



**RETURN BIDS TO:  
RETOURNER LES SOUMISSIONS À:**

**Bid Receiving - PWGSC / Réception des  
soumissions - TPSGC**  
11 Laurier St./ 11, rue Laurier  
Place du Portage, Phase III  
Core 0B2 / Noyau 0B2  
Gatineau, Québec K1A 0S5  
Bid Fax: (819) 997-9776

**REQUEST FOR PROPOSAL  
DEMANDE DE PROPOSITION**

**Proposal To: Public Works and Government  
Services Canada**

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

**Proposition aux: Travaux Publics et Services  
Gouvernementaux Canada**

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

**Comments - Commentaires**

<b>Title - Sujet</b> COMBAT UTILITY GARMENTS	
<b>Solicitation No. - N° de l'invitation</b> W6399-15GB09/A	<b>Date</b> 2016-01-04
<b>Client Reference No. - N° de référence du client</b> W6399-15GB09	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$PR-707-68748	
<b>File No. - N° de dossier</b> pr707.W6399-15GB09	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2016-02-05</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Standard Time EST
<b>F.O.B. - F.A.B.</b> Specified Herein - Précisé dans les présentes <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input checked="" type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Elder, Sylvie	<b>Buyer Id - Id de l'acheteur</b> pr707
<b>Telephone No. - N° de téléphone</b> (873) 469-3172 ( )	<b>FAX No. - N° de FAX</b> (819) 956-5454
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>  Specified Herein Précisé dans les présentes	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

**Vendor/Firm Name and Address**

**Raison sociale et adresse du  
fournisseur/de l'entrepreneur**

**Issuing Office - Bureau de distribution**

Clothing and Textiles Division / Division des vêtements et  
des textiles  
11 Laurier St./ 11, rue Laurier  
6A2, Place du Portage  
Gatineau, Québec K1A 0S5

<b>Delivery Required - Livraison exigée</b> See Herein	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm</b> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

## **TABLE OF CONTENTS**

### **PART 1 - GENERAL INFORMATION**

- 1.1 SECURITY REQUIREMENT
- 1.2 REQUIREMENT
- 1.3 DEBRIEFINGS
- 1.4 TRADE AGREEMENTS
- 1.5 CANADIEN CONTENT

### **PART 2 - BIDDER INSTRUCTIONS**

- 2.1 STANDARD INSTRUCTIONS, CLAUSES AND CONDITIONS
- 2.2 SUBMISSION OF BIDS
- 2.3 ENQUIRIES - BID SOLICITATION
- 2.4 APPLICABLE LAWS
- 2.5 SPECIFICATIONS AND STANDARDS
- 2.6 TRANSPORTATION COSTS INFORMATION

### **PART 3 - BID PREPARATION INSTRUCTIONS**

- 3.1 BID PREPARATION INSTRUCTIONS

### **PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION**

- 4.1 EVALUATION PROCEDURES
- 4.2 BASIS OF SELECTION
- 4.3 CONTRACT FINANCIAL SECURITY
- 4.4 SECURITY DEPOSIT DEFINITION

### **PART 5 – CERTIFICATIONS**

- 5.1 CERTIFICATIONS REQUIRED WITH THE BID
- 5.1 CERTIFICATIONS PRECEDENT TO CONTRACT AWARD AND ADDITIONAL INFORMATION

### **PART 6 - RESULTING CONTRACT CLAUSES**

- A. TRIAL CONTRACT
  - 6.A.1 SECURITY REQUIREMENT
  - 6.A.2 REQUIREMENT
  - 6.A.3 STANDARD CLAUSES AND CONDITIONS
  - 6.A.4 TERM OF CONTRACT
  - 6.A.5 AUTHORITIES
  - 6.A.6 PAYMENTS
  - 6.A.7 CERTIFICATIONS
  - 6.A.8 INVOICING INSTRUCTIONS
  - 6.A.9 APPLICABLE LAWS
  - 6.A.10 PRIORITY OF DOCUMENTS
  - 6.A.11 DEFENCE CONTRACT
  - 6.A.12 MATERIALS: CONTRACTOR TOTAL SUPPLY
  - 6.A.13 PLANT LOCATION

- 6.A.14 SUBCONTRACTOR(S)
- 6.A.15 OVERSHIPMENT
- 6.A.16 ORIGIN OF WORK - DISCLOSURE OF INFORMATION

#### B.CONTRACT

- 6.B.1 SECURITY REQUIREMENT
- 6.B.2 REQUIREMENT
- 6.B.3 STANDARD CLAUSES AND CONDITIONS
- 6.B.4 TERM OF CONTRACT
- 6.B.5 AUTHORITIES
- 6.B.6 PAYMENT
- 6.B.7 INVOICING INSTRUCTIONS
- 6.B.8 CERTIFICATIONS
- 6.B.9 APPLICABLE LAWS
- 6.B.10 PRIORITY OF DOCUMENTS
- 6.B.11 DEFENCE CONTRACT
- 6.B.12 SACC MANUAL CLAUSES
- 6.B.13 MATERIALS: CONTRACTOR TOTAL SUPPLY
- 6.B.14 PROCEDURES FOR DESIGN CHANGE/DEVIATIONS
- 6.B.15 PLANT CLOSING
- 6.B.16 PLANT LOCATION
- 6.B.17 SUBCONTRACTOR(S)
- 6.B.18 ORIGIN OF WORK - DISCLOSURE OF INFORMATION
- 6.B.19 OVERSHIPMENT
- 6.B.20 PRE-PRODUCTION SAMPLES
- 6.B.21 SPECIFICATIONS AND STANDARDS
- 6.B.22 FINANCIAL SECURITY

#### LIST OF ANNEXES

##### ANNEX "A" – REQUIREMENT

1. TECHNICAL REQUIREMENT
2. ADDRESSES
3. DELIVERABLES
4. "AS AND WHEN REQUESTED" QUANTITIES
5. OPTION QUANTITIES

ANNEX "B" – PERFORMANCE AND TECHNICAL SPECIFICATIONS FOR THE COMBAT UTILITY GARMENT,

APPENDIX 1 TO ANNEX B – COMBAT UTILITY GARMENT SKETCHES

ANNEX "C" – PROPOSAL REQUIREMENTS AND BID EVALUATION PLAN (**PHASE 1**) **FOR THE** COMBAT UTILITY GARMENT,

ANNEX "D" – DEPARTMENT OF NATIONAL DEFENCE (DND) PROOF OF CONCEPT TRIALS FOR THE COMBAT UTILITY GARMENT,

APPENDIX 1 TO ANNEX D - PROOF OF CONCEPT TRIALS

APPENDIX 2 TO ANNEX D - TRIAL QUESTIONNAIRE – FIT SIZING (ACTIVITY 1)

APPENDIX 3 TO ANNEX D – TRIAL QUESTIONNAIRE – OPERATIONAL TASK EFFECTIVENESS (ACTIVITY 2)

APPENDIX 4 TO ANNEX D – TRIAL QUESTIONNAIRE – DURABILITY (ACTIVITY 3)

ANNEX E - STATEMENT OF WORK (**PHASE 2**) **FOR THE** COMBAT UTILITY GARMENT,

APPENDIX 1 TO ANNEX E-OPTIONAL QUANTITIES

ANNEX "F" TO PART 5 – BID SOLICITATION

- FEDERAL CONTRACTORS PROGRAM FOR EMPLOYMENT EQUITY – CERTIFICATION

## **PART 1 - GENERAL INFORMATION**

### **1.1 Security Requirement**

There is no security requirement associated with this bid solicitation.

### **1.2 Requirement**

DND has a requirement for a special purpose Combat Utility Garment to support training and operations where standard Canadian Forces clothing is unsuitable. The uniform will be made from light-weight, breathable synthetic material printed with the MULTICAM® camouflage pattern and will consist of one pair of pants and one jacket. The uniform will incorporate special purpose features as well as integrated knee and elbow protection.

### **1.3 Debriefings**

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

### **1.4 Trade Agreements**

The requirement is subject to the provisions the Agreement on Internal Trade (AIT).

### **1.5 Canadian Content**

The requirement is subject to a preference for Canadian goods

## **PART 2 - BIDDER INSTRUCTIONS**

### **2.1 Standard Instructions, Clauses and Conditions**

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the *Standard Acquisition Clauses and Conditions Manual* (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2015/07/03) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days  
Insert: 180 days

### **2.2 Submission of Bids**

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

### **2.3 Enquiries - Bid Solicitation**

All enquiries must be submitted in writing to the Contracting Authority no later than seven (7) calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly

marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

## 2.4 Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidders.

## 2.5 Specifications and Standards

### 2.5.1 Canadian General Standards Board (CGSB) - Standards

A copy of the CGSB Standards referred to in the bid solicitation is available and may be purchased from:

Canadian General Standards Board  
Place du Portage III, 6B1  
11 Laurier Street  
Gatineau, Québec  
Telephone: (819) 956-0425 or 1-800-665-CGSB (Canada only)  
Fax: (819) 956-5740  
E-mail: [ncr.cgsb-ongc@pwgsc-tpsgc.gc.ca](mailto:ncr.cgsb-ongc@pwgsc-tpsgc.gc.ca)  
CGSB Website: <http://www.tpsgc-pwgsc.gc.ca/ongc-cgsb/index-eng.html>

## 2.6 Transportation Costs Information

The Bidder is requested to provide the following information concerning transportation costs for the delivery of the units to destination:

- (a) shipping weight by unit; \_\_\_\_\_
- (b) number of items by unit; \_\_\_\_\_
- (c) cubic measurement by unit; \_\_\_\_\_
- (d) number of units per shipment: \_\_\_\_\_
- (e) name of shipping point; \_\_\_\_\_
- (f) recommended method of shipment and carrier \_\_\_\_\_
- (g) Total cost \$ \_\_\_\_\_

## PART 3 - BID PREPARATION INSTRUCTIONS

### 3.1 Bid Preparation Instructions

Canada requests that bidders provide their bid in separately bound sections as follows:

- Section I: Technical Bid ( 3 hard copies) and 3 soft copies on DVD (R)
- Section II: Financial Bid ( 1 hard copy)
- Section III: Certifications (1 hard copy)
- Section IV: Additional Information (1 hard copy)

If there is a discrepancy between the wording of the soft copy and the hard copy, the wording of the hard copy will have priority over the wording of the soft copy.

Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.

Canada requests that Bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation;

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process Policy on Green Procurement (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, Bidders should:

1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and

2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

3) Green Initiatives (for PWGSC information only)

Bidders are requested to provide details of their policies and practices in relation to the following initiatives:

- environmentally responsible manufacturing;
- environmentally responsible waste disposal;
- waste reduction;
- packaging;
- re-use strategies;
- recycling.

### **Section I: Technical Bid**

In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work (Part 4, Evaluation Procedures, 4.1.1 Technical Evaluation) .

### **Section II: Financial Bid**

Bidders must submit their financial bid in accordance with the Basis of Payment. The total amount of Applicable Taxes must be shown separately.

#### **3.1.1 Exchange Rate Fluctuation**

C3011T 2013/11/06 Exchange Rate Fluctuation

### **Section III: Certifications**

Bidders must submit the certifications required under Part 5.

### **Section IV: Additional Information**

#### **3.1.2 Origin of Work**

For each line item, bidders must identify the name(s) of the country or countries where the apparel goods are cut (or knit to shape) and sewn, regardless of whether the work is to be performed by the Bidder or one of its subcontractor(s).

The following information must be provided for each location where any of the goods are cut (or knit to shape) or sewn:

Line Item number \_\_\_\_\_  
Country: \_\_\_\_\_

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(Bidders must add additional lines if there is more than one manufacturer or one country per line item.)

Bidders must immediately inform Canada in writing of any and all changes affecting the information provided under this clause during the entire bid validity period.

## **PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION**

### **4.1. Evaluation procedures**

(a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.

(b) An evaluation team composed of representatives of Canada which may include Contractors will evaluate the bids.

(c) The evaluation team will determine first if there are two or more bids with a valid Canadian Content certification. In that event, the evaluation process will be limited to the bids with the certification; otherwise, all bids will be evaluated. If some of the bids with a valid certification are declared non-responsive, or are withdrawn, and less than two responsive bids with a valid certification remain, the evaluation will continue among those bids with a valid certification. If all bids with a valid certification are subsequently declared non-responsive, or are withdrawn, then all the other bids received will be evaluated.

(d) The evaluation will be conducted in phases

Phase I : Mandatory Criteria Screening  
Phase II : Compatibility assessment (trial)  
Phase III: Financial evaluation

#### **4.1.1 Technical Evaluation**

##### **4.1.1.1 Phase I Mandatory Criteria Screening**

As part of the technical evaluation, to confirm a Bidder's capability of meeting the technical requirements, items listed in Annex C must be provided with the bid at time and place of bid closing at no charge to Canada.

###### **4.1.1.1.1.Samples**

The Bidder must ensure that the required pre-award samples are manufactured in accordance with the technical requirement and are fully representative of the bid submitted. Rejection of the pre-award samples will result in the bid being declared non-responsive.

The laboratory report and test results must be dated within six months of the Request for Proposal posting date.

The pre-award samples will be evaluated for quality of workmanship and conformance to specified materials and measurements.

The bid will be evaluated in accordance with the Compliance Matrix in Annex C and samples. The evaluation will be conducted on the supplied information only. All mandatory criteria must be met or the bid will be deemed non-compliant. Failure to provide sufficient details in the bid submission to evaluate the bid against the mandatory criteria will also deem the bid non-compliant. Even if a bid fails to meet as few as one mandatory criterion that bid will be non compliant and will be given no further consideration. Only compliant Bidders will proceed to Phase II.

**4.1.1.1.2 Phase II**

- (a) Following the award of the Trial Contracts, the Contractor must supply 6 (six) each Combat Utility Jackets and Pants in the sizes specified at Paragraph 6.A.2 in accordance with the Performance and Technical Specifications at Annex B within 60 calendar days from the contract award date. Failure to supply the six (6) of each Combat Utility Jackets and Pants within the specified time frame will result in the termination of the Trial Contract for default. If the Trial Contract is terminated for default, the bidder's bid will be declared non-responsive. The evaluation process will be conducted in parts as follows:

**Part I: Verification and Evaluation Trials**

Each of the Combat Utility Garments supplied by the Bidders will be subjected to the DND conducted verifications and trials as follows:

Proof of Concept Trial – The Combat Utility Garments will undergo a multi-part "Proof of Concept" trial to test the uniforms for compatibility with equipment and functionality in simulated field conditions. Conduct of the trials will be based upon a random order between the various Combat Utility Garment bids. Following the trial, each operator will complete a human factor assessment designed to quantify the useability of the uniform in a combat environment. The measured scores and human factor assessment will be used to determine the Technical Merit (performance) score. A minimum Technical Merit score must be achieved in the Field Trial assessment to be deemed compliant. The Proof of Concept trial plan is detailed in Annex D,

**Part II: Determination of Technical Merit Score**

The objective of assigning a Technical Merit Score is to evaluate the “value added” over and above meeting the mandatory technical requirements. The “value added” through performance measurement is not considered mandatory, but is deemed to have additional value to the overall comfort/usability of the item. Upon completion of the Proof of Concept Field Trial, each participant will complete a questionnaire that rates the Combat Utility Garment in various categories as detailed in Table 1. The total Performance Score is the sum of the average score for all participants for the Combat Utility Garment across all categories of performance measurement.

Table 1: Performance Measurement

Test	Category	Score
1	Activity 1 - Fit Sizing	
1A	Fit Sizing (Pre-Washed)	out of 5
1B	Fit Sizing (Post-Washed)	out of 5
2	Activity 2 - Operational Task Effectiveness	
	Mobility	out of 10
	Shooting	out of 10
3	Activity 3 - Durability	
	Durability	out of 5
	<b>TOTAL</b>	<b>out of 35</b>

For each test as listed in Table 1: Performance Measurement, the final score will be determined by taking all of the results from that test, and then calculating the average (arithmetic mean). The average of all participants for that test will be the final score for that test item. A minimum of 25 points must be achieved in the Performance Measurement of the bid will be deemed non-compliant and given no further consideration.

The Technical Merit Score (out of 100) is the Performance Score of the Combat Utility Garment being evaluated divided by the Highest Performance Score achieved, then multiplying this ratio by 100 in order to get a score out of 100, as follows:

$$\text{Technical Merit Score} = 100 \times (\text{Performance Score} / \text{Highest Performance Score})$$

The Combat Utility Garments receiving the highest Performance Score will get a Technical Merit Score of 100, and the remaining systems will have a Technical Merit Score that is a fraction of 100 based upon the total Performance Score for that system in comparison to the highest Performance Score.

#### 4.1.2 Financial Evaluation

##### 4.1.2.1 Mandatory Financial Criteria

- a. The Bidder must submit firm unit prices in Canadian dollars, applicable taxes are excluded, DDP (within 250 kilometres from the National Capital Region) Incoterms 2000, transportation costs included, all applicable Customs Duties and Excise taxes included.
- b. The Bidder must submit firm unit pricing for all items including options and “as and when requested” quantities. The Bidder is requested to quote firm unit pricing at no more than two decimal points.

##### 4.1.2.2 Financial Evaluation Methodology

For the purpose of establishing an offer price for evaluation purposes only, each of the firm unit prices will be multiplied by the estimated quantity per year. The resultant total for all firm unit prices will be added together to establish the Total Offer Price.

##### Price Score

The proposal price is the sum of all costs associated with the procurement of the Combat Utility Garments for all years. The lowest price of the compliant proposals becomes the standard by which the remainder of the proposal's are evaluated. Each proposal is evaluated by taking the lowest proposal price and dividing it by the price of the proposal being evaluated, then multiplying this ratio by 100 in order to get a score out of 100, as follows:

$$\text{Price Score} = 100 \times (\text{Lowest Proposal Price} / \text{Current Proposal Price})$$

The lowest price of the compliant proposals will have a Price Score of 100, and the remainder of the compliant proposals will have price score between 0-100 based on how much they differ from the lowest price.

##### 4.1.2.3 SACC Manual clause

A9033T 2012/07/16 Financial Capability

#### 4.2 Basis of Selection

A bid must comply with all requirements of the bid solicitation and meet all mandatory technical and financial evaluation criteria to be declared responsive.

##### 4.2.1 Basis of Selection – Trial Contracts

All responsive bids of Phase I will be recommended for the award of a Trial Contract.

##### 4.2.2 Basis of Selection – Main Contract

1. To be declared responsive for Phase II, a bid must obtain the required minimum of 25 points out of 35 in the Performance Measurement.

2. The responsive bid with the highest combined rating of technical merit and price will be recommended for the award of the Main Contract. The ratio will be 60% for the technical merit and 40% for the price.

3. For each responsive bid, the technical merit score and the pricing score will be added to determine its combined rating.

4. Neither the responsive bid obtaining the highest technical score nor the one with the lowest evaluated price will necessarily be accepted.

#### **4.3 Contract Financial Security**

1. If this bid is accepted, the Bidder may be required to provide contract financial security, after the bid closing date and within 10 calendar days from receipt of a written request from the Contracting Authority.
  - (a) a security deposit as defined in clause "Security Deposit Definition" in the amount of up to ten percent (10%) of the contract price.
2. Security deposits in the form of government guaranteed bonds with coupons attached will be accepted only if all coupons that are unmaturing, at the time the security deposit is provided, are attached to the bonds. The Contractor must provide written instructions concerning the action to be taken with respect to coupons that will mature while the bonds are pledged as security, when such coupons are in excess of the security deposit requirement.
3. If Canada does not receive the required financial security within the specified period, Canada may, as its discretion, accept another offer, issue a new bid solicitation, award a contract or reject all the bids.

#### **4.4 Security Deposit Definition**

1. "security deposit" means
  - (a) a bill of exchange that is payable to the Receiver General for Canada, and certified by an approved financial institution or drawn by an approved financial institution on itself; or
  - (b) a Government guaranteed bond; or
  - (c) an irrevocable standby letter of credit, or
  - (d) such other security as may be considered appropriate by the Contracting Authority and approved by Treasury Board;
2. "approved financial institution" means
  - (a) any corporation or institution that is a member of the Canadian Payments Association;
  - (b) a corporation that accepts deposits that are insured by the Canada Deposit Insurance Corporation or the "Régie de l'assurance-dépôts du Québec" to the maximum permitted by law;
  - (c) a credit union as defined in paragraph 137(6) the *Income Tax Act*;
  - (d) a corporation that accepts deposits from the public, if repayment of the deposits is guaranteed by Canadian province or territory; or
  - (e) the Canada Post Corporation.
3. "government guaranteed bond" means a bond of the Government of Canada or a bond unconditionally guaranteed as to principal and interest by the Government of Canada that is:
  - (a) payable to bearer;
  - (b) accompanied by a duly executed instrument of transfer of the bond to the Receiver General for Canada in accordance with the *Domestic Bonds of Canada Regulations*;
  - (c) registered in the name of the Receiver General for Canada.
4. "irrevocable standby letter of credit"
  - (a) means any arrangement, however named or described, whereby a financial institution (the "Issuer"), acting at the request and on the instructions of a customer (the "Applicant"), or on its behalf,

- (i) will make a payment to or to the order of Canada, as the beneficiary;
  - (ii) will accept and pay bills of exchange drawn by Canada;
  - (iii) authorizes another financial institution to effect such payment, or accept and pay such bills of exchange; or
  - (iv) authorizes another financial institution to negotiate, against written demand(s) for payment, provided that the conditions of the letter of credit are complied with.
- (b) must state the face amount which may be drawn against it;
  - (c) must state its expiry date;
  - (d) must provide for sight payment to the Receiver General for Canada by way of the financial institution's draft against presentation of a written demand for payment signed by the authorized departmental representative identified in the letter of credit by his/her office;
  - (e) must provide that more than one written demand for payment may be presented subject to the sum of those demands not exceeding the face amount of the letter of credit;
  - (f) must provide that it is subject to the International Chamber of Commerce (ICC) Uniform Customs and Practice (UCP) for Documentary Credits, 2007 Revision, ICC Publication No. 600. Pursuant to the ICC UCP, a credit is irrevocable even if there is no indication to that effect; and
  - (g) must be issued (Issuer) or confirmed (Confirmer), in either official language, by a financial institution that is a member of the Canadian Payments Association and is on the letterhead of the Issuer or Confirmer. The format is left to the discretion of the Issuer or Confirmer.

## **PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION**

Bidders must provide the required certifications and additional information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

### **5.1 Certifications Required with the Bid**

Bidders must submit the following duly completed certifications as part of their bid.

#### **5.1.1 Declaration of Convicted Offences**

As applicable, pursuant to subsection Declaration of Convicted Offences of section 01 of the Standard Instructions, the Bidder must provide with its bid, a completed Declaration Form (<http://www.tpsgc-pwgsc.gc.ca/ci-if/formulaire-form-eng.html>), to be given further consideration in the procurement process.

#### **5.1.2. Additional certifications required with the bid**

##### **5.1.2.1. Canadian Content Certification**

###### **5.1.2.1.1 SACC Manual clause A3050T (2014/11/27) Canadian Content Definition**

###### **Rules of Origin - Apparel**

With reference to the Canadian Content Certification clause, apparel goods are considered to be Canadian goods according to the North American Free Trade Agreement Rules of Origin as follows:

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Apparel goods classified in Chapters 61 and 62 of the Harmonized System that are both cut (or knit to shape) and sewn in Canada will be considered Canadian goods.

### **Canadian Content Certification**

This procurement is conditionally limited to Canadian goods.

Subject to the evaluation procedures contained in the bid solicitation, bidders acknowledge that only bids with a certification that the good(s) offered are Canadian goods, as defined in clause A3050T, may be considered.

Failure to provide this certification completed with the bid will result in the goods offered being treated as non-Canadian goods.

The Bidder certifies that:

( ) the goods offered are Canadian goods as defined in paragraph 1 of clause A3050T.

### **Plant Location**

Items will be manufactured at: \_\_\_\_\_

## **5.2 Certifications Precedent to Contract Award and Additional Information**

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

### **5.2.1 Integrity Provisions – List of Names**

Bidders who are incorporated, including those bidding as a joint venture, must provide a complete list of names of all individuals who are currently directors of the Bidder.

Bidders bidding as sole proprietorship, as well as those bidding as a joint venture, must provide the name of the owner(s).

Bidders bidding as societies, firms or partnerships do not need to provide lists of names.

### **5.2.2 Federal Contractors Program for Employment Equity - Bid Certification**

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list ([http://www.labour.gc.ca/eng/standards\\_equity/eq/emp/fcp/list/inelig.shtml](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)) available from Employment and Social Development Canada (ESDC) - Labour's website.

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

Canada will also have the right to terminate the Contract for default if a Contractor, or any member of the Contractor if the Contractor is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list during the period of the Contract.

The Bidder must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification, before contract award. If the Bidder is a Joint Venture, the Bidder must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification, for each member of the Joint Venture.

## 5.2.3 Additional Certifications Precedent to Contract Award

### 5.2.3.1 Samples and Production Certification

The Bidder certifies that:

- ( ) the manufacturer that produced the pre-award samples will remain unchanged for the pre-production samples and full production of the contract quantity.

## PART 6 - RESULTING CONTRACT CLAUSES

### 6.A. Trial contract

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

#### 6.A.1 Security Requirements

**6.A.1.1** There is no security requirement applicable to this Contract.

#### 6.A.2. Requirement

The Contractor must deliver the following:

- (a) Six (6) Combat Utility Garment Jackets as follows:
  - i. Two (2) in size Medium;
  - ii. Three (3) in size Large; and
  - iii. One (1) in size Extra-Large;
  
- (b) Six (6) Combat Utility Garment Pants as follows:
  - i. Two (2) in waist size 78.4 (32) Regular;
  - ii. Three (3) in waist size 83.3 (34) Regular; and
  - iii. One (1) in waist size 88.2 (36) Regular.

They must be shipped to the following address:

Department of National Defence  
8355 Franktown Rd, RR1  
Richmond, Ont. K0A 2Z0  
Attn: (To be advised at contract)

Combat Utility Jackets and Pants and packaging must not have any identifiable markings, including stamps, hang tag, markings inside or outside of the garments that identifies the bidder. Non-compliance will result in the rejection of the goods.

The Contractor shall establish, implement, document and maintain a quality system that ensures conformance to contractual requirements and meets the requirements of the ISO 9001 or equivalent quality system model during performance of this contract. The Contractor shall conduct Quality Conformance Inspections and Tests during manufacture in accordance with the Contractor's standard acceptance test plan.

#### 6.A.3 Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the *Standard Acquisition Clauses and Conditions Manual* (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

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### 6.A.3.1 General Conditions

2030 (2015/09/03), General Conditions - Goods (Higher Complexity), apply to and form part of the Contract.

### 6.A.4. Term of contract

#### 6.A.4.1. Delivery Required (Mandatory)

The delivery of the Trial Quantity must be completed within 60 calendar days from the effective date of the Contract.

Failure to submit the Trial Quantity within the specified time frame will be grounds for termination of the Contract for default and the bidder's bid submission declared non-responsive.

#### 6.A.4.2 Shipping Instructions - Delivery at Destination

1. Goods must be consigned to the destination specified in the Contract and delivered:

- (a) Delivered Duty Paid (DDP) (Richmond, Ont) Incoterms 2000 for shipments from commercial contractor.

#### 6.A.4.3 Preparation for Delivery

The Contractor must prepare all items for delivery in accordance with the latest issue of the Canadian Forces Packaging Specification D-LM-008-036/SF-000, DND Minimum Requirements for Manufacturer's Standard Pack.

The Contractor must package all items as specified in Annex E, at 3.3 and 3.4.

#### 6.A.4.4 SACC Manual Clauses

D5545C 2010/08/16 ISO 9001:2008 - Quality Management Systems - Requirements (QAC)

### 6.A.5 Authorities

#### 6.A.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Sylvie Elder  
Public Works and Government Services Canada  
Acquisitions Branch  
Commercial and Consumer Products Directorate (CCPD)  
Clothing & Textiles Division  
Place du Portage, Phase III, 6A2-8  
11 Laurier Street  
Gatineau, Quebec K1A 0S5  
Telephone : 873-469-3172  
Facsimile: 819-956-5454  
E-mail address: sylvie.elder@tpsgc-pwgsc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

#### 6.A.5.2 Technical Authority

The Technical Authority for this Contract is:

#### Mailing/Shipping Address

Department of National Defence

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101 Colonel By Drive  
Ottawa, Ontario  
K1A 0K2  
Attn: DSR 3 (to be advised at contract)

The Technical Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Technical Authority, however the Technical Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

#### **6.A.5.3 Procurement Authority**

The Procurement Authority for the Contract is:

##### **Mailing/Shipping Address**

Department of National Defence  
101 Colonel By Drive  
Ottawa, Ontario  
K1A 0K2  
Attn: DLP (to be advised at contract)

The Procurement Authority is the representative of the department or agency for whom the Work is being carried out under the Contract. The Procurement Authority is responsible for the implementation of tools and processes required for the administration of the Contract. The Contractor may discuss administrative matters identified in the Contract with the Procurement Authority however the Procurement Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of Work can only be made through a contract amendment issued by the Contracting Authority.

#### **6.A.5.4 Contractor's Representative**

The person responsible for:

##### **General enquiries**

Name: \_\_\_\_\_  
Telephone No.: \_\_\_\_\_  
Facsimile No.: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

##### **Delivery follow-up**

Name: \_\_\_\_\_  
Telephone No.: \_\_\_\_\_  
Facsimile No.: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

### **6.A.6 Payments**

#### **6.A.6.1 Basis of Payment – Firm Unit Prices**

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm unit prices as specified in **Annex A (firm quantity)** for a cost of \$ (amount to be inserted at contract award). Customs duties are **included** and Applicable Taxes are extra.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

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#### **6.A.6.2 SACC Manual Clauses**

H1000C 2008/05/12 Single Payments

#### **6.A.7 Invoicing instructions**

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.

2. Invoices must be distributed as follows:

(a) The original and one (1) copy must be forwarded to the following address for certification and payment

National Defence Headquarters  
MGen George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, ON K1A 0K2  
Attn: DLP \_\_\_\_\_  
Email: \_\_\_\_\_ (to be inserted at contract award)

(b) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

(c) One (1) copy must be forwarded to the consignee.

#### **6.A.8 Certifications**

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing additional information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the Contract. If the Contractor does not comply with any certification, fails to provide the additional information, or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

##### **6.A.8.1 SACC Manual Clauses**

A3060C 2008/05/12 Canadian Content Certification

#### **6.A.9 Applicable laws**

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

#### **6.A.10 Priority of documents**

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- a) The Articles of Agreement;
- b) The general conditions 2030 (2015/09/03), General Conditions - Goods (Medium Complexity);
- c) Annex B, Performance and technical specifications for the combat utility garment;
- d) Annex A, Requirement;
- e) Annex C, Evaluation plan;
- f) The Contractor's bid dated \_\_\_\_\_ .

#### **6.A.11 Defence contract**

SACC Manual Clause A9006C (2012/07/16) Defence Contract

#### **6.A.12 Materials: Contractor Total Supply**

The Contractor will be responsible for obtaining all materials required in the manufacture of the items specified. The delivery stated for the items allows the necessary time to obtain such materials.

#### **6.A.13 Plant Location**

Items will be manufactured at:

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#### **6.A.14 Subcontractor(s)**

The following subcontractor(s) will be utilized in the performance of the contract.

Name of Company: \_\_\_\_\_

Location: \_\_\_\_\_

Value of subcontract: \$ \_\_\_\_\_

Nature of subcontracting work performed: \_\_\_\_\_

Subcontractors, other than those listed above, may not be utilized without the written permission of Canada.

#### **6.A.15 Overshipment**

Overshipment will not be accepted unless prior approval is obtained from the Contracting Authority.

#### **6.A.16 Origin of work – Disclosure of information**

1. For each line item, the Contractor must specify the name(s) of all countries where the apparel goods are cut (or knit to shape) or sewn, regardless of whether the work is to be performed by the Contractor or one of its subcontractor(s).

2. The Contractor agrees that Canada may publicly disclose the information provided with respect to the countries of origin.

3. The Contractor must immediately inform Canada in writing of any and all changes affecting the information provided under this clause during the entire contract period.

#### **6.B. Main contract**

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

##### **6.B.1 Security Requirements**

**6.B.1.1** There is no security requirement applicable to this Contract.

##### **6.B.2 Requirement**

The Contractor must provide the items detailed under the "Requirement" at Annex A.

##### **6.B.3 Standard Clauses and Conditions**

All clauses and conditions identified in the Contract by number, date and title are set out in the *Standard Acquisition Clauses and Conditions Manual* (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

##### **6.B.3.1 General Conditions**

2030 (2015/09/03), General Conditions - Goods (Higher Complexity), apply to and form part of the Contract.

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#### 6.B.4. Term of contract

##### Delivery Required (Desirable) - Firm Quantity

###### Delivery - Firm Quantity – Phased jackets

The first delivery must be made within 90 calendar days from the effective date of the written notice of approval of pre-production samples. The quantity delivered must be \_\_\_\_\_ each. The balance must be delivered at the rate of \_\_\_\_\_ each weekly after the first delivery until completion of the Contract.

###### Delivery - Firm Quantity – Phased pants

The first delivery must be made within 90 calendar days from the effective date of the written notice of approval of pre-production samples. The quantity delivered must be \_\_\_\_\_ pairs. The balance must be delivered at the rate of \_\_\_\_\_ pairs weekly after the first delivery until completion of the Contract.

###### Delivery - Option Quantity jackets

The delivery of the option quantity must commence within \_\_\_\_\_ calendar days from receipt of the contract amendment and after final delivery of the contract quantity. The quantity delivered must be \_\_\_\_\_ each. The balance must be shipped at a rate of \_\_\_\_\_ each weekly after the first delivery until completion of the option quantity.

###### Delivery - Option Quantity pants

The delivery of the option quantity must commence within \_\_\_\_\_ calendar days from receipt of the contract amendment **and** after final delivery of the contract quantity. The quantity delivered must be \_\_\_\_\_ pairs. The balance must be shipped at a rate of \_\_\_\_\_ pairs weekly after the first delivery until completion of the option quantity.

##### 6.B.4.1.1 Delivery - Appointments

The Contractor must make deliveries by appointment only. The Contractor or its carrier must arrange delivery appointments by contacting the person mentioned below. The consignee may refuse shipments when prior arrangements have not been made.

- (a) to be confirmed at contract award (250 kilometres from the National Capital Region)

##### 6.B.4.1.2 Preparation for delivery

The Contractor must prepare all items for delivery in accordance with the latest issue of the Canadian Forces Packaging Specification D-LM-008-036/SF-000, DND Minimum Requirements for Manufacturer's Standard Pack.

The Contractor must package all items as specified in Annex E, at 3.3 and 3.4.

##### 6.B.4.1.3 Bulk Shipments

For bulk shipments, all cartons must be shipped on 40" x 48" pallets shrink-wrapped or equivalent with overall height not to exceed 42".

##### 6.B.4.1.4

###### Shipping Instructions - Delivery at Destination

1. Goods must be consigned to the destination specified in the Contract and delivered:

- (a) Delivered Duty Paid (DDP) 250 kilometres from the National Capital Region Incoterms 2000 for shipments from commercial contractor.

##### 6.B.4.1.5 SACC Manual Clauses

D5545C 2010/08/16 ISO 9001:2008 - Quality Management Systems - Requirements (QAC C)  
D6010C 2007/11/30 Palletization

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## 6.B..5 Authorities

### 6.B.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Sylvie Elder  
Public Works and Government Services Canada  
Acquisitions Branch  
Commercial and Consumer Products Directorate (CCPD)  
Clothing & Textiles Division  
Place du Portage, Phase III, 6A2  
11 Laurier Street  
Gatineau, Quebec K1A 0S5  
Telephone : 873-469-3172  
Facsimile: 819-956-5454  
E-mail address: sylvie.elder@tpsgc-pwgsc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

### 6.B.5.2 Technical Authority

The Technical Authority for this Contract is:

#### Mailing/Shipping Address

Department of National Defence  
101 Colonel By Drive  
Ottawa, Ontario  
K1A 0K2  
Attn: DSR 3 \_\_\_\_\_(to be advised at contract)

The Technical Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Technical Authority, however the Technical Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

### 6.B.5.3 Procurement Authority

The Procurement Authority for the Contract is:

\_\_\_\_\_ (Name of Procurement Authority)

\_\_\_\_\_ (Title)

\_\_\_\_\_ (Organization)

\_\_\_\_\_ (Address)

Telephone: \_\_\_\_ - \_\_\_\_ - \_\_\_\_

Facsimile: \_\_\_\_ - \_\_\_\_ - \_\_\_\_

E-mail: \_\_\_\_\_(to be advised at contract)

The Procurement Authority is the representative of the department or agency for whom the Work is being carried out under the Contract. The Procurement Authority is responsible for the implementation of tools and processes required for the administration of the Contract. The Contractor may discuss administrative matters identified in the Contract with the Procurement Authority however the Procurement Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of Work can only be made through a contract amendment issued by the Contracting Authority.

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#### 6.B.5.4 Contractor's Representative

The person responsible for:

##### General enquiries

Name: \_\_\_\_\_  
Telephone No.: \_\_\_\_\_  
Facsimile No.: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

##### Delivery follow-up

Name: \_\_\_\_\_  
Telephone No.: \_\_\_\_\_  
Facsimile No.: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

#### 6.B.6 Payment

##### 6.B.6.1 Basis of Payment – Firm Unit Prices

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm unit prices, as specified in Annex A for a cost of \$ (amount to be inserted at contract award). Customs duties are included and Applicable Taxes are extra.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

##### 6.B.6.2 SACC Manual Clauses

H1001C 2008/05/12 Multiple Payments

##### 6.B.7 Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.

2. Invoices must be distributed as follows:

(a) The original and one (1) copy must be forwarded to the following address for certification and payment

National Defence Headquarters  
MGen George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, ON K1A 0K2  
Attn: DLP 6-2-4 \_\_\_\_\_  
Email: \_\_\_\_\_ (to be inserted at contract award)

One (1) copy must be forwarded to the Contracting Authority identified under the section "entitles 'Authorities' of the Contract.

(c) One (1) copy must be forwarded to the consignee.

## 6.B.8 Certifications

### 6.B.8.1 Compliance

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing additional information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the Contract. If the Contractor does not comply with any certification, fails to provide the additional information, or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

### 6.B.8.2 Federal Contractors Program for Employment Equity - Default by the Contractor

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and Employment and Social Development Canada (ESDC)-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "[FCP Limited Eligibility to Bid](#)" list. The imposition of such a sanction by ESDC will constitute the Contractor in default as per the terms of the Contract.

### 6.B.8.3 SACC Manual Clauses

A3060C 2008/05/12 Canadian Content Certification

### 6.B.9 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

### 6.B.10 Priority of Documents

If there is a discrepancy between the wordings of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- a) the Articles of Agreement;
- b) the General conditions 2030 (2015/09/03), General Conditions - Goods (Higher Complexity);
- c) Annex E, Statement of Work;
- d) Annex B, Performance and Technical Specifications;
- e) the Contractor's bid dated \_\_\_\_\_

### 6.B.11 Defence Contract

SACC Manual clause [A9006C](#) (2012/07/16) Defence Contract

### 6.B.12 SACC Manual Clauses

C2608C 2012/07/16 Canadian Customs Documentation  
C2610C 2007/11/30 Customs Duties - DND - Importer  
C2800C 2013/01/28 Priority Rating  
C2801C 2014/11/27 Priority Rating - Canadian-based Contractors  
D2000C 2007/11/30 Marking

### 6.B.13 Materials: Contractor Total Supply

The Contractor will be responsible for obtaining all materials required in the manufacture of the item(s) Specified. The delivery stated for the items allows the necessary time to obtain such materials.

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#### 6.B.14 Procedures for Design Change/Deviations

The Contractor must follow these procedures for any proposed design change/deviation to contract specifications.

The Contractor must complete **Part 1** to 12B the Design Change/Deviation form DND 675 and forward one (1) copy to the Technical Authority and one (1) copy to the Contracting Authority.

The Contractor will be authorized to proceed upon receipt of the design change/deviation form signed by the Contracting Authority. A contract amendment will be issued to incorporate the design change/deviation in the Contract.

#### 6.B.15 Plant Closing

The Contractor's plant closing for Christmas and summer holidays are as follows. During this time there will be no shipments.

2016-2017

Summer Holiday FROM \_\_\_\_\_ TO \_\_\_\_\_  
Christmas Holiday FROM \_\_\_\_\_ TO \_\_\_\_\_

2017-2018

Summer Holiday FROM \_\_\_\_\_ TO \_\_\_\_\_  
Christmas Holiday FROM \_\_\_\_\_ TO \_\_\_\_\_

2018-2019

Summer Holiday FROM \_\_\_\_\_ TO \_\_\_\_\_  
Christmas Holiday FROM \_\_\_\_\_ TO \_\_\_\_\_

#### 6.B.16 Plant Location

Items will be manufactured at: \_\_\_\_\_

#### 6.B.17 Subcontractor(s)

The following subcontractor(s) will be utilized in the performance of the contract.

Name of Company: \_\_\_\_\_

Location: \_\_\_\_\_

Value of subcontract: \$ \_\_\_\_\_

Nature of subcontracting work performed: \_\_\_\_\_

Subcontractors, other than those listed above, may not be utilized without the written permission of Canada.

#### 6.B.18 Origin of Work - Disclosure of Information

1. For each line item, the Contractor must specify the name(s) of all countries where the apparel goods are cut (or knit to shape) or sewn, regardless of whether the work is to be performed by the Contractor or one of its subcontractor(s).

2. The Contractor agrees that Canada may publicly disclose the information provided with respect the countries of origin.

3. The Contractor must immediately inform Canada in writing of any and all changes affecting the information provided under this clause during the entire contract period.

#### 6.B.19 Overshipment

Overshipment will not be accepted unless prior approval is obtained from the Contracting Authority.

### **6.B.20 Pre-Production Samples**

1. The Contractor must provide pre-production samples of Combat Utility Garments Jackets sizes small, medium, large, X-Large and XX-Large and Combat Utility Garments Pants sizes [cm(in)]68.6 (28), 73.5(30),78.4 (32), 83.3 (34), 88.2 (36) ,93.1 (38) and 98.0 (40) to the Technical Authority for acceptance within 60 calendar days from date of contract award .

Note: Fewer sizes than identified above may be delivered for follow-on samples at the discretion of the DND TA.

2. Final quantity production must not commence until the pre-production samples have been waived or approved by DND, as applicable. The pre-production samples must be fully compliant to the technical requirement of this Contract and must be completely representative of the final production, being made from parts and material as specified in Annex B and by equipment and processes that will be used in final quantity production. The pre-production evaluation will be done through a technical verification performed by a team of DND Subject Matter Experts (SMEs) for the quality of workmanship and for conformance to materials and designs as specified in Annex B. A maximum of three (3) pre-production evaluation rounds will be conducted with each round to take no more than thirty (30) days to complete from time of DND identifying required changes to delivery of the next pre-production samples by the Contractor. Following each evaluation, the DND TA will arrange for mutually convenient time at the Contractor's facility to discuss any required changes.

3. If the pre-production samples are accepted by either full acceptance or conditional acceptance, the Contractor must proceed with production as per the Contract requirements.

4. Rejection by the Technical Authority of the third pre-production samples submitted by the Contractor for failing to meet the contract requirements will be grounds for termination of the Contract for default.

5. The Contractor must carry out all required inspection and tests to verify conformance to the technical requirements of the Contract.

6. The pre-production samples submitted by the Contractor will remain the property of Canada.

7. The Technical Authority will notify the Contractor, in writing, of the full acceptance, conditional acceptance, or rejection of the pre-production samples. A copy of this notification will also be provided by the Technical Authority to the Contracting Authority. The notice of the full acceptance or conditional acceptance does not relieve the Contractor from complying with all requirements and conditions of the Contract.

8. The Contractor must not commence or continue with production of the items and must not make any deliveries until the Contractor has received a written notification from the Technical Authority that the pre-production samples are fully acceptable or conditionally acceptable. Any production of items before pre-production sample acceptance will be at the sole risk of the Contractor.

9. The pre-production samples may not be required if the Contractor is currently in production. The request for waiver of pre-production samples must be made by the Contractor in writing to the Contracting Authority. The waiving of this requirement will be at the sole discretion of the Technical Authority and will be evidenced through a contract amendment.

### **6.B.21 Specifications and Standards**

#### **6.B.21.1 Canadian General Standards Board (CGSB) - Standards**

A copy of the CGSB Standards referred to in the Contract is available and may be purchased from:

Canadian General Standards Board  
Place du Portage III, 6B1  
11 Laurier Street  
Gatineau, Québec

Sollicitation No. - N° de l'invitation  
W6399-15GB09/A  
Client Ref. No. - N° de réf. du client  
W6399-15GB09

Amd. No. - N° de la modif.  
File No. - N° du dossier  
pr707. W6399-15GB09

Buyer ID - Id de l'acheteur  
pr707  
CCC No./N° CCC - FMS No./N° VME

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Telephone: (819) 956-0425 or 1-800-665-CGSB (Canada only)  
Fax: (819) 956-5740  
E-mail: [ncr.cgsb-ongc@pwgsc-tpsgc.gc.ca](mailto:ncr.cgsb-ongc@pwgsc-tpsgc.gc.ca)  
CGSB Website: <http://www.tpsgc-pwgsc.gc.ca/ongc-cgsb/index-eng.html>

### **6.B.22 Financial Security**

1. Canada may convert the security deposit to the use of Canada if any circumstance exists which would entitle Canada to terminate the Contract for default, but any such conversion will not constitute termination of the Contract.

2. Where Canada so converts the security deposit:

- (a) the proceeds will be used by Canada to complete the Work according to the conditions of the Contract, to the nearest extent that it is feasible to do so and any balance left will be returned to the Contractor on completion of the warranty period; and
- (b) if Canada enters into a Contract to have the Work completed, the Contractor will:
  - (i) be considered to have irrevocably abandoned the Work; and
  - (ii) remain liable for the excess cost of completing the Work if the amount of the security deposit is not sufficient for such purpose. "Excess cost" means any amount over and above the amount of the Contract Price remaining unpaid together with the amount of the security deposit.

3. If Canada does not convert the security deposit to the use of Canada before completion of the contract period, Canada will return the security deposit to the Contractor within a reasonable time after such date.

4. If Canada converts the security deposit for reasons other than bankruptcy, the financial security must be reestablished to the level of the amount stated above so that this amount is continued and available until completion of the contract period.

**ANNEX «A»  
REQUIREMENT**

**1. TECHNICAL REQUIREMENT**

The Contractor is required to provide Canada for the Department of National Defence (*DND*) with Combat Utility Garments in accordance with the performance and technical specifications for the Combat Utility Garments dated 19 October 2015, Annex B, Annex E and contractors bid dated \_\_\_\_\_ .

**2. ADDRESSES**

<b>Destination Address</b>	<b>Invoicing Address</b>
Department of National Defence 250 kilometers of National Capital Region  Exact address to be provided after contract award	Department of National Defence Canadian Forces Operation Command 101 Colonel By Drive K1A 0K2 Attention: DLP 6-2-4

**3. DELIVERABLES**

**CONTRACT QUANTITY**

**Firm Quantity**

<b>Item</b>	<b>Description</b>	<b>Firm Quantity</b>	<b>Unit of Issue</b>	<b>Firm Unit Price, DDP, Transportation costs included, Applicable taxes extra</b>
1	Combat Utility Pants	900	Pair	\$ _____

<b>Item</b>	<b>Description</b>	<b>Firm Quantity</b>	<b>Unit of Issue</b>	<b>Firm Unit Price, DDP, Transportation costs included, Applicable taxes extra</b>
2	Combat Utility Jackets	900	Each	\$ _____

**Size-roll to be provided upon contract award.**

**Technical data in accordance with Annex E Section 2.1 must also be supplied at contract award.**

**“As and When Requested” Quantity - Special sizes**

<b>Item</b>	<b>Description</b>	<b>Estimated Quantity</b>	<b>Unit of Issue</b>	<b>Firm Unit Price, DDP, Transportation costs included, Applicable taxes extra</b>
3	Combat Utility Pants	50 20 20 20 20	Pair	\$ _____ year 1 \$ _____ year 2 \$ _____ year 3 \$ _____ year 4 \$ _____ year 5

**“As and When Requested” Quantity - Special sizes**

Item	Description	Estimated Quantity	Unit of Issue	Firm Unit Price, DDP, Transportation costs included, Applicable taxes extra
4	Combat Utility Jackets	50	Each	\$ _____ year 1
		20		\$ _____ year 2
		20		\$ _____ year 3
		20		\$ _____ year 4
		20		\$ _____ year 5

**OPTION**

Item	Description	Estimated Quantity	Unit of Issue	Firm Unit Price, DDP, Transportation costs included, Applicable taxes extra
5	Combat Utility Pants	200	Pair	\$ _____ year 1
		Per year		\$ _____ year 2
				\$ _____ year 3
				\$ _____ year 4
				\$ _____ year 5

Item	Description	Estimated Quantity	Unit of Issue	Firm Unit Price, DDP, Transportation costs included, Applicable taxes extra
6	Combat Utility Jackets.	200	Each	\$ _____ year 1
		Per year		\$ _____ year 2
				\$ _____ year 3
				\$ _____ year 4
				\$ _____ year 5

Year 1 ; if ordered (exercised) within 12 months from contract award date  
Year 2 ; if ordered (exercised) between 13 and 24 months from contract award date  
Year 3 ; if ordered (exercised) between 25 and 36 months from contract award date  
Year 4 ; if ordered (exercised) between 37 and 48 months from contract award date  
Year 5 ; if ordered (exercised) between 49 and 60 months from contract award date

**4. “AS AND WHEN REQUESTED” QUANTITIES - Identified as Items 3 and 4**

Under this Contract, the Contractor is required to provide certain goods to Canada on an “as and when requested” basis. Except as expressly provided in this Contract, Canada is not obliged to request any such goods under this Contract and this Contract does not represent a commitment to purchase such goods exclusively from the Contractor.

DND may issue orders for “as and when requested” quantities directly to the Contractor detailing the exact quantities of goods being ordered and the delivery date during the effective period and in accordance with the predetermined conditions.

Sollicitation No. - N° de l'invitation  
W6399-15GB09/A  
Client Ref. No. - N° de réf. du client  
W6399-15GB09

Amd. No. - N° de la modif.  
File No. - N° du dossier  
pr707. W6399-15GB09

Buyer ID - Id de l'acheteur  
pr707  
CCC No./N° CCC - FMS No./N° VME

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The quantity of "as and when requested" goods specified under items 3 and 4 is only an approximation of requirements.

Order for "as and when requested" quantities will be made on Form 942

The period for placing "as and when requested" orders will be 60 months from date of approval of the pre-production samples

The delivery of the "as and when requested" quantities must be made within 30 calendar days after receipt of the order document.

Deliveries made against orders of the "as and when requested" quantities will be inspected by the Consignee at destination.

DND reserves the right to order standard sizes in lieu of special sizes where the demand for special sizes is not utilized. If ordered, the prices of the garments will be the same as the prices given for the option year in which the order will be placed.

#### **Financial Limitation**

The total cost to Canada resulting from orders of "as and when requested" quantities must not exceed the sum of \$ (to be established at contract), applicable taxes extra, unless otherwise authorized in writing by the Contracting Authority. The Contractor must not be obligated to perform any work or services or supply any articles in response to orders which would cause the total Cost to Canada to exceed the said sum, unless an increase is so authorized.

#### **5. OPTION QUANTITIES - Identified as Items 5 and 6**

The Contractor grants to Canada the irrevocable option to acquire the goods described under items #5 and 6 and under the same terms and conditions and at the prices stated in the Contract. The option may only be exercised by the Contracting Authority up to a maximum of 200 per year, distributed amongst the items and will be evidenced through a contract amendment.

The Contracting Authority may exercise the option within 60 months after approval of the pre-production samples by sending a written notice to the Contractor.

Multiple amendments may result.

A size roll will be provided if and when the option is exercised.

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**ANNEX "F" to PART 5 - BID SOLICITATION  
FEDERAL CONTRACTORS PROGRAM FOR EMPLOYMENT EQUITY - CERTIFICATION**

I, the Bidder, by submitting the present information to the Contracting Authority, certify that the information provided is true as of the date indicated below. The certifications provided to Canada are subject to verification at all times. I understand that Canada will declare a bid non-responsive, or will declare a contractor in default, if a certification is found to be untrue, whether during the bid evaluation period or during the contract period. Canada will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply with any request or requirement imposed by Canada may render the bid non-responsive or constitute a default under the Contract.

For further information on the Federal Contractors Program for Employment Equity visit Employment and Social Development Canada (ESDC)-Labour's website.

Date: \_\_\_\_\_ (YYYY/MM/DD) (If left blank, the date will be deemed to be the bid solicitation closing date.)

Complete both A and B.

A. Check only one of the following:

- A1. The Bidder certifies having no work force in Canada.
- A2. The Bidder certifies being a public sector employer.
- A3. The Bidder certifies being a federally regulated employer being subject to the Employment Equity Act.
- A4. The Bidder certifies having a combined work force in Canada of less than 100 employees (combined work force includes: permanent full-time, permanent part-time and temporary employees [temporary employees only includes those who have worked 12 weeks or more during a calendar year and who are not full-time students]).
- A5. The Bidder has a combined workforce in Canada of 100 or more employees; and
  - A5.1. The Bidder certifies already having a valid and current Agreement to Implement Employment Equity (AIEE) in place with ESDC-Labour.

**OR**

- A5.2. The Bidder certifies having submitted the Agreement to Implement Employment Equity (LAB1168) to ESDC-Labour. As this is a condition to contract award, proceed to completing the form Agreement to Implement Employment Equity (LAB1168), duly signing it, and transmit it to ESDC-Labour.

B. Check only one of the following:

- B1. The Bidder is not a Joint Venture.

**OR**

- B2. The Bidder is a Joint Venture and each member of the Joint Venture must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification. (Refer to the Joint Venture section of the Standard Instructions)

**PERFORMANCE AND TECHNICAL SPECIFICATIONS  
FOR THE  
COMBAT UTILITY GARMENT**

**1.0 SCOPE**

**1.1. Scope**

This specification defines the performance and technical requirements for the Combat Utility Garment.

**2.0 GENERAL**

**2.1. Applicable Documents**

The following documents form part of this specification to the extent specified and are supportive of the specification when referenced; all other document references are to be considered supplemental information only. In the event of a conflict between the documents referenced and the contents of the specification, then the contents of the specification shall take precedence.

- FED-STD-595C - Colors Used in Government Procurement ([www.everyspec.com](http://www.everyspec.com))
- ASTM D4964 - Standard Test Method for Tension and Elongation of Elastic Fabrics ([www.astm.org](http://www.astm.org))
- AATCC Test Method 187 - Dimensional Changes of Fabrics - Accelerated ([www.aatcc.org](http://www.aatcc.org))
- ASTM D 737-96 Standard Test Methods for Air Permeability of Textile Fabrics ([www.astm.org](http://www.astm.org))
- ASTM D4966 - Standard Test Method for Abrasion Resistance of Textile Fabrics (Martindale Test Method) ([www.astm.org](http://www.astm.org))
- AATCC Test Method 22 - Water Repellency: Spray Test ([www.aatcc.org](http://www.aatcc.org))
- ASTM D 3776 Standard Test Methods for Mass Per Unit Area (Weight) of Fabrics ([www.astm.org](http://www.astm.org))
- DCIEM Report 98-CR-15 Anthropometric Survey of the Land Forces ([pubs.rddc-drdc.gc.ca](http://pubs.rddc-drdc.gc.ca))

**2.2. Definitions**

5th Percentile Female	Defined as 154.6 cm (5 ft) tall and weighing 52.8 kg (116 lb) in accordance with DCIEM Report 98-CR-15
95th Percentile Male	Defined as 186.2 cm (6 ft 1 in) tall and weighing 103 kg (227 lb) in accordance with DCIEM Report 98-CR-15
Articulated Elbows/Knees	Angles built into a jacket or pant around the elbow or knee joints, allowing for unencumbered range of motion
Bar Tack	A series of machine made stitches used for reinforcing areas of stress on a garment consisting of a close-set zig-zag series of stitches
Color Coordinated	A color coordinated scheme is one in which all parts or elements are related, blended or matched to a particular color theme that is consistent with maintaining a subdued yet eye pleasing result.
Hook and Loop Fastener	A fastening consisting of two strips of nylon fabric, one having hooked threads and the other a coarse surface, that form a strong bond when pressed together, trademarked under the name VELCRO®.
MULTICAM®	A proprietary design for a camouflage pattern patented by Crye Precision Inc.
Multi-Directional Slide Fastener	A slide fastener with multiple pulls (minimum 2) to allow the fastener to be opened in multiple directions
No-lift Gusseted Underarms	Additional piece of fabric inserted into the seam to add breadth or reduce stress, shape the clothing to fit the body of the wearer and prevent pulling/stretching of

	the fabric when lifting the arms above the head
Slide Fastener	A fastener for locking together two toothed edges by means of a sliding tab, commonly referred to as a zipper.

### 2.3. Acronyms

AATCC	American Association of Textile Chemists and Colorists
ASTM	American Society for Testing of Materials

### 2.4. Layout Sketches

Schematic layout sketches for the Combat Utility Garment are included as part of this Annex. The sketches are designed to provide a general layout of the garments only. They are not to scale and are not representative of the style, fit, color scheme or form of the final garments. The following sketches are included in Appendix 1:

- (a) Figure 1: Combat Utility Garment Jacket; and
- (b) Figure 2: Combat Utility Garment Pant.

## 3.0 **REQUIREMENTS**

### 3.1. Garments

The performance and technical requirements for the Combat Utility Garment are detailed in the following sections. The Combat Utility Garment consists of two (2) garments as follows:

- (a) Combat Utility Garment Jacket; and
- (b) Combat Utility Garment Pant.

### 3.2. Material

The following applies:

- (a) The garments, except where specified otherwise in this document, must be constructed of a durable plain weave stretch-woven material printed with the MULTICAM® camouflage pattern, referred to as the MULTICAM® camouflage pattern material in this specification, with the following properties:
  - i. Composition ( $\pm 1\%$  each):
    - a. 91 % Nylon; and
    - b. 9 % Spandex;
  - ii. Standards compliance (nominal  $\pm 5\%$ ):
    - a. Stretch: ASTM D4964:
      - b. Warp: 24-30%; and
      - c. Fill: 23-29%;
    - d. Dimensional Stability (%): AATCC 187:
      - 1. Less than 3% in each direction;
    - e. Air Permeability: ASTM D 737-96:
      - 1. 23.0 ft<sup>3</sup>/min;
    - f. Water Repellency: AATCC Test Method 22:
      - 1. 100 spray rating;
    - g. Abrasion Testing: ASTM D4966 using 12 Kpa weight:

- 1. 10,000 cycles: Class 5;
- 2. 20,000 cycles: Class 5; and
- 3. 30,000 cycles: Class 5;
- iii. Weight - A nominal weight of 219 grams per square meter (6.5 ounces per square yard) with a variation of no more than  $\pm 5\%$  between production lots in accordance with ASTM D 3776; and
- iv. Outer surface - Durable water repellent finish;

(b) All material must be sourced and supplied by the Contractor.

3.3. Sizing

The Combat Utility Garment must be available in a range of sizes (S, M, L, XL, etc.) that, cumulatively, accommodates the range of sizes from the 5th percentile female to the 95th percentile male as defined in DCIEM Report 98-CR-15 Anthropometric Survey of the Land Forces. The intent is to have available the entire OEM catalogue of sizes that are available for each individual garment. Size dimensions are a general guide and the actual dimensions may vary between manufacturers; however, the products delivered should be available throughout the size ranges and dimensions listed below for each garment. Smaller and larger sizes are also to be included in accordance with the availability for each garment from the OEM.

Table 1: Jackets

Size	Length
Small(S)	Short
	Regular
	Long
	Extra-Long
Medium(M)	Short
	Regular
	Long
	Extra-Long
Large (L)	Short
	Regular
	Long
	Extra-Long
Extra-Large (XL)	Short
	Regular
	Long
	Extra-Long
Extra-Extra-Large (XXL)	Short
	Regular
	Long
	Extra-Long

Table 2: Pants

Size [cm(in)]	Inseam
68.6 (28)	Short
	Regular
	Long
73.5 (30)	Short
	Regular

	Long
	Short
78.4 (32)	Regular
	Long
	Short
83.3 (34)	Regular
	Long
	Short
88.2 (36)	Regular
	Long
	Short
93.1 (38)	Regular
	Long
	Short
98.0 (40)	Regular
	Long

#### 3.4. Similarity of Manufacture

The Combat Utility Garment Jacket and Pant, based on the details within this specification, must be of the same make, color, material and design.

#### 3.5. Dimensions

All dimensions quoted within this specification as nominal must be treated as approximate dimensions ( $\pm 5\%$ ). Nominal dimensions reflect a method by which materials or products are generally identified for sale commercially, but which differ from the actual dimensions. The dimensions quoted within this specification are in relation to a size medium to large jacket or size 34-36 pant and are for the purpose of describing the approximate scale of the features. Where pockets are specified for a particular purpose (magazines, radios, etc.), they must be the same dimensions throughout the range of garment sizes. Grading of other features (sleeve length, collar height, etc.) as required to provide a functional fit is permitted. Final size grading, including dimensions of the individual garments features, to be completed prior to production.

#### 3.6. Layered Finishing

Double-layer MULTICAM material is specified throughout the document. Substitution of the inner layer material, or in other locations where the substitution of another material would provide efficiencies in price, serviceability or comfort of the garments, is permissible as long as the substituted material is not readily visible when the garment is worn.

#### 3.7. Durability

The Combat Utility Garment must provide durability as follows:

- (a) Washing does not result in fading of the material (minimum five (5) washes);
- (b) Seams remain intact and buttons do not become detached under normal wearing conditions; and
- (c) Material does not fray or tear under normal usage.

#### 3.8. Combat Utility Garment Jacket

The requirements for the Combat Utility Garment Jacket are detailed in the following sections.

3.8.1. General

The Combat Utility Garment Jacket must:

- (a) Have double-stitched seams throughout (minimum twelve (12) stitch per inch);
- (b) Have bar tack reinforcements at stress points including pocket openings, button holes and other areas subjected to high loads;
- (c) Have slide fasteners, hook and loop fasteners and stitching that are color coordinated with the MULTICAM® camouflage pattern material;
- (d) Have color coordinated knotted cord pulls on all external slide fasteners in lieu of the common metal/plastic pull;
- (e) Have double-layer articulated elbows;
- (f) Have no-lift gusseted underarms;
- (g) Permit single-hand operation of fasteners and pocket flaps while wearing shooting gloves (such as the Outdoor Research Firemark Glove); and
- (h) Have an attached label that includes:
  - i. Manufacturer part number;
  - ii. Date of manufacture;
  - iii. Size; and
  - iv. Washing instructions;

3.8.2. Design

The Combat Utility Garment Jacket is to be designed in accordance with the following requirements:

- (a) General - The Combat Utility Garment Jacket must consist of a full-length jacket constructed of MULTICAM® camouflage pattern material that extends below the waist to the mid-thigh, with full-length arms;
- (b) Collar - The Combat Utility Garment Jacket collar must:
  - i. Be a high flat collar the extends 7.6-13 cm (3-5 inches) above the shoulders;
  - ii. Be double layer construction of MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards;
  - iii. Have a placket of material of a soft design (such as fleece) on the inner circumference of the collar and in the chin area;
  - iv. Have a multi-directional slide fastener centered in the rear back of the collar extending horizontally across the collar that encloses a hood pocket such that the pocket is open when the slides are extended to the outermost left and right sides of the collar;
  - v. Have a hide-away hood as follows:
    - a. Be constructed of MULTICAM® camouflage pattern material with the finished material surface facing outwards;
    - b. Be large enough to fit over an average human head wearing the DND standard issue combat helmet (CG 634) ([http://matshelmets.se/Manuals/ca-cg634/ca-634\\_1.html](http://matshelmets.se/Manuals/ca-cg634/ca-634_1.html));

- c. Have an integral rain/sun visor at the front upper opening made of a double layer of MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards;
  - d. Have a hook and loop fastener female patch on the top center outer portion of the hood that is nominally 5 cm (2 inches) square;
  - e. Be adjustable such that, when worn over the CG 634 helmet, there will be an unobstructed 180° forward (left to right) field of view;
  - f. Have a single-hand pull cord adjustment mechanism(s) that prevents the hood from loosening and changing its shape once the desired configuration has been set by the user. A hook and loop fastener adjustment mechanism is not acceptable; and
  - g. Neatly roll away into the pocket in the collar of the jacket;
- (c) Pockets - The Combat Utility Garment Jacket must have pockets as follows:
- i. Sleeve Pockets - External flat pockets below the shoulder on the outer side of each arm that are as follows:
    - a. Constructed from MULTICAM® camouflage pattern material with the finished surface facing outwards;
    - b. Nominally 18-20 cm (7-8 inches) wide by 21-24 cm (8.5-9.5 inches) high;
    - c. Include a vertical slide fastener to provide access to the pocket as follows:
      - 1. Located on the forward vertical side of the pocket;
      - 2. Open upwards (elbow to shoulder motion); and
      - 3. Have a full-length double-layer wind flap of MULTICAM® camouflage pattern material with the finished material surfaces facing inwards and outwards;
    - d. Have a hook and loop fastener female patch sewn to center of the exterior of each pocket (left and right) as follows:
      - 1. Nominally 10 cm (4 inches) wide by 11.5 cm (4.5 in) high; and
      - 2. Incorporate a hollow center half circle with a diameter of 6-8 mm (0.25-0.3 in) made of plastic at the top center of the patch;
  - ii. Forearm Pockets - External flat pockets below the elbow on the outer side of each arm below the elbow that are as follows:
    - a. Constructed from MULTICAM® camouflage pattern material with the finished surface facing outwards;
    - b. Nominally 10 cm (4 inches) wide by 14-16.5 cm (5.5-6.5 inches) high; and
    - c. Include a vertical slide fastener to provide access to the pocket as follows:
      - 1. Located on the forward vertical side of the pocket;
      - 2. Open upwards (wrist to elbow motion);
      - 3. Have a full-length double-layer wind flap of MULTICAM® camouflage pattern material with the finished material surfaces facing inwards and outward;
  - iii. External Chest Pockets - External pleated pockets below the shoulder on the upper exterior portion of each side of the chest that are as follows:
    - a. Constructed from MULTICAM® camouflage pattern material with the finished surface facing outwards;
    - b. Nominally 18 cm (7 inches) wide by 27-30 cm (10.5-12 inches) high; and
    - c. Include a vertical slide fastener to provide access to the pocket as follows:
      - 1. Located on the inward vertical side of the pocket;
      - 2. Open downwards (shoulder to waist motion); and

3. Have a full-length double-layer wind flap of MULTICAM® camouflage pattern material with the finished material surfaces facing inwards and outward;
- iv. External Front Waist Cargo Pocket - External flat cargo pockets on the front of the jacket below the external chest pockets that are as follows:
    - a. Constructed from MULTICAM® camouflage pattern material with the finished surface facing outwards;
    - b. Nominally 23 cm (9 inches) wide by 27-30 cm (7-9 inches) high;
    - c. Have a double-layer flap across the top of each pocket made of MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards to provide access to the pocket as follows:
      1. Be the width of the pocket and angled downward at 30 degrees from the upper mid-waist area downwards to the outer side of the pocket;
      2. Be 6-7.5 cm (2.5-3 inches) high;
      3. Open upwards; and
      4. Be secured by two (2) metallic snaps;
    - d. Have a divider pocket made of light-weight synthetic material stitched to the jacket layer that is the width of the cargo pocket and the height of the cargo pocket at the outer side of the angled flap;
  - v. External Rear Waist Center Pocket (Poachers Pocket) - Two (2) external side-by-side rear waist pockets centered on the lower back just above the hem that are as follows:
    - a. Constructed from MULTICAM® camouflage pattern material with the finished surface facing outwards;
    - b. Nominally 23 cm (9 inches) wide by 20 cm (8 inches) high each; and
    - c. Include a horizontal slide fastener on each pocket to provide access to the pocket as follows:
      1. Located on the upper horizontal side of each pocket;
      2. Open inwards (waist to center of back motion); and
      3. Have a full-length double-layer wind flap of MULTICAM® camouflage pattern material with the finished material surfaces facing inwards and outward;
  - vi. External Rear Waist Side Pocket - Two (2) external rear waist pockets on either side of the lower back area outboard of the External Rear Waist Center Pockets that are as follows:
    - a. Constructed from MULTICAM® camouflage pattern material with the finished surface facing outwards;
    - b. Nominally 9 cm (3.5 inches) wide by 20 cm (8 inches) high;
    - c. Incorporate a button hole in the upper region of each pocket to permit routing of a wire from the inside of the pocket to the inside or outside of the jacket; and
    - d. Have a double-layer flap across the top of each pocket made of MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards to provide access to the pocket as follows:
      1. Be the width of the pocket;
      2. Be 6-7.5 cm (2.5-3 inches) high;
      3. Open upwards; and
      4. Be secured by one (1) metallic snap;
  - vii. Internal Chest Pocket - Internal low profile flat pockets on the front of the chest that are as follows:
    - a. Constructed from light weight synthetic material;
    - b. Nominally 15 cm (6 inches) wide by 19 cm (7.5 inches) high; and
    - c. Have a vertical slide fastener to provide access to the pocket as follows:

1. Located on the inner vertical side of the pocket; and
    2. Open downwards (shoulder to waist motion);
  - viii. Internal Chest Utility Pocket - Internal pockets on the upper exterior portion of each side of the chest that overlap the internal chest pockets that are as follows:
    - a. Constructed from light weight synthetic material
    - b. Nominally 7.6 cm (3 inches) wide by 23 cm (9 inches) high;
    - c. Expand to 4-5 cm (1.5-2 inches) depth to hold an AN/PRC-148 radio (made by Thales Inc.); and
    - d. Have an enclosed elasticized upper support/retention system that permits easy access to the radio without removing it from the pocket;
- (d) External Slide Fasteners - The Combat Utility Garment Jacket must have external slide fasteners as follows:
  - i. A multi-directional front slide fastener as follows:
    - a. Centered in the front between the shoulders that runs the entire front length of the jacket such that the wearer does not have to pull the jacket over the head to put it on or take it off;
    - b. Open up and down (two way slides) and fully disconnect when both slides are in the down position;
    - c. Have a full length double-layer external wind flap made of MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards, secured as follows:
      1. A series of hook and loop fastener patches along the length of the flap; and
      2. Snaps at the top and bottom;
    - d. Have a placket of material of a soft design on the inner side of the entire length of the slide fastener to prevent the slide fastener from catching or chaffing;
  - ii. Arm pit vent multi-directional slide fasteners as follows:
    - a. Centered on the arm pit;
    - b. Nominally 25 cm (10 inches) down the body of the jacket and 20 cm (8 inches) down the inner side of the sleeve;
    - c. Open in opposing directions from the center such that the vent is open when the slides are extended to the outermost ends of the fastener; and
    - d. Have two (2) full length double-layer external wind flaps made of MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards, located on either side of the slide fastener such that the fastener is covered to provide wind and moisture resistance;
- (e) Hem - The Combat Utility Garment Jacket hem must:
  - i. Have a double-layer construction (finished material surface facing inwards and outwards) that extends a minimum of 2.5 cm (1 inch) from the bottom of the jacket;
  - ii. Have an internal draw string adjuster that extends around the perimeter of the hem; and
  - iii. Have two (2) single hand draw string adjusters, one (1) on each outer hip area on the inside of the hem;
- (f) Cuffs - The Combat Utility Garment Jacket cuffs must:
  - i. Have a double-layer construction made of MULTICAM® camouflage pattern material with the finished material surfaces facing inwards and outwards, that extends a minimum of 2.5 cm (1 inch) from the sleeve opening; and
  - ii. Have a cuff adjuster on each cuff as follows:
    - a. Low profile hook and loop fastener construction as follows:

- b. Male patch attached to a low profile laminated die-cut strap made of synthetic material that is attached to the double cuff;
  - c. Female strip stitched onto the double cuff and extend one-third to one-half the circumference of the sleeve opening; and
  - d. Close forward to back (male patch located forward of the female patch on each wrist);
- (g) Elbow Pads - The Combat Utility Garment Jacket must;
- i. Have a pouch made of MULTICAM® camouflage pattern material with the finished material surface facing outwards at each elbow that extends from the elbow to mid-forearm suitable for holding a removable elbow/forearm pad as follows:
    - a. Stitched to the MULTICAM® camouflage pattern sleeve material to form a closed perimeter pouch;
    - b. Have an opening on the inside of the sleeve to permit insertion/removal of the elbow pad, secured closed with a hook and loop fastener; and
    - c. Conformed to hold the elbow pad into place;
  - ii. Have elbow pads for each elbow that fit into the external pouches and are:
    - a. Easily removable/replaceable by the user;
    - b. Made of a semi-rigid, flexible foam or polymer that is resistant to abrasion; and
    - c. Anatomically formed to the shape of the elbow and forearm.

### 3.9. Combat Utility Garment Pant

The requirements for the Combat Utility Garment Pant are detailed in the following sections.

#### 3.9.1. General

The Combat Utility Garment Pant must:

- (a) Have double-stitched seams throughout (minimum twelve (12) stitch per inch);
- (b) Have slide fasteners, hook and loop fasteners and stitching that are color coordinated with the MULTICAM® camouflage pattern material;
- (c) Have color coordinated knotted cord pulls on all external slide fasteners in lieu of the common metal/plastic pull;
- (d) Have double-layer articulated knees and seat;
- (e) Permit single-hand operation of fasteners and pocket flaps while wearing shooting gloves (such as the Outdoor Research Firemark Glove); and
- (f) Have an attached label that includes:
  - i. Manufacturer part number;
  - ii. Date of manufacture;
  - iii. Size; and
  - iv. Washing instructions;

#### 3.9.2. Design

The Combat Utility Garment Pant must meet the following design requirements:

- (a) General - The Combat Utility Garment Pant must consist of a full-length pant constructed of MULTICAM® camouflage pattern material with integral suspenders;

- (b) Waist - The Combat Utility Garment Pant waist must:
- i. Have an integral waistband that is of double layer construction made of MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards and a minimum width of 5 cm (2 inches);
  - ii. Have a lining on the inner side of the waistband of a soft design (such as fleece);
  - iii. Have a center front fly as follows:
    - a. Include a slide fastener as follows:
      1. Extend downwards from the bottom of the waistband a minimum of 15 cm (6 inches) and open downwards (waist to knee) such that the waist is open at the top when the slide fastener is in the lower position;
      2. Have a low-profile inside design that does not have any sharp or protruding surfaces that would cause irritation to the wearer; and
      3. Incorporates a placket of MULTICAM® camouflage pattern material on the inner side of the slide fastener to prevent the slide fastener from chaffing the waist of the wearer;
    - b. Secured at the top with two (2) snaps located one above the other on the waistband above the slide fastener;
    - c. Has a combined effective open length of the slide fastener and the waistband (incorporating the snaps) that is a minimum of 20 cm (8 inches); and
    - d. Incorporates a low profile web belt as follows:
      1. Constructed of synthetic webbing material (such as Nylon);
      2. Goes around the perimeter of the waist;
      3. Located between the MULTICAM® camouflage pattern material layers at the back and sides, and exposed in the front; and
      4. Incorporates a buckle as follows:
        - a. Constructed of plastic (non-metallic);
        - b. Have a low profile quick-release design; and
        - c. Permits length adjustment of the belt to suit the wearer;
  - iv. Have belt loops as follows:
    - a. Made of a double layer of MULTICAM® camouflage pattern material with the finished material surfaces facing inwards and outwards;
    - b. Be a minimum of 2.5 cm (1 inch) in width and have an effective belt opening of at least 5 cm (2 inches); and
    - c. Bar-tacked to the waistband at the top and bottom in a manner that provides strength without being bulky (no plastic or metal fasteners);
  - v. Have a removable suspender as follows:
    - a. Have straps as follows:
      1. Two (2) straps in the front connected to the pants on either forward hip with a low profile slide length adjustment mechanism (no snap or clamp type adjusters);
      2. One (1) strap in the back connected to the pants in the center of the back; and
      3. Made of a strong stretchable elasticized material
    - b. Straps join together in the mid-back area to form a y-shaped suspender with a double layer triangular shape piece of MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards; and
    - c. Connected to the pants utilizing a fastener that is attached to the strap, and hooks into a loop of elasticized material that is stitched into the waistband of the pant;
- (c) Pockets - The Combat Utility Garment Pant must have pockets as follows:

- i. Waist front pocket - An internal flat pocket beneath the waistband on each front hip that are as follows:
  - a. Constructed from two pieces of MULTICAM® camouflage pattern material with the finished material surfaces facing the inside of the pocket;
  - b. Suspended from the waistband and pant shell at the top of the pocket;
  - c. Be at least 15 cm (6 inches) wide at the top, 20 cm (8 inches) wide at the bottom, and 28 cm (11 inches) deep;
  - d. Accessible from a vertical opening at the outer side of the pocket of at least 15 cm (6 inches); and
  - e. Have a double-layer flap across each pocket opening made of MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards to provide access to the pocket as follows:
    1. Be the height of the pocket opening;
    2. Have a minimum width of 6 cm (2.5 inches);
    3. Open outwards; and
    4. Secured by a single snap in the center of the flap;
- ii. Thigh side pocket - An external pleated pocket on each outer thigh that extends from below the flap for the waist front pocket to the knee that is as follows:
  - a. Constructed from MULTICAM® camouflage pattern material with the finished material surface facing outwards;
  - b. Extends around the leg from the center of the front of the thigh around the outer leg to the middle quarter-side of the back of the thigh;
  - c. Nominally 23 cm (9 inches) wide by 23 cm (9 inches) deep; and
  - d. Have a double-layer flap across the top of each pocket made of MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards to provide access to the pocket as follows:
    1. The width of the pocket and a nominal height of 6.4 cm (2.5 inches) in the center;
    2. Open upwards; and
    3. Secured by a hook and loop fastener with the male patch attached to the underside of the flap that contacts the female patch on the exterior of the outer pocket flap;
  - e. Have a second pocket that overlays the pocket above as follows:
    1. Constructed from MULTICAM® camouflage pattern material with the finished material surface facing outwards;
    2. Have the same dimensions as the inner pocket above;
    3. Have a double-layer flap across the top of each pocket made of MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards to provide access to the pocket as follows:
      - a. The width of the pocket and a nominal height of 6.4 cm (2.5 inches) in the center;
      - b. Open upwards; and
      - c. Secured by a two (2) metallic snaps;
- iii. Knife/flashlight pocket - External flat pockets on the upper rear of the thigh side pockets that are as follows:
  - a. Constructed from durable synthetic material (such as CORDURA®) on the front attached to the camouflage pattern pant leg material;
  - b. Extend from above the thigh side pocket to below and behind the thigh side pocket;
  - c. Nominally 11.4 cm (4.5 inches) high and 6.4 cm (2.5 inches) wide; and

- d. Have an open top (no flap);
- (d) Cuffs - The Combat Utility Garment Pant cuff must:
- i. Have a double-layer construction (finished material surface facing inwards and outwards) that extends a minimum of 3.8 cm (1.5 inches) from the bottom opening;
  - ii. Have a an internal single hand draw string adjuster that extends around the perimeter of the cuff;
  - iii. Have cuff slide fastener as follows:
    - a. A slide fastener on the outer side of each leg as follows:
      - 1. Starts at the knee and extends to the bottom of the leg opening;
      - 2. Opens upwards (foot to knee motion); and
      - 3. Fully open at the bottom cuff when in the up position;
    - b. Includes two (2) full length double-layer external wind flaps made of MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards, located on either side of the slide fastener such that the fastener is covered to provide wind and moisture resistance; and
    - c. Have a securement at the bottom of the cuff that is made of a low profile die-cut laminated strap that is stitched to the forward side of the opening and is secured to the rear side of the opening by a snap;
- (e) Knees - The Combat Utility Garment Pant must;
- i. Have an external pouch made of MULTICAM® camouflage pattern material with the finished material surface facing outwards that extends from the knee to the mid-shin area suitable for holding a removable knee pad as follows:
    - a. Stitched to the MULTICAM® camouflage pattern pant leg material to form a closed perimeter pouch
    - b. Have an opening on the inside of the leg to permit insertion/removal of the knee pad, secured closed with a hook and loop fastener; and;
    - c. Conformed to hold the knee pad into place;
  - ii. Have knee pads for each knee that fit into the external pouches as follows:
    - a. Easily removable/replaceable by the user;
    - b. Made of a semi-rigid, flexible foam or polymer that is resistant to abrasion;
    - c. Anatomically formed to the shape of the knee and tapered toward the shin; and
    - d. Reinforced on the outer surface with an externally bonded material (such as Nylon).

**APPENDIX 1 COMBAT UTILITY GARMENT SKETCHES**

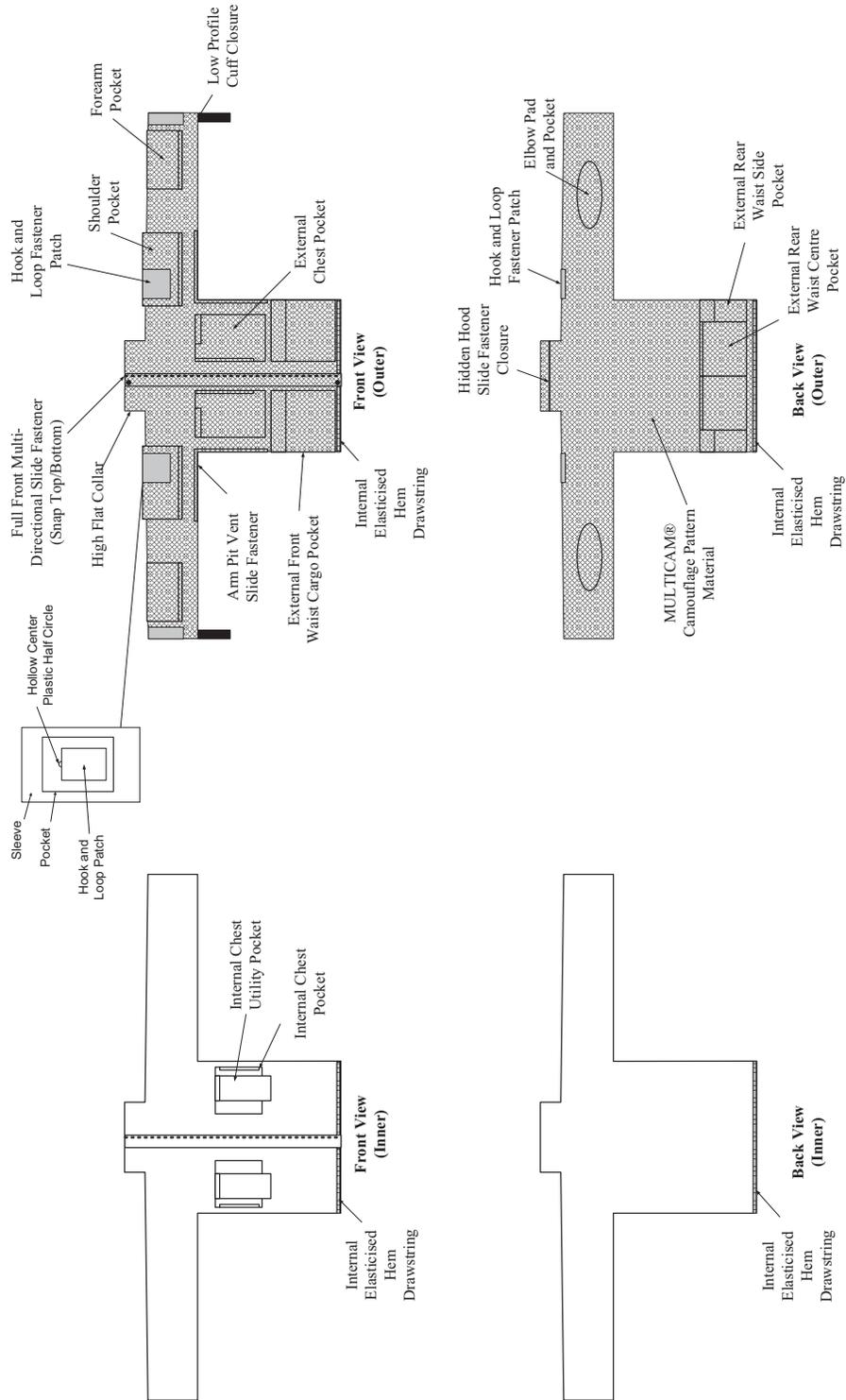


Figure 1: Combat Utility Garment Jacket

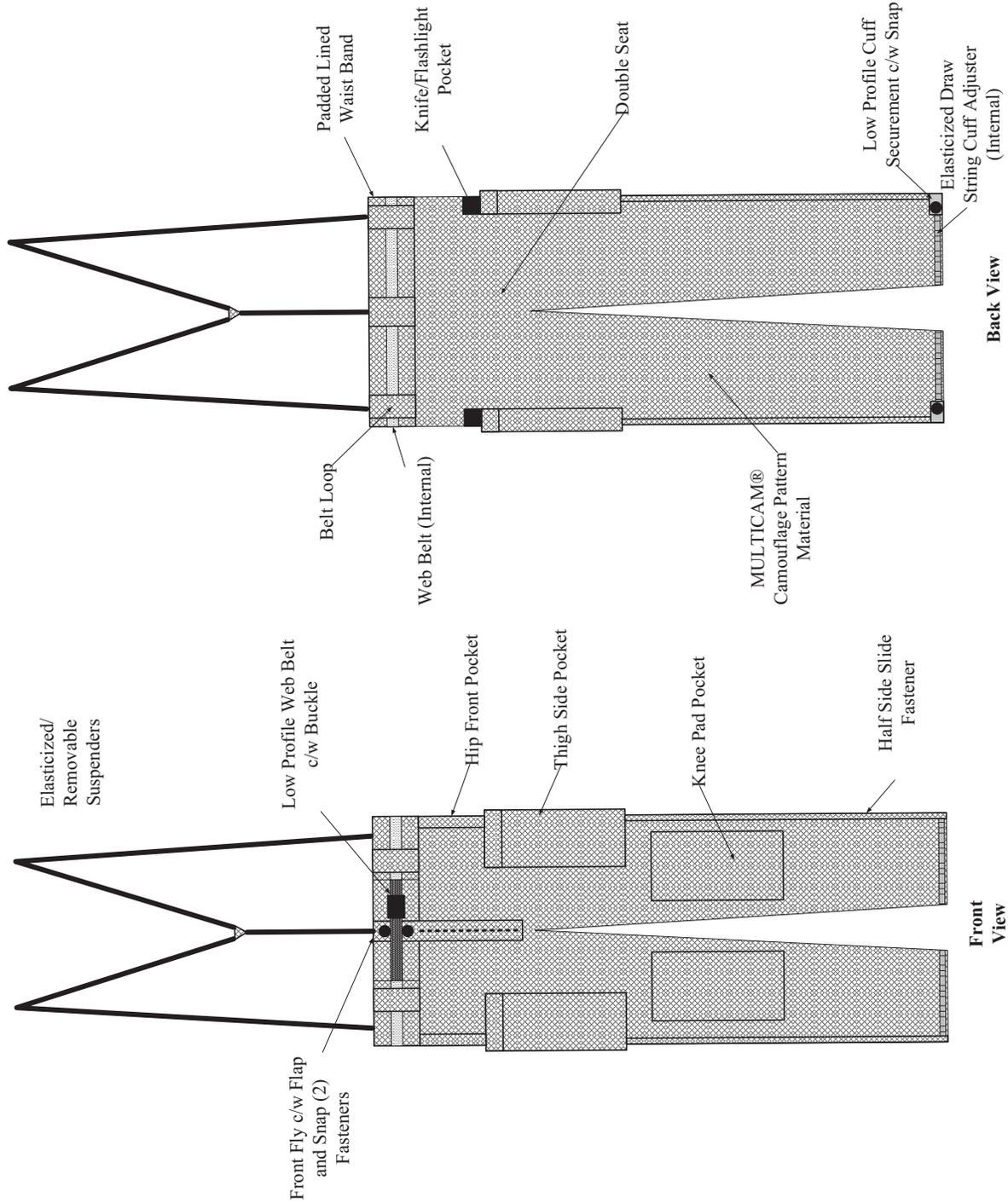


Figure 2: Combat Utility Garment Pant

**PROPOSAL REQUIREMENTS AND BID EVALUATION PLAN (PHASE I)  
FOR THE  
COMBAT UTILITY GARMENT**

**1.0 GENERAL**

**1.1 Purpose**

This document outlines the proposal requirements and the bid evaluation process for the Combat Utility Jacket and Pant.

**2.0 PRE-AWARD SAMPLES**

The Bidder must provide the following samples with the bid:

- (a) One (1) Combat Utility Garment Jacket in size Medium; and
- (b) One (1) Combat Utility Garment Pant in waist size 78.4 (32) Regular.

The samples must fully represent the proposed finished garments and be constructed of the same material to be utilized in the final product including use of the MULTICAM™ color scheme. For bids found compliant and are awarded a Contract (Annex A) for the next phase of the trials (proof of Concept Evaluation), the samples will be considered part of the deliverables of that Contract. All samples will remain the property of Canada.

**3.0 EVALUATION**

**3.1 Instructions**

Bidders will be assessed in accordance with the instructions and criteria as detailed within this document. The following instructions apply to the Bidder evaluation:

- (a) Mandatory requirements are identified by the word "must". All mandatory requirements must be met in order to meet compliance with the requirements; and
- (b) Documentation provided with the bid must:
  - i. Be type written (hand written submissions will not be considered); and
  - ii. Be either hard copy or in electronic format (PDF or Word).

**3.2 Bid Documentation**

The Bidder must provide the following documentation:

- (a) A completed Compliance Matrix (Table 1); and
- (a) Proof of compliance and Written Attestations as specified in the Proof of Compliance column of Table 1. For the purposes of this RFP, a Written Attestation is a written statement from the Bidder, signed by an authorized company representative, guaranteeing it will fully comply with the requirement identified in the "Requirement" column of Table 1. Canada reserves the right to verify the statements made in the Written Attestation;
- (b) Where test results are requested, the Bidder must provide a laboratory analysis of the product offered showing complete test results that confirms that the material meets the standards specified. Testing must be performed by an independent accredited laboratory establishment; and
- (c) Where a third part certification is required, the certification must be from the component or fabric manufacturer that certifies that the component or fabric fully meets or exceeds the stated requirement.

Table 1: Compliance Matrix

Item #	Annex B Para	Requirement	Proof of Compliance	Compliant (Y/N)
1	N/A	<u>Expertise and Proven Design</u> The Bidder must have an existing similar product and have sold a minimum of twenty-five (25) similar uniforms to an American, British, Canadian or Australian (ABCA) military force or a North American (Canadian or US) police agency in the last five (5) years..	The Bidder must provide contract number(s), award date, model and quantities delivered. Cumulative sales over multiple contracts is acceptable.	
2	3.2 (a)	The garments, except where specified otherwise in this document, must be constructed of a durable plain weave stretch-woven material printed with the MULTICAM® camouflage pattern, referred to as the MULTICAM® camouflage pattern material in this specification, with the following properties: i. Composition ( $\pm 1\%$ each): a. 91 % Nylon; and b. 9 % Spandex; ii. Standards compliance (nominal $\pm 5\%$ ): a. Stretch: ASTM D4964;	The Bidder must provide: (1) Written Attestation that the material has the composition as specified; AND (2) Full test results and/or third party certification that confirms that the material meets the standards specified; AND	

			<p>b. Warp: 24-30%; and  c. Fill: 23-29%;  Dimensional Stability (%): AATCC 187;  1. Less than 3% in each direction;  e. Air Permeability: ASTM D 737-96:  1. 23.0 ft<sup>3</sup>/min;  f. Water Repellency: AATCC Test Method 22:  1. 100 spray rating;  g. Abrasion Testing: ASTM D4966 using 12 Kpa weight:  1. 10,000 cycles: Class 5;  2. 20,000 cycles: Class 5; and  3. 30,000 cycles: Class 5;  iii. Weight - A nominal weight of 219 grams per square meter (6.5 ounces per square yard) with a variation of no more than ± 5% between production lots in accordance with ASTM D 3776; and  iv. Outer surface - Durable water repellent finish.</p>	(3) Written Attestation that the material has a nominal weight as specified.
3	3.2 (b)	All material must be sourced and supplied by the Contractor.		The Bidder must provide Written Attestation that they will source and supply all materials required for the production of the Combat Utility Garment.
4	3.3	The garments must be available in the sizes specified in Annex B Section 3.3.		The Bidder must provide Written Attestation that the garments will be graded to the sizes specified prior to production.
5	SOW (2.0 (c))	The garments must be available in custom sizes.		The Bidder must provide Written Attestation that custom sizing of garments will be available.
6	3.4	<u>Similarity of Manufacture</u> The Combat Utility Garment Jacket and Pant, based on the details within this specification, must be of the same make, colour, material and design.		The Bidder must provide Written Attestation that the Combat Utility Garment Jacket and Pant will be of the same make, colour, material and design.

7	3.7	<p><u>Durability</u> The Combat Utility Garment must provide durability as follows:</p> <ul style="list-style-type: none"> <li>(a) Washing does not result in fading of the material (minimum five (5) washes);</li> <li>(b) Seams remain intact and buttons do not become detached under normal wearing conditions; and</li> <li>(c) Material does not fray or tear under normal usage.</li> </ul>	<p>DND will examine the samples to verify the similarity of manufacture. DND will verify durability during the Proof of Concept Field Trial.</p>	
8	3.8	<p><u>Combat Utility Garment Jacket</u> The requirements for the Combat Utility Garment Jacket are detailed in Section 3.8 and subsequent sub-sections of Annex B.</p>	<p>The Bidder must provide Written Attestation that the Combat Utility Garment Jacket will be designed and constructed to meet the Combat Utility Garment Jacket requirements.  DND will examine and measure the samples to verify features and dimensions.</p>	
9	3.9	<p><u>Combat Utility Garment Pant</u> The requirements for the Combat Utility Garment Pant are detailed in Section 3.9 and subsequent sub-sections of Annex B.</p>	<p>The Bidder must provide Written Attestation that the Combat Utility Garment Pant will be designed and constructed to meet the Combat Utility Garment Pant requirements.  DND will examine and measure the samples to verify features and dimensions.</p>	

**DEPARTMENT OF NATIONAL DEFENCE (DND)  
PROOF OF CONCEPT TRIALS  
FOR THE  
COMBAT UTILITY GARMENT**

**1.0 GENERAL**

**1.1 Purpose**

This document outlines the Proof of Concept trials to be conducted by DND for the Combat Utility Jacket and Pant.

**1.2 Contractor Participation**

The information provided in this Annex is for information purposes only. The trials will be conducted by DND without any support required from the Contractors that supply the clothing to be evaluated. The Contractors will not be permitted to witness any portion of the tests and evaluations. The Contractors may be provided the results of the Proof of Concept trial for their specific clothing system only.

## APPENDIX 1 PROOF OF CONCEPT TRIALS

### A1.1 Scope

This Appendix details the Proof of Concept trials for the Combat Utility Garment.

### A1.2 Contractor Participation

The information provided in this Appendix is for information purposes only. The trials will be conducted by DND without any support required from the Bidders that supply the uniforms to be evaluated. The Bidders will not be permitted to witness any portion of the trials.

### A1.3 Aim

The aim of the Proof of Concept trials is to evaluate the impact of the uniform on the operator mobility, survivability and lethality. The trials will consider both the operator's ability to effectively conduct tasks while wearing the uniform, and their perceived physical and thermal discomfort.

### A1.4 Proof of Concept Trial Plan

The trials are task-based and are focused on the operator's ability to effectively conduct these tasks in a simulated operational environment. The tasks will be rated qualitatively through the use of a systematic user rating. A group of non-participants will record the results at each phase of the trial program and ensure that there are no unfair or biased components injected into the trial program. For each trial, participants will wear Canadian Forces (CF) issued equipment as required including combat dress, boots, bump cap/field cap, ear and eye protection, climbing harness, shooting gloves and a weapon (C8 with sling). The Combat Utility Garment will be loaded with the following equipment:

- (a) Binoculars;
- (b) Personal team radio with associated communication wires;
- (c) CF ration packs (2);
- (d) C8 Magazines (3 fully loaded); and
- (e) Miscellaneous small items (map, compass, point and shoot camera, Field Message Pad (FMP) and pencil).

#### A1.4.1 Participants

The participants will be selected based on their specialty skill sets, with the selection covering the size range of the Combat Utility Garments in order to provide a representative sample of the end-user community. A minimum of six (6) participants will complete the trials. Each participant will conduct the trial with one of the Bidder's Combat Utility Garments such that each of the uniforms provided by the Bidder are trialed by at least one different participant. All participants will be familiar with the use and wearing of a Combat Utility Garment in the operational environments for which it is designed. Each participant must complete all tasks within the specific test for all Combat Utility Garments under evaluation. Should a participant become incapacitated or unavailable to complete the test for all systems, the activity will be deemed incomplete for that participant and none of the results for that participant will be included in the overall assessment of that test.

#### A1.4.2 Trial Program

The Proof of Concept trial will be conducted at a DND facility over a period of a number of days depending on the number of Combat Utility Garments to be assessed. Each participant will be required to

complete the trials wearing each Combat Utility Garment in succession. Combat Utility Garments will be trialed in a random order of Bidders and no more than two (2) separate Bidders will be trialed by a participant on the same day. Rest periods will be included in the trial program to eliminate the bias of physical exhaustion from the assessment process.

A1.4.3 User Rating

Participants will provide task evaluations at the completion of various activities for both the baseline condition (no Combat Utility Garment) and for each Combat Utility Garment. The trial data collected, including the participant evaluations, will be recorded on the Trial Questionnaire forms, which will be completed for each participant as follows:

- (a) Appendix 2 - Trial Questionnaire - Fit Sizing (Activity 1);
- (b) Appendix 3 - Trial Questionnaire – Operational Task Effectiveness (Activity 2); and
- (c) Appendix 4 - Trial Questionnaire - Durability (Activity 3).

The participant evaluations will be captured by individual ratings of various criteria using a non-biased approach to collecting user perception. A 7-point scale will be used to provide a clear and understandable quantification of the participants' perceptions in a controlled manner. Some tests, as designated on the individual Trial Questionnaires, are assigned a higher weight. The scale is defined as follows:

7-Point Scale

Scale	Participant Perception	Definition	Score
1	Completely Unacceptable	The Combat Utility Garment did not meet any requirements for the task and had severe limitations that would prevent the operator from completing the task.	0
2	Reasonably Unacceptable	The Combat Utility Garment met the minimal requirements for the task and had some limitations that may prevent the operator from completing the task.	1
3	Barely Unacceptable	The Combat Utility Garment met some of the requirements for the task and performed in a manner that would permit the operator to complete the task with some limitations on range of use.	2
4	Borderline	The Combat Utility Garment met some of the requirements for the task and performed in a manner that would permit the operator to complete the task with only minor limitations on range of use.	3
5	Barely Acceptable	The Combat Utility Garment met some of the requirements for the task and performed well in the hands of the operator with only minor limitations.	4
6	Reasonably Acceptable	The Combat Utility Garment met most of the requirements for the task and performed well in the hands of the operator with minimal limitations.	5
7	Completely Acceptable	The Combat Utility Garment met or exceeded all requirements for the task and performed in every way expected by the operator.	6

A1.4.4 Activities and Procedures

The details of the trials and the data collection procedures are given in the following sections. The trial activities are based upon operational related tasks performed by operators. The participants will complete

all portions of the trials without wearing a Combat Utility Garment in order to establish a baseline condition, and each Combat Utility Garment in a configuration consistent with the task. Prior to each trial, the participant will insert the equipment to be carried during the trials in the uniform worn (either the CF issue combats or the Combat Utility Garment). For the Combat Utility Garment trial, the garments will either be worn over the CF issue Combats or over a t-shirt and shorts, depending on the weather.

A1.4.4.1 Activity 1 - Fit Sizing

The participant will complete the following tasks:

- (a) Test 1A – Fit Sizing: The participant will complete the Fit Sizing (Pre-Washed) section of the Fit Sizing questionnaire at Appendix 2. The assessments includes:
  - i. Fit Sizing – Rating the fit of the Combat Utility Garment, including the adjustability of the system to the individual user;
  - ii. Load Carriage - Rating the sizing and placement of the pockets in relation to the equipment;
  - iii. Accessibility - Rating the accessibility to the pockets, including access to the radio, while wearing combat gloves (e.g., Outdoor Research Firemark Gloves); and
  - iv. Comfort/Use – Rating the overall thermal and physical comfort and useability (range of motion, flexibility, etc.) of the Combat Utility Garment;
- (b) The Combat Utility Garments from each Bidder will be washed five (5) times each; and
- (c) Test 1B – Fit Sizing: The participant will complete the Fit Sizing (Post-Washed) section of the Fit Sizing questionnaire at Appendix 2 as per Test 1A.

A1.4.4.2 Activity 2 – Operational Task Effectiveness Trial

The participants will complete the Operational Task Effectiveness Trial as follows:

- (a) Rope Ladder Climb: The Participant will wear a bump cap and a climbing harness with a manned safety line. The Participant will conduct a rope ladder climb of approximately 6 m (20 ft) up to an elevated position and transit to the Observation Point;
- (b) Observation Post: The Participant will observe a distant object using the binoculars, take appropriate notes in the FMP and turn on their radio and report their observations on the object. The radio will remain on for the remainder of the trials. The Participant will then proceed back down from the Observation Point and remove their climbing harness;
- (c) All Terrain Vehicle Transit: The Participant will then transit approximately 7 km (4.4 mi) at no more than 50 kph (30 mph) across country/regional roadways to a dismount point. The Participant will then remove the bump cap, don the field hat and take appropriate notes in the FMP;
- (d) Navigation: The Participant will then navigate approximately 600 m (650 yds) across country using the map and compass to the Relay Course taking appropriate notes in the FMP while on route;
- (e) Relay Course: The Relay Course will be as follows:
  - i. The Relay Course will be set up as follows (see Figure 1):
    - a. Each Target Point will have two (2) target frames that are 122 cm x 122 cm (4 ft x 4 ft); and

- b. Barricades will be placed at each firing point to simulate firing from either shoulder around an obstacle;
- ii. Each participant will complete the Relay Course as follows:
  - a. Begin at the Start Point with the weapon and three (3) magazines, one (1) in the weapon and two (2) in their pockets, loaded with ten (10) rounds each;
  - b. Sprint to the Fire Point (Prone), adopt the prone position and fire one (1) magazine into the left target frame at Target Point 1;
  - c. Crawl to the Fire Point (Kneeling), adopt the kneeling position and fire one (1) magazine into the right target frame at Target Point 1;
  - d. Sprint to the Fire Point (Crouching), adopt the crouching position and fire one (1) magazine into the left target frame at Target Point 2, then reload one (1) magazine with ten (10) rounds; and
  - e. Crawl to the Fire Point (Standing), adopt the standing position and fire one (1) magazine into the right target frame at Target Point 2;
- iii. The Participant will then take a picture of the Target Point 2 using the point and shoot camera and call for "pick-up" on their radio. The Participant will then change channels on their radio as directed and take notes on the Relay Course outcome;

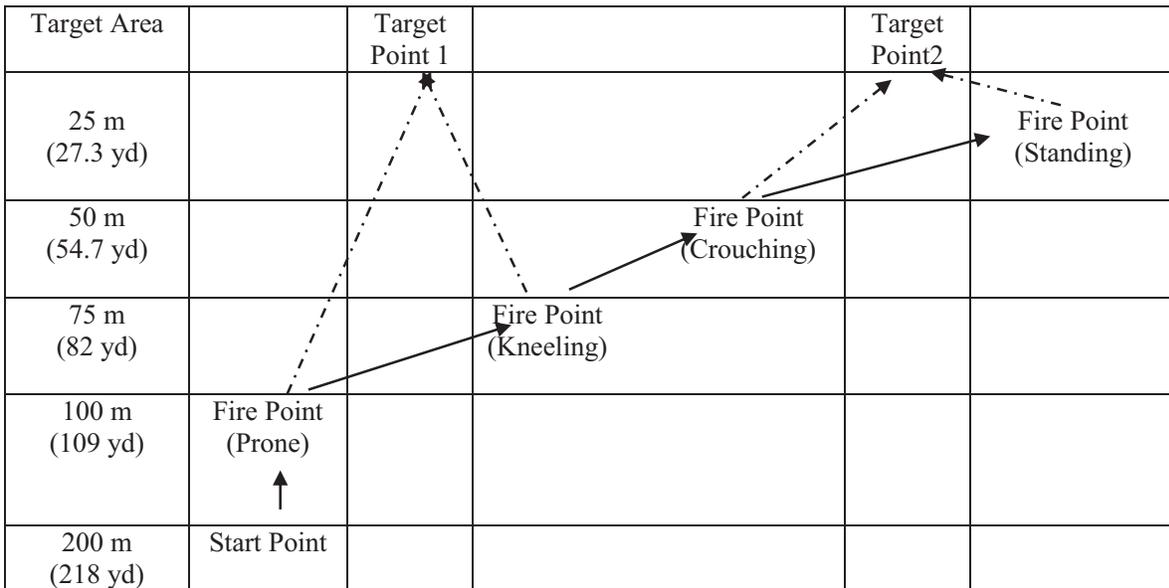


Figure 1: Relay Course

- (f) Pick-Up and Transit: The Participant will then be picked up in a Suburban truck and driven to the finish point. Enroute, the Participant will reload the three (3) empty magazines; and
- (g) The Participant will then complete the Operational Task Effectiveness questionnaire at Appendix 3.

A1.4.4.3 Activity 3 – Durability

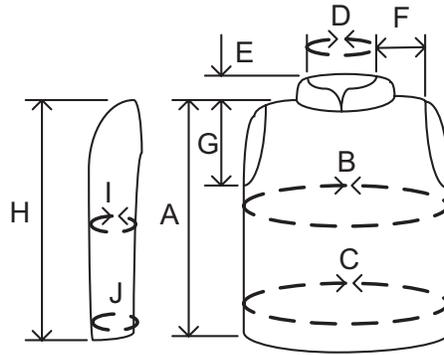
The Participants will then complete the Durability questionnaire at Appendix 4.

**APPENDIX 2 TRIAL QUESTIONNAIRE - FIT SIZING (ACTIVITY 1)**

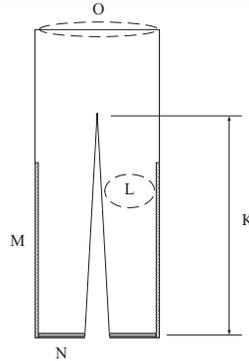
Participant Name/Number:	
Date:	
Combat Utility Garment:	
Shirt Size:	
Pant Size:	

Scale	Participant Perception	Definition	Score
1	Completely Unacceptable	The Combat Utility Garment did not meet any requirements for the task and had severe limitations that would prevent the operator from completing the task.	0
2	Reasonably Unacceptable	The Combat Utility Garment met the minimal requirements for the task and had some limitations that may prevent the operator from completing the task.	1
3	Barely Unacceptable	The Combat Utility Garment met some of the requirements for the task and performed in a manner that would permit the operator to complete the task with some limitations on range of use.	2
4	Borderline	The Combat Utility Garment met some of the requirements for the task and performed in a manner that would permit the operator to complete the task with only minor limitations on range of use.	3
5	Barely Acceptable	The Combat Utility Garment met some of the requirements for the task and performed well in the hands of the operator with only minor limitations.	4
6	Reasonably Acceptable	The Combat Utility Garment met most of the requirements for the task and performed well in the hands of the operator with minimal limitations.	5
7	Completely Acceptable	The Combat Utility Garment met or exceeded all requirements for the task and performed in every way expected by the operator.	6

Test 1A – Fit Sizing (Pre-Washed)							
Rate the Combat Utility Garment in the following dimensions for acceptability for length, openings, etc. For example, in regards to leg inseam, please rate if leg length is long enough (that can be too short or too long), as well if the inseam is of appropriate length (i.e. rides too high).	Fit Sizing						
	☹			☺			☺
	0	1	2	3	4	5	6
Shirt							
Length (A)	<input type="checkbox"/>						
Chest Girth (B)	<input type="checkbox"/>						
Waist Girth (C)	<input type="checkbox"/>						
Neck Opening (D)	<input type="checkbox"/>						
Collar Height (E)	<input type="checkbox"/>						
Width at Shoulder (F)	<input type="checkbox"/>						
Arm Opening (G)	<input type="checkbox"/>						
Arm Length (H)	<input type="checkbox"/>						
Arm Girth (I)	<input type="checkbox"/>						
Wrist Opening (J)	<input type="checkbox"/>						



<b>Pant</b>							
Length of Inseam (K)	<input type="checkbox"/>						
Leg Girth Mid-Thigh (L)	<input type="checkbox"/>						
Leg Slide Fastener Closure System (M)	<input type="checkbox"/>						
Comfort of Stretch Cuff (N)	<input type="checkbox"/>						
Adjustability of Pant Closure at Waist (O)	<input type="checkbox"/>						



Rate the Combat Utility Garment in the following:	Comfort/Use ☹ 0 1 2 3 4 5 6 ☺						
Load Carriage (purpose-built pocket sizing)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pocket Accessibility (external, internal and radio)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Range of motion through arms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Range of motion through legs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Range of Motion of neck	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flexibility/Stiffness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall Comfort (thermal and physical) of the Combat Utility Garment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Score</b>	(     /132 ) x 5 =						

<b>Test 1B – Fit Sizing (Post-Washed)</b>							
Rate the Combat Utility Garment in the following dimensions for acceptability for length, openings, etc. For example, in regards to leg inseam, please rate if leg length is long enough (that can be too short or too long), as well if the inseam is of appropriate length (i.e. rides too high).	Fit Sizing ☹ 0 1 2 3 4 5 6 ☺						
<b>Shirt</b>							
Length (A)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chest Girth (B)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Waist Girth (C)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Neck Opening (D)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Collar Height (E)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Width at Shoulder (F)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Arm Opening (G)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Arm Length (H)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Arm Girth (I)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wrist Opening (J)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Pant</b>							
Length of Inseam (K)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Leg Girth Mid-Thigh (L)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Leg Slide Fastener Closure System (M)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comfort of Stretch Cuff (N)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Adjustability of Pant Closure at Waist (O)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rate the Combat Utility Garment in the following:	Comfort/Use ☹ 0 1 2 3 4 5 6 ☺						
Load Carriage (purpose-built pocket sizing)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pocket Accessibility (external, internal and radio)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Range of motion through arms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Range of motion through legs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Range of Motion of neck	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flexibility/Stiffness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall Comfort (thermal and physical) of the Combat Utility Garment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Score</b>	(     /132) x 5 =						

**APPENDIX 3 TRIAL QUESTIONNAIRE – OPERATIONAL TASK  
 EFFECTIVENESS (ACTIVITY 2)**

Participant Name/Number:	
Date:	
Combat Utility Garment:	
Shirt Size:	
Pant Size:	

Scale	Participant Perception	Definition	Score
1	Completely Unacceptable	The Combat Utility Garment did not meet any requirements for the task and had severe limitations that would prevent the operator from completing the task.	0
2	Reasonably Unacceptable	The Combat Utility Garment met the minimal requirements for the task and had some limitations that may prevent the operator from completing the task.	1
3	Barely Unacceptable	The Combat Utility Garment met some of the requirements for the task and performed in a manner that would permit the operator to complete the task with some limitations on range of use.	2
4	Borderline	The Combat Utility Garment met some of the requirements for the task and performed in a manner that would permit the operator to complete the task with only minor limitations on range of use.	3
5	Barely Acceptable	The Combat Utility Garment met some of the requirements for the task and performed well in the hands of the operator with only minor limitations.	4
6	Reasonably Acceptable	The Combat Utility Garment met most of the requirements for the task and performed well in the hands of the operator with minimal limitations.	5
7	Completely Acceptable	The Combat Utility Garment met or exceeded all requirements for the task and performed in every way expected by the operator.	6

Mobility	
Rate the following for acceptability while wearing the Combat Utility Garment.	User Assessment
	☹ 0 1 2 3 4 5 6 ☺
Overhead reaching and grasping (ladder rungs)	<input type="checkbox"/>
Mobility through pant legs while climbing/descending	<input type="checkbox"/>
Noise of garment while climbing	<input type="checkbox"/>
Snagging while ingress/egress into openings (e.g., windows)	<input type="checkbox"/>
Access to required equipment (FMP, Radio, Rations)	<input type="checkbox"/>
Operating All Terrain Vehicle.	<input type="checkbox"/>
Thermal comfort (sweating, too cold)	<input type="checkbox"/>
Physical comfort (chaffing, etc.)	<input type="checkbox"/>
Adjustment of openings (zippers) with and without gloves	<input type="checkbox"/>
Egress/ingress operational vehicles	<input type="checkbox"/>
<b>Score</b>	<b>( /60) x 10 = _____</b>

Shooting							
Rate the following for acceptability while wearing the Combat Utility Garment.	User Assessment						
	☹			☹			☺
	0	1	2	3	4	5	6
Ease of moving to firing point (running/crawling)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ease of adopting prone position	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ease of adopting kneeling position	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ease of adopting standing position	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ease of gaining and maintaining sight picture in any position	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access and removal of magazines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Score</b>	( <u>      </u> /36) x 10 = <u>      </u>						

**APPENDIX 4 TRIAL QUESTIONNAIRE - DURABILITY (ACTIVITY 3)**

Participant Name/Number:	
Date:	
Utility Garment:	
Shirt Size:	
Pant Size:	

Scale	Participant Perception	Definition	Score
1	Completely Unacceptable	The Combat Utility Garment did not meet any requirements for the task and had severe limitations that would prevent the operator from completing the task.	0
2	Reasonably Unacceptable	The Combat Utility Garment met the minimal requirements for the task and had some limitations that may prevent the operator from completing the task.	1
3	Barely Unacceptable	The Combat Utility Garment met some of the requirements for the task and performed in a manner that would permit the operator to complete the task with some limitations on range of use.	2
4	Borderline	The Combat Utility Garment met some of the requirements for the task and performed in a manner that would permit the operator to complete the task with only minor limitations on range of use.	3
5	Barely Acceptable	The Combat Utility Garment met some of the requirements for the task and performed well in the hands of the operator with only minor limitations.	4
6	Reasonably Acceptable	The Combat Utility Garment met most of the requirements for the task and performed well in the hands of the operator with minimal limitations.	5
7	Completely Acceptable	The Combat Utility Garment met or exceeded all requirements for the task and performed in every way expected by the operator.	6

Durability							
Rate the Utility Garment for acceptability of its durability as follows:				User Assessment			
				☹		☺	☺
				0	1	2	3
				4	5	6	
Fading				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				☹		☺	☺
				0	2	4	6
				8	10	12	
Intact Seams				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intact Buttons				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fraying/Tearing				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Score</b>				<b>( /42) x 5 =</b>			

**STATEMENT OF WORK (PHASE II)  
FOR THE  
COMBAT UTILITY GARMENT**

**1.0 SCOPE**

1.1. Purpose

The purpose of this statement of work is to define the scope and requirements for the delivery of the Combat Utility Garment to the Department of National Defence (DND).

1.2. Background

DND has a requirement for a special purpose Combat Utility Garment to support training and operations where standard Canadian Forces clothing is unsuitable. The uniform will be made from light-weight, breathable synthetic material printed with the MULTICAM® camouflage pattern and will consist of one pair of pants and one jacket. The uniform will incorporate special purpose features as well as integrated knee and elbow protection.

1.3. Applicable Documents

The following documents form part of this statement of work to the extent specified and are supportive of the statement of work when referenced; all other document references are to be considered supplemental information only. In the event of a conflict between the documents referenced herein and the contents of this statement of work, then the contents of this statement of work shall take precedence.

- Canadian General Standards Board (CGSB) CAN/CGSB-43.22-2001 Corrugated Fibreboard Products

**2.0 DELIVERABLES**

2.1. Technical Data

The Contractor must provide to the DND Technical Authority (TA), in English, the following information for each garment type (PDF or Word format, mailed by disk or by email to the TA):

- (a) Item Name;
- (b) NCage, if applicable;
- (c) NATO Stock Number (NSN) and/or Manufacturer Part Number (MPN);
- (d) Price;
- (e) Weight; and
- (f) Shelf Life (if applicable);

## 2.2 Quality Assessment

The material of the pre-production sample garments must be free of imperfections or blemishes that may adversely affect its appearance, quality, serviceability and functionality. For inspection purposes, imperfections and blemishes must be considered defects when clearly visible at a normal inspection distance of approximately 1 m (3.3 ft) under day light conditions. Good commercial standard practices must apply throughout, with the following being considered poor commercial standard practice:

- (a) Any hole, cut, tear, mend, drop stitch, raised seam, loose knit, miss knit, streak, knitted-in-waste, permanent fold, pleat or crease;
- (b) Any spot or stain, discoloration or colour not as specified; and
- (c) Any shaded part or any objectionable odor.

## 2.3 Special Sizes

The term “special size garments” is defined as garments whose sizes are outside the Scale of Measurements in the manufacturing data (Annex B). Special size garment is in essence tailor fit to an individual using body measurements provided by DND. With the exception of size the Contractor must make Special Size garments in full compliance with the technical requirements of Annex B, or in accordance with the approved pre-production samples as applicable. Special size garments are to be delivered to the location specified on the delivery order within thirty (30) days of receipt of the order by the Contractor. DND will supply to the Contractor the following body measurements for every special size order:

- (a) Height without shoes;
- (b) Chest / bust circumference;
- (c) Waist circumference;
- (d) Hip circumference (women only);
- (e) Neck circumference;
- (f) Sleeve length; and
- (g) Inseam.

## 2.4 Packaging – Individual

Each garment shall be folded and packaged individually. The package shall consist of a polyethylene (or other transparent film) bag or envelope, made of material not less than one (1) mil thickness. The bags shall be taped or stapled to effect closure and shall be legibly marked (labeled) as follows (only required if the garment’s identification markings are not clearly visible through the bag):

- (a) NATO Stock Number (NSN) and/or Manufacturer Part Number;
- (b) Item Name; and
- (c) Size.

### 2.5 Packaging – Quantity

Individual garment packages of the same size shall be packed into a corrugated fiberboard box as follows:

- (a) Box construction and closure conforms to CAN/CGSB-43.22-2001;
- (b) Overall inside dimensions (length, width and depth added) shall not exceed 1.5 meters (59 inches) and the box size and content quantity shall remain the same for the duration of the contract;
- (c) Maximum weight of the box and contents shall not exceed 18 kg (40 pounds);
- (d) Stenciling or labelling on one end of each box, in legible figures as large as practicable in relation to the space available, the following information:
  - i. NATO Stock Number (NSN) or Manufacturer Part Number;
  - ii. Item Name/Nomenclature (in bilingual format);
  - iii. Quantity (per box);
  - iv. Gross Weight (nearest kg); and
  - v. Contract Serial Number - As specified on contract.

### 2.6 Quality Assurance Program

#### 2.6.1 General

The Contractor must be responsible for the performance of all inspections and tests necessary to demonstrate that the material submitted to DND for acceptance conform to the requirements of the contract. The Contractor may utilize its own inspection and test equipment, or that of any other facility acceptable to the DND Quality Assurance Authority. The DND Quality Assurance Authority reserves the right to perform any verification of the activities deemed necessary to confirm that the material conforms to contract requirements.