



Project no: 52425 Supply and delivery of Fire Fighting Uniform and Personal Protective Clothing for a period of thirty-six (36) months to Nkangala District Municipality. (Re-advert)

NKANGALA DISTRICT MUNICIPALITY



PROJECT NO: 52425

SUPPLY AND DELIVERY OF FIRE FIGHTING UNIFORM AND PERSONNEL PROTECTIVE CLOTHING FOR NKANGALA DISTRICT MUNICIPALITY. (RE-ADVERT)

SCOPE OF WORK

Part C3: Scope of Work

C3 Scope of Work



NKANGALA DISTRICT MUNICIPALITY




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SUPPLY AND DELIVERY OF FIRE FIGHTING UNIFORM AND PERSONNEL PROTECTIVE CLOTHING FOR NKANGALA DISTRICT MUNICIPALITY. (RE-ADVERT)

C3 SCOPE OF WORK

TECHNICAL SPECIFICATIONS FOR THE FIRE FIGHTING UNIFORM AND PERSONNEL PROTECTIVE CLOTHING

Item Description	Units Per Officials	Quantity
Rubberised Breast Badge: To be designed with standard fire & rescue service emblem including NDM's Logo Rubberised Breast Badge: 	As required on the combat shirts and jackets	
Combat Shirts with a badge as proposed and Rubberised Name Badges	3	90
Combat Trouser	3	90
Fire fighting boots/Safety Shoes	2	90
Combats Jackets [Hip Long]	1	90
Rain suits	1	90
Leather Belts	1	90
Combat [fire mans] caps with fire services logo	2	90
Heavy Duty Socks	2	90
Golf T-shirts	2	90
T-shirts	2	90



Long sleeve Jersey	1	90
Pull Over Jersey	1	90
Wool hats	2	90
Reflects vests	2	90
Jumpsuits	2	90

A. COMBAT AND STEP-OUT UNIFORM

A.1 Combat Shirts

Material: T53 Field dress

230 grams square meter

35% Cotton 65% Polyester

SABS Defence Force specification

Colour: Navy Blue

Style: Short sleeve

Reflective tape with crossed axes print sewn on around biceps

Reflective tape with the wording "FIRE & RESCUE" sewn across back

Rubberized rank markings on collar (Suitable ranks per person)

Rank markings to be gold on navy blue with gold border

Two inner breast pockets with zips

Open glad neck collar

Button through front.

No epaulettes

Embroidered badges on both sleeves

Rubberized breast badge on left chest

Rubberized name tag on right chest

A.2 Combat Trousers

Material: T53 Field dress

230 grams square meter

35% Cotton 65% Polyester

SABS Defence Force specification

Colour: Navy Blue

Style: Double seat and double knees

Reflective tape with crossed axes print sewn on below map pockets

Draw cord in waist and trouser bottoms

Zip fly. 5 x 70mm x25mm

Stitched down belt loops

Two standard side pockets

One jet hip pocket with concealed buttons.

One pleated field dressing pocket – right groin – Velcro closing

Two map pockets – knife pleat at back – flaps with two concealed buttons

Stitched in permanent trouser leg creases back and front

Pocket and waist band in same material as trousers.

A.3 Fire Fighting [Shoes] Boots



Style: Stockton (Steel toe cap)
Colour: Black
Full grain oil leather uppers
Breathable lining
Comfortable air insole
Oil resistant rubber outsole
Dual lacing system
Outsole resistance to hot contact 300 °C

A.4 Combat Jacket

Hip length
Colour: Oxford blue
Double collar
Quilted body and sleeve
Padded lining
Two breast pockets
Zip front with concealing flap & press stud closure
Reflective tape with crossed axes print sewn on around biceps
Reflective tape with the wording "FIRE & RESCUE" sewn across back
Rubberized rank markings on collar (Suitable ranks per person)
Rank markings to be gold on navy blue with gold border
Embroidered badges on both sleeves
Rubberized breast badge on left chest
Rubberized name tag on right chest
No epaulettes
To slant hand warmer side pockets
Plain bottom
No elasticated waist
50% Polyester & 50% Cotton
Long Parker type with draw cord at the welt

A.5 Rain Suits

Navy Nylon Material
Two piece Jacket and Trouser
Elasticated waist for trouser
Elasticated leg bottoms
Elasticated arm cuffs
All stitching tape sealed to prevent water leakage.
Heavy duty zip with Velcro closing storm flap
Jacket with hood
Two inch Silver Reflective Stripes
Two colour matched—lime + navy;
Material: PU coated inside
One mobile phone pockets on right chest, and below 2 Front Pockets
With Velcro flaps; Zipper Front + button closure

A.6 Long Sleeve Jersey

Flat knit
Medium weight 10 gauge
No epaulettes



Rubberized breast badge on left chest

A.7 Pull over/short sleeve Jersey

100% acrylic

Embroidered name tag on the right chest

Embroidered badges on both sleeves

Flat knit

Medium weight 10 gauge

No epaulettes

Rubberized breast badge on left chest

A.8 Leather Belts

Black Genuine Leather belt

Double leather basket weave finish

50mm Border Patrol Double Leather with buckle

32mm with roller buckle

A.9 Combat [Fire mans] caps

Black

Plain weave with plastic peak

Black oak leaf band

Small gold fire buttons

With the fire logo

A.10 Wool hat

Color Blue

Gender Unisex

Fabric Wool

A.11 Heavy Duty Socks

Navy

Bioguard reinforced heel and toe for added durability

Relaxed Lycra weld in-seat for minimum leg pressure

Cushion sole for maximum comfort for prevention of odour forming bacteria

A.12 Rubberised Name Badges

Sew on or Iron on

Colour of base cloth: navy

Printed lettering in gold

Only on Combat shirts, combat Jackets

A.13 Rubberised Breast Badge

As per Approved NDM fire and rescue badge.



A.14 Combat fire caps

Navy blue combat fireman's caps

A.15 Golf T-shirts

With rubberised breast badge

Navy blue

Printed Fire& Rescue at the back

A.16 T-Shirts

Navy blue

Round neck

Printed Fire& Rescue at the back

Rubberised breast badge

A.17 Jumpsuits

Material: T53 Field dress

230 grams square meter

35% Cotton 65% Polyester

SABS Defence Force specification

Colour: Navy Blue

Style: Short-long sleeve(zip)

Reflective tape with crossed axes print sewn on around biceps

Reflective tape with the wording "FIRE & RESCUE" sewn across back

Rubberized rank markings on collar (Suitable ranks per person)

Rank markings to be gold on navy blue with gold border

Two inner breast pockets with zips

Open glad neck collar

Button through front.

No epaulettes

Embroidered badges on both sleeves

Rubberized breast badge on left chest

Rubberized name tag on right chest

Material: T53 Field dress

230 grams square meter

35% Cotton 65% Polyester

SABS Defence Force specification

Colour: Navy Blue

Style: Double seat and double knees

Reflective tape with crossed axes print sewn on below map pockets

Draw cord in waist and trouser bottoms

Zip fly. 5 x 70mm x25mm

Stitched down belt loops

Two standard side pockets

One jet hip pocket with concealed buttons.

One pleated field dressing pocket – right groin – Velcro closing

Two map pockets – knife pleat at back – flaps with two concealed buttons

Stitched in permanent trouser leg creases back and front

Pocket and waist band in same material as trousers.



A.17 Reflector vests

- Fire and rescue services

B. PERSONNEL PROTECTIVE CLOTHING

- Prospective Suppliers are urged to consider that the Fire & Rescue working environment is physically intense and exposure to high temperature environments and debris strewn scenes are common place. In order to ensure the best possible protection for fire fighters; the Nkangala District Municipality has adopted the NFPA 1971/5 Standard on Station / Work Uniforms for Fire and Emergency Services as best practice. NFPA 1971/5 attempts to eliminate dangerous fabrics and establish a degree of protection for work uniforms. It addresses such issues as thermal stability and flame resistance as they pertain to fabrics that melt, drip, burn, stick to the skin and cause burns to the wearer.
- The adoption of the NFPA 1971/5 Standards is in line with the intents of the Occupational Health & Safety Act, Act 85 of 1993 and this is considered non-negotiable in terms of achieving a standard of reasonable protection for the firefighter in terms of personal protection whether in bunker gear or not.
- Care and durability are also factors that are considered critical in ensuring that uniforms last longer and maintain their appearance whether due to repeated washing, staining, and perspiration, etc. In consideration of the work environment, durability also refers to the ability of the garments to retain their integrity under extreme physical work that will require constant bending, stooping and sometimes crawling through narrow spaces. Colour fastness and appearance is also just as relevant as firefighter's work in a uniformed shift work environment which will require constant laundering of uniforms.
- For these reasons it is expected that suppliers will ensure that full account of adherence to the relevant SANS textile standards is maintained and proven upon request from the requesting party. ***The Supplier will be expected to conform to the abovementioned standards and are expected to declare, in writing, that the goods supplied are in compliance with the NFPA 1971/5 Standards.***

PERSONNEL PROTECTIVE CLOTHING		
Item Description	Unit per Official	Quantity
Structural Fire: Bunker Jacket and Bunker Trouser	1	90
Grass fire: Jacket and Bunker Trouser	1	90
Bunker Boots	1	90
Fire Helmet	1	90
Helmet Visors	1	90
Fire Fighting Balaclavas	1	90
Fire Fighting Gloves	1	90
Rescue Gloves	1	90
Goggles	1	90
Torch	1	90
Fire Knife	1	90



Helmet light	1a	90
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B.1 Structural Fire: Bunker Jacket and Bunker Trouser

- Sizes: M – XXXL
- The fibre must consist of 60 % para-aramid and 40% PBO
- Must be light weighted
- Weave must be rip stop
- Colour must be Natural (Gold) with yellow reflective stripes
- Must consist of a inner and outer layer.
- Thermal exposure: must be able to retain strength and flexibility even after thermal exposure.
- Must be water absorption resistant
- Durability: product must be durable and abrasion resistant.
- Must be thermal and laundry shrinkage resistant.
- Product must have 5 year tear warranty With radio pocket on chest

B.2 Grass Fire PPE: Bunker Jacket and Trouser

- Sizes: M-XXXL
- Colour must be Natural (Gold) with yellow reflective stripes
- Must be light weighted
- Single layer
- Must have thermal liner in front panels
- Product must have 5-year tear warranty
- Must have an outer shell

B.3 Bunker Boots

- Black and yellow
- Steel toe cap
- Steel mid sole
- Waterproof
- Sizes 8 – 12

B.4 Fire Helmet

- Colour: Yellow
- NFPA approved with six visor

B.5 Fire Fighting- Balaclavas

- Full Face and Chest

B.6 Fire Fighting Gloves

- Fire Knox (NFPA APPROVED)

B.7 Rescue Gloves



- HAND SAFETY IMPACT WORK GLOVES - Back of Hand Impact Protection keeps your hand safe while working without limiting dexterity
- STRATEGICALLY PLACED ANTI-VIBRATION REDUCING PADS - Open cell memory foam pads on the palm of hand help to absorb impact and vibration when using hand and power tools
- SWEAT MANAGEMENT FEATURE - Terry cloth sweat wipe conveniently located on the back of the thumb allows you to stay focused on the job at hand with one wipe of the brow
- HOOK & LOOP CLOSURE - Adjustable Hook and Loop Closure provides a secure custom fit for ideal performance
- INCREASE DONNING SPEED - The Thermoplastic Rubber (TPR) Cuff Puller allows the operator to get the glove in the proper position swiftly

B.8 Goggles

- Designed for compatibility with other PPE
- Easy to don with gloves
- Light weight , non-vented goggles
- Fire resistant polycarbonate lens
- Anti-scratch
- Anti-fog lens
- Fire proof adjustable headband
- Red fire-retardant PVC eye frame
- Contoured to ensure a firm fit

B.9 Torch

- SUPER-BRIGHT: 400-lumen Cree LED (50000-hour lifespan).
- A compact, yet radiant flashlight to illuminate any dark spot,
- Space or place. Features High / Medium / Low / Strobe / SOS modes.
- WHAT YOU GET: Anker Bolder LC40 Rechargeable Flashlight (with built-in 3350mAh rechargeable battery), welcome guide, Micro USB cable, and our worry-free 18-month warranty and friendly customer service.

B.10 Fire knife

- Black 7 In 1 Rescue Survival Knife LED Flashlight
- Glass Breaker
- Fire Starter
- Seat Belt Cutter
- Sharpener

B.11 Helmet light


- Rotates 360 degrees on clamp; Bright blue tail light LED
- On/off switch operates with heavy gloves on; Attach or remove in seconds with no tools
- Clamps on above or below helmet brim; Bulb: LED; Finish: Matte Black



- Output (lumens): 115; Power Source: CR123A Lithium, x 2; Switch: Dual-Direction On/Off Switch

C: STEP-OUT UNIFORM

TECHNICAL SPECIFICATIONS: STEP-OUT UNIFORM

Item Description	Units Per Officials	Quantity
Rubberised Breast Badge: To be designed with standard fire & rescue service emblem including NDM's Logo Rubberised Breast Badge: 	as required on the white shirts and jerseys	
Step out trousers [both males and	1	90
Step out Black Shoes	1	90
White long sleeve shirt [22 ladies and 30 Men]	1	90
White short sleeve shirt [22 ladies and 30 Men]	1	90
Tie ,black with fire axes	1	90
Leather belt	1	90
Peak cap	1	90
Heavy duty socks	1	90
black Jackets [both men and women]	1	90
Ladies step out skirt and	1	90
Ladies step out shoes	1	90
Ladies felt hat	1	90
Ladies bow tie , black	1	90
Panty hoses	1	90
Metal cap badges	1	90
Metal name tag	1	90
Metal rank markings	1	90
Metal chest shield	1	90
White T-shirt	1	90
White gloves	1	90

The uniform must meet the following requirements:

C.1 Men's Step out Trousers

Black

40mm wide belt loops

Trevira Wool Fabric

Steel zip front

2 slanting side pockets

2 back pocket with button on right back – plain bottoms



C.2 Men's Step out Shoes

Black
Chelsea slip on type
Boot & Shoe

C.3 White Long Sleeve Shirts

Poly cotton material (35% cotton 65% polyester)
Material: 112 grams per square meter
Fused raised collar in accordance with SABS (CKS 34)
Button front
With two, patch breast pockets with flaps to button
No epaulettes
Cuffs to button

C.4 White Short Sleeve Shirts

Heavy duty Material
Magnum style with permanent crease at the back
Button front
Two breast pockets with Velcro closing flaps
Gold plated fire buttons on pockets
Sleeves to be embroidered with departmental logo
Rubberized breast badge on left chest
According to SABS (CKS 636)

C.5 Tie

Conventional black Fire Tie
100% polyester cross weave
Gold silk axes with red silk flag

C.6 Leather Belts

Black Genuine Leather belt
Double leather basket weave finish
50mm Border Patrol Double Leather with buckle
32mm with roller buckle

C.7 Peak Cap

Chief Fire Officer

Black
Double gold oak leaf hand embroidered on covered peak
Black oak leaf band
Small gold fire buttons
Plain weave – Covered peak

Senior Fire Officers

Black
Single gold oak leaf hand embroidered on covered peak



Black oak leaf band
Small gold fire buttons
Plain weave – Covered peak

Leading fire fighters

Black
Plain covered
Black oak leaf band
Small gold fire buttons
Plain weave – covered peak

C.8 Heavy Duty Socks

Black
Bio guard reinforced heel and toe for added durability
Relaxed Lycra weld in-seat for minimum leg pressure
Cushion sole for maximum comfort for prevention of odour forming bacteria

C.9 Black Jackets [men and women]

Colour and material to match men's trouser and tunic
Black
Trevira Wool Fabric
Shoulder straps for epaulettes
Double breasted
Plain weave
Fully lined
Gold dye stamped fire buttons on front and sleeves
With golden braid arm rankings on cuffs

-2 stripes for **Divisional Officers**
-5 stripes for **Chief Fire Services**
-1 stripes for **Leading fire fighters**
- Plain for other officers

C.10 Ladies Step Out Skirt

Black
Trevira Wool Fabric
Fully lined
Plain weave
No belt loops
A-lined or Pencil
Colour and material to match men's trouser and tunic
Black slit

C.11 Ladies Step Out Shoes

Black leather uppers
Style: Colleen
Step on air half heel shoe

C.12 Ladies Felt Hat

Black



Felt with ribbon

C.13 Ladies Bow Tie

Black

100% polyester cross weave

Conventional ladies bow tie

C.14 Pantyhose

Colour: Blackmail

Extra sheer

C.15 Metal Cap Badges

For peak caps

As for the different ranks

With bolt and nut fitting

C.16 Metal Name Tag

Coat of arms printed on left side

Gold background

Black lettering and border

Initials and Surname

Fully glazed

Magnetic attachment

C.17 Metal Rank Markings

On bar

Black background

Fully glazed

Gold markings

With magnetic attachment

Same as the ones in use in the department

For the following ranks: Crossed Axes

Crossed trumpets

Double-crossed trumpets

Triple crossed trumpets

Single V-bar

Double V-bar

1 Star

2 Stars

5 Stars

C.18 Metal Chest Shield

As supplied by NDM

Magnetic attachment

C.19 T-shirt

Plain white t-shirt

D. SWIFT WATER RESCUE PPE



SWIFT WATER RESCUE PPE AND PROTECTIVE CLOTHING		
Item Description	Unit per Official	Quantity
Personal Floating Device (PFD)	1	60
River knife	1	60
Helmet- whitewater application	1	60
Wetsuits	1	60
River Booties or sneaker for swimming	1	60
River gloves	1	60
River Whistle	1	60

- Personal Flotation Device (PFD) – type III or V
- River knife (one handed accessible) – a backup knife stored in PFD pocket.
- Helmet intended for whitewater application
- Wetsuits
- River booties or sneakers appropriate for river swimming – closed toed shoes with a grippy sole
- River gloves
- River whistle (one handed accessible and attached to your PFD)

E. WORKMANSHIP AND MEASUREMENT

E.1 Workmanship

The workmanship used in the manufacturing of the uniform covered by this specification, shall be of a consistently high standard. The manufacturer shall ensure that the high standard is maintained throughout the period of manufacture. All uniform must carry a guarantee of not less than Twelve months.

E.2 Measurement

All measurements and size confirmations will be done by the supplier upon the receipt of appointment before commencing with the actual production. Current staff complement sizes are attached.