

Hessequa Municipality



**MUNICIPAL SUPPLY CHAIN MANAGEMENT
INVITATION TO SUBMIT CLOSED QUOTATION
THE SUPPLY AND DELIVERY OF FIRE PROTECTION CLOTHING**

RQ Nr: 57033

01 November 2017

Dear Sir/Madam

Please provide a written quotation for the supply of goods and / or services as detailed in the list attached.

The quotation must be submitted, on the official letterhead of your business, by the one of the following means for the attention of Ms Carisha Prins

- Email carisha@hessequa.gov.za
- Per Hand at the Hessequa Municipality SCM offices, Post Office Building, 19 Main Road, Riversdale, 6670

**QUOTATIONS MUST REACH THE MUNICIPALITY BEFORE OR AT 12:00 ON 08 NOVEMBER 2017
NO LATE QUOTATIONS WILL BE CONSIDERED**

The following conditions will apply to all quotations:

- Prices quoted must be firm, inclusive of VAT and where applicable for delivery to the address indicated below. The total amount of the quotation must also be clearly indicated;
- Please refrain from quoting on goods that are out of stock or not usually stocked by your company, or indicate on your quotation that this is the case and what the delivery period on those items will be;
- If your quotation is accepted, goods and/or services must be supplied and delivered to the below mentioned address, accompanied by your delivery note and invoice (if possible);
- Quotations must to be valid for a period of 30 days;
- The delivery period must be indicated.
- The closed quotation is subjected to the General Conditions of Contract as contained in MFMA Circular 25 of 2005 and the conditions contained in Hessequa Municipal SCM POS section 3.2.4.

- If a quotation is submitted for the goods; services or works requested, you the supplier accepts the conditions of this quotation and that the goods; services and works will be supplied or constructed as per this quotation.
- A formal order will be issued to the successful supplier that will be a written instruction to the supplier to supply; deliver or construct as per specifications contained in this quotation.

If your quotation does not comply with above stated conditions, your quotation will not be considered.

If you have not received a response from the Municipality within thirty (30) days after the closing date of the quotation, please regard your quotation as unsuccessful.

Should you be interested in wanting to know to who the successful bidder was, you may consult our website at www.hessequa.gov.za where monthly reports on awards will be published.

Quotations will be evaluated and adjudicated in terms of the Preferential Procurement Policy Framework Act (Act 5 of 2000), The Preferential Procurement Regulations, 2017 and the Hessequa Municipality's Supply Chain Management Policy, for which 80 points will be allocated in respect of price and 20 points in respect of B-BBEE contribution.

The Municipality reserves the right to withdraw any invitation for closed quotations and/or to re-advertise or to reject any quotation or to accept a part of it. The Municipality does not bind itself to accepting the lowest quotation.

Any Prospective Service Provider must make sure that they are registered and are valid on the Database of Hessequa Municipality and/or on the Centralised Supplier Database (CSD) and that they are in possession of a Valid Tax Clearance Certificate.

Please address any technical enquiries regarding the specifications to Mr N Muller
Tel: 028 713 7966/7822 or any Supply Chain Management related enquiries to Ms Carisha Prins at
Tel: 028 713 7974.

The stipulated minimum threshold percentage for local production and content for textile, clothing, leather and footwear sector is provided below:

<u>Description</u>	<u>Local Content Threshold</u>
Manufacturing of textile, clothing, leather goods and other textile	100%

- (i) The exchange rate to be used for the calculation of local production and content must be the exchange rate published by the South African Reserve Bank (SARB) at 12:00 on 02 November 2017; and
- (ii) Only the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 must be used to calculate local content

SABS approved technical specification number SATS 1286:2011 and the Guidance on the Calculation of Local Content together with the Local Content Declaration Templates (annex C (Local Content Declaration: Summary Schedule), D (Imported Content Declaration: Supporting Schedule to Annex C) and E (Local Content Declaration: Supporting Schedule to Annex C)) are accessible to all potential service providers on the dti's official website [http://www.thedti.gov.za/industrial development/ip.jsp](http://www.thedti.gov.za/industrial%20development/ip.jsp) at no cost

Important note: a valid original or certified B-BBEE certificate must be submitted with the documentation. (MBD 6.1 Preference Points Claim form need to be completed to claim points. NB- Only points claims will be awarded. The MBD 6.1 is available from the municipal website at www.hessequa.gov.za under the tab 'SCM INFORMATION AND REPORTS' or at the Supply Chain Management offices at Post Office Building, 19 Main Road, Riversdale.)

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS

This Municipal Bidding Document (MBD) must form part of all bids invited. It contains general information and serves as a declaration form for local content (local production and local content are used interchangeably).

Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2017 and the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 (Edition 1) and the Guidance on the Calculation of Local Content together with the Local Content Declaration Templates [Annex C (Local Content Declaration: Summary Schedule), D (Imported Content Declaration: Supporting Schedule to Annex C) and E (Local Content Declaration: Supporting Schedule to Annex C)].

1. General Conditions

- 1.1. Preferential Procurement Regulations, 2017 (Regulation 8) makes provision for the promotion of local production and content.
- 1.2. Regulation 8.(2) prescribes that in the case of designated sectors, organs of state must advertise such quotations with the specific bidding condition that only locally produces or manufactured goods, with a stipulated minimum threshold for local production and content will be considered.
- 1.3. Where necessary, for quotations referred to in paragraph 1.2 above, a two stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.
- 1.4. A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 1.5. The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 2011 as follows:

$$LC = [1 - x / y] * 100$$

Where

- x is the imported content in Rand
y is the bid price in Rand excluding value added tax (VAT)

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by the South African Reserve Bank (SARB) at 12:00 on the date of advertisement of the bid as required in paragraph 4.1 below.

The SABS approved technical specification number SATS 1286:2011 is accessible on http://www.thedti.gov.za/industrial_development/ip.jsp at no cost.

1.6. A bid may be disqualified if this Declaration Certificate and the Annex C (Local Content Declaration: Summary Schedule) are not submitted as part of the bid documentation;

2. **The stipulated minimum threshold(s) for local production and content (refer to Annex A of SATS 1286:2011) for this bid is/are as follows:**

<u>Category</u>	<u>Stipulated minimum threshold</u>
<u>Description</u>	<u>Local Content Threshold</u>
Manufacturing of textile, clothing, leather goods and other textile	100%

3. Does any portion of the goods or services offered have any imported content?

(Tick applicable box)

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
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3.1 If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the general conditions must be the rate(s) published by the SARB for the specific currency at 12:00 on 02 November 2017

The relevant rates of exchange information is accessible on www.reservebank.co.za.

Indicate the rate(s) of exchange against the appropriate currency in the table below (refer to Annex A of SATS 1286:2011):

Currency	Rates of exchange
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

NB: Bidders must submit proof of the SARB rate (s) of exchange used.

4. Where, after the award of a bid, challenges are experienced in meeting the stipulated minimum threshold for local content the dti must be informed accordingly in order for the dti to verify and in consultation with the Accounting Officer / Accounting Authority provide directives in this regard.

LOCAL CONTENT DECLARATION
(REFER TO ANNEX B OF SATS 1286:2011)

LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT RESPONSIBILITY (CLOSE CORPORATION, PARTNERSHIP OR INDIVIDUAL)

IN RESPECT OF BID NO.

ISSUED BY: (Procurement Authority / Name of Institution):

NB

1 The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.

2 Guidance on the Calculation of Local Content together with Local Content Declaration Templates (Annex C, D and E) is accessible on <http://www.thedti.gov.za/industrialdevelopment/ip.jsp>. Bidders should first complete Declaration D. After completing Declaration D, bidders should complete Declaration E and then consolidate the information on Declaration C. **Declaration C should be submitted with the bid documentation at the closing date and time of the bid in order to substantiate the declaration made in paragraph (c) below.** Declarations D and E should be kept by the bidders for verification purposes for a period of at least 5 years. The successful bidder is required to continuously update Declarations C, D and E with the actual values for the duration of the contract.

I, the undersigned, (full names),
 do hereby declare, in my capacity as
 of(name of bidder
 entity), the following:

- (a) The facts contained herein are within my own personal knowledge.
- (b) I have satisfied myself that
 - (i) the goods/services/works to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286:2011; and

(c)The local content percentages (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C;

Bid price, excluding VAT (y)	R
Imported content (x), as calculated in terms of SATS 1286:2011	R
Stipulated minimum threshold for local content (paragraph 3 above)	
Local content %, as calculated in terms of SATS 1286:2011	

If the bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above. The local content percentages for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E.

(d) I accept that the Procurement Authority / Institution has the right to request that the local content be verified in terms of the requirements of SATS 1286:2011.

(e) I understand that the awarding of the bid is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that are not verifiable as described in SATS 1286:2011, may result in the Procurement Authority / Institution imposing any or all of the remedies as provided for in Regulation 13 of the Preferential Procurement Regulations, 2017 promulgated under the Preferential Policy Framework Act (PPFA), 2000 (Act No. 5 of 2000).

SIGNATURE: _____

DATE: _____

WITNESS No. 1 _____

DATE: _____

WITNESS No. 2 _____

DATE: _____

HESSEQUA MUNICIPALITY SPECIFICATIONS FOR FIRE FIGHTING EQUIPMENT

1. BACKGROUND

Hessequa Municipality, Department Protection Services, sub section Fire Services, intends to purchase and have it delivered;

1. 4 x Advance bunker suit with inner suit of Sted Air and Q8
2. On all uniform Embroidery
3. 4 x Bullard Fireman's helmet
4. 4 x Flash hood
5. 4 x Protec Fusion 8 fireman's gloves
6. 4 x Viking rubber fireman's boots
7. 4 x Kitbag
8. 4 x Defender M trouser
9. 4 x Defender M shirt
10. On all uniform x Embroidery

The following specifications is applicable for the items specified:

EQUIPMENT SPECIFICATIONS				
No	QUANTITY	DISCRIPTION	UNIT PRICE (VAT EXCL)	TOTAL (VAT EXCL)
1	4	Advance bunker suit with inner suit of Sted Air and Q8 size medium colour Kaki brown		
2		Embroidery Hessequa fire & rescue as per standard size (all uniforms)		
3	4	Bullard Fireman's helmet		
4	4	Flash hood		
5	4	Protec Fusion 8 fireman's gloves		
6	4	Viking rubber fireman's boots		
7	4	Kitbag		
8	4	Defender M trouser size medium		
9	4	Defender M shirt size medium		
10		Embroidery Hessequa fire & rescue as per standard size (all uniforms)		
TOTAL AMOUNT				
VAT				
TOTAL INCL VAT				

The following guarantees is applicable:

No	DISCRIPTION	GUARANTEE (YEARS)	YES	NO
1	Must comply with sabs and British standards			

Contact Details:

Contact Person	Email Address	Cell phone number	Office Number
Neo Muller	frikkie@hessequa.gov.za	082 443 0390	028 713 7966/7822
AR Voss	vossie@hessequa.gov.za	082 710 6612	028 713 7966/7820

Delivery:

Delivery will be included in the pricing schedule

**Items must be delivered at:
Hessequa Municipality Traffic Department
Mulder Street
Riversdale Industrial
6670**

1. Structural Fire Fighting Suit

1. Standard Design:

- 1.1 The complete suit shall comply fully with all relevant standards as set in the NFPA 1971 Standard on Protective Ensemble for Structural Fire Fighting, 2007 edition, codes.
- 1.2 The suit shall consist of a tunic and trousers.
- 1.3 The minimum overlap between the tunic and trousers shall be 250 mm.
- 1.4 Each garment shall consist of a composite of an outer shell, vapour barrier, thermal barrier and lining.
 - 1.4.1 Current and valid certificates of compliance issued by an accredited test house, certifying that the outer shell, vapour barrier and thermal barrier comply fully with NFPA1971, Standard on Protective Ensemble for Structural Fire Fighting, 2007 edition, must be included with the quotation.
Failure to do so will render the quotation null and void.
- 1.5 The vapour barrier, thermal barrier and lining shall form the inner shell and shall be detachable from the outer shell.
- 1.6 The suits shall be made in seven (7) sizes labelled: Small, Medium, Large, X-Large,
- 1.7 XX-Large, XXX-Large and Special size. Special size suits shall be made to fit for individual personnel, where standard sizes will not fit and protect adequately.

2. Fabric and Garment Requirements:

2.1 Outer Material (Shell):

- 2.1.1 Aromatic Polyamide fibre enriched with 60% Kevlar. Material to be in Rip-stop weave.
- 2.1.2 The colour of the material will be Navy blue.
- 2.1.3 The fabric shall withstand at least 350 cycles on the Taber Abrasion Machine without the material holing (90% of material weight retained).
- 2.1.4 The TPP (Thermal Protective Performance) shall be no less than 43 cal/cm² on the composite of the material on offer.
- 2.1.5 Degradation temperature to be no less than 1050°F (565.6°C)
- 2.1.6 The tensile strength of the outer material after 5 seconds TTP exposure shall not be less than 75 lb (34,5 kg) in warp and fill.
- 2.1.7 The garments shall comply with the NFPA 1971(2007) standards for :
 - Seam Strength,
 - High visibility,
 - Hardware and
 - Label legibility.

- 2.1.8 Only yarns guaranteed by the manufacturer to 360° C and SABS /NFPA shall be used.
- 2.1.9 Yarns to be of same colour as outer material
- 2.1.10 All raw edges and seams shall be over locked by using at least five (5) strands of yarn.
- 2.1.11 Seam strength to be at least 200 N.

2.2 Vapour Barrier:

- 2.2.1 Bi-component Polyurethane laminated to Nomex E89 fabric
- 2.2.2 The fabric shall have NFPA 1971 (2007) approval for:
 - Flame resistance
 - Heat resistance
 - Water resistance
 - Liquid resistance
 - Viral resistance (Bacteriophage)
 - Strength
- 2.2.3 Resistance to penetration by fire ground chemicals.

2.3 Thermal barrier and Lining

- 2.3.1 Thermal barrier – 100% Aramid Batt/ Quilted. Lining – 100% Nomex face cloth/ quilted.
- 2.3.2 The fabric shall have NFPA 1971 (2007) approval for:
 - Flame Resistance
 - Heat resistance
 - Thermal resistance
 - Cleaning shrinkage
 - Strength

3. Requirements for Protective Tunic:

- 3.1 The outer shell shall be of a single layer construction throughout.
- 3.2 All seams shall be double stitched
- 3.3 The coat shall have a double closure front with 50mm Velcro and a heavy duty zip.
- 3.4 There shall be no seams on the shoulders. Sleeves shall be constructed in such a way as to afford maximum movement.
- 3.5 The sleeve cuffs shall be reinforced.
- 3.6 The arms of the tunic shall be designed to facilitate the maximum amount of free arm movement.
- 3.7 Elbow padding is required. The padding shall consist of polymer-coated Kevlar with a heat resistant material sandwiched between the shell and the Kevlar. The padding shall be stitched onto the outer shell using double stitching.
- 3.8 The vapour barrier, thermal barrier and lining together shall form the inner garment.
- 3.9 The inner jacket shall be attached to the outer jacket by means of a heavy-duty zip and Velcro with snaps at the arms.
- 3.10 The inner jacket shall be equipped with wristlets and thumb loops in accordance with the NFPA 1971 (2007) standards.
- 3.11 The jacket shall include inverted pleats. The two pleats shall be set in the back of the outer shell
- 3.12 The tunic must be available in both traditional and bunny jacket styles
- 3.13 **Marking**
 - 1.13.1 ----- “Fire Rescue” badge must be embroidered onto the left breast and the South African National Flag embroidered onto the left upper arm.

1.13.2 “-----” must be screen printed in 60mm high silver letters on the back.

3.14 Pockets:

3.14.1 An inner pocket of 150x150mm with a side zip closure must be fitted to the inside of the left breast of the outer layer. It must be made of the same material as the outer layer.

3.14.2 A radio pocket shall be fitted onto the left chest. The pocket shall be so positioned not to hinder the Breathing Apparatus shoulder straps. The pocket shall feature a pocket flap with an insertion for the antenna. The pocket flap shall be closed with a Velcro square.

3.14.3 A pocket shall be placed on each side on the inside of the inner shell. These pockets shall be constructed of the same material as the inner shell.

3.15 Collar:

The collar shall be of a double layer of the same material as the outer shell and shall have a layer of the quilted thermal barrier in the middle thereof.

A storm-flap constructed the same as the collar shall be fitted in such a way as to ensure a “Dry Suit”. The area over the chin shall have a layer of Nomex Knit.

4. Requirements for Protective Trousers

4.1 The trouser shall be shaped in such a way that it will provide a tailored fit.

4.2 The trousers shall extend no less than 150 mm above the waist.

4.3 Super heavy-duty suspenders shall be permanently fitted to the trousers. A mechanism to prevent the straps from sliding from the shoulders shall be incorporated into the suspenders

4.4 The main body of the suspenders shall be constructed of non-elastic webbing with reflective weaved in.

4.5 The suspenders shall be no less than 50 mm wide.

4.6 The suspenders shall be equipped with two non-slip thermoplastic slide fasteners for adjustment.

4.7 A 220 mm length of 50mm wide elastic webbing shall be stitched into the non-elastic webbing on the back section of the suspenders to allow for easier movement. The left and right suspender belt shall be connected with 50mm elastic webbing at the back.

4.8 Provision shall be made for a fly flap in the trousers. This fly flap shall be fastened with Velcro along the entire length. The fly flap shall taper from top to bottom.

4.9 The cuff area of the trousers shall be reinforced.

4.10 The leg ends shall be wide enough to fit over the bunker boots. The bottom leg seam of the inner shell shall be fitted with an elastic band.

4.11 The knee area shall be reinforced with polymer coated Kevlar squares.

4.12 A gusset must be built into the knee to allow for better movement

4.13 Inner to be removable by means of a zip.

4.14 Two pleated pockets shall be fitted to the trousers, one on each thigh and made from the same material as the outer layer. The size of the pockets shall be 300x240mm with a 85mm pocket flap held down by two Velcro squares.

5. Reflective Trim

- 5.1 Retro-reflective fluorescent trims in accordance with the NFPA 1971 (2007) shall be fitted to the suit.
- 5.2 All trims shall be 3M type 9487
- 5.3 The trims shall be 76.2 mm wide throughout.
- 5.4 All trims shall be double stitched
- 5.5 The colour of the trims shall be lime-yellow with a silver strip in the centre.
- 5.6 The trims shall be positioned as specified.

6. Marking:

Each Tunic and each pair of trousers must have a white woven cotton label of a nominal size of 60 mm x 40 mm. All cut edges must be turned in and the label securely sewn centrally to the inside of the back of the inner shell at the top of both the tunic and trousers. The label must provide the following information printed in legible block letters.

- (a) The manufacturers name or trade mark or both
- (b) The composition of the materials
- (c) The year of manufacture
- (d) Washing instructions

7. General

- 7.1 The quotationer must undertake to provide a repair and alteration service in Cape Town. All materials used in the repair must comply fully with the quotation specification.
- 7.2 The suit shall be constructed in such a way that damaged panels can be replaced. All layers must be designed to allow for this.
- 7.3 It is a condition of the quotation that all quotationers submit a SABS Manufacturing Capability Report Certificate which is not older than twelve (12) months, which certifies the capability to manufacture the specific items quotationed for with their quotation.
Failure to submit this report will render the quotation null and void

2. Embroidery

Fire and Rescue badge on left front.
Hessequa Fire and Rescue embroidered in red on back

3. Structural Fire Fighting Helmet

Helmets for Structural Firefighting shall meet or exceed NFPA 1971 Standard on Protective Ensemble for Structural Fire Fighting 2013 Edition (Pertaining to Structural Fire Helmets). Certification/verification shall be furnished by written documentation supplied by a recognized independent third party test laboratory.

General

Helmets conforming to this specification are designed to help protect the firefighter from head and neck injuries related to structural firefighting activities.

The helmet manufacturer shall be certified ISO 9001 company to assure quality procedures and production capabilities.

Warranty

The manufacturer shall warrant to the original purchaser that the entire helmet (excluding faceshield) shall be free of defects in material and workmanship, under normal use and service, for a period of two years from the date of manufacturer. The faceshield is not warranted.

Physical Configuration

The basic helmet shall be flared, rear-brim design with a length of 12-5/8", a width of 10" at the faceshield hardware and a height of 6-3/4".

Shell

The helmet shell shall be of contemporary style and shall be constructed of heat-resistant thermoplastic. Color pigment shall be added to the thermoplastic resin as part of the manufacturing process that molds the helmet to help maintain appearance by masking chips and scratches that might occur in daily wear and tear. The shell finish shall be available in white, yellow, red, black, blue, orange and lime-yellow.

The edge of the outer shell shall have aluminum reinforced; elastomeric edge beading that is secured at the rear of the brim by a stainless steel clip and D-ring fastened by a stainless steel rivet. The edge beading shall not melt, drip or ignite when tested to NFPA 1971-2000 Section 6-6.12 Heat Resistance requirements.

Impact Liner System

The impact liner shall consist of a urethane foam liner with a black high-heat thermoplastic inner shell. The urethane foam liner shall be formed without the use of CFC's to eliminate the potential for additional expansion when subjected to heat during actual use.

A black suspension ring shall have six 1" x 3" pieces of adhesive-backed Velcro® hook material attached, two to each side, to secure the ear/neck protector.

Crown Strap Suspension System

The crown strap suspension system shall be three 3/4" nylon web straps attached to 6 nylon keys. The keys shall be locked into the lip of the black suspension ring.

Ratchet Headband

The helmet shall have a quick-adjustment sizing capability by means of a ratchet adjustment system attached to a heat-resistant nylon headband. The headband shall be attached to the black suspension ring by 1/4-turn adjusters locked behind the black suspension ring. Headband shall be vertically adjustable at the rear without requiring separation of the headband from the helmet.

The ratchet portion of the headband shall have a ratchet height adjuster located at the rear of the headband, inside of the suspension ring, to permit the ratchet to be positioned for comfort on the nape of the firefighter's head. This ratchet height adjuster shall permit at least 1" of travel by means of three height adjustment slots for proper fit.

The ratchet housing shall be wrapped in a cushion-backed leather cover to enhance fit and comfort at the nape of the head. This leather ratchet cover shall be attached by four pieces of Velcro hook and loop material to permit removal for cleaning and replacement.

Brow Pad

The headband shall be supplied with a fire retardant (FR) cotton flannel brow pad, backed with foam cushion padding material at the forehead. This brow pad shall be attached by 3 pieces of Velcro hook and loop material to permit removal for laundering and replacement. Attachment to the headband with stitching will not be permitted.

Chin Strap

The chinstrap shall consist of two pieces of 3/4" black Nomex® webbing with a super-tough nylon quick-release buckle and a chrome-plated postman's slide fastener.

The male side of the quick-release buckle shall be anchored to the right side of the outer shell with a dielectric anchor block secured to the faceshield-mounting bracket with 2 stainless steel screws. The long portion of the chin strap with the female side of the quick-release buckle and the postman's slide fastener shall be attached to the left side of the outer shell in the same manner.

When the chinstrap is connected and fully extended maximum length shall be at least 24" when measured from one anchor block to the opposite anchor block.

Ear/Neck Protector

The ear/neck protector shall consist of a 6 oz. rip-stop Nomex outer shell backed with FR cotton flannel for comfort. A 1" strip of Velcro loop material shall be stitched in one continuous band across the top of the outer shell portion of the ear/neck protector for attachment to the suspension ring.

When properly attached to the inner shell of the helmet, the ear/neck protector shall have the following minimum coverage to the sides and rear of the helmet brim:

1. 6" from the sides of the helmet brim at the chinstrap.
2. 6-1/2" from the center rear of the helmet brim.

Faceshield

The faceshield shall be a hard-coated high heat thermoplastic material 4" x 15" that is molded in the formed position and designed to fit the contour of the helmet brim. The faceshield shall be certified to meet the optic requirements of ANSI Z87.1 1989 Standard for Eye and Face Protection. This certification shall be in addition to compliance with NFPA 1971 requirements for heat and impact performance.

When mounted, the faceshield shall permit a minimum retractability of 90° in the stowed position.

The faceshield shall be mounted to the brim of the outer shell by a glass-reinforced, flame resistant, nylon handwheel/stainless steel threaded stud attached to a brass T-nut which is supported by an aluminum washer fastened to Quick-Attach mounting blades. The faceshield hardware shall be tested to NFPA 1971 Flame Resistance Test Two.

The chinstrap/Quick-Attach combination mounting bracket shall be secured to the brim of the outer shell by 4 stainless steel bolts and nuts. A thermoplastic spacer washer shall be used to bridge the mounting bracket adjoining the edge beading.

Retro-reflective trim

The outer shell shall have 5 - 1" x 4" fluorescent lime-yellow, retro-reflective markings located around the circumference of the outer shell. The reflective materials shall be glass bead based to maximize the resistance to heat exposure experienced in firefighting. Vinyl based reflective materials will not be considered equal.

4. FLASHHOOD / BALACLAVA

1. It shall comply fully with the 2013 edition of NFPA 1971
2. It shall be constructed of a double layer of 40% P84 and 60% Lenzing FR
3. The bib/chest protector shall also consist of a double layer of P84/Lenzing FR
4. The hood shall provide 20 TPP Double layer protection in both the head and the bib.
5. The face opening shall maintain the 115 to 140mm requirement after 50 donnings and doffings
6. Each hood shall contain a label with an easy to understand user guide
7. The label shall be fire resistant and comply with the durability test
8. The fabric and seams strength shall comply with all burst tests
9. The material shall be natural or light in colour.

5. STRUCTURAL FIRE FIGHTING GLOVE

1. The glove must be certified to be compliant to the NFPA 1971 Standard – 2013 Edition on Protective Ensemble for Structural Fire Fighting.
2. A current and valid certificate of compliance issued by an accredited test house certifying that the glove is fully compliant with NFPA 1971 Standard 2013 Edition on Protective Ensemble for Structural Fire Fighting must be included with the quotation. Failure to do so will render the quotation null and void.

3. Design and Features

- 3.1 The glove must be of an extremely and flexible construction while maintaining safety and protection.
- 3.2 The glove back side must consist of a 6 layer flexible knuckle guard system which reinforces thermal protection and cut / puncture resistance at the knuckle compression point.
- 3.3 Unique stitching of the outer palm must prevent bunching up of material to ensure an efficient grip.
- 3.4 The ring and middle fingers on the palm side must be cut and sewn independently for enhanced dexterity.
- 3.5 Gathered stitching must be used around the entire wrist for a secure fit and to prevent debris from entering the glove.
- 3.6 The glove inner liner must be sewn in and bonded at each fingertip to prevent the inner from pulling out.
- 3.7 A leather hang up loop must be provided for fast easy drying and storage.
- 3.8 Blood borne pathogen protection must be provided.

4 Materials

- 4.1 Must be constructed from highly and durable water repellent suede goat skin outer layer.
- 4.2 A second layer made from cut and heat resistant knitted Kevlar / Nomex must be fitted to the palm side.
- 4.3 A third layer made from 100% Modacrylic must be fitted to the palm side to serve as the inner liner.
- 4.4 The knuckle guard must consist of the following:
 - 4.4.1 An outer layer of 100% Kevlar.
 - 4.4.2 Two layers of silicon carbide both fused to 100% Kevlar.
 - 4.4.3 A second layer of 100% Kevlar.
 - 4.4.4 An inner layer of Modacrylic knit.

The gloves must be available in sizes extra small to 3X-large

6. Viking rubber fireman's boots

Colour: Black /Yellow

Size Range: US: 3-15

Type of construction

Last/ Sole Pattern

Recommended

Use Vulcanized handmade Rubber Upper and Sole.

BDA (snug fit) last with ST Lug outsole

Structural Fire Fighting

General Fire Rescue

Bush Fire fighting
Motor vehicle accidents

Compliance NFPA 1971: 2013 Protective footwear for Structural Fire Fighting
ASTM F2413-11 Protective (safety) Toe cap footwear

* Grade 1 Metal toe cap with 102 Joules resistance to impact and 2500 lbf resistance to compression

* Insert Midsole metal plate with min 1200N of puncture resistance

* 14kV Electric shock Resistance (ESR) Protection

* Felt lined for comfort and lighter weight

* Viral Protection from Blood Pathogens

* Triple ribbed metal shank (ladder support)

Lining material Non woven felt lining with ergonomic insole

Upper * Multiple layers of flame retardant rubber with heat insulation

* Waterproof

Sole / Heel * Flame retardant slip resistant rubber outsole

* High abrasion, and fuel oil resistant

* Energy absorbing heel design

* High thermal resistant sole/heel

Steel Toe cap

Anti-corrosive epoxy coated steel

Meets EN ISO 20345/CSA Z195-14 & ASTM F2413-11 Safety Standard

Steel Midsole Anti-corrosive epoxy coated steel

Meets EN ISO 20345/CSA Z195-14 & ASTM F2413-11 Safety Standard

Chemical Resistance Resistant to strong acids, alkalis and fuel oils

Able to withstand chemical permeation on following chemicals:

Chemical Performance level

Upper material, Sole material

Isopropanol (Solvent) 5 (>32 Hours) 5 (>32 hours)

25% ammonia Alkali 5 (>32 hours) 4 (24hours<T<32hours)

Sodium Hypochlorite (containing 13% active chlorine) 5 (>32 hours) 5 (> 32 hours)

Finishing Lacquer coating for weather protection.

Packing In Polybag and 6 pairs / carton.

7. Kitbag for Firemen

Material

- 420D PVC nylon base and zip gussets
- Polyester netted material sides and ends
- No 10 CF nylon zip
- No 10 CF nickel plated slider
- Polyprop webbing 38mm
- No 36 spun polyester thread

Dimensions

400 mm Φ x 905 mm long

8. Work Trousers Navy Blue

Material

Composition: Inherently heat- and flame-resistant fabric
59/29/10/2% Lenzing® FR/aramid/polyamid/Static-Control™

Weight: 210grms

Colour: Navy Blue RIP-STOP

Certification: EN11612 (heat & flame for industrial workers) and EN15614 (wild land firefighting), EN1149-5 (antistatic), EN13034 type 6 (limited protection against small splashes of liquid chemicals) and, maybe quite interesting BS7971-10 clause 5.13 (protection from penetration by liquids including petrol).

A plain waistband that fastens with a button and buttonhole to be a continuous length of double folded outer material and interlined with fusible interlining of finished width in the range of 35 mm to 40 mm

7x belt loop of 8cm to fit a 50mm belt that are bar-tacked at the top and bottom

False seam line front and back

Two Slanted side pocket with mouth opening to be of finished length 18 cm

All ends shall be securely finished off with bar tacks

One back left hip pocket fasten with a button

Zip leg opening at the back of trouser with 20cm zip and cover flap to fit over boots

Have a fly and fly-catch fitted with a 17cm slide fastener to be double stitched and bar tacked

9. Short sleeve magnum shirt Navy Blue

The shirt shall comply with the following specifications

The material shall comply with the following:

EN11612 (heat & flame for industrial workers) and EN15614 (wildland firefighting), EN1149-5 (antistatic),

EN13034 type 6 (limited protection against small splashes of liquid chemicals) and BS7971-10 clause 5.13 (protection from penetration by liquids including petrol).

Fabric – Inherently heat- and flame-resistant fabric – rip-stop weave – navy blue

59/29/10/2% Lenzing® FR/aramid/polyamid/Static-Control

Weight: 210 g/m²

Short sleeve with cuff

Pleated pockets with three point flaps, Velcro tipped

4 hole buttons

Glad neck collar

Permanent stitching on sleeve and shirt front Darts at back

Short length is longer than standard

Pen hole slit

Colour: Blue

10. Embroidery

Fire and Rescue badge on left front.

Name tag on Velcro on right front.

Chief Fire and Rescue embroidered in red on back.

Deputy Chief Fire and Rescue embroidered in red on back.