorized representative.

4.1.2 Colour: Navy blue

4.1.3 Networks: The high, medium and low voltage distribution networks.

4.1.4 Risk assessment: An assessment of the probability that injury or damage may occur.

4.1.5 Acceptable: Acceptable to the authority administering this standard or to the parties concluding the purchase contract as relevant.

4.1.6 Protective clothing and personal protective equipment: all items including head, face, neck and chin protection, eye protection, hearing protection, body protection, hand and arm protection, foot and leg protection intended to protect a person against the thermal hazards of an electric arc.

4.2 Abbreviations

i.**OHS Act:** The Occupational Health and Safety Act, Act 85 of 1993.

ii.**PPE:** Personal Protective Equipment.

- iii. **ATPV:** Arc Thermal Performance Value
- iv. **FR:** Fire resistant
- v. **NFPA:** National Fire Protection Association
- vi. **SANS:** South African National Standards

5.6 Design requirements for garments

- 5.6.1 Garments shall comply with the requirements of Clause 7.
- 5.6.2 The garment shall be designed in a way, that it does not influence or hinder the wearer performing work.
- 5.6.3 Garments protecting the upper part of the body shall have long sleeves.
- 5.6.4 Fasteners of the garment shall be designed in a way that opening function is still present and operational after being exposed to an electrical arc.
- 5.6.5 Thread, fasteners, findings, embroidering and closures used in garment construction shall not contribute to the severity of the injuries to the wearer in the event of an electric arc.
- 5.6.6 No exposed external metal shall be permitted in the clothing. If internal metal and/or melting parts (e.g. fasteners, buttons, and accessories) are used they shall be covered to the inside to avoid skin contact.
- 5.6.7 Sewing thread utilized in the construction of garments shall be made of an inherently flame resistant fibre and shall not melt when tested at a temperature of 260 °C.
- 5.6.8 Non-melting underwear (e.g. cotton, silk, rayon and wool) or other thermal protective clothing shall be worn underneath the tested garment.
- 5.6.9 The ATPV of a garment system is determined by the lowest ATPV of any single or multi-layered component or components.
(Example: A garment system consisting of a 20 cal/cm² hood, 40 cal/cm² jacket and 25 cal/cm² trousers shall have an ATPV of 20cal/cm²).
- 5.6.10 Any single garment item shall be constructed from the same ATPV fabric.
(Example: The sleeves, front, back and collar of a jacket shall be manufactured from a fabric with the same ATPV).
- 5.6.11 It is a requirement that the garment shall withstand at least 150 washing and drying cycles without influencing the original specified arc rating. The manufacturer shall specify the minimum number of washes and drying cycles for which the arc performance of the garment will adhere to the requirements of this specification. The LLM laundering cycles will not be in keeping with the requirements of the care labelling and special washing instructions from the manufacturer as each person issued with such clothing will be responsible for the care taking of the garment. It is therefore important that the original arc rating cannot be washed away by any laundering method for the required minimum of 150 washes.

The supplier must provide confirmation in writing that the garment will be able to be subjected to a minimum of 150 uncontrolled washes without reducing the original arc rating of the garment, failing which the bid will not be considered for this item.

5.6.12 All garments exposed to an electric arc flash shall be withdrawn from service.

5.7 Sizes range of protective clothing

The range of protective clothing shall be sized in accordance with the requirements of SANS 434.

6. Marking and care – labelling

6.1 Protective clothing

6.1.1 All labels shall be permanently secured such that they outlast the garment (including the markings).

6.1.2 Markings shall comply with SANS 1309 and SANS 10011. Information shall be in legible and indelible block letters of height at least 3 mm.

6.1.3 The following information shall be included as a minimum on the label secured on the top, inside, centre back:

- Manufacturer's name or trade mark
- Year of manufacture
- Size designation
- ATPV value
- Care labelling instructions
- Number of Washes

6.1.4 For arc flash clothing, the ATPV designation applicable to the material shall be visibly indicated on all components of the suit.

6.1.5 Written proof of compliance to the relevant specification shall be provided by the successful bidder.

6.3 Tests

In addition to the requirements of the relevant Standards, the following tests shall be successfully performed on the protective clothing, personal protective equipment and the integrated headgear:

6.3.1 Fabric for the electric arc garments shall comply with the requirements of IEC 61482-1-1.

6.3.2 The complete garment shall be subjected to tests as specified in IEC 61482-1-1.

6.3.3 The garment construction shall be inspected visually for the following design properties:

- Long sleeves,
- No outside metal parts,
- No uncovered internal metal and/or melting parts,
- All parts made of arc thermal resistance material,
- Identical arc thermal resistance performance of front side and complete sleeves.

6.4 The integrated headgear shall be tested in conjunction with the complete garment.

6.5 Dimensional changes on exposure to heat shall not exceed the requirements of SANS 6130.

6.6 The seam breaking strength of stitching of protective clothing shall be in accordance with SANS 5323.

6.7 The degree of protection provided by the visor against mechanical impact and infrared shall be defined by the relevant standards and carried out in accordance with EN 166.

6.8 The degree of arc protection provided by the visor against the effects of an arc shall be in accordance with ASTM 2178 – 02.

6.9 The fabric's dimensional stability (wash shrinkage) shall be in accordance with SANS 1387 Part 2 and 3.

7. Requirements

7.1 General

Garments shall be cut and made with first-class workmanship throughout and shall be free from defects that affect their appearance or may affect their serviceability (or both) and from marks, spots and stains incurred in the marking up. All seams shall be smooth and all stitching uniform. Seams and stitching shall be free of twists, pleats and puckers and shall be sufficiently extensible to obviate seams cracking and undue shrinkage in use. All ends of sewing that are not secured in seams or in other sewing shall be adequately back-tacked. All ends of sewing shall have been trimmed and loose threads removed. The overall and other garments shall be uniform and of an acceptable make, prescribed colour, finish and matching of the shades of the component parts shall be such as to be acceptable.

7.1.1 Instruction for use

Protective clothing and equipment shall be supplied to the Municipality with information written in English. All information shall be unambiguous. It shall include at least the following:

- name and full address of the manufacturer and/or authorized representative,
- product designation,
- number of the relevant IEC standard with the year of publication (four digits), (IEC 61482-2:200X),
- pictograms, information and explanation about the type of arc test (ATPV or box test classification or both),
- care instructions in accordance with ISO 3758,
- Cleaning and repair instructions.

7.2 Flame resistant work wear suits

- 1) The garments shall consist of one piece – a **jacket**.
- 2) All parts of the garments shall be made of arc thermal resistant materials of the same ATPV.
- 3) The fabric shall be an inherently fire resistant fabric and of meta-aramid composition or similar, with a basis weight not greater than 305 g/m². **Proof of compliance to this specification must be submitted with the bid document, failing which the bid will not be considered for this item.**
- 4) These garments are intended to supplement the switchgear operating suit (flash suit) not replace it.
- 5) Garments shall be suitable for use by both male and female employees.
- 6) The garment shall be designed in a way, that it does not influence or hinder the wearer performing work.

- 7) The one-piece flame resistant work wear suit shall be supplied in accordance with SANS 434:2008 Edition 4.2 *Boiler suits and work wear suits*. This code specifies requirements for the material, cut, make and trim of boiler suits and separate jackets and pairs of trousers of work wear suits.
- 8) The styles for the jackets shall be Style C (slide fastener with butted fronts, breast pocket with flap, two side pockets), Style 2 (plain with yoke) and Style P (plain cuff).
- 9) The colour shall be navy blue.
- 10) The minimum arc rating of the work wear suits shall be 12cal/cm² (Hazard/risk category 2) and stitching shall be triple stitch.
- 12) The zip fastener shall be non-metallic of meta-aramid composition.
- 13) The Lesedi logo shall be embroidered above the left-hand top pocket and shall be 45 mm high. The colours shall be in accordance with Lesedi's corporate identity and specifications. The financial year in the format of 2012/13 shall be embroidered below the Lesedi logo in white and shall be 8 mm high. The embroidering and sewing thread used for the embroidering shall not influence the arc rating of the garment.
- 14) The jackets of the work wear suits shall have one chest pocket and two side pockets.
- 15) The wording ELECTRICITY shall be embroidered on the back of the jacket, starting 200 mm below the collar in white and shall be 30 mm high, also the name of the personnel to be Embroidered on the right hand side on the chest. The sewing thread used for the embroidering shall not influence the arc rating of the garment.
- 16) Triple stitch FR reflective tape (luminous stripes), 50 mm wide green and 18 mm wide silver (the silver is to be stitched to the centre of the green) shall be sewn along the waistline around both legs, just below the knees and around both arms, just above the elbows.
- 17) Sewing thread utilized in the construction of the garments shall not melt when tested at a temperature of 260 °C, and shall be made from Kevlar®, Nomex® or a blend of both or similar.
- 18) The seam breaking strength of stitches of the garment shall be in accordance with SANS 5323.
- 19) Where internal metal parts (e.g. buttons and zips) are used they shall be covered to the inside to avoid skin contact.
- 20) Internal pocketing fabric shall be the same fabric as used for the outer layer.
- 21) Jackets protecting the upper part of the body shall have long sleeves. No modification of the sleeves is to be undertaken after issue by Lesedi.
- 22) The pant and jacket shall be manufactured from the same material that will meet the required ATPV rating. The ATPV rating shall be indicated on the jacket and pants.
- 23) Garments shall conform to a recognized manufacturer's quality program.
- 24) Lesedi's corporate identity and specifications to be used.
It is a requirement that the garment shall withstand at least 150 washing and drying cycles without influencing the original specified arc rating. The manufacturer shall specify the minimum number of washes and drying cycles for which the arc performance of the garment will adhere to the requirements of this specification (that is a minimum arc rating of 12 cal/cm² (Hazard/risk category

2)). The Lesedi laundering cycles will not be in keeping with the requirements of the care labelling and special washing instructions from the manufacturer as each person issued with such clothing will be responsible for the care taking of the garment. It is therefore important that the original arc rating cannot be washed away by any laundering method for the required minimum of 150 washes.

The supplier must provide confirmation in writing that the garment will be able to be subjected to a minimum of 150 uncontrolled washes without reducing the original arc rating of the garment, failing which the bid will not be considered for this item.

- 25) The garment does not have to withstand repeated exposure to electric arc. Any garment which has been exposed to electric arc shall be withdrawn from service.
- 26) Fabric for the electric arc garment shall comply with the requirements of IEC 61482-1 and ASTM F1959.
- 27) The complete garment (on completion of the embroidering and fixing of the reflective stripes) shall be subjected to tests as specified in IEC 61482-1 and ASTM F 1506 and a certificate of compliance must be submitted with each batch of garments delivered.
- 28) Dimensional changes in washing and drying shall be in accordance with ISO5077.
- 29) The garments shall comply with the requirements Of Clause 6.3 Tests.
- 30) The garment shall be suitable for use in a category 2 hazard/risk environment as defined in NFPA70E (see table 1).

1	2		3
Hazard / Risk category (HRC)	Required minimum arc rating of ppe		Clothing Description
	cal/cm ²	J/cm ²	
2	8	33.47	Arc rated FR shirt, FR trousers or FR coverall

Table 1 – Recommended clothing type to be worn per hazard/risk category

Slide (zip) fasteners

D1 Interlocking slide fasteners

Slide fasteners shall comply with the relevant requirements for performance class C slide fasteners of SABS CKS 574. The fasteners shall be of an intrinsically corrosion – resistant material (other than aluminum) and the colour of the stringers of a slide fastener shall be an acceptable match to that of the fabric with which the slide fastener is used.

General Requirements

- 1. The Lesedi logo shall be embroidered or marked on all Clothing. The colours shall be in accordance with Lesedi's electricity department identity and specifications, this specification will be handed to the successful bidder/s after the tender has been awarded.
- 2. It is also a requirement that the successful bidder/s will be requested to provide a complete set of clothing and equipment (including embroidering) for approval and only on approval, be requested to supply the approved products as and when required.

3. The applicable SABS and SANS certificates must be attached to the bid document, failing the bid will be rejected.

7.3 Oil resistant safety boots

- Specifications**
- European Norm EN ISO 20345:2011 - S1 SABS APPROVED
 - Tested by SATRA - Approved Body Identification Number: 0321
- Special Features**
- Hi-Viz “In the Dark” Safety Strip for added visibility
 - Highly padded bellows tongue for comfort & protection against sparks & shavings
- Sole**
- Temperature Maximum 90°C (degrees Celsius)
 - Oil and acid resistant Dual Density PU
 - Crack Resistance - Tested to 30,000 flex cycles
 - Slip Resistance - Tested to SATRA PM144 1992 and meets these requirements However, care should always be taken on wet or oily surfaces
- Toe Cap**
- Steel Toe Cap - Tested to an impact resistance of 200 Joules
- Anti-Static Properties**
- Product is anti-static. If application is life critical additional consultation with product expert is required.
Electrical resistance can be significantly changed by flexing, contamination or moisture.
Introduction of additional inner sole reduces static resistance
- Sizing**
- Available from Size 4 to Size 12
- Lifespan**
- The application determines the length of service that should be achieved. Normal environments should provide 12 months' service, if appropriate care is taken.

SCHEDULE OF PRICES/ RATES:

Item	Description	Sizes	Estimated Quantity (Q)	Unit Price (P) in Rands	Price excluding Vat (Q x P) in Rands	Local Content
1	Flame resistance navy blue jacket	All Sizes	76	R	R	100%
2	Flame resistance navy blue pants	All Sizes	76	R	R	100%
3	Provision of embroidered	n/a	76	R	R	100%
4	Safety boots	All Sizes	40		R	100%
Sub Total Excluding Vat					R	
Vat 14%					R	
Total Including Vat					R	

Note:

1.1 Price schedule on the advert must be completed even if you submit/attach a separate quotation to the document.

1.2 Price schedule to be completed in full i.e: Rates; unit prices; sub-totals; vat if applicable and totals

Failure to complete the local content forms will lead to disqualification.